

8568A
SPECTRUM ANALYZER
100 Hz to 1.5 GHz

volume 2

Section IV
PERFORMANCE TESTS

Section V
ADJUSTMENTS

Section VI
REPLACEABLE PARTS

Section VII
MANUAL BACKDATING CHANGES

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SECTION IV PERFORMANCE TESTS

4-1. INTRODUCTION

4-2. The procedures in this section test the instrument's electrical performance using the specifications in Table 1-1 as the performance standards. None of the tests require access to the interior of the instrument. The manual performance tests provided in this section should be performed only if semi-automatic test equipment (for Operation Verification) is not available. Operation Verification requires much less time and test equipment to verify compliance with specifications.

4-3. If a test measurement is marginal, go to Section V and perform adjustment procedures. When an adjustment is directly related to a performance test, the adjustment procedure is referenced under RELATED ADJUSTMENT in the procedure.

4-4. OPERATION VERIFICATION

4-5. The 8568A Operation Verification is a

semi-automatic test procedure that verifies compliance with specifications listed in Table 1-1 to a confidence level of greater than 80%. It is recommended for incoming inspection and as a test of instrument performance after repair. Operation Verification is described in Section II.

4-6. 8568A REPAIR

4-7. After repair of any 8568A, the Operation Verification procedure should be used, rather than performing all of the manual performance tests, to verify compliance with specifications. An HP 9866A/B or HP 9871A printer should be used with the HP 9825A Desktop Computer to provide a permanent detailed test record.

4-8. 8568A REPAIR AND CERTIFICATION

4-9. When a complete repair and certification or calibration and certification is required, proceed as follows:

Table 4-1. Performance Test Cross Reference

FUNCTION TESTED	PARA. NO.	PARAGRAPH TITLE
Center Frequency Readout	4-12	Center Frequency Readout Accuracy Test
Frequency Spans	4-13	Frequency Span Accuracy Test
Sweep Times	4-14	Sweep Time Accuracy Test
3-dB Bandwidths	4-15	Resolution Bandwidth Accuracy Test
Bandwidth Shape	4-16	Resolution Bandwidth Selectivity Test
Bandwidth Amplitudes	4-17	Resolution Bandwidth Switching Uncertainty Test
Input Attenuator Accuracy	4-18	Input Attenuator Switching Uncertainty Test
Frequency Response	4-19	Frequency Response Test
RF Gains	4-20	RF Gain Uncertainty Test
IF Gains	4-21	IF Gain Uncertainty Test
Log Scales Accuracy	4-22	Log Scale Switching Uncertainty Test
Log and Linear Amplifier Fidelity	4-23	Amplitude Fidelity Test
Noise Floor	4-24	Average Noise Level Test
Residual Responses	4-25	Residual Responses Test
Spurious Responses	4-26	Spurious Responses Test
Residual FM	4-27	Residual FM Test
Line Related Sidebands	4-28	Line Related Sidebands Test
CAL OUTPUT Level	4-29	Calibrator Amplitude Accuracy Test

- a. After repair (if required), run the Operation Verification program using an HP 9825A Desktop Computer. An HP 9866A/B or 9871A printer must be used to provide a permanent test record.
- b. Since the Operation Verification program verifies compliance with all specifications except Center Frequency Readout Accuracy and Spurious Responses, these two tests must be performed manually (Refer to paragraphs 4-12 and 4-26).

4-10. CALIBRATION CYCLE

4-11. This instrument requires periodic verification of performance. The instrument should be checked in the manner described in Paragraph 4-9, at least every six months.

4-11a. EQUIPMENT REQUIRED

4-11b. Equipment required for Operation Verification or manual performance tests is listed under Recommended Test Equipment, Table 1-3, in Section I. Any equipment that satisfies the critical specifications given in the table may be substituted for the recommended model.

4-11c. TEST RECORD

4-11d. The Operation Verification program provides a detailed test record when printer is used with desktop computer. If manual performance tests are done, results of the performance tests may be tabulated on the Test Record at the end of this section. The Test Record lists all of the tested specifications and the acceptable ranges for the measurement values obtained during the tests.

PERFORMANCE TESTS

NOTE

Place instrument LINE switch in ON position and allow 1 hour warm-up time.

4-12. CENTER FREQUENCY READOUT ACCURACY TEST

RELATED ADJUSTMENTS:

Frequency Control Adjustments
 Time Base Adjustment
 Step Gain and 18.4 MHz Local Oscillator Adjustments
 50 MHz Voltage-Tuned Oscillator Adjustments

SPECIFICATION:

(uncorrected)

\pm (2% of frequency span + frequency reference error x tune frequency +10% of resolution bandwidth setting +10 Hz) in AUTO resolution bandwidth after adjusting FREQ ZERO at stabilized temperature.

DESCRIPTION:

The analyzer is tuned to various comb teeth produced by a comb generator and the center frequency readout is compared to the known frequencies of the comb teeth. The readout accuracy is checked at different span settings. By triggering the comb generator with the house frequency standard used to calibrate the analyzer's internal frequency reference, the "frequency reference error x 'tune frequency'" term of the accuracy specification is made negligible.

PERFORMANCE TESTS

4-12. CENTER FREQUENCY READOUT ACCURACY TEST (Cont'd)

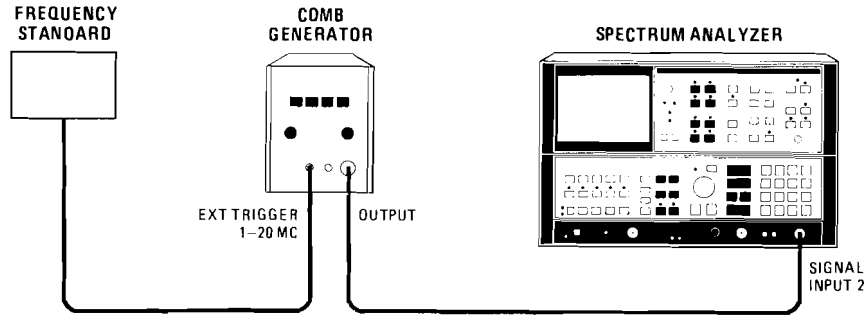


Figure 4-1. Center Frequency Accuracy Test Setup

EQUIPMENT:

Comb Generator HP 8406A
 Frequency Standard a 1, 2, 5, or 10 MHz standard
 with accuracy within ± 1 part in 10^9 , such as HP 5061A

PROCEDURE:

1. Press **INSTR PRESET** on the analyzer.
2. Press **RECALL** **9**.
3. Connect CAL OUTPUT to SIGNAL INPUT 2.
4. Adjust FREQ ZERO for a maximum amplitude trace.
5. Press **INSTR PRESET**.
6. Connect output of comb generator to SIGNAL INPUT 2. Do not connect frequency standard at this time.
7. Set comb generator controls as follows:

COMB FREQUENCY—MHz 100 MC
 INERPOLATION AMPLITUDE—1 MHz OFF
 OUTPUT AMPLITUDE fully cw

8. Allow comb generator to warm up for at least 1 hour.
9. Key in analyzer settings as follows:

CENTER FREQUENCY 100 MHz
FREQUENCY SPAN 100 MHz

PERFORMANCE TESTS

4-12. CENTER FREQUENCY READOUT ACCURACY TEST (Cont'd)

10. Adjust to center 100 MHz comb tooth on analyzer display. The CENTER readout should be between 98 MHz and 102 MHz (see Figure 4-2). Record the readout value in Table 4-2.
11. Set to 500 MHz and adjust to center 500 MHz comb tooth. The limits for the CENTER readout are shown in Table 4-2.
12. Set to 1000 MHz and adjust to center 1000 MHz comb tooth. The limits for the CENTER readout are shown in Table 4-2.

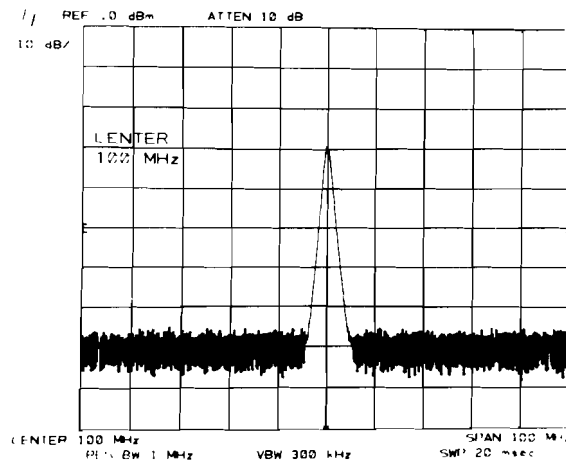


Figure 4-2. Center Frequency Readout Error Measurement

CAUTION

A signal level of greater than 5 volts rms at the EXT TRIGGER inputs may damage the comb generator.

13. Connect the frequency standard used to perform the TIME BASE ADJUSTMENT in Section V to the EXT TRIGGER input marked "1 – 20 MHz" on the front panel of the comb generator as shown in Figure 4-1.
14. Press the EXT TRIG button on the comb generator.
15. Adjust the level of the trigger signal from the frequency standard until comb teeth spaced at the frequency of the standard appear on the analyzer display. A trigger level of 1 to 3 volts rms is required.
16. Key in analyzer and settings according to Table 4-2, beginning with the fourth setting in the table. At each setting, adjust to place the comb tooth nearest the center of the display on the center graticule line. The limits for the CENTER readout are shown in the table.

PERFORMANCE TESTS

4-12. CENTER FREQUENCY READOUT ACCURACY TEST (Cont'd)

Table 4-2. Center Frequency Readout Error

Comb Generator	Spectrum Analyzer				
COMB FREQUENCY— MHz	FREQUENCY SPAN	CENTER FREQUENCY (MHz)	CENTER Readout (MHz)		
			Min.	Actual	Max.
100 MC	100 MHz	100	98	_____	102
	100 MHz	500	498	_____	502
	100 MHz	1000	998	_____	1002
EXT TRIG (1, 2, 5, or 10 MHz trigger signal)	10 MHz	100	99.8	_____	100.2
	10 MHz	500	499.8	_____	500.2
	10 MHz	1000	999.8	_____	1000.2
	10 MHz	1500	1499.8	_____	1500.2
	1 MHz	1000	999.98	_____	1000.02
	100 kHz	1000	999.998	_____	1000.002
	10 kHz	1000	999.9998	_____	1000.0002

PERFORMANCE TESTS

4-13. FREQUENCY SPAN ACCURACY TEST

RELATED ADJUSTMENTS:

Frequency Control Adjustments
50 MHz Voltage-Tuned Oscillator Adjustments

SPECIFICATION:

span	uncertainty
> 1 MHz	\pm (2% of the actual frequency separation between two points + 0.5% of span setting)
\leq 1 MHz	\pm (5% of the actual frequency separation between two points + 0.5% of span setting)

DESCRIPTION:

Wide frequency spans are checked by using the 1, 10, and 100 MHz comb frequencies of a comb generator. Narrow spans are tested with the comb output of a frequency counter. Since the comb signals consist of frequency components separated by a precise frequency interval, the spectral lines displayed on the analyzer CRT display are evenly spaced when no span error exists in the instrument. The span error is the difference between the indicated frequency separation of two spectral lines and their known separation.

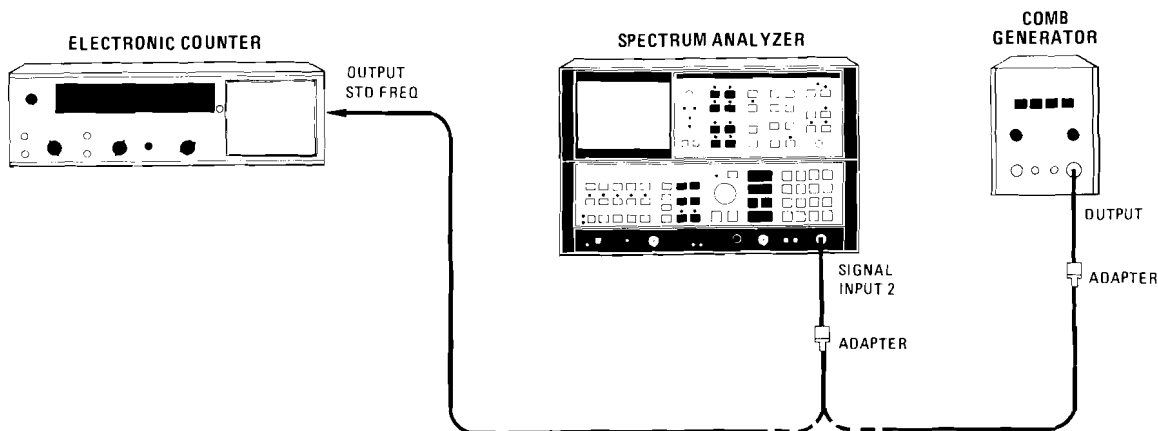


Figure 4-3. Frequency Span Accuracy Test Setup

EQUIPMENT:

Comb Generator HP 8406A
Electronic Counter HP 5245L
Adapter, Type N Male to BNC Female (2 required) HP 1250-0780

PERFORMANCE TESTS

4-13. FREQUENCY SPAN ACCURACY TEST (Cont'd)

PROCEDURE:

1. Press **INSTR PRESET** on analyzer.
2. Connect comb generator to analyzer as shown in Figure 4-3.
3. Set comb generator controls as follows:

COMB FREQUENCY—MHz 100 MC
INTERPOLATION AMPLITUDE—1 MHz OFF
OUTPUT AMPLITUDE fully cw

4. Adjust **CENTER FREQUENCY** to place a comb line at the left edge of the graticule.
5. Press **MARKER NORMAL** and position the marker at the peak of the 2nd comb line from the left edge of the graticule.
6. Press **MARKER Δ** and place the movable marker at the peak of the 15th comb line from the left edge of the graticule (see Figure 4-4). The **MARKER Δ** frequency should be between 1267 MHz and 1333 MHz.

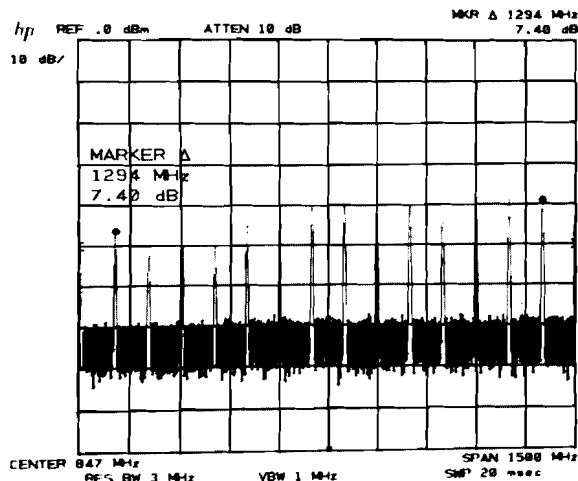


Figure 4-4. Span Accuracy Measurement

PERFORMANCE TESTS

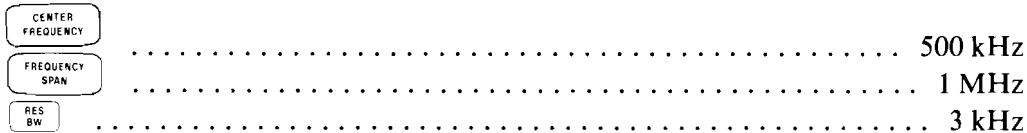
4-13. FREQUENCY SPAN ACCURACY TEST (Cont'd)

7. Using the procedure of steps 4 through 6, measure the frequency span of the indicated comb lines for each analyzer and comb generator setting in Table 4-3. The MARKER Δ frequency readout should be within the limits given in the table.

Table 4-3. Wide Span Error

Spectrum Analyzer		Comb Generator	Comb Lines	Displayed Span (MARKER Δ Frequency) (MHz)		
FREQUENCY SPAN (MHz)	RES BW (kHz)	COMB FREQUENCY (MHz)		Min.	Measured	Max.
1500	AUTO	100	2nd & 15th	1267	_____	1333
1000	AUTO	100	2nd & 10th	779	_____	821
500	AUTO	100	2nd & 5th	291.5	_____	308.5
100	AUTO	10	2nd & 10th	77.9	_____	82.1
20	10	1	2nd & 19th	16.56	_____	17.44

8. Press **INSTR PRESET**. Disconnect comb generator and connect OUTPUT STD FREQ on rear panel of electronic counter to analyzer input as shown in Figure 4-3.
9. Set STD FREQ control on rear panel of electronic counter to 100 kHz.
10. Key in analyzer control settings as follows:



11. Adjust **CENTER FREQUENCY** to place a comb line at the left edge of the graticule.
12. Press MARKER **NORMAL** and position the marker at the peak of the second comb line from the left edge of the graticule.
13. Press MARKER **Δ** and position the movable marker at the peak of the 10th comb line. Read the displayed frequency span for the two comb lines from the MARKER Δ frequency readout.
14. The MARKER Δ readout of the frequency span should be between 755 kHz and 845 kHz.

PERFORMANCE TESTS

4-13. FREQUENCY SPAN ACCURACY TEST (Cont'd)

15. Using the procedure of steps 11 through 13, measure the displayed frequency span of the indicated comb lines for each combination of spectrum analyzer and counter settings in Table 4-4. The MARKER Δ frequency readout should be within the limits given in the table.

Table 4-4. Narrow Span Error

Spectrum Analyzer			Electronic Counter	Comb Lines	Displayed Span (MARKER Δ Frequency)		
FREQUENCY SPAN	RES BW	CENTER FREQUENCY	STD FREQ		Min.	Measured	Max.
1 MHz	3 kHz	500 kHz	100 kHz	2nd & 10th	755 kHz	_____	845 kHz
500 kHz	3 kHz	250 kHz	100 kHz	2nd & 5th	282.5 kHz	_____	317.5 kHz
100 kHz	300 Hz	50 kHz	10 kHz	2nd & 10th	75.5 kHz	_____	84.5 kHz
50 kHz	300 Hz	25 kHz	10 kHz	2nd & 5th	28.25 kHz	_____	31.75 kHz
10 kHz	100 Hz	5 kHz	1 kHz	2nd & 10th	7.55 kHz	_____	8.45 kHz
1 kHz	10 Hz	500 Hz	100 Hz	2nd & 10th	755 Hz	_____	845 Hz

4-14. SWEEP TIME ACCURACY TEST

RELATED ADJUSTMENT:

Frequency Control Adjustments

SPECIFICATION:

- $\pm 10\%$ for sweep times ≤ 100 seconds
- $\pm 20\%$ for sweep times > 100 seconds

DESCRIPTION:

A time mark generator is used to modulate a 500 MHz signal which is applied to the input of the spectrum analyzer. The signal is demodulated in the zero span mode to display the time mark pulses. Sweep time accuracy is tested by checking the spacing of the pulses on the display for various sweep times. An alternate procedure is given for testing sweep times > 20 msec: the sweep times are measured using the analyzer's internal frequency counter (KSF function).

PERFORMANCE TESTS

4-14. SWEEP TIME ACCURACY TEST (Cont'd)

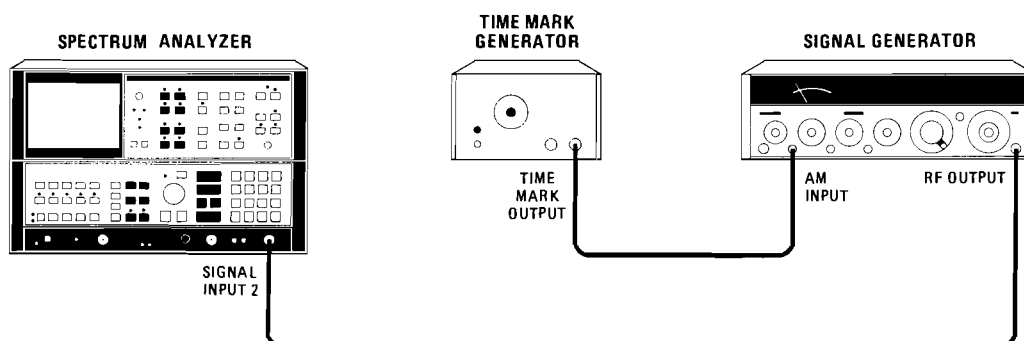


Figure 4-5. Sweep Time Accuracy Test Setup

EQUIPMENT:

Time Mark Generator	HP 226A
Signal Generator	HP 8640B

PROCEDURE:

Sweep Times ≥ 20 msec

1. Connect equipment as shown in Figure 4-5. AM switch on 8640B should be in OFF position.
2. Press **INSTR PRESET** on the spectrum analyzer.
3. Key in analyzer settings as follows:

CENTER FREQUENCY	.....	500 MHz
FREQUENCY SPAN	.....	100 kHz

4. Set signal generator for an output frequency of 500 MHz and an output level of -10 dBm.
5. Press **MARKER** **PEAK SEARCH**, **MKR → CF**, **OFF**.
6. Set **FREQUENCY SPAN** to 0 Hz, **RES BW** to 30 kHz, and press **TRIGGER** **VIDEO**.
7. Put 8640B AM switch in the PULSE position.

PERFORMANCE TESTS

4-14. SWEEP TIME ACCURACY TEST (Cont'd)

8. Set TIME MARK SELECT on the time mark generator to 2 msec.
9. Set analyzer to 20 msec. Adjust TRIGGER LEVEL for a stationary trace.
10. Press SWEEP .
11. Press MARKER and place the marker on the first time mark pulse from the left edge of the graticule.
12. Press MARKER and position movable marker on the 9th time mark pulse from the left edge of the graticule. Read the time span from the MARKER Δ readout (see Figure 4-6). This time should be between 14.40 msec and 17.60 msec.

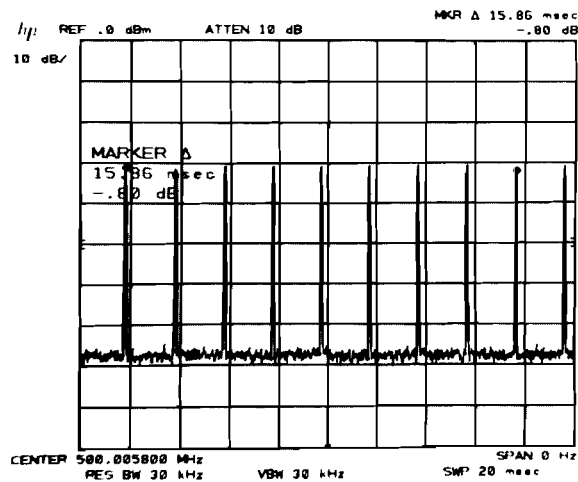


Figure 4-6. Sweep Time Measurement

13. Repeat steps 10 through 12 for each analyzer and time mark generator setting in Table 4-5. For the 150 second sweep time setting, position the markers at the first and 14th time mark pulses. The MARKER Δ time at each setting should be within the limits shown.

PERFORMANCE TESTS

4-14. SWEEP TIME ACCURACY TEST (Cont'd)

Table 4-5. Sweep Time Accuracy, Sweep Times ≥ 20 msec

SWEEP TIME	TIME MARK SELECT	MARKER Δ Time		
		Min.	Measured	Max.
20 msec	2 msec	14.40 msec	_____	17.60 msec
50 msec	5 msec	36.00 msec	_____	44.00 msec
100 msec	10 msec	72.00 msec	_____	88.00 msec
500 msec	50 msec	360.0 msec	_____	440.0 msec
1 sec	0.1 sec	720.0 msec	_____	880.0 msec
10 sec	1 sec	7.200 sec	_____	8.800 sec
50 sec	5 sec	36.00 sec	_____	44.00 sec
100 sec	10 sec	72.00 sec	_____	88.00 sec
150 sec	10 sec	104.0 sec	_____	156.0 sec

Sweep Times < 20 msec

14. Set SWEEP TIME to 5 msec and TIME MARK SELECT to 0.5 msec.
15. Adjust TRIGGER LEVEL for a stationary trace with the first time mark pulse at the left edge of the graticule. The sixth pulse should be within ± 0.5 division of the center graticule line.
16. Following the sweep time and time mark settings in Table 4-6, check sweep time accuracy by the procedure of step 15.

Table 4-6. Sweep Time Accuracy, Sweep Times < 20 msec

SWEEP TIME	TIME MARK SELECT
2 msec	0.2 msec
1 msec	0.1 msec
200 μ sec	20 μ sec
100 μ sec	10 μ sec

PERFORMANCE TESTS

4-14. SWEEP TIME ACCURACY TEST (Cont'd)

Sweep Times ≥ 20 msec (Alternate Procedure)

1. Sweep times greater than 20 msec may be tested without external test equipment by the following procedure.
2. Press **INSTR PRESET**.
3. Set **SWEEP TIME** according to Table 4-7. At each setting, press **SHIFT** **RES BW**, wait for the completion of a sweep, and read the sweep time (as measured by the internal frequency counter) from the SWEEP GEN readout on the display. The limits for the sweep times are shown in the table.

Table 4-7. Sweep Time Accuracy, Sweep Times ≥ 20 msec (Alternate Procedure)

SWEEP TIME	SWEEP GEN READOUT		
	MIN.	MEASURED	MAX.
20 msec	18.0 msec	_____	21.0 msec
50 msec	45.0 msec	_____	55.0 msec
100 msec	90.0 msec	_____	110 msec
500 msec	450 msec	_____	550 msec
1 sec	900 msec	_____	1.10 sec
10 sec	9.00 sec	_____	11.0 sec
50 sec	45.0 sec	_____	55.0 sec
100 sec	90.0 sec	_____	10.0 sec
150 sec	20.0 sec	_____	80.0 sec

PERFORMANCE TESTS

4-15. RESOLUTION BANDWIDTH ACCURACY TEST

RELATED ADJUSTMENT:

3-dB Bandwidth Adjustments

SPECIFICATION:

$\pm 20\%$, 3 MHz to 10 Hz

$\pm 10\%$, 1 MHz to 3 kHz

30 kHz and 100 kHz bandwidth accuracy figures only applicable $\leq 90\%$ R.H.

DESCRIPTION:

The 3 dB bandwidth for each resolution bandwidth setting from 30 Hz to 3 MHz is measured with the **MARKER** function to determine bandwidth accuracy. The **CAL OUTPUT** is used for a stable signal source.

EQUIPMENT:

None Required

PROCEDURE:

1. Press **INSTR PRESET**.
2. Connect **CAL OUTPUT** to **SIGNAL INPUT 2**.
3. Key in spectrum analyzer setting as follows:

CENTER FREQUENCY	.....	20 MHz
FREQUENCY SPAN	.....	5 MHz
RES BW	.....	3 MHz
REFERENCE LEVEL	.....	-10 dBm

4. Press **SCALE LIN** pushbutton. Press **SHIFT**, **AUTO** (resolution bandwidth).
5. Adjust **REFERENCE LEVEL** to position peak of signal trace at reference level (top) graticule line.

4-15. RESOLUTION BANDWIDTH ACCURACY TEST (Cont'd)

6. Press MARKER and place marker at peak of signal trace with DATA knob. Press MARKER and position movable marker 3 dB down from the stationary marker on the positive-going edge of the signal trace (the MARKER Δ amplitude readout should be 3.00 dB ± 0.05 dB). It may be necessary to adjust to center trace on screen.
7. Press MARKER and position movable marker 3 dB down from the signal peak on the negative-going edge of the trace (the MARKER Δ amplitude readout should be .00 dB ± 0.5 dB). The 3 dB bandwidth is given by the MARKER Δ frequency readout (see Figure 4-7). Record this value in Table 4-8.

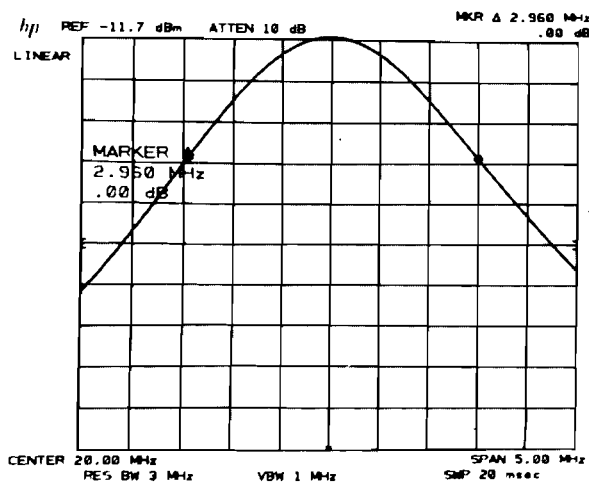


Figure 4-7. Resolution Bandwidth Measurement

PERFORMANCE TESTS

4-15. RESOLUTION BANDWIDTH ACCURACY TEST (Cont'd)

8. Vary spectrum analyzer settings according to Table 4-8. Measure the 3 dB bandwidth for each resolution bandwidth setting by the procedure of steps 6 and 7 and record the value in Table 4-8. The measured bandwidth should fall between the limits shown in the table.

Table 4-8. Bandwidth Accuracy

RES BW	FREQUENCY SPAN	MARKER Δ Readout of 3 dB Bandwidth		
		Min.	Actual	Max.
3 MHz	5 MHz	2.400 MHz	_____	3.600 MHz
1 MHz	2 MHz	900 kHz	_____	1.100 MHz
300 kHz	500 kHz	270.0 kHz	_____	330.0 kHz
100 kHz	200 kHz	90.0 kHz	_____	110.0 kHz
30 kHz	50 kHz	27.00 kHz	_____	33.00 kHz
10 kHz	20 kHz	9.00 kHz	_____	11.00 kHz
3 kHz	5 kHz	2.700 kHz	_____	3.300 kHz
1 kHz	2 kHz	800 Hz	_____	1.200 kHz
300 Hz	500 Hz	240 Hz	_____	360 Hz
100 Hz	200 Hz	80 Hz	_____	120 Hz
30 Hz	100 Hz	24 Hz	_____	36 Hz

4-16. RESOLUTION BANDWIDTH SELECTIVITY TEST

RELATED ADJUSTMENTS:

- 3 MHz Bandwidth Filter Adjustments
- 21.4 MHz Bandwidth Filter Adjustments
- Step Gain and 18.4 MHz Local Oscillator Adjustments

SPECIFICATION:

- 60 dB/3 dB bandwidth ratio:
- <15:1, 3 MHz to 100 kHz
- <13:1, 30 kHz to 10 kHz
- <11:1, 3 kHz to 30 Hz
- 60 dB points on 10 Hz bandwidth are separated by <100 Hz

PERFORMANCE TESTS

4-16. RESOLUTION BANDWIDTH SELECTIVITY TEST (Cont'd)

DESCRIPTION:

Bandwidth selectivity is found by measuring the 60 dB bandwidth and dividing this value by the 3 dB bandwidth for each resolution bandwidth setting from 30 Hz to 3 MHz. The 60 dB points for the 10 Hz bandwidth setting are also measured. The CAL OUTPUT provides a stable signal for the measurements.

EQUIPMENT:

None Required

PROCEDURE:

1. Press **INSTR PRESET**.
2. Connect CAL OUTPUT to SIGNAL INPUT 2.
3. Key in analyzer control settings as follows:

CENTER FREQUENCY	.....	20 MHz
FREQUENCY SPAN	.....	20 MHz
RES BW	.....	3 MHz
VIDEO BW	.....	100 Hz

4. Press **MARKER** **NORMAL** and position marker at peak of signal trace. Press **MARKER** **Δ** and position movable marker 60 dB down from the stationary marker on the positive-going edge of the signal trace (the **MARKER Δ** amplitude readout should be 60.00 dB ± 1.00 dB). It may be necessary to adjust **CENTER FREQUENCY** so that both 60 dB points are displayed (see Figure 4-8).
5. Press **MARKER** **Δ** and position movable marker 60 dB down from the signal peak on the negative-going edge of the signal trace (the **MARKER Δ** amplitude readout should be .00 dB ± 0.50 dB).
6. Read the 60 dB bandwidth for the 3 MHz resolution bandwidth setting from the **MARKER Δ** frequency readout (see Figure 4-8) and record the value in Table 4-9.
7. Vary spectrum analyzer settings according to Table 4-9. Measure the 60 dB bandwidth for each resolution bandwidth setting by the procedure of steps 4 through 6 and record the value in Table 4-9.
8. Record the 3 dB bandwidths from Table 4-8 in Table 4-9.

PERFORMANCE TESTS

4-16. RESOLUTION BANDWIDTH SELECTIVITY TEST (Cont'd)

9. Calculate the bandwidth selectivity for each setting by dividing the 60 dB bandwidth by the 3 dB bandwidth. The bandwidth ratios should be less than the maximum values shown in Table 4-9.
10. The 60 dB bandwidth for the 10 Hz resolution bandwidth setting should be less than 100 Hz.

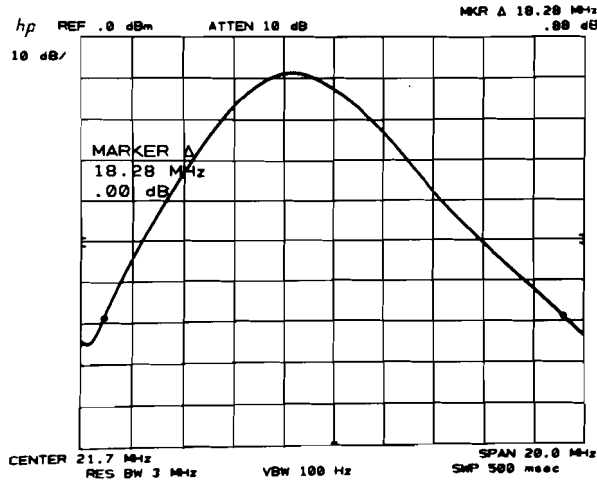


Figure 4-8. 60 dB Bandwidth Measurement

Table 4-9. Resolution Bandwidth Selectivity

Spectrum Analyzer			Measured 60 dB Bandwidth	Measured 3 dB Bandwidth	Bandwidth Selectivity (60 dB BW ÷ 3 dB BW)	Maximum Selectivity Ratio
RES BW	FREQUENCY SPAN	VIDEO BW				
3 MHz	20 MHz	100 Hz	_____	_____	_____	15:1
1 MHz	15 MHz	300 Hz	_____	_____	_____	15:1
300 kHz	5 MHz	AUTO	_____	_____	_____	15:1
100 kHz	2 MHz	AUTO	_____	_____	_____	15:1
30 kHz	500 kHz	AUTO	_____	_____	_____	13:1
10 kHz	200 kHz	AUTO	_____	_____	_____	13:1
3 kHz	50 kHz	AUTO	_____	_____	_____	11:1
1 kHz	10 kHz	AUTO	_____	_____	_____	11:1
300 Hz	5 kHz	AUTO	_____	_____	_____	11:1
100 Hz	2 kHz	AUTO	_____	_____	_____	11:1
30 Hz	500 Hz	AUTO	_____	_____	_____	11:1
10 Hz	100 Hz	AUTO	_____	_____	_____	11:1

PERFORMANCE TESTS

4-17. RESOLUTION BANDWIDTH SWITCHING UNCERTAINTY TEST

RELATED ADJUSTMENTS:

3 MHz Bandwidth Filter Adjustments
21.4 MHz Bandwidth Filter Adjustments
Down/Up Converter Adjustments

SPECIFICATION:

(uncorrected; referenced to 1 MHz bandwidth; 20—30°C)

± 1.0 dB, 3 MHz to 10 Hz

± 0.5 dB, 1 MHz to 30 Hz

30 kHz and 100 kHz bandwidth switching uncertainty figures only applicable ≤ 90% R.H.


DESCRIPTION:





The CAL OUTPUT signal is applied to the input of the spectrum analyzer. The deviation in peak amplitude of the signal trace is then measured as each resolution bandwidth filter is switched in.




EQUIPMENT:

None Required

PROCEDURE:

1. Press .
2. Connect CAL OUTPUT to SIGNAL INPUT 2.
3. Key in the following control settings:

	.....	20 MHz
	.....	5 MHz
	.....	-8 dBm
	.....	1 MHz

4. Press LOG  and key in 1 dB. Press MARKER , .

5. Press , .

PERFORMANCE TESTS

4-17. RESOLUTION BANDWIDTH SWITCHING UNCERTAINTY TEST (Cont'd)

6. Key in settings according to Table 4-10. Press MARKER at each setting, then read the amplitude deviation from the MARKER Δ readout at the upper right of the display (see Figure 4-9). The allowable deviation for each resolution bandwidth setting is shown in the table.

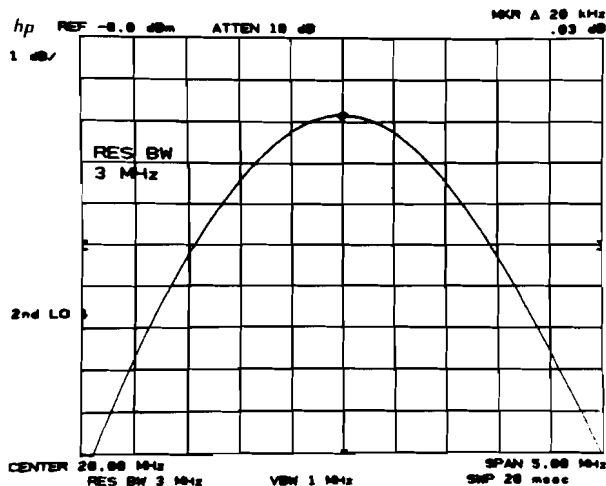


Figure 4-9. Bandwidth Switching Uncertainty Measurement

Table 4-10. Bandwidth Switching Uncertainty

<input type="button" value="RES BW"/>	<input type="button" value="FREQUENCY SPAN"/>	Deviation (MARKER Δ Readout, dB)	Allowable Deviation (dB)
1 MHz	5 MHz	0 (ref.)	0 (ref.)
3 MHz	5 MHz	_____	± 1.0
300 kHz	5 MHz	_____	± 0.5
100 kHz	500 kHz	_____	± 0.5
30 kHz	500 kHz	_____	± 0.5
10 kHz	50 kHz	_____	± 0.5
3 kHz	50 kHz	_____	± 0.5
1 kHz	10 kHz	_____	± 0.5
300 Hz	1 kHz	_____	± 0.5
100 Hz	1 kHz	_____	± 0.5
30 Hz	200 Hz	_____	± 0.5
10 Hz	100 Hz	_____	± 1.0

4-18. INPUT ATTENUATOR SWITCHING UNCERTAINTY TEST

SPECIFICATION:

(uncorrected)
 ± 1.0 dB over 10 dB to 70 dB range

DESCRIPTION:

The input attenuator is tested over its 10 dB to 70 dB range using an RF substitution method. A step attenuator that has been calibrated by a standards laboratory at 20 MHz provides the substitution.

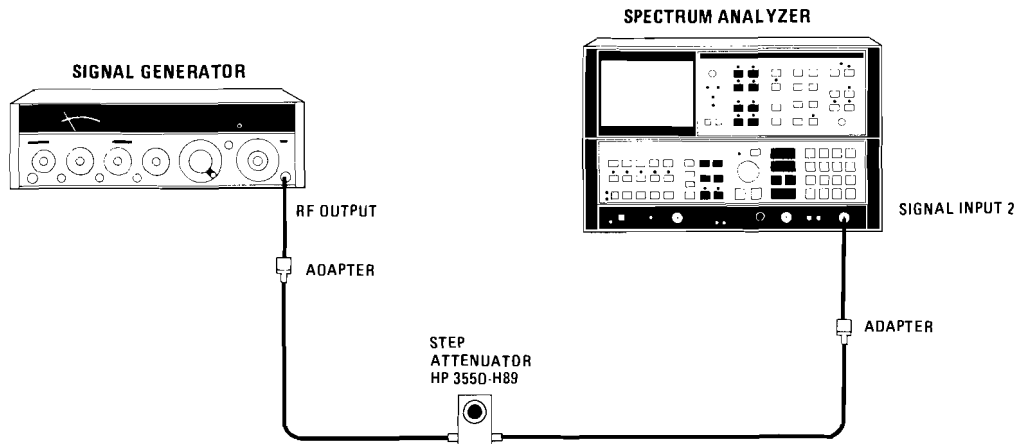


Figure 4-10. Attenuator Switching Uncertainty Test Setup

EQUIPMENT:

- Signal Generator HP 8640B
- Step Attenuator HP 355D-H89
- Adapter, Type N Male to BNC Female (2 required) HP 1250-0780

PERFORMANCE TESTS

4-18. INPUT ATTENUATOR SWITCHING UNCERTAINTY TEST (Cont'd)

PROCEDURE:

1. Press **INSTR PRESET** on the spectrum analyzer.

2. Key in analyzer settings as follows:

CENTER FREQUENCY	.....	20 MHz
FREQUENCY SPAN	.....	100 kHz
REFERENCE LEVEL	.....	-40 dBm
RES BW	.....	30 kHz
VIDEO BW	.....	100 Hz

3. Set signal generator for an unmodulated output frequency of 20.000 ± 0.001 MHz and an output level of approximately +20 dBm.

4. Connect equipment as shown in Figure 4-10 with step attenuator set at 60 dB.

5. Set peak of signal trace at reference level (top) graticule line by adjusting output level of signal generator.

6. Press **LOG** **ENTER dB/DIV** and key in 1 dB per division. Place peak of signal trace 2 divisions down from the reference line by adjusting generator output level.

7. Press **MARKER** **PEAK SEARCH** , **Δ** .

8. Set **ATTEN** , **REFERENCE LEVEL** , and step attenuator according to Table 4-11. At each setting, press **MARKER** **PEAK SEARCH** and record the deviation from the 10 dB setting from the **MARKER Δ** amplitude readout (see Figure 4-11). Add the step attenuator error at that setting to the **MARKER Δ** value, then subtract the step attenuator error at the 60 dB setting to obtain the corrected deviation. The corrected deviation should not exceed ± 1.0 dB at any setting.

PERFORMANCE TESTS

4-18. INPUT ATTENUATOR SWITCHING UNCERTAINTY TEST (Cont'd)

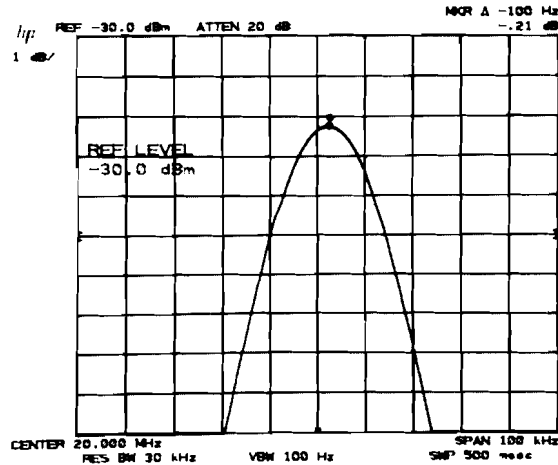


Figure 4-11. Attenuator Switching Uncertainty Measurement

Table 4-11. Input Attenuator Switching Uncertainty

ATTEN (dB)	REFERENCE LEVEL (dBm)	Step Attenuator Setting (dB)	Deviation (MARKER Δ Amplitude) (dB)	Step Attenuator Error* (dB) (added)	Attenuator Error at 60 dB Setting (dB) (subtracted)	Corrected Deviation (dB)
10	-40	60	0 (ref.)			0 (ref.)
20	-30	50				
30	-20	40				
40	-10	30				
50	0	20				
60	+10	10				
70	+20	0				

* The error is positive if the calibration > the dial setting, negative if the calibration < the dial setting. For example, 9.99 dB calibration for a 10 dB attenuator setting represents an error of -0.01 dB.

PERFORMANCE TESTS

4-19. FREQUENCY RESPONSE TEST

RELATED ADJUSTMENT:

Slope Compensation Adjustment

SPECIFICATION:

SIGNAL INPUT 1: ± 1.5 dB, 100 Hz to 1500 MHz
 ± 1 dB, 100 Hz to 500 MHz

SIGNAL INPUT 2: ± 1 dB, 100 kHz to 1500 MHz

DESCRIPTION:

Frequency response at both analyzer inputs is tested by slowly sweeping a flat signal source over the frequency range and observing the peak-to-peak variation in trace amplitude. The test is divided into three parts. First, the response is tested from 10 MHz to 1500 MHz with a meter-leveled sweep oscillator. Next, a frequency synthesizer is used to check the response from 100 kHz to 10 MHz. Finally, SIGNAL INPUT 1 is tested from 100 Hz to 100 kHz by using a sweeping function generator.

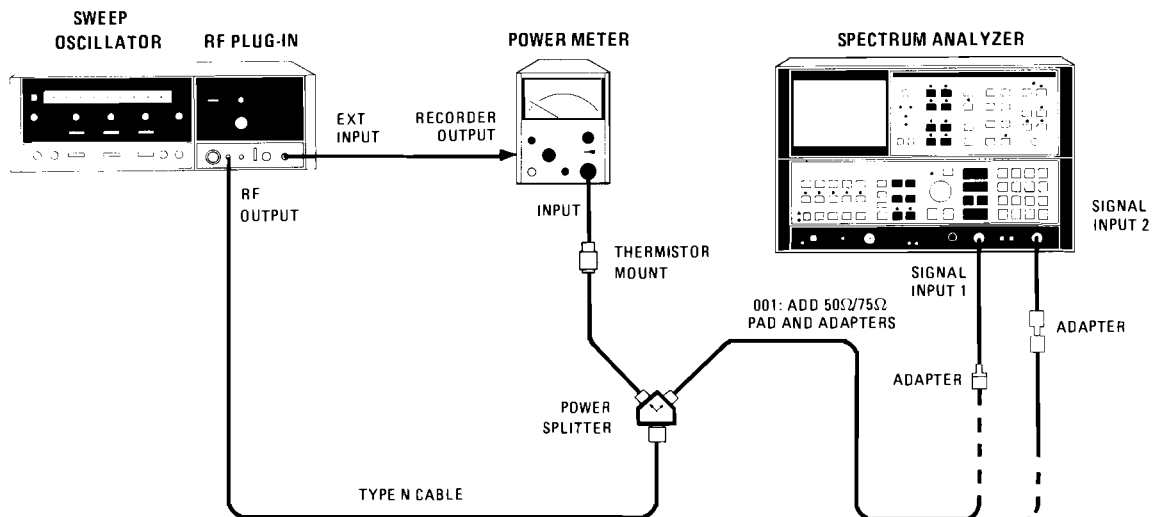


Figure 4-12. Frequency Response Test Setup (10 MHz to 1500 MHz)

PERFORMANCE TESTS

4-19. FREQUENCY RESPONSE TEST (Cont'd)

NOTE

Equipment listed is for three test setups, Figures 4-12, 4-14, and 4-16.

EQUIPMENT:

Sweep Oscillator	HP 8620C
RF Plug-In	HP 86222A
Power Meter	HP432A
Thermistor Mount	HP 478A
Frequency Synthesizer	HP 3330B
Function Generator	HP 3312A
Power Splitter	HP 11667A
Adapter, Type N Male to BNC Female	HP 1250-0780
Adapter, Type N Male to BNC Male	HP 1250-0082
Adapter, Type N Male to Type N Male	HP 1250-0778

Additional Equipment for Option 001:

<i>50Ω /70Ω Minimum Loss Pad</i>	<i>HP 11852A</i>
<i>Adapter, Type N Female to BNC Male (75Ω)</i>	<i>HP 1250-1534</i>

PROCEDURE:

10 MHz to 1500 MHz

1. Set controls as follows:

Power Meter:

MOUNT RESISTANCE	200Ω
RANGE	0 dBm


Sweep Oscillator:

START MARKER pointer	0.01 GHz
STOP MARKER pointer	1.5 GHz
CW MARKER pointer	0.02 GHz
MODE	AUTO
TRIGGER	EXT
TIME/SECONDS	100—10
TIME vernier	fully ccw
MARKERS	OFF



4-19. FREQUENCY RESPONSE TEST (Cont'd)





RF Plug-in:

POWER LEVEL fully ccw
 MODE OFF
 RF OFF/ON..... ON
 ALC MTR
 ALC GAIN fully cw
 SLOPE OFF

2. Press  on analyzer.
3. Connect equipment as shown in Figure 4-12. The RECORDER output on rear panel of power meter is connected to EXT INPUT of the RF plug-in. One output arm of the power splitter is connected directly to SIGNAL INPUT 2 of the analyzer via the N-to-N adapter. The thermistor mount connects directly to the other splitter output.

4. Key in the following analyzer settings:

 20 MHz
 10 MHz

5. Press CW button on sweep oscillator. Adjust CW control to center signal on display.
6. Adjust POWER LEVEL on RF plug-in to place peak of 20 MHz signal at reference level (top) graticule line.
7. Press LOG  and reduce log scale to 1 dB per division. Adjust POWER LEVEL on RF Plug-in to position peak of signal 2 divisions below the reference level line.
8. Key in a  of 10 Mz and a  of 1500 MHz.
9. Press the MARKER SWEEP button on the sweep oscillator.
10. Press TRACE A  on the analyzer.
11. Push sweep oscillator TRIGGER switch to SINGLE and release. Wait for completion of sweep. The allowable peak-to-peak deviation of the trace is 2 dB. See Figure 4-13.

PERFORMANCE TESTS

4-19. FREQUENCY RESPONSE TEST (Cont'd)

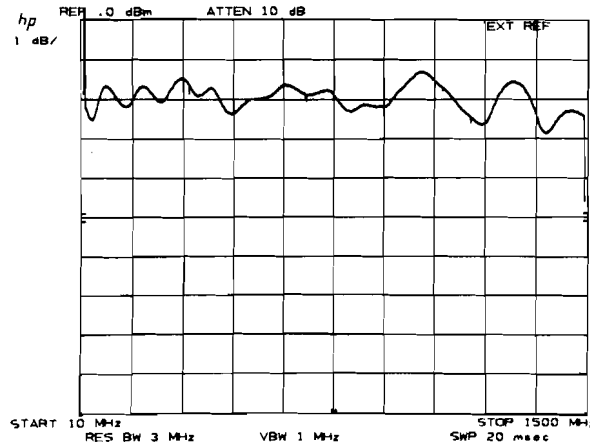


Figure 4-13. Frequency Response Measurement (10 MHz to 1500 MHz)

12. To check SIGNAL INPUT 1, use the type N male to BNC male adapter to connect the power splitter directly to SIGNAL INPUT 1.

OPTION 001: Use HP 11852A Minimum Loss Pad and adapters between splitter and analyzer input.

13. Press on the analyzer, then activate SIGNAL INPUT 1 with the pushbutton.

OPTION 001: Set to -6.0 dBm.

14. Repeat steps 4 through 10.
15. Push sweep oscillator TRIGGER switch to SINGLE and release. Wait for completion of sweep.
16. Press MARKER and set marker at 500 MHz. The allowable peak-to-peak deviation of the trace from 10 MHz to the marker frequency is 2 dB. The allowable peak-to-peak deviation from the marker frequency to 1500 MHz is 3 dB.

100 kHz to 10 MHz

17. Set the frequency synthesizer controls as follows:

FREQ 5 MHz
 FREQ STEP 10 kHz
 AMPL -2 dBm
OPTION 001: +4 dBm

PERFORMANCE TESTS

4-19. FREQUENCY RESPONSE TEST (Cont'd)

LEVELING..... SLOW
 TIME/STEP 100 msec
 STEPS 1000
 SWEEP..... FREQ/UP

- Connect equipment as shown in Figure 4-14. The output of the synthesizer should be connected to SIGNAL INPUT 1.

OPTION 001: Use HP 11852 Minimum Loss Pad and adapters

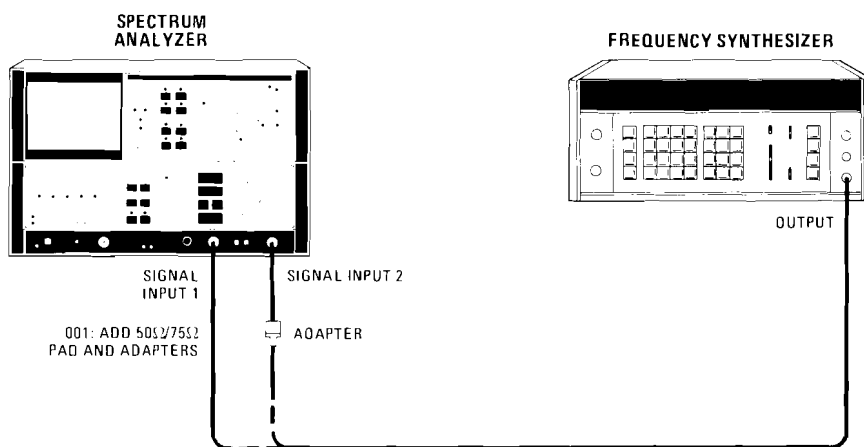


Figure 4-14. Frequency Response Test Setup (100 kHz to 10 MHz)

- Press **INSTR PRESET** on the spectrum analyzer. Activate SIGNAL INPUT 1 with the pushbutton.

- Key in the following analyzer settings:

START FREQ		100 kHz
STOP FREQ		10 MHz
RES BW		30 kHz

- Press **LOG** **ENTER dB/DIV** and reduce scale to 1 dB per division.
- Press **FREQ** on synthesizer. Adjust **REFERENCE LEVEL** on analyzer to place peak of 5 MHz signal 2 divisions below the reference level line.
- Press **FIRST POINT** on the synthesizer. Activate **TRACE A** **MAX HOLD** on the analyzer.

PERFORMANCE TESTS

4-19. FREQUENCY RESPONSE TEST (Cont'd)

24. Press **START SINGLE** on the synthesizer and wait for completion of sweep. The peak-to-peak deviation of the trace must be ≤ 2 dB. See Figure 4-15.

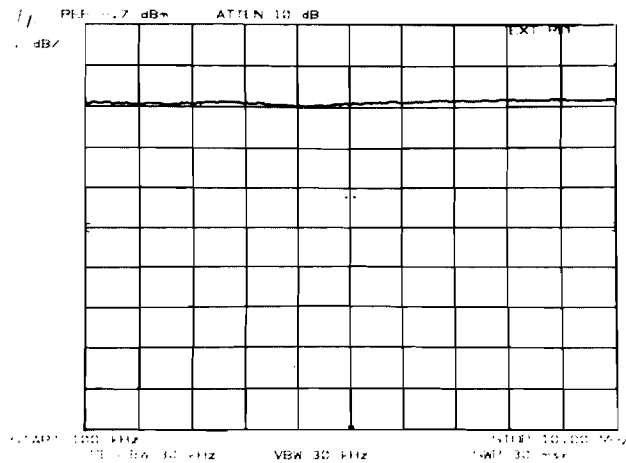


Figure 4-15. Frequency Response Measurement (100 kHz to 10 MHz)

25. Connect output of synthesizer to **SIGNAL INPUT 2**. Activate this input with the pushbutton.
OPTION 001: Set synthesizer output amplitude to -2 dBm.
26. Press **TRACE A** on the analyzer, then repeat step 22.
27. Press **FIRST POINT** on the synthesizer.
28. Press **TRACE A** on the analyzer.
29. Start sweep by pressing **START SINGLE** on the synthesizer. Wait for completion of sweep. The peak-to-peak deviation of the trace should be ≤ 2 dB.

100 Hz to 100 kHz

30. Press on the spectrum analyzer.
31. Connect equipment as shown in Figure 4-16 with function generator connected to **SIGNAL INPUT 1**.
Activate **SIGNAL INPUT 1**.

4-19. FREQUENCY RESPONSE TEST (Cont'd)

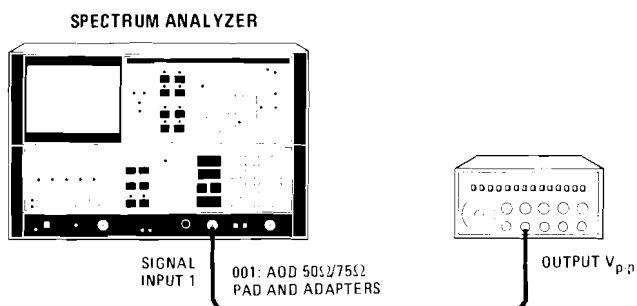


Figure 4-16. Frequency Response Test Setup (100 Hz to 100 kHz)

32. Key in the following analyzer settings:

START FREQ	.....	1 kHz
STOP FREQ	.....	100 kHz



33. Set function generator controls as follows:



RANGE Hz	10K
FUNCTION	~
OFFSET	CAL
AMPLITUDE	1V
AMPLITUDE VERNIER	midrange
SYM.	CAL
TRIGGER PHASE	FREE RUN
MODULATION	all out
MODULATION RANGE Hz	1
MODULATION RANGE Hz VERNIER	10 o'clock
MODULATION SYM	CAL
Percent Modulation	fully cw


34. Adjust function generator FREQUENCY to place generator signal near the center graticule on the analyzer display.




PERFORMANCE TESTS

4-19. FREQUENCY RESPONSE TEST (Cont'd)

35. Adjust the AMPLITUDE VERNIER on the function generator until the peak of the generator signal is at the reference graticule line on the analyzer display.
36. Press LOG  on the analyzer and key in 1 dB per division.
37. Adjust function generator AMPLITUDE VERNIER to place peak of generator signal 2 dB (2 divisions) down from the reference level.
38. Adjust FREQUENCY on the function generator to position the signal trace at the right edge of the analyzer display.
39. Press MODULATION SWP on the function generator and observe the signal as it traverses the analyzer display. The amplitude of the signal should not vary more than 2 dB peak-to-peak.
40. Press  on the spectrum analyzer. Activate SIGNAL INPUT 1.
41. Key in the following analyzer settings:

	.....	100 Hz
	.....	100 Hz

42. Press LOG  and key in a log scale of 1 dB per division.
43. Set function generator controls as follows:

RANGE Hz.....	100
FREQUENCY.....	1
MODULATION.....	all out
44. The amplitude of the function generator signal on the analyzer display should be $-2 \text{ dBm} \pm 1 \text{ dB}$.
45. Set  to 100 Hz. Step analyzer  from 100 Hz to 1 kHz with  and set function generator FREQUENCY to match analyzer center frequency at each step. The displayed amplitude of the generator signal at each frequency should be $-2 \text{ dBm} \pm 1 \text{ dB}$.

4-20. RF GAIN UNCERTAINTY TEST

RELATED ADJUSTMENT:

Second Converter Adjustments

SPECIFICATION:

RF gain uncertainty (due to 2nd LO shift): $\pm 1.0 \text{ dB}$ (uncorrected)

PERFORMANCE TESTS

4-20. RF GAIN UNCERTAINTY TEST (Cont'd)

DESCRIPTION:

The analyzer's calibration signal is used as a stable input signal to observe the change in RF gain when the second LO is shifted in frequency.

EQUIPMENT:

None Required

PROCEDURE:

1. Press **INSTR PRESET**.
2. Key in spectrum analyzer settings as follows:

CENTER FREQUENCY		20 MHz
FREQUENCY SPAN		1 MHz
REFERENCE LEVEL		-7 dBm
ENTER dB/DIV		1 dB/DIV
RES BW		300 kHz

3. Connect CAL OUTPUT to SIGNAL INPUT 2.
4. Adjust **REFERENCE LEVEL** to position peak of signal trace 3dB (3 divisions) down from reference level (top) graticule line.
5. Press **SHIFT**, **↓**, **PEAK SEARCH**, **MARKER** **Δ**.
6. Press **SHIFT**, **↑** and read **MARKER Δ** amplitude from display (see Figure 4-17). This amplitude should be between -1.0 dB and +1.0 dB.

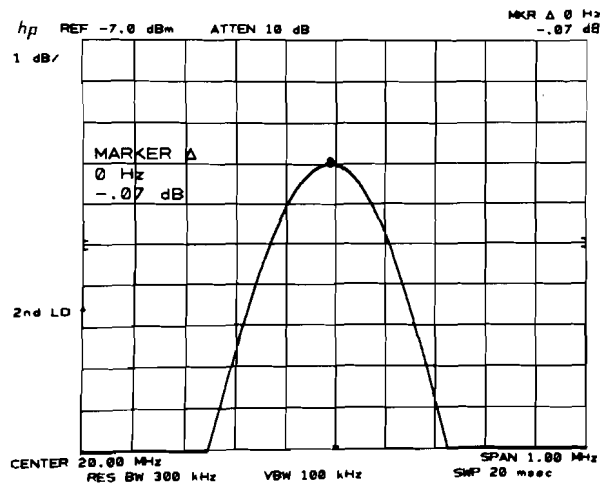


Figure 4-17. RF Gain Uncertainty Measurement

7. Press **SHIFT**, **SIGNAL TRACK** to return the second LO to automatic operation.

PERFORMANCE TESTS

4-21. IF GAIN UNCERTAINTY TEST

RELATED ADJUSTMENTS:

Step Gain and 18.4 MHz Local Oscillator Adjustments

21.4 MHz Bandwidth Filter Adjustments

SPECIFICATION:

Assuming the internal calibration signal is used to calibrate the reference level at -10 dBm and the input attenuator is fixed at 10 dB, any changes in reference level in the following ranges will contribute to IF gain uncertainty as shown:

range	uncertainty (uncorrected; 20–30°C)
0 dBm to -55.9 dBm	± 0.6 dB
-56.0 dBm to -129.9 dbm	± 1.0 dB

DESCRIPTION:

Two procedures are provided for testing the IF gain steps. The first tests the 10 dB and 2 dB steps by an RF substitution method, using step attenuators that have been calibrated by a standards laboratory. The 0.1 dB steps are checked in linear mode with the MARKER Δ function, using the analyzer's Analog-Digital Converter (A3A8) to measure the gain steps. An alternate procedure is provided for testing the 0.1 dB steps with an external reference, the attenuator of a 3330B Frequency Synthesizer.

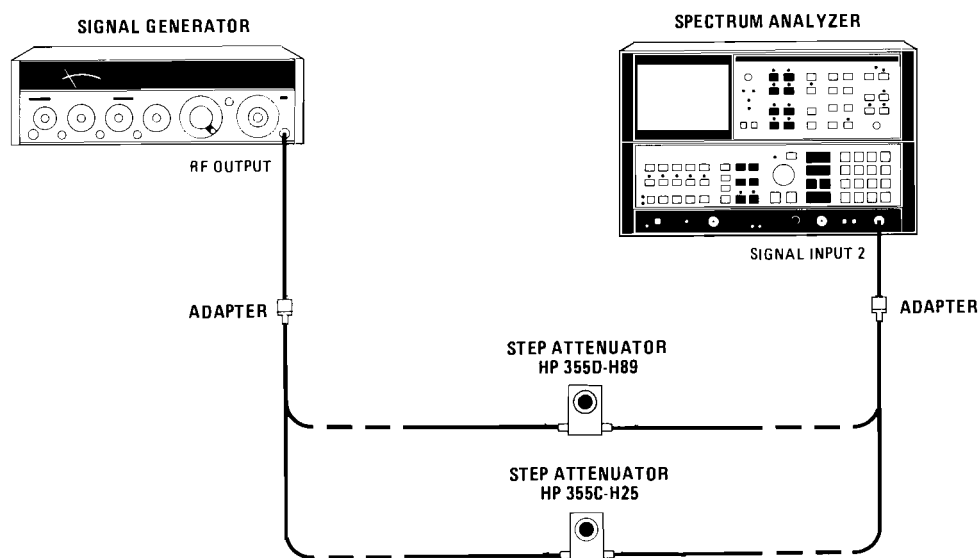


Figure 4-18. IF Gain Uncertainty Test Setup (10 dB and 2 dB Steps)

PERFORMANCE TESTS

4-21. IF GAIN UNCERTAINTY TEST (Cont'd)






NOTE

Equipment listed is for two test setups, Figures 4-18 and 4-20.

EQUIPMENT:



Signal Generator	HP 8640B
Step Attenuator	HP 355D-H89
Step Attenuator	HP 355C-H25
Frequency Synthesizer (optional).....	HP 3330B
Adapter, Type N Male to BNC Female (2 required)	HP 1250-0780




PROCEDURE:

1. Press  .
2. Connect CAL OUTPUT to SIGNAL INPUT 2.
3. Press   ,  . Adjust AMPTD CAL for a MARKER amplitude of $-10.00 \text{ dBm} \pm 0.02 \text{ dB}$.
4. Press  .



10 dB Gain Steps

5. Set the 8640B Signal Generator for an output frequency of $20.0010 \pm 0.0001 \text{ MHz}$ and an output level of 0 dBm. Press LOCK ON on the signal generator.
6. Connect the output of the signal generator to the analyzer input through the 10 dB step attenuator (HP 355D) as shown in Figure 4-18, with step attenuator set at 0 dB.
7. Key in analyzer settings as follows:

	.....	2 kHz
	.....	20.001 MHz

8. Press MARKER  ,  or adjust  to center signal trace on display.

9. Set analyzer as follows:

	.....	100 Hz
	.....	1 kHz

10. Place peak of trace at the reference level (top) graticule line by adjusting the output level of the signal generator.

PERFORMANCE TESTS

4-21. IF GAIN UNCERTAINTY TEST (Cont'd)

11. Press LOG and key in a log scale of 1 dB per division.
12. Using the OUTPUT LEVEL control of the signal generator, set the peak of the trace two divisions (2 dB) below the reference level line.
13. Press MARKER , .
14. Press , to permit extended reference level settings.
15. Set , step attenuator, and according to Table 4-12. At each setting, record the MKR Δ amplitude (deviation from the 0 dB reference setting) in the table (see Figure 4-19). Add the step attenuator error to find the corrected deviation.

NOTE

After measurement at the = -70 dBm setting, press ,

as indicated in Table 4-12.

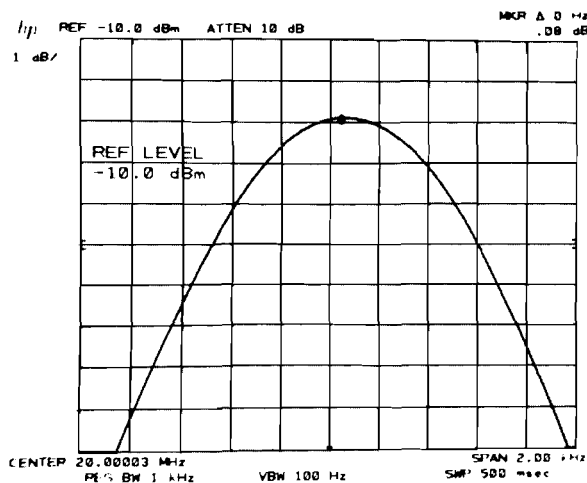


Figure 4-19. IF Gain Uncertainty Measurement

2 dB Gain Steps

16. Press , , .
17. Set to -1.9 dBm.
18. Press MARKER . Set to 100 Hz.
19. Substitute the 1 dB step attenuator (HP 355C) for the 10 dB step attenuator. Set the attenuator to 0 dB.
20. Adjust signal generator OUTPUT LEVEL to set peak of signal trace 2 divisions (2 dB) down from the reference level line.

PERFORMANCE TESTS

4-21. IF GAIN UNCERTAINTY TEST (Cont'd)









21. Press MARKER , .
22. Set  and step attenuator according to Table 4-13. At each setting, record the MKR Δ amplitude in the table. Add the step attenuator error to find the corrected deviation.

Table 4-12. IF Gain Uncertainty, 10 dB Steps

 (dBm)	Step Attenuator Setting (dB)	 (Hz)	Deviation (MARKER Δ amplitude) (dB)	Step Attenuator Error* (dB)	Corrected Deviation (dB)
0	0	100	0 (ref.)	0 (ref.)	0 (ref.)
- 10	10	100	_____	_____	_____
- 20	20	100	_____	_____	_____
- 30	30	100	_____	_____	_____
- 40	40	100	_____	_____	_____
- 50	50	100	_____	_____	_____
- 60	60	100	_____	_____	_____
- 70	70	10	_____	_____	_____
  - 80	30	100	_____	_____	_____
- 90	40	100	_____	_____	_____
-100	50	10	_____	_____	_____
-110	60	10	_____	_____	_____
-120	70	10	_____	_____	_____

*The error is positive if the calibration > the dial setting, negative if the calibration < the dial setting. For example, 9.99 dB calibration for a 10 dB attenuator setting represents an error of -0.01 dB.

Table 4-13. IF Gain Uncertainty, 2 dB Steps

 (dBm)	Step Attenuator Setting (dB)	Deviation (MARKER Δ amplitude) (dB)	Step Attenuator Error* (dB)	Corrected Deviation (dB)
-1.9	0	0 (ref.)	0 (ref.)	0 (ref.)
-3.9	2	_____	_____	_____
-5.9	4	_____	_____	_____
-7.9	6	_____	_____	_____
-9.9	8	_____	_____	_____

The error is positive if the calibration > the dial setting, negative if the calibration < the dial setting. For example, 9.99 dB calibration for a 10 dB attenuator setting represents an error of -0.01 dB.

PERFORMANCE TESTS

4-21. IF GAIN UNCERTAINTY TEST (Cont'd)

0.1 dB Gain Steps

23. Disconnect step attenuator and connect signal generator output directly to SIGNAL INPUT 2 of the analyzer.
24. Press MARKER .
25. Set to 0 dB.
26. Press SCALE LIN button. Press , (resolution bandwidth) to obtain amplitude readouts in dBm.
27. Adjust output level of signal generator to place the peak of the trace 3 divisions below the reference level line.
28. Press MARKER , .
29. Set according to Table 4-14. At each setting, record the MKR Δ amplitude in the table. Subtract the values in column 2 from those in column 1 to arrive at the amplitude deviation.

Table 4-14. IF Gain Uncertainty, 0.1 dB Steps

<input type="button" value="REFERENCE LEVEL"/> (dBm)	1 MARKER Δ Amplitude (dBm)	2 Ideal MARKER Δ Amplitude (dB)	Deviation (1-2) (dB)
0.0	0.00 (ref.)	0.00 (ref.)	0.00 (ref.)
-0.1	_____	0.10	_____
-0.2	_____	0.20	_____
-0.3	_____	0.30	_____
-0.4	_____	0.40	_____
-0.5	_____	0.50	_____
-0.6	_____	0.60	_____
-0.7	_____	0.70	_____
-0.8	_____	0.80	_____
-0.9	_____	0.90	_____
-1.0	_____	1.00	_____
-1.1	_____	1.10	_____
-1.2	_____	1.20	_____
-1.3	_____	1.30	_____
-1.4	_____	1.40	_____
-1.5	_____	1.50	_____
-1.6	_____	1.60	_____
-1.7	_____	1.70	_____
-1.8	_____	1.80	_____
-1.9	_____	1.90	_____

PERFORMANCE TESTS

4-21. IF GAIN UNCERTAINTY TEST (Cont'd)

30. Check the last five entries in Table 4-12. There should be no corrected deviations greater than ± 0.4 dB.
31. Find the largest positive corrected deviation and the largest negative corrected deviation for reference level settings from 0 dBm to -70 dBm in Table 4-12. Also, find the largest positive and negative corrected deviations for the last five settings in the table.


Reference Level Range:	0 to -70 dBm	-80 to -120 dBm
Largest Positive Corrected Deviation:	_____ dB	_____ dB
Largest Negative Corrected Deviation:	_____ dB	_____ dB




32. Find the largest positive and negative corrected deviations in Table 4-13 and 4-14:

	Table 4-13	Table 4-14
Largest Positive Corrected Deviation:	_____ dB	_____ dB
Largest Negative Corrected Deviation:	_____ dB	_____ dB

33. The sum of the positive deviations recorded in steps 31 and 32 should not exceed 0.6 dB.
34. The sum of the negative deviations recorded in steps 31 and 32 should not be less than -0.6 dB.

0.1 dB Gain Steps (Alternate Procedure)

1. A 3330B Frequency Synthesizer may be used to test the 0.1 dB steps by the following procedure.
2. Press  on the analyzer.
3. Set frequency synthesizer for an output frequency of 10 MHz and an output level of -2.00 dBm.
4. Key in the following analyzer settings:

	.....	10 MHz
	.....	2 kHz
	.....	1 kHz

5. Connect OUTPUT of synthesizer to SIGNAL INPUT 2 of analyzer (see Figure 4-20).

PERFORMANCE TESTS

4-21. IF GAIN UNCERTAINTY TEST (Cont'd)

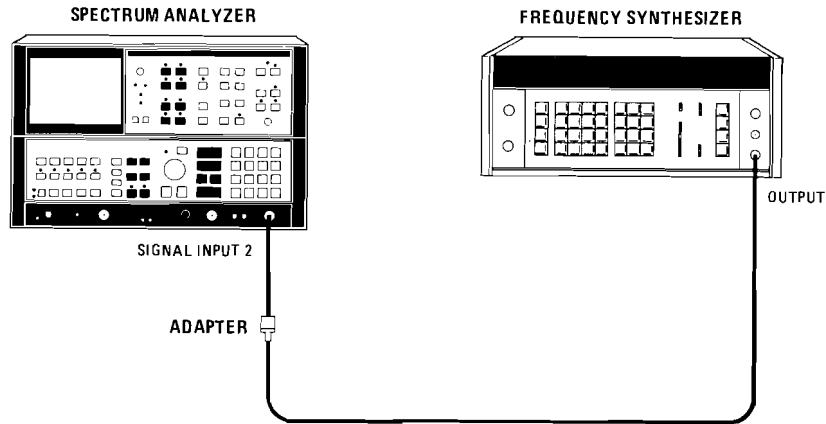


Figure 4-20. IF Gain Uncertainty Test Setup (Alternate Procedure)

6. Press LOG and key in a log scale of 1 dB per division.
7. Press MARKER , .
8. Set and frequency synthesizer output amplitude according to Table 4-15. At each setting, record the MKR Δ amplitude in the table.

Table 4-15. IF Gain Uncertainty, 0.1 dB Steps (Alternate Procedure)

<input type="button" value="REFERENCE LEVEL"/> (dBm)	Frequency Synthesizer Amplitude (dBm)	Deviation (MARKER Δ amplitude) (dB)
0.0	-2.00	0 (ref.)
-0.1	-2.10	_____
-0.2	-2.20	_____
-0.3	-2.30	_____
-0.4	-2.40	_____
-0.5	-2.50	_____
-0.6	-2.60	_____
-0.7	-2.70	_____
-0.8	-2.80	_____
-0.9	-2.90	_____
-1.0	-3.00	_____
-1.1	-3.10	_____
-1.2	-3.20	_____
-1.3	-3.30	_____
-1.4	-3.40	_____
-1.5	-3.50	_____
-1.6	-3.60	_____
-1.7	-3.70	_____
-1.8	-3.80	_____
-1.9	-3.90	_____

9. Do steps 30 through 34, substituting "Table 4-15" for "Table 4-14".

4-22. LOG SCALE SWITCHING UNCERTAINTY TEST

RELATED ADJUSTMENT:

Video Processor Adjustments

SPECIFICATION:

± 0.5 dB (uncorrected)


DESCRIPTION:





The log scale is stepped from 1 dB/DIV to 10 dB/DIV and the variation in trace amplitude from the 1 dB/DIV setting at each step is measured.





EQUIPMENT:

None required

PROCEDURE:

1. Press  .
2. Key in analyzer settings as follows:

	.....	20 MHz
	.....	100 kHz
	.....	-8 dBm
	.....	30 kHz

3. Press LOG  and key in a log scale of 1 dB per division.
4. Connect CAL OUTPUT to SIGNAL INPUT 2.
5. Press MARKER  . Record the marker amplitude (upper right of display) in Table 4-16.
6. Step up through the log scales with  . At each step press MARKER  , then record the marker amplitude in Table 4-16. Refer to Figure 4-21.
7. Subtract the marker amplitude at the 1 dB/DIV setting from the marker amplitudes recorded for the 2, 5, and 10 dB/DIV settings to obtain the amplitude deviations. The deviation should be less than ± 0.5 dB for each log scale.

PERFORMANCE TESTS

4-22. LOG SCALE SWITCHING UNCERTAINTY TEST (Cont'd)

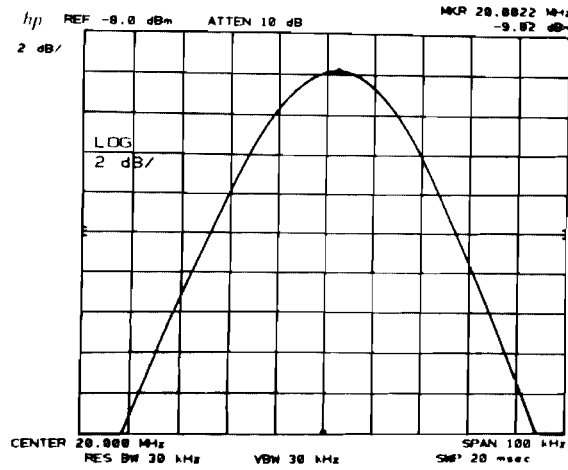


Figure 4-21. Log Scale Switching Uncertainty Measurement

Table 4-16. Log Scale Switching Uncertainty

SCALE (dB/DIV)	MKR Amplitude (dBm)	Deviation (dB)	Allowable Deviation (dB)
1	_____	0 (ref.)	0 (ref.)
2	_____	_____	±0.5
5	_____	_____	±0.5
10	_____	_____	±0.5

4-23. AMPLITUDE FIDELITY TEST

RELATED ADJUSTMENT:

Log Amplifier Adjustments

SPECIFICATION:

Log:

Incremental

±0.1 dB/dB over 0 to 80 dB display

PERFORMANCE TESTS

4-23. AMPLITUDE FIDELITY TEST (Cont'd)

Cumulative

- $\leq \pm 1.0$ dB max over 0 to 80 dB display (20 — 30° C).
- $\leq \pm 1.5$ dB max over 0 to 90 dB display

Linear:

- $\pm 3\%$ of reference level

DESCRIPTION:

Amplitude fidelity in log and linear modes is tested by decreasing the signal level to the spectrum analyzer in 10 dB steps with a calibrated external attenuator and measuring the displayed amplitude change with the analyzer's MARKER Δ function.

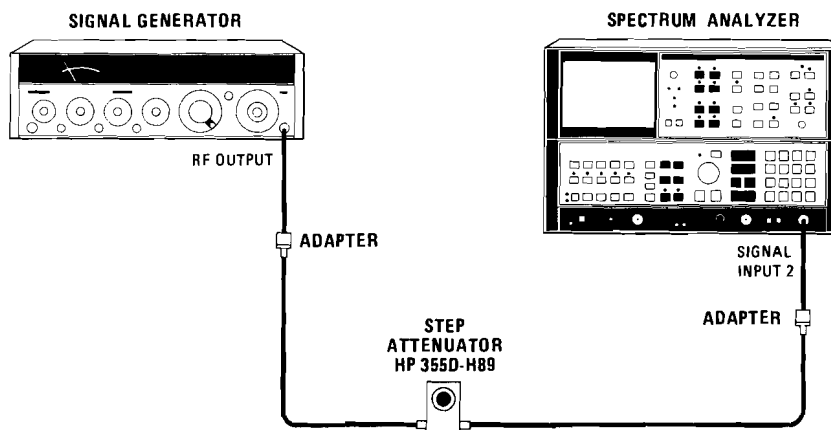


Figure 4-22. Amplitude Fidelity Test Setup

EQUIPMENT:

Signal Generator	HP 8640B
Step Attenuator	HP 355D-H89
Adapter, Type N Male to BNC Female (2 required)	HP 1250-0780

PROCEDURE:

Log Fidelity

1. Set signal generator for an unmodulated 20.000 \pm 0.001 MHz output at a level of 0 dBm.

PERFORMANCE TESTS

4-23. AMPLITUDE FIDELITY TEST (Cont'd)

2. Connect equipment as shown in Figure 4-22 with step attenuator set at 0 dB.

3. Press **INSTR PRESET** on the analyzer. Key in analyzer settings as follows:

CENTER FREQUENCY		20 MHz
FREQUENCY SPAN		50 kHz

4. Press **MARKER** **PEAK SEARCH** , **MKR ← CF** , to center the signal on the display.

5. Key in the following analyzer settings:

FREQUENCY SPAN		0 Hz
VIDEO BW		100 Hz

6. Adjust the signal generator output level for a marker amplitude of .00 dBm. Change **VIDEO BW** to 1 Hz.

7. Press **MARKER** **Δ** . Step the step attenuator from 0 dB to 90 dB, recording the **MARKER Δ** amplitude (a negative value) at each step in column 2 of Table 4--17. Allow several sweeps after each step for the video filtered trace to reach its final amplitude (see Figure 4-23).

8. Record the attenuator calibration for each step attenuator setting in column 1 of Table 4-17.

9. Add the value in column 1 to the value in column 2 for each setting to find the fidelity error.

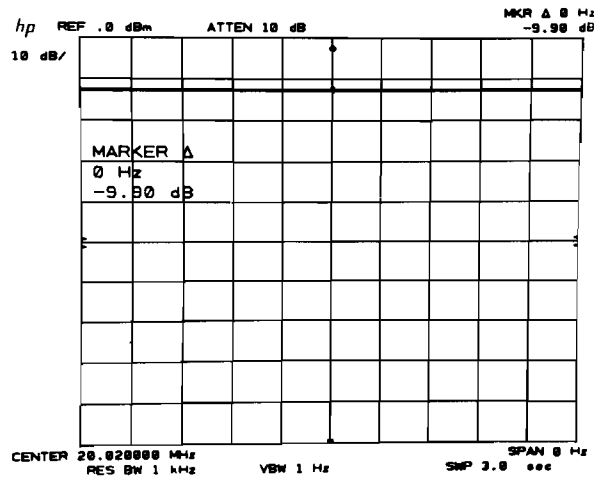


Figure 4-23. Amplitude Fidelity Measurement

PERFORMANCE TESTS

4-23. AMPLITUDE FIDELITY TEST (Cont'd)

Table 4-17. Log Amplitude Fidelity

Step Attenuator Setting (dB)	1 Attenuator Calibration (dB)	2 MARKER Δ Amplitude (dB)	Fidelity Error (Column 2 + Column 1) (dB)
0	0 (ref.)	0 (ref.)	0 (ref.)
10	_____	_____	_____
20	_____	_____	_____
30	_____	_____	_____
40	_____	_____	_____
50	_____	_____	_____
60	_____	_____	_____
70	_____	_____	_____
80	_____	_____	_____
90	_____	_____	_____

- 10. The fidelity error at each attenuator setting from 10 dB to 80 dB should be $\leq \pm 1.0$ dB.
- 11. The fidelity error at the 90 dB setting should be $\leq \pm 1.5$ dB.

Linear Fidelity

- 12. Key in analyzer settings as follows:

<input type="text" value="VIDEO BW"/>	300 Hz
<input type="text" value="FREQUENCY SPAN"/>	1 MHz
<input type="text" value="RES BW"/>	1 MHz

- 13. Set step attenuator to 0 dB.
- 14. Press SCALE LIN pushbutton. Set to 0 Hz.
- 15. Press MARKER . Adjust output level of generator for a MARKER amplitude of 223.60 mV (0 dBm).
- 16. Set to 1 Hz. Press , (resolution bandwidth), MARKER .
- 17. Set step attenuator to 10 dB. Record the MARKER Δ amplitude in column 2 of Table 4-18.
- 18. Set step attenuator to 20 dB. Record the MARKER Δ amplitude in column 2 of Table 4-18.

PERFORMANCE TESTS

4-23. AMPLITUDE FIDELITY TEST (Cont'd)

19. Record the step attenuator calibrations corresponding to the 10 dB and 20 dB attenuator settings in column 1 of Table 4-18 (if the 10 dB step is calibrated at 10.1 dB, for example, enter +0.1 dB).
20. Add the values in column 1 to those in column 2 to find the corrected amplitude readings. The allowable ranges for the amplitude readings are shown in the table.

Table 4-18. Linear Amplitude Fidelity

Step Attenuator Setting (dB)	1 Attenuator Error* (dB)	2 MARKER Δ Amplitude (dB)	Corrected Amplitude (1 + 2) (dB)	Allowable Range (±3% of Reference Level) (dB)	
				Min.	Max.
10	_____	_____	_____	-10.87	-9.21
20	_____	_____	_____	-23.10	-17.72

*The error is positive if the calibration > the dial setting, negative if the calibration < the dial setting. For example, 9.99 dB calibration for a 10 dB attenuator setting represents an error of -0.01 dB.

4-24. AVERAGE NOISE LEVEL TEST

SPECIFICATION:

< -135 dBm for frequencies > 1 MHz, < -112 dBm for frequencies ≤ 1 MHz but > 500 Hz with 10 Hz resolution bandwidth, 0 dB input attenuation, 1 Hz video filter.

OPTION 001: < -129 dBm for frequencies > 1 MHz, < -106 dBm for frequencies ≤ 1 MHz but > 500 Hz (SIGNAL INPUT 1 only).

DESCRIPTION:

The average noise level is checked by observing the displayed noise level at several frequencies with no input signal applied.

EQUIPMENT:

50 Ohm Termination HP 11593A

PERFORMANCE TESTS

4-24. AVERAGE NOISE LEVEL TEST (Cont'd)

PROCEDURE:

1. Press **INSTR PRESET**.
2. Connect CAL OUTPUT to SIGNAL INPUT 2.
3. Press **RECALL** **8**. Adjust AMPTD CAL for a MARKER amplitude of $-10.00 \text{ dBm} \pm 0.02 \text{ dB}$.
4. Press **INSTR PRESET**.
5. Disconnect CAL OUTPUT from analyzer. Terminate SIGNAL INPUT 2 with a 50Ω coaxial termination.
6. Key in spectrum analyzer settings as follows:

ATTEN	.....	0 dB
CENTER FREQUENCY	.....	501 Hz
FREQUENCY SPAN	.....	0 Hz
RES BW	.....	10 Hz
REFERENCE LEVEL	.....	-80 dBm
VIDEO BW	.....	1 Hz
SWEEP TIME	.....	20 seconds

7. Press **SWEEP** **SINGLE** and wait for completion of the sweep.
8. Press **DISPLAY LINE** **ENTER**. Using **DATA** knob, place display line at the apparent average amplitude of the noise trace (see Figure 4-24).

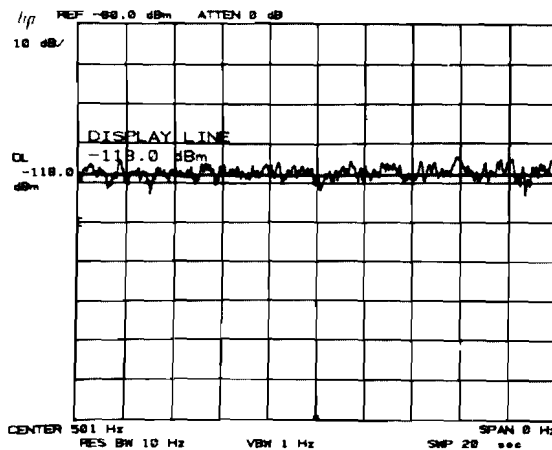


Figure 4-24. Average Noise Level Measurement

PERFORMANCE TESTS

4-24. AVERAGE NOISE LEVEL TEST (Cont'd)

9. Read the average noise level from the DISPLAY LINE readout. The value should be < -112 dBm.
 10. Change to 1.001 MHz. Follow the procedure of steps 7 through 9 to determine the average noise level. The value should be < -135 dBm.
 11. Change to 1501 MHz. Follow the procedure of steps 7 through 9 to determine the average noise level. The value should be < -135 dBm.
-

4-25. RESIDUAL RESPONSES TEST

SPECIFICATION:

< -105 dBm with 0 dB input attenuation (no signal present at input).

OPTION 001: < -99 dBm (SIGNAL INPUT 1 only)

DESCRIPTION:

The spectrum analyzer is checked for residual responses across its frequency range with no signal applied to the input and 0 dB input attenuation.

EQUIPMENT:

50 Ohm Termination HP 11593A

PROCEDURE:

1. Press .
 2. Connect CAL OUTPUT to SIGNAL INPUT 2.
 3. Press . Adjust AMPTD CAL for a MARKER amplitude of -10.00 dBm ± 0.02 dB.
 4. Press .
 5. Disconnect CAL OUTPUT from analyzer. Terminate SIGNAL INPUT 2 with a 50 ohm coaxial termination.
-

PERFORMANCE TESTS

4-25. RESIDUAL RESPONSES TEST (Cont'd)

6. Key in control settings as follows:

FREQUENCY SPAN	.....	50 MHz
REFERENCE LEVEL	.....	- 60 dBm
CENTER FREQUENCY	.....	25 MHz
CF STEP SIZE	.....	45 MHz
VIDEO BW	.....	1 kHz
RES BW	.....	3 kHz
ATTEN	.....	0 dB

7. Press DISPLAY LINE and key in - 105 dBm.

8. Reduce and/or , if necessary, for a margin of at least 4 dB between the noise trace and the display line (refer to Figure 4-25). Do not reduce either bandwidth to less than 300 Hz.

NOTE

This test will require approximately 30 minutes to complete using the settings given in step 6. If the resolution bandwidth and/or video bandwidth are further reduced, a full band check of residual responses will take up to 15 hours to complete.

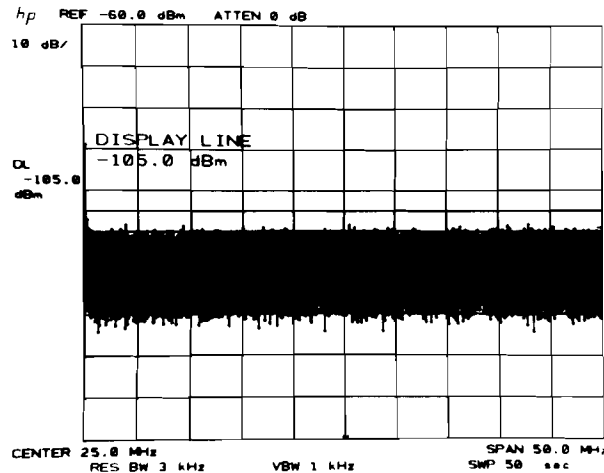


Figure 4-25. Residual Responses Measurement

PERFORMANCE TESTS

4-25. RESIDUAL RESPONSES TEST (Cont'd)

9. Press SWEEP and wait for completion of sweep. Look for any residual responses at or above the display line. If a residual is suspected, press SWEEP again and see if the response persists. A residual will persist on repeated sweeps, but a noise peak will not. Any residual responses must be < -105 dBm.
 10. If a response appears marginal, do the following to determine whether or not it exceeds the specification.
 - a. Press .
 - b. Press MARKER and place the marker on the peak of the response in question.
 - c. Press MARKER , then activate SWEEP .
 - d. Reduce to 1 MHz or less. The amplitude of the response should be < -105 dBm (below the display line).
 - e. Press to resume the search for residuals.
 11. Step to 1510 MHz with , checking for residual responses at each step by the procedure of steps 9 and 10. There should be no residual responses at or above the display line below 1500 MHz.
-

4-26. SPURIOUS RESPONSES TEST

RELATED ADJUSTMENT:

Second Converter Adjustments

SPECIFICATION:

For total signal power of ≤ 40 dBm at the input mixer of the analyzer, all image and out-of-band mixing responses, harmonic and intermodulation distortion products are > 75 dB below the total signal power for input signals 10 MHz to 1500 MHz; > 70 dB below the total signal power for input signals 100 Hz to 10 MHz.

For a signal -30 dBm at the mixer and ≥ 10 MHz, second harmonic distortion is > 70 dB down; 60 dB down for signals < 10 MHz.

For two signals -30 dBm at the mixer, third-order intermodulation products are > 70 dB down ($+5$ dBm T.O.I. for 0 dB input attenuation).

DESCRIPTION:

Harmonic distortion (second and third) is tested using a signal source and a low-pass filter. The LPF insures that the harmonics measured are generated by the spectrum analyzer and not by the signal generator.

Spurious responses due to image frequencies, out-of-band mixing, and intermodulation distortion are measured by applying signals from two separate sources to the spectrum analyzer input.

PERFORMANCE TESTS

4-26. SPURIOUS RESPONSES TEST (Cont'd)

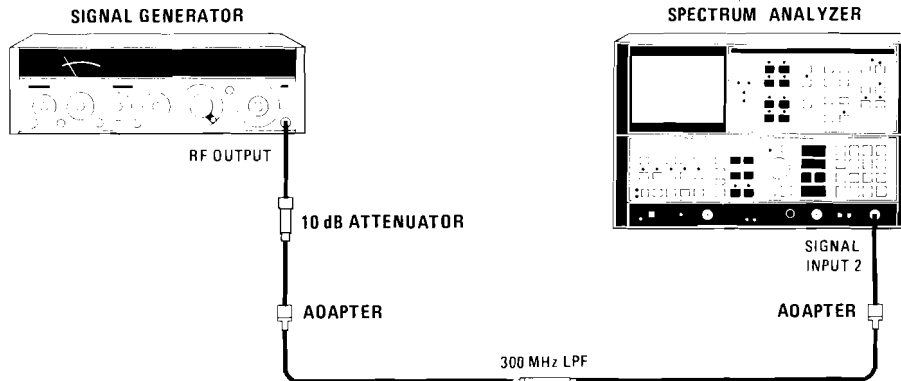


Figure 4-26. Harmonic Distortion Test Setup

NOTE

Equipment listed is for two test setups, Figures 4-26 and 4-27.

EQUIPMENT:

Signal Generator (2 required)	HP 8640B
10 dB Attenuator (2 required)	HP 8491A Option 010
300 MHz LPF	Telonic TLP 300-4AB
BNC Tee	HP 1250-0781
Adapter, Type N Male to BNC Female (3 required)	HP 1250-0780

PROCEDURE:

Harmonic Distortion

1. Press **INSTR PRESET** on the spectrum analyzer.
2. Connect equipment as shown in Figure 4-26.
3. Key in spectrum analyzer settings as follows:

PERFORMANCE TESTS

4-26. SPURIOUS RESPONSES TEST (Cont'd)

CENTER FREQUENCY		280 MHz
FREQUENCY SPAN		10 MHz
REFERENCE LEVEL		-20 dBm

4. Set signal generator for an output frequency of 280 MHz with a signal level of -10 dBm. Press LOCK ON on the signal generator.
5. Press DISPLAY LINE ENTER and key in -90 dBm.
6. Press MARKER PEAK SEARCH, MKR CF, OFF.
7. Adjust output level of signal generator so peak of input signal is at reference level (top) graticule line for an input signal level of -20 dBm (-30 dBm at input mixer with 10 dB of input attenuation).
8. Press MARKER PEAK SEARCH, SIGNAL TRACK. Decrease FREQUENCY SPAN to 1 MHz.
9. Press MKR/D-STP SIZE. Activate CENTER FREQUENCY and press ↑ once to tune to second harmonic. This response should be below the display line (> 70 dB below the input signal level).
10. Press ↓ once to return to the fundamental frequency.
11. Change REFERENCE LEVEL to -30 dBm. Adjust output level of signal generator to set peak of signal at reference level line (-40 dBm at input mixer with 10 dB of input attenuation).
12. Press DISPLAY LINE ENTER and key in -105 dBm.
13. Key in analyzer settings as follows:

RES BW		300 Hz
FREQUENCY SPAN		100 kHz
VIDEO BW		100 Hz

14. Activate CENTER FREQUENCY and press ↑ twice to tune to third harmonic. This signal should be below the display line (> 75 dB below the input signal level).

Intermodulation Distortion

15. Set both signal generators for approximately 30 MHz at a -10 dBm output level.
16. Connect equipment as shown in Figure 4-27.

PERFORMANCE TESTS

4-26. SPURIOUS RESPONSES TEST (Cont'd)

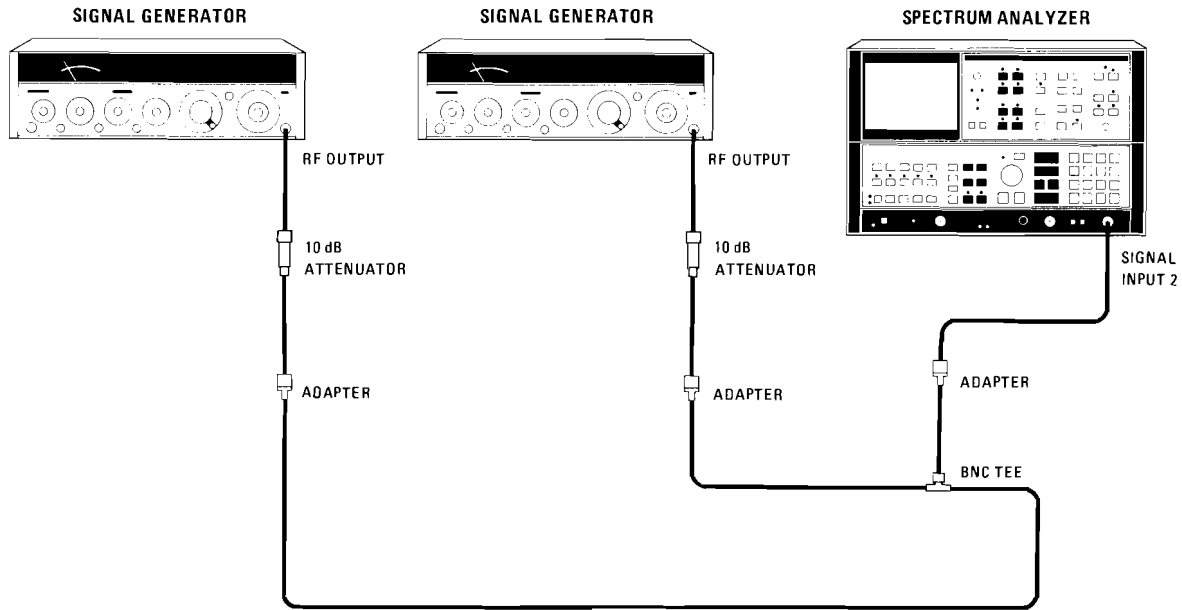


Figure 4-27. Intermodulation Distortion Test Setup

17. Press **INSTR PRESET** on the analyzer. Key in settings as follows:

- CENTER FREQUENCY** 30 MHz
- FREQUENCY SPAN** 5 MHz
- REFERENCE LEVEL** -20 dBm
- RES BW** 10 kHz

18. Tune the signal generators until the signal traces are 2 divisions apart and centered on the display. Press **LOCK ON** on both generators.

19. Adjust the output levels of both signal generators so the signal peaks are at the reference level line (each signal is -30 dBm at the input mixer with 10 dB of input attenuation).

20. Reduce **VIDEO BW** to 300 Hz. Press **DISPLAY LINE** **ENTER** and key in -90 dBm.

21. Check for third-order intermodulation products at 3 divisions from the center of the display (on both sides of the display) (see Figure 4-28). These responses should be below the display line (>70 dB below the input signals).

NOTE

If unable to locate intermodulation distortion products, increase output level of signal generators by 10 dB. Be sure to return the output level of both signal generators to the previous settings before making a measurement.

PERFORMANCE TESTS

4-26. SPURIOUS RESPONSES TEST (Cont'd)

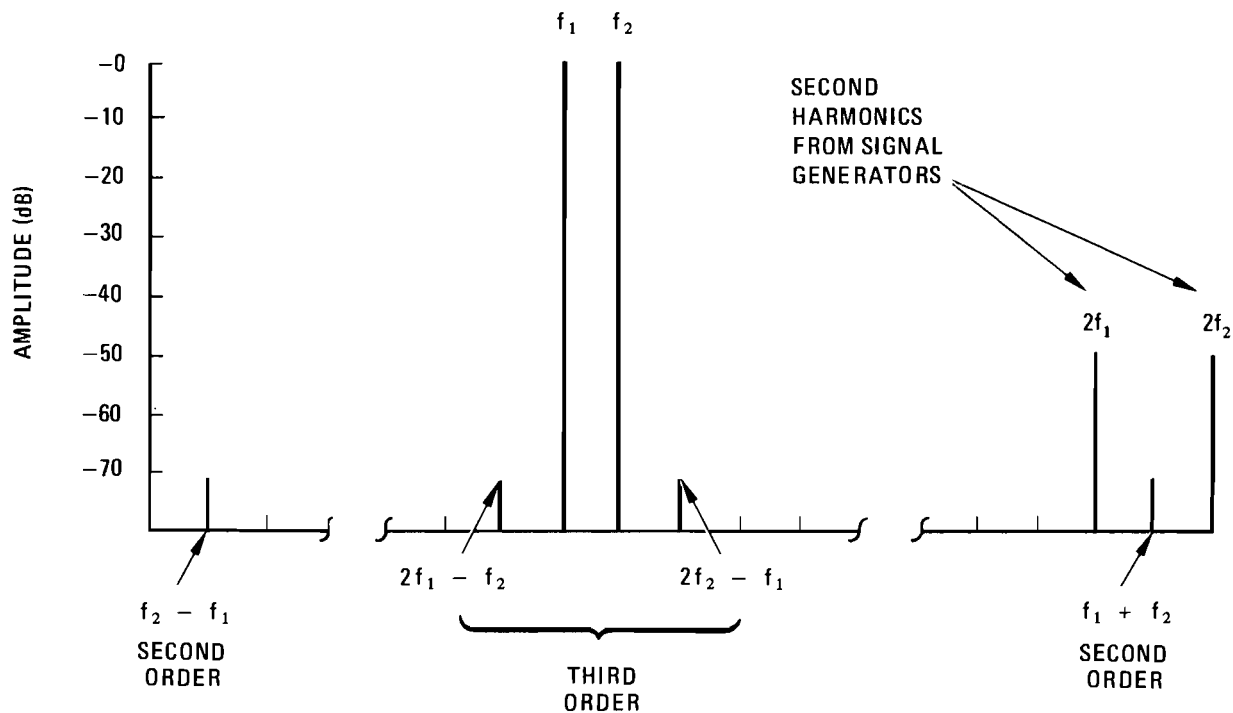


Figure 4-28. Intermodulation Distortion Products

22. Set **REFERENCE LEVEL** to -33 dBm.
23. Reduce output level of both signal generators until the peaks of the signals are at the reference level line. This sets the total input signal power at -30 dBm, corresponding to a signal power of -40 dBm at the input mixer with 10 dB of input attenuation.
24. Key in the following settings:

CENTER FREQUENCY	.....	1 MHz
FREQUENCY SPAN	.....	100 kHz
RES BW	.....	300 Hz
VIDEO BW	.....	30 Hz

25. Press DISPLAY LINE **ENTER** and key in -105 dBm.
26. Check for a second-order intermodulation distortion product ($f_2 - f_1$) near the center of the display. This response should be below the display line (>75 dB below the total input power).

NOTE

If unable to locate intermodulation distortion products, increase output level of signal generators by 10 dB. Be sure to return the output level of both signal generators to the previous settings before making a measurement.

PERFORMANCE TESTS

4-26. SPURIOUS RESPONSES TEST (Cont'd)

27. Change to 60 MHz. Check for a second-order intermodulation product ($f_1 + f_2$) near the center of the display. This signal should be below the display line (>75 dB below the total input power).
-

4-27. RESIDUAL FM TEST

SPECIFICATION:

<3 Hz peak-to-peak in ≤ 10 sec; frequency span ≤ 100 kHz, resolution bandwidth ≤ 30 Hz, video bandwidth ≤ 30 Hz.

DESCRIPTION:

The spectrum analyzer CAL OUTPUT is used to supply a stable 20 MHz signal to the analyzer. The analyzer is tuned in zero span to a point on the 30 Hz bandwidth response for which the slope of the response is known from direct measurement. The residual FM is then slope detected over a 10 second interval, yielding a trace whose peak-to-peak excursion is proportional to the residual FM.

EQUIPMENT:

None Required

PROCEDURE:

1. Press .
2. Connect CAL OUTPUT to SIGNAL INPUT 2.
3. Press and adjust AMPTD CAL for a MARKER amplitude of -10.00 dBm ± 0.02 dB.
4. Press and adjust FREQ ZERO for a maximum amplitude trace.
5. Set to -10 dBm. Adjust FREQ ZERO counterclockwise until trace is at the center graticule line.
6. Set to 100 Hz. Press SWEEP and wait for completion of the sweep.
7. Press MARKER , and place marker 1 division above the center graticule line on the negative-going side of the trace. Press MARKER and set the movable marker 1 division below the center graticule line. See Figure 4-29.

PERFORMANCE TESTS

4-27. RESIDUAL FM TEST (Cont'd)

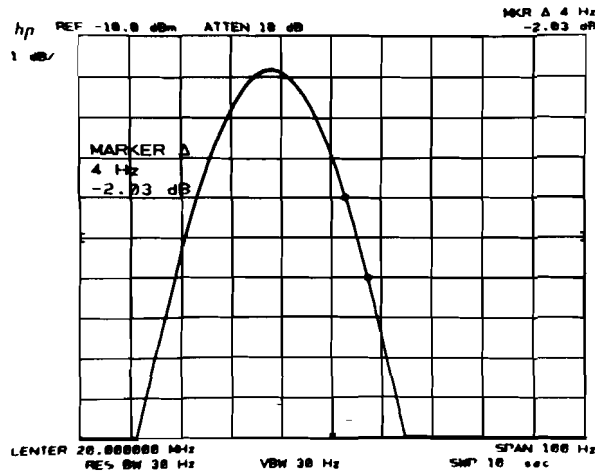


Figure 4-29. Bandwidth Filter Slope Measurement

8. Compute the detection slope of the 30 Hz filter between the markers by dividing the MARKER Δ amplitude by the MARKER Δ frequency:

$$\text{filter slope} = \frac{\text{MARKER } \Delta \text{ amplitude}}{\text{MARKER } \Delta \text{ frequency}} = \underline{\hspace{2cm}} \text{ dB/Hz}$$

9. Press SWEEP , MARKER .
10. Change to 0 Hz. Readjust FREQ ZERO, if necessary, to position the trace at the center graticule line. The amplitude variations of the trace (see Figure 4-30) represent the analyzer residual FM.

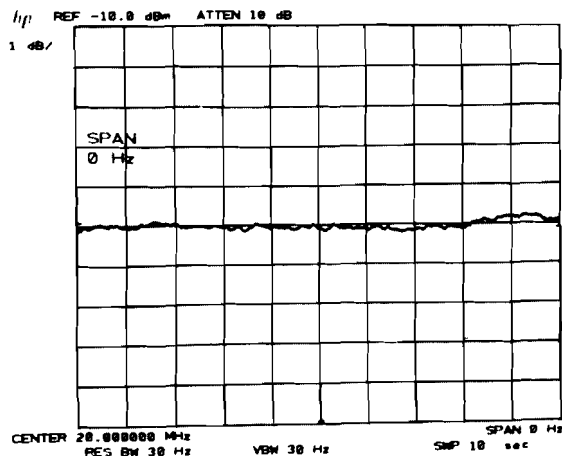


Figure 4-30. Slope Detected Residual FM

PERFORMANCE TESTS

4-27. RESIDUAL FM TEST (Cont'd)

11. Press SWEEP and wait for completion of the sweep.
12. Press MARKER . Press DISPLAY LINE and position the display line at the lowest point on the trace.

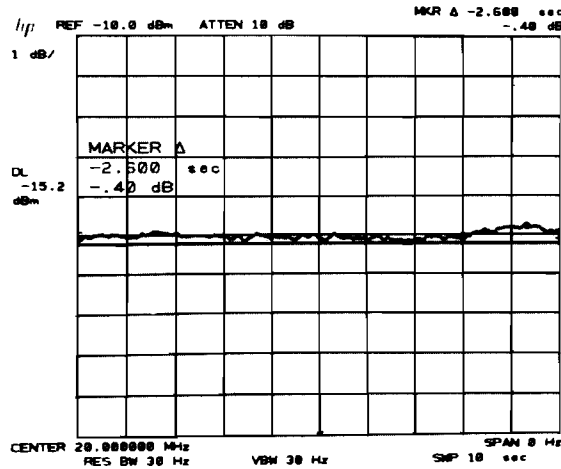


Figure 4-31. Peak-to-Peak Amplitude Measurement

13. Press MARKER and position movable marker at the lowest point on the trace (see Figure 4-31). Read the MARKER Δ amplitude from the display and record its absolute value.

MARKER Δ amplitude = p-p amplitude = _____dB

14. Divide the peak-to-peak amplitude by the slope computed in step 8 to obtain the residual FM:

$$\frac{\text{p-p amplitude}}{\text{filter slope}} = \text{residual FM}$$

$$\frac{\text{_____ dB}}{\text{_____ dB/Hz}} = \text{_____ Hz} = \text{residual FM}$$

The residual FM should be less than 3 Hz.

15. Press .
16. Press and adjust FREQ ZERO for a maximum amplitude trace.

PERFORMANCE TESTS

4-28. LINE RELATED SIDEBANDS TEST

SPECIFICATION:

> 85 dB below the peak of a CW signal

OPTION 400: >75 dB below the peak of a CW signal.

DESCRIPTION:

The spectrally pure calibrator signal of the spectrum analyzer is applied to the analyzer input and the line related sidebands near the signal are measured.

EQUIPMENT:

None required

PROCEDURE:

1. Press **INSTR PRESET** on the analyzer. Connect CAL OUTPUT to SIGNAL INPUT 2.
2. Press **RECALL** **8** and adjust AMPTD CAL for a MARKER amplitude of $-10.00 \text{ dBm} \pm 0.02 \text{ dB}$.
3. Press **INSTR PRESET**.

4. Key in the following analyzer settings:

CENTER FREQUENCY	.....	20 MHz
REFERENCE LEVEL	.....	- 10 dBm
FREQUENCY SPAN	.....	600 Hz

5. Wait for completion of sweep, then press **MARKER** **PEAK SEARCH**, **MKR- CF**.
6. Press **SWEEP** **SINGLE** and wait for completion of sweep.
7. Press **MARKER** **Δ** and position movable marker at the peak of each line related sideband (120 Hz, 180 Hz, and 240 Hz for 60 Hz line frequency; 100 Hz, 150 Hz, and 200 Hz for 50 Hz line frequency). The MARKER Δ amplitude for each sideband should be $< -85 \text{ dB}$ (see Figure 4-32).

PERFORMANCE TESTS

4-28. LINE RELATED SIDEBANDS TEST (Cont'd)

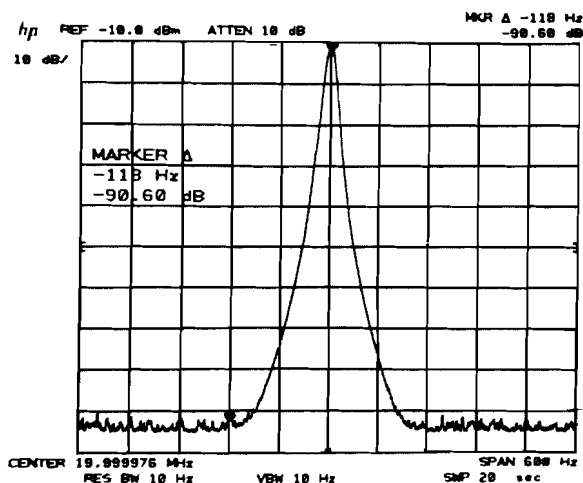


Figure 4-32. Line Related Sidebands Measurement

OPTION 400

1. Press **INSTR PRESET**. Connect CAL OUTPUT to SIGNAL INPUT 2.
2. Press **RECALL** **8** and adjust AMPTD CAL for a MARKER amplitude of $-10.00 \text{ dBm} \pm 0.02 \text{ dB}$.
3. Press **INSTR PRESET**.
4. Key in the following analyzer settings:

CENTER FREQUENCY		20 MHz
REFERENCE LEVEL		-10 dBm
FREQUENCY SPAN		3 kHz

5. Wait for completion of the sweep, then press **MARKER** **PEAK SEARCH**, **MKR** **CF**.
6. Press **SWEEP** **SINGLE** and wait for completion of the sweep.
7. Press **MARKER** **Δ** and position movable marker at the peak of each line related sideband (400 Hz, 800 Hz, and 1200 Hz). The MARKER Δ amplitude for each sideband should be $< -75 \text{ dB}$.

4-29. CALIBRATOR AMPLITUDE ACCURACY TEST

RELATED ADJUSTMENT:

20 MHz Reference Adjustments

SPECIFICATION:

± 0.2 dB

DESCRIPTION:

The output level of the calibrator signal is measured with a power meter.

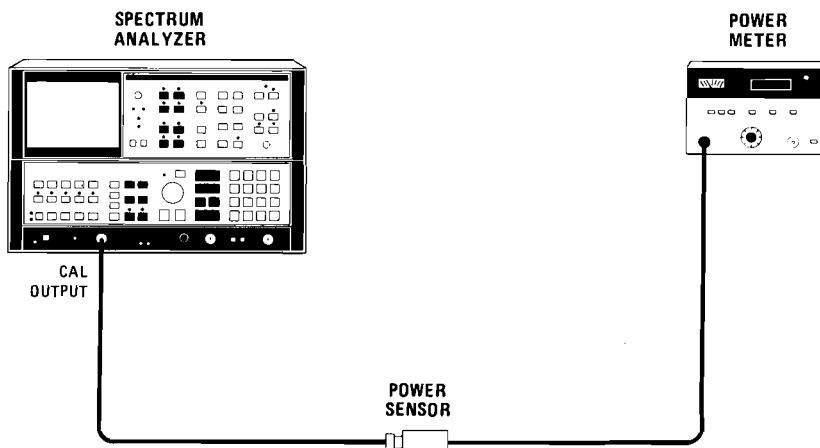


Figure 4-33. Calibrator Amplitude Accuracy Test Setup

EQUIPMENT:

Power Meter HP 436A
Power Sensor HP 8482A

PROCEDURE:

1. Connect equipment as shown in Figure 4-33.
2. Measure output level of the CAL OUTPUT signal. The value should be -10.0 dBm ± 0.2 dB.

Table 4-19. Performance Test Record (1 of 7)

Hewlett-Packard Company Model 8568A Spectrum Analyzer		Tested By _____ Date _____		
Serial Numbers IF-Display Section: _____ RF Section: _____				
Para. No.	Test Description	Results		
		Min.	Measured	Max.
4-12	Center Frequency Readout Accuracy			
	10. 100 MHz	98 MHz	_____	102 MHz
	11. 500 MHz	498 MHz	_____	502 MHz
	12. 1000 MHz	998 MHz	_____	1002 MHz
	16. 100 MHz	99.8 MHz	_____	100.2 MHz
	500 MHz	499.8 MHz	_____	500.2 MHz
	1000 MHz	999.8 MHz	_____	1000.2 MHz
	1500 MHz	1499.8 MHz	_____	1500.2 MHz
	1000 MHz	999.98 MHz	_____	1000.02 MHz
	1000 MHz	999.998 MHz	_____	1000.002 MHz
1000 MHz	999.9998 MHz	_____	1000.0002 MHz	
4-13	Frequency Span Accuracy			
	6. 1500 MHz	1267 MHz	_____	1333 MHz
	7. 1000 MHz	779 MHz	_____	821 MHz
	500 MHz	291.5 MHz	_____	308.5 MHz
	100 MHz	77.9 MHz	_____	82.1 MHz
	20 MHz	16.56 MHz	_____	17.44 MHz
	14. 1 MHz	755 kHz	_____	845 kHz
	15. 500 kHz	282.5 kHz	_____	317.5 kHz
	100 kHz	75.5 kHz	_____	84.5 kHz
	50 kHz	28.25 kHz	_____	31.75 kHz
10 kHz	7.55 kHz	_____	8.45 kHz	
1 kHz	755 Hz	_____	845 Hz	
4-14	Sweep Time Accuracy			
	12. 20 msec	14.40 msec	_____	17.60 msec
	13. 50 msec	36.00 msec	_____	44.00 msec
	100 msec	72.00 msec	_____	88.00 msec
	500 msec	360.0 msec	_____	440.0 msec
	1 sec	720.0 msec	_____	880.0 msec
	10 sec	7.200 sec	_____	8.800 sec
	50 sec	36.00	_____	44.00 sec
100 sec	72.00 sec	_____	88.00 sec	

Table 4-19. Performance Test Record (2 of 7)

Para. No.	Test Description	Results		
		Min.	Measured	Max.
4-14	Sweep Time Accuracy (Cont'd)			
	150 sec	104.0 sec	_____	156.0 sec
	15. 5 msec	-0.5 div	_____	+0.5 div
	2 msec	-0.5 div	_____	+0.5 div
	1 msec	-0.5 div	_____	+0.5 div
	200 μsec	-0.5 div	_____	+0.5 div
	100 μsec	-0.5 div	_____	+0.5 div
	3. (alternate procedure)			
	20 msec	18.0 msec	_____	21.0 msec
	50 msec	45.0 msec	_____	55.0 msec
	100 msec	90.0 msec	_____	110 msec
	1 sec	900 msec	_____	1.10 sec
	10 sec	9.00 sec	_____	11.0 sec
	50 sec	45.0 sec	_____	55.0 sec
	100 sec	90.0 sec	_____	10.0 sec
	150 sec	20.0 sec	_____	80.0 sec
	4-15	Resolution Bandwidth Accuracy		
8. 3 MHz		2.400 MHz	_____	3.600 MHz
1 MHz		900 kHz	_____	1.100 MHz
300 kHz		270.0 kHz	_____	330.0 kHz
100 kHz		90.0 kHz	_____	110.0 kHz
30 kHz		27.00 kHz	_____	33.00 kHz
10 kHz		9.00 kHz	_____	11.00 kHz
3 kHz		2.700 kHz	_____	3.300 kHz
1 kHz		800 Hz	_____	1.200 kHz
300 Hz		240 Hz	_____	360 Hz
100 Hz		80 Hz	_____	120 Hz
4-16	Resolution Bandwidth Selectivity			
	9. 3 MHz		_____	15:1
	1 MHz		_____	15:1
	300 kHz		_____	15:1
	100 kHz		_____	15:1
	30 kHz		_____	13:1
	10 kHz		_____	13:1
	3 kHz		_____	11:1
	1 kHz		_____	11:1
	300 Hz		_____	11:1
100 Hz		_____	11:1	

Table 4-19. Performance Test Record (3 of 7)

Para. No.	Test Description	Results		
		Min.	Measured	Max.
4-16	Resolution Bandwidth Selectivity (Cont'd)			
	30 Hz		_____	11:1
	10 Hz		_____	100 Hz
4-17	Resolution Bandwidth Switching Uncertainty			
	6. 3 MHz	-1.0 dB	_____	+1.0 dB
	300 kHz	-0.5 dB	_____	+0.5 dB
	100 kHz	-0.5 dB	_____	+0.5 dB
	30 kHz	-0.5 dB	_____	+0.5 dB
	10 kHz	-0.5 dB	_____	+0.5 dB
	3 kHz	-0.5 dB	_____	+0.5 dB
	1 kHz	-0.5 dB	_____	+0.5 dB
	300 Hz	-0.5 dB	_____	+0.5 dB
	100 Hz	-0.5 dB	_____	+0.5 dB
	30 Hz	-0.5 dB	_____	+0.5 dB
	10 Hz	-1.0 dB	_____	+1.0 dB
4-18	Input Attenuator Switching Uncertainty			
	8.			
	20 dB	-1.0 dB	_____	+1.0 dB
	30 dB	-1.0 dB	_____	+1.0 dB
	40 dB	-1.0 dB	_____	+1.0 dB
	50 dB	-1.0 dB	_____	+1.0 dB
	60 dB	-1.0 dB	_____	+1.0 dB
70 dB	-1.0 dB	_____	+1.0 dB	
4-19	Frequency Response			
	11. INPUT 2			
	10 MHz to 1500 MHz		_____	2 dB
	16. INPUT 1			
	10 MHz to 500 MHz		_____	2 dB
	500 MHz to 1500 MHz		_____	3 dB
	24. INPUT 1			
100 kHz to 10 MHz		_____	2 dB	
29. INPUT 2				
100 kHz to 10 MHz		_____	2 dB	
39. INPUT 1				
1 kHz to 100 kHz		_____	2 dB	

Table 4-19. Performance Test Record (4 of 7)

Para. No.	Test Description	Results		
		Min.	Measured	Max.
4-19	Frequency Response (Cont'd)			
	44. INPUT 1			
	100 Hz	-3 dBm	_____	-1 dBm
	45. INPUT 1			
	200 Hz	-3 dBm	_____	-1 dBm
	300 Hz	-3 dBm	_____	-1 dBm
	400 Hz	-3 dBm	_____	-1 dBm
	500 Hz	-3 dBm	_____	-1 dBm
	600 Hz	-3 dBm	_____	-1 dBm
	700 Hz	-3 dBm	_____	-1 dBm
	800 Hz	-3 dBm	_____	-1 dBm
	900 Hz	-3 dBm	_____	-1 dBm
	1 kHz	-3 dBm	_____	-1 dBm
4-20	RF Gain Uncertainty			
	6. 2nd LO Shift	-1.0 dBm	_____	+1.0 dB
4-21	IF Gain Uncertainty		(last column of Tables 4-12, 4-13 and 4-14)	
	15. -10 dBm		_____	
	-20 dBm		_____	
	-30 dBm		_____	
	-40 dBm		_____	
	-50 dBm		_____	
	-60 dBm		_____	
	-70 dBm		_____	
	-80 dBm		_____	
	-90 dBm		_____	
	-100 dBm		_____	
	-110 dBm		_____	
	-120 dBm		_____	
	22. -3.9 dBm		_____	
	-5.9 dBm		_____	
	-7.9 dBm		_____	
	-9.9 dBm		_____	
	29. -0.1 dBm		_____	
	-0.2 dBm		_____	
	-0.3 dBm		_____	
	-0.4 dBm		_____	
	-0.5 dBm		_____	
	-0.6 dBm		_____	

Table 4-19. Performance Test Record (5 of 7)

Para. No.	Test Description	Results		
		Min.	Measured	Max.
4-21	IF Gain Uncertainty (Cont'd)			
	-0.7 dBm		_____	
	-0.8 dBm		_____	
	-0.9 dBm		_____	
	-1.0 dBm		_____	
	-1.1 dBm		_____	
	-1.2 dBm		_____	
	-1.3 dBm		_____	
	-1.4 dBm		_____	
	-1.5 dBm		_____	
	-1.6 dBm		_____	
	-1.7 dBm		_____	
	-1.8 dBm		_____	
	-1.9 dBm		_____	
30.	Last five entries in step 15 should be $\leq \pm 0.4$ dB			
31.	From step 15: 0 to -70 dBm Largest pos. dev. Largest neg. dev. -80 to -120 dBm Largest pos. dev. Largest neg. dev.		_____ _____ _____ _____ _____	
32.	From step 22: Largest pos. dev. Largest neg. dev. From step 29: Largest pos. dev. Largest neg. dev.		_____ _____ _____ _____	
33.	Sum of pos. dev. in steps 31 and 32		_____	+0.6 dB
34.	Sum of neg. dev. in steps 31 and 32	-0.6 dB	_____	
8.	(0.1 dB Steps, Alternate Procedure) Record under step 29 above			
9.	Do steps 30 through 34			
4-22	Log Scale Switching Uncertainty			
	7. 2 dB/DIV	-0.5 dB	_____	+0.5 dB
	5 dB/DIV	-0.5 dB	_____	+0.5 dB
	10 dB/DIV	-0.5 dB	_____	+0.5 dB

Table 4-19. Performance Test Record (6 of 7)

Para. No.	Test Description	Results		
		Min.	Measured	Max.
4-23	Amplitude Fidelity			
	9. 10 dB	-1.0 dB	_____	+1.0 dB
	20 dB	-1.0 dB	_____	+1.0 dB
	30 dB	-1.0 dB	_____	+1.0 dB
	40 dB	-1.0 dB	_____	+1.0 dB
	50 dB	-1.0 dB	_____	+1.0 dB
	60 dB	-1.0 dB	_____	+1.0 dB
	70 dB	-1.0 dB	_____	+1.0 dB
	80 dB	-1.0 dB	_____	+1.0 dB
	90 dB	-1.5 dB	_____	+1.5 dB
20.	10 dB	-10.87 dB	_____	-9.21 dB
	20 dB	-23.10 dB	_____	-17.72 dB
4-24	Average Noise Level			
	9. 501 Hz		_____	-112 dBm
	10. 1.001 MHz		_____	-135 dBm
	11. 1501 MHz		_____	-135 dBm
4-25	Residual Responses			
10. Max. residual response, 100 Hz to 1500 MHz		_____	-105 dBm	
4-26	Spurious Responses			
	9. Second Harmonic		_____	-90 dBm
	14. Third Harmonic		_____	-105 dBm
	21. Third Order Intermodulation Distortion, 30 MHz input signals		_____	-90 dBm
	26. Second Order Intermodulation Distortion, 30 MHz input signals ($f_2 - f_1$)		_____	-105 dBm
27. Second Order Intermodulation Distortion, 30 MHz input signals ($f_1 + f_2$)		_____	-105 dBm	
4-27	Residual FM			
14. Residual FM		_____	3 Hz	

Table 4-19. Performance Test Record (7 of 7)

Para. No.	Test Description	Results		
		Min.	Measured	Max.
4-28	Line Related Sidebands			
	7. 120 Hz (100 Hz)		_____	-85 dB
	180 Hz (150 Hz)		_____	-85 dB
	240 Hz (200 Hz)		_____	-85 dB
	OPTION 400			
	7. 400 Hz		_____	-75 dB
	800 Hz		_____	-75 dB
	1200 Hz		_____	-75 dB
4-29	Calibrator Amplitude Accuracy			
	2. CAL OUTPUT amplitude	-10.20 dBm	_____	-9.80 dBm

SECTION V ADJUSTMENTS

5-1. INTRODUCTION

5-2. This section provides adjustment procedures for the Model 8568A Spectrum Analyzer. These procedures should not be performed as routine maintenance but should be used (1) after replacement of a part or component, or (2) when performance tests show that the specifications of Table

1-1 cannot be met. Before attempting any adjustment, allow 1 hour warm-up time for the instrument. Table 5-1 is a cross reference of functions adjusted to the related adjustment procedure. Table 5-2 lists all adjustable components by name and reference designator and the function adjusted by each.

Table 5-1. Adjustment Cross Reference

Function Adjusted	Para. No.	Paragraph Title
Low Voltage	5-15	Low Voltage Power Supply Adjustments
High Voltage	5-16	High Voltage Adjustment
CRT Display (Standard)	5-17	Preliminary Display Adjustments
	5-18	Final Display Adjustments
CRT Display (Digital Storage)	5-39	Digital Storage Display Adjustments
IF Gains	5-19	Log Amplifier Adjustments
	5-24	Step Gain and 18.4 MHz Local Oscillator Adjustments
Log Scales	5-20	Video Processor Adjustments
Bandwidth Amplitudes	5-21	3 MHz Bandwidth Filter Adjustments
	5-22	21.4 MHz Bandwidth Filter Adjustments
	5-24	Step Gain and 18.4 MHz Local Oscillator Adjustments
	5-25	Down/Up Converter Adjustments
3-dB Bandwidths	5-23	3-dB Bandwidth Adjustments
10 MHz Internal Time Base	5-26	Time Base Adjustments
CAL OUTPUT Level	5-27	20 MHz Reference Adjustments
Phase Lock Loops	5-28	249 MHz Phase Lock Oscillator Adjustments
	5-29	275 MHz Phase Lock Oscillator Adjustments
	5-36	Comb Generator Adjustments
RF Signal Conversion and RF Gains	5-30	Second IF Amplifier Adjustments
	5-31	Pilot Second IF Amplifier Adjustments
	5-33	Second Converter Adjustments
Sweep Times	5-32	Frequency Control Adjustments
Frequency Tuning	5-32	Frequency Control Adjustments
	5-34	50 MHz Voltage-Tuned Oscillator Adjustments
Frequency Span	5-32	Frequency Control Adjustments
START and STOP Frequency	5-32	Frequency Control Adjustments
FM Span	5-32	Frequency Control Adjustments
Frequency Response	5-35	Slope Compensation Adjustment
Digital Storage Video Processing	5-37	Analog-to-Digital Converter Adjustments
	5-38	Track and Hold Adjustments

5-3. EQUIPMENT REQUIRED

5-4. Table 1-3 lists the equipment required for the adjustment procedures. If the test equipment recommended is not available, other equipment may be used if its performance meets the “Critical Specifications” listed in the table. The test setup used for an adjustment procedure is referenced in each procedure.

5-5. ADJUSTMENT TOOLS

5-6. For adjustments requiring a non-metallic tuning tool, use fiber tuning tool, HP Part Number 8710-0033. In situations not requiring non-metallic tuning tools, an ordinary small screwdriver or other suitable tool is sufficient. However, it is recommended you use a non-metallic adjustment tool whenever possible. Never try to force any adjustment control in the analyzer. This is especially critical when tuning variable slug-tuned inductors, and variable capacitors.

5-7. FACTORY SELECTED COMPONENTS

5-8. Factory selected components are identified with an asterisk on the schematic diagram. The range of their values and functions are listed in Table 5-3. Part Numbers for selected values are located in Table 5-4.

5-9. RELATED ADJUSTMENTS

5-10. Any adjustments which interact with or are related to other adjustments are indicated in the adjustment procedures. It is important that adjustments so noted are performed in the order indicated to ensure instrument meets specifications.

5-11. LOCATION OF TEST POINTS AND ADJUSTMENTS

5-12. Illustrations showing the locations of assemblies containing adjustments and locations of those adjustments within the assemblies are contained within the adjustment procedures where

they apply. Major assembly and component location illustrations are also located at the rear of Volumes 2, 3, and 4 of this manual.

5-13. SAFETY CONSIDERATIONS

5-14. Although this instrument has been designed in accordance with international safety standards, this manual contains information, cautions, and warnings which must be followed to ensure safe operation and to retain the instrument in safe condition. Service and adjustments should be performed only by qualified service personnel.

WARNING

Adjustments in this section are performed with power supplied to the instrument while protective covers are removed. There are voltages at many points in the instrument which can, if contacted, cause personal injury. Be extremely careful. Adjustments should be performed only by trained service personnel.

Power is still applied to this instrument with the LINE switch in STANDBY. There is no OFF position on the LINE switch. Before removing or installing any assembly or printed circuit board, remove the power cord from the rear of both instruments and wait for the MAINS indicators (red LEDs) to go completely out.

Capacitors inside the instrument may still be charged even if the instrument has been disconnected from its source of supply. Always wait until the MAINS indicators (red LEDs) have gone completely out before probing inside the instrument.

Use a non-metallic adjusting tool whenever possible.

Table 5-2. Adjustable Components in Adjustment Sequence (1 of 9)

Reference Designator	Adjustment Name	Adjustment Paragraph Number	Adjustment Function
A1A6R9	+15V ADJ	5-15	Adjusts +15 Vdc supply voltage
A24R60	+20V ADJ	5-15	Adjusts +20 Vdc supply voltage
A1A6R32	HV ADJUST	5-17	Adjusts CRT high voltage
A1A4R7	X POSN	5-17	Adjusts horizontal position of trace
A1A4R27	X GAIN	5-17	Adjusts horizontal gain of trace
A1A4R28	HF GAIN	5-17	Adjusts rise and fall times of X deflection amplifier pulse
A1A4C10	C10	5-17	Adjusts rise and fall times of X deflection amplifier pulse
A1A4C11	C11	5-17	Adjusts rise and fall times of X deflection amplifier pulse
A1A5R7	Y POSN	5-17	Adjusts vertical position of trace
A1A5R27	Y GAIN	5-17	Adjusts vertical gain of trace
A1A5R28	HF GAIN	5-17	Adjusts rise and fall times of Y deflection amplifier pulse
A1A5C10	C10	5-17	Adjusts rise and fall times of Y deflection amplifier pulse
A1A5C11	C11	5-17	Adjusts rise and fall times of Y deflection amplifier pulse
A1A2R22	HF GAIN	5-17	Adjusts rise and fall times of Z axis amplifier pulse
A1A2C10	C10	5-17	Adjusts rise and fall times of Z axis amplifier pulse
A1A2R30	FOCUS GAIN	5-17	Coarse adjusts CRT focus; sets range of front-panel FOCUS control
A1A2R35	INTENSITY LIMIT	5-17	Sets adjustment range of front-panel INTENSITY control
A1A2R36	ASTIG	5-17	Adjusts astigmatism of CRT
A1A3R14	FOCUS LIMIT	5-17	Coarse adjusts CRT focus

Table 5-2. Adjustable Components in Adjustment Sequence (2 of 9)

Reference Designator	Adjustment Name	Adjustment Paragraph Number	Adjustment Function
A1A2R5	INTENSITY GAIN	5-17	Sets adjustment range of front-panel INTENSITY control
A1A2R31	ORTHO	5-17	Sets orthogonality of CRT
A1A2R32	PATTERN	5-17	Adjusts for optimum rectangular shape of CRT display
A1A2R30	FOCUS GAIN	5-18	Adjusts for optimum focus of CRT display
A1A4R7	X POSN	5-18	Adjusts horizontal position of trace
A1A4R27	X GAIN	5-18	Adjusts horizontal gain of trace
A1A5R7	Y POSN	5-18	Adjusts vertical position of trace
A1A5R27	Y GAIN	5-18	Adjusts vertical gain of trace
A4A2R79	ZERO	5-19	Adjusts Log Amplifier offset
A4A3C55	CTR	5-19	Adjusts Log Amplifier center to IF
A4A3R67	AMPTD	5-19	Adjusts amplitude of Log Amplifier Bandpass Filter
A4A2R61	-12 VTV	5-19	Adjusts Log Amplifier tuning voltage
A4A3R83	LG10	5-19	Adjusts 10-dB linear gain step
A4A2R14	LG20	5-19	Adjusts 20-dB linear gain step
A4A1R14	OS	5-20	Adjusts Video Processor offset
A4A1R36	FS	5-20	Adjusts high-end of Video Processor sweep
A4A1R32	ZERO	5-20	Adjusts low-end of Video Processor sweep
A4A1R2	LG OS	5-20	Adjusts linear gain offsets
A4A7C13	PK	5-21	Peaks 3 MHz Bandwidth Filter pole #2
A4A7C22	PK	5-21	Peaks 3 MHz Bandwidth Filter pole #3

Table 5-2. Adjustable Components in Adjustment Sequence (3 of 9)

Reference Designator	Adjustment Name	Adjustment Paragraph Number	Adjustment Function
A4A7C31	PK	5-21	Peaks 3 MHz Bandwidth Filter pole #4
A4A7C40	PK	5-21	Peaks 3 MHz Bandwidth Filter pole #5
A4A7C7	CTR	5-21	Centers 3 MHz Bandwidth Filter pole #1
A4A7C6	SYM	5-21	Adjusts 3 MHz Bandwidth Filter pole #1 symmetry
A4A7C15	CTR	5-21	Centers 3 MHz Bandwidth Filter pole #2
A4A7C14	SYM	5-21	Adjusts 3 MHz Bandwidth Filter pole #2 symmetry
A4A7C24	CTR	5-21	Centers 3 MHz Bandwidth Filter pole #3
A4A7C23	SYM	5-21	Adjusts 3 MHz Bandwidth Filter pole #3 symmetry
A4A7C33	CTR	5-21	Centers 3 MHz Bandwidth Filter pole #4
A4A7C32	SYM	5-21	Adjusts 3 MHz Bandwidth Filter pole #4 symmetry
A4A7C42	CTR	5-21	Centers 3 MHz Bandwidth Filter pole #5
A4A7C41	SYM	5-21	Adjusts 3 MHz Bandwidth Filter pole #5 symmetry
A4A7R30/ A4A7R41	10 Hz AMPTD	5-21	Adjusts 3 MHz Bandwidth Filter 10 Hz bandwidth amplitude
A4A8R7	A10 dB	5-22	Adjusts attenuation of 21.4 MHz Bandwidth Filter 10-dB step
A4A8R6	A20 dB	5-22	Adjusts attenuation of 21.4 MHz Bandwidth Filter 20-dB step
A4A4C20	CTR	5-22	Centers A4A4 Bandwidth Filter crystal pole #1

Table 5-2. Adjustable Components in Adjustment Sequence (4 of 9)

Reference Designator	Adjustment Name	Adjustment Paragraph Number	Adjustment Function
A4A4C9	SYM	5-22	Centers A4A4 Bandwidth Filter crystal pole #1 symmetry
A4A4C74	CTR	5-22	Centers A4A4 Bandwidth Filter crystal pole #2
A4A4C39	SYM	5-22	Adjusts A4A4 Bandwidth Filter crystal pole #2 symmetry
A4A4C73	CTR	5-22	Centers A4A4 Bandwidth Filter crystal pole #3
A4A4C65	SYM	5-22	Adjusts A4A4 Bandwidth Filter crystal pole #3 symmetry
A4A4R49	XTAL	5-22	Adjusts crystal filter amplitudes
A4A4C67	LC CTR	5-22	Centers A4A4 Bandwidth Filter LC pole #2
A4A4C19	LC CTR	5-22	Centers A4A4 Bandwidth Filter LC pole #1
A4A4R43	LC	5-22	Adjusts LC filter amplitudes
A4A8C32	LC CTR	5-22	Centers A4A8 Bandwidth Filter LC pole #1
A4A8C46	LC CTR	5-22	Centers A4A8 Bandwidth Filter LC pole #2
A4A8R35	LC	5-22	Adjusts LC filter amplitudes
A4A8C44	CTR	5-22	Centers A4A8 Bandwidth Filter crystal pole #2
A4A8C42	SYM	5-22	Adjusts A4A8 Bandwidth Filter crystal pole #2 symmetry
A4A8C29	CTR	5-22	Centers A4A8 Bandwidth Filter crystal pole #1
A4A8C13	SYM	5-22	Adjusts A4A8 Bandwidth Filter crystal pole #1 symmetry
A4A8R40	XTAL	5-22	Adjusts crystal filter amplitudes

Table 5-2. Adjustable Components in Adjustment Sequence (5 of 9)

Reference Designator	Adjustment Name	Adjustment Paragraph Number	Adjustment Function
A4A4C41	LC DIP	5-22	Dips A4A4 Bandwidth Filter LC pole #1
A4A4C43	LC DIP	5-22	Dips A4A4 Bandwidth Filter LC pole #2
A4A8C66	LC DIP	5-22	Dips A4A8 Bandwidth Filter LC pole #1
A4A8C67	LC DIP	5-22	Dips A4A8 Bandwidth Filter LC pole #2
A4A9R60	3 MHz	5-23	Adjusts 3 MHz bandwidth
A4A9R61	1 MHz	5-23	Adjusts 1 MHz bandwidth
A4A9R62	300 kHz	5-23	Adjusts 300 kHz bandwidth
A4A9R65	10 kHz	5-23	Adjusts 10 kHz bandwidth
A4A9R66	3 kHz	5-23	Adjusts 3 kHz bandwidth
A4A5R2	+10 V ADJ	5-24	Adjusts +10 V Temperature Compensation Supply
A4A5R33	CAL	5-24	Adjusts IF gain
A4A5R32	SG10	5-24	Adjusts 10-dB step gain
A4A5R44	SG20-1	5-24	Adjusts first 20-dB step gain
A4A5R54	SG20-2	5-24	Adjusts second 20-dB step gain
A4A5R51	VR	5-24	Adjusts variable step gain
A4A5C10	FREQ ZERO COARSE	5-24	Coarse adjusts 18.4 MHz Local Oscillator to set adjustment range of front-panel FREQ ZERO control
A4A6A1R29	WIDE GAIN	5-25	Adjusts gain of down/up converter
A3A6A1C31	18.4 MHz NULL	5-25	Nulls 18.4 MHz Local Oscillator signal
A27	COARSE	5-26	Coarse adjusts reference oscillator frequency

Table 5-2. Adjustable Components in Adjustment Sequence (6 of 9)

Reference Designator	Adjustment Name	Adjustment Paragraph Number	Adjustment Function
A27	FINE	5-26	Fine adjusts reference oscillator frequency
A16R31	COMB DRIVE	5-27	Adjusts drive signal to A23A6 Comb Generator
A16C11	CENTER FREQ	5-27	Adjusts 20 MHz reference for maximum amplitude
A16T1	DOUBLER	5-27	Adjusts 20 MHz reference for maximum amplitude
A16C12	20.34 MHz NULL	5-27	Nulls 20.34 MHz signal
A16R51	CAL LEVEL	5-27	Sets level of CAL OUTPUT signal
A7C3	PLO	5-28	Adjusts 249 MHz Phase Lock Oscillator frequency
A7L10	500 kHz TRAP	5-28	Adjusts 500 kHz trap to null the 500 kHz sideband of the 249 MHz PLO
A7L15	500 kHz TRAP	5-28	Adjusts 500 kHz trap to null the 500 kHz sideband of the 249 MHz PLO
A18C8	PLO ADJUST	5-29	Sets 275 MHz Phase Lock Oscillator frequency
A19C9	301.4 MHz	5-30	Adjusts 301.4 MHz Bandpass Filter
A19C10	301.4 MHz	5-30	Adjusts 301.4 MHz Bandpass Filter
A19C11	301.4 MHz	5-30	Adjusts 301.4 MHz Bandpass Filter
A19C12	301.4 MHz	5-30	Adjusts 301.4 MHz Bandpass Filter
A9C9	269 MHz	5-31	Adjusts 269 MHz Bandpass Filter
A9C10	269 MHz	5-31	Adjusts 269 MHz Bandpass Filter
A9C11	269 MHz	5-31	Adjusts 269 MHz Bandpass Filter
A9C12	269 MHz	5-31	Adjusts 269 MHz Bandpass Filter

Table 5-2. Adjustable Components in Adjustment Sequence (7 of 9)

Reference Designator	Adjustment Name	Adjustment Paragraph Number	Adjustment Function
A22R94	REF	5-32	Adjusts frequency control reference voltage
A22R17	TUNE REF	5-32	Adjusts frequency control tuning voltage reference
A22R88	SLOW	5-32	Adjusts slow sweep times
A22R91	FAST	5-32	Adjusts fast sweep times
A22R25	YTO	5-32	Adjusts YTO DAC
A22R3	VTO	5-32	Adjusts VTO DAC
A22R7	LSD VTO	5-32	Adjusts LSD VTO DAC
A22R39	START	5-32	Adjusts YTO start frequency
A22R35	STOP	5-32	Adjusts YTO stop frequency
A22R64	FM SPAN	5-32	Adjusts for frequency modulation span of 20 MHz
A23A3Z4	SECOND MIXER ADJUST	5-33	Adjusts signal Second Mixer for maximum output
A23A3Z9	SECOND LO ADJUST	5-33	Adjusts Second Local Oscillator frequency
A23A3Z8	SECOND MIXER ADJUST	5-33	Adjusts Pilot Second Mixer for maximum output
A23A3Z10	SECOND LO SHIFT	5-33	Adjusts Second Local Oscillator shift for 5.0 MHz
A23A3Z5	2017.6 MHz	5-33	Adjusts Pilot Second Converter Bandpass Filter
A23A3Z6	2017.6 MHz	5-33	Adjusts Pilot Second Converter Bandpass Filter
A23A3Z7	2017.6 MHz	5-33	Adjusts Pilot Second Converter Bandpass Filter
A23A3L4	MIXER MATCH	5-33	Adjusts for best match of Pilot Second Converter Mixer

Table 5-2. Adjustable Components in Adjustment Sequence (8 of 9)

Reference Designator	Adjustment Name	Adjustment Paragraph Number	Adjustment Function
A23A3Z1	2052.5 MHz	5-33	Adjusts signal Second Converter Bandpass Filter
A23A3Z2	2052.5 MHz	5-33	Adjusts signal Second Converter Bandpass Filter
A23A3Z3	2052.5 MHz	5-33	Adjusts signal Second Converter Bandpass Filter
A23A3L2	MIXER MATCH	5-33	Adjusts for best match of signal Second Converter Mixer
A11R6	POS SUPPLY	5-34	Adjusts reference voltage for VTO shaping network
A11R10	OFFSET	5-34	Adjusts for best response at high-end of VTO range
A11R9	GAIN	5-34	Adjusts for best response at high-end of VTO range
A11R42	SHAPING ATTEN	5-34	Adjusts for best response at low-end of VTO range
A11R17	SHAPING OFFSET	5-34	Adjusts for best response at low-end of VTO range
A22R66	TILT	5-35	Compensates for high-frequency roll-off of first mixer response
A23A4A2R6	COMB BIAS	5-36	Adjusts for best flatness of comb teeth at peak amplitude
A16R31	COMB DRIVE	5-36	Adjusts level of comb teeth
A3A8R14	ZERO	5-37	Adjusts low-end of digitized sweep
A3A8R9	FS	5-37	Adjusts high-end of digitized sweep
A3A9R59	OS	5-38	Adjusts overall offset of track and hold
A3A9R44	OSP	5-38	Adjusts offset of positive peak detect mode
A3A9R36	OSN	5-38	Adjusts offset of negative peak detect mode

Table 5-2. Adjustable Components in Adjustment Sequence (9 of 9)

Reference Designator	Adjustment Name	Adjustment Paragraph Number	Adjustment Function
A3A9R39	GP	5-38	Adjusts gain for positive peak detect mode
A3A9R57	G	5-38	Adjusts overall gain of track and hold
A3A9R19	GS	5-38	Adjusts gain for sample mode
A3A9R52	GN	5-38	Adjusts gain for negative peak detect mode
A3A3R4	X GAIN	5-39	Adjusts horizontal gain of graticule lines
A3A3R5	Y GAIN	5-39	Adjusts vertical gain of graticule lines
A3A3R6	XLL	5-39	Adjusts horizontal long lines on graticule information
A3A3R9	YLL	5-39	Adjusts vertical long lines on graticule information
A3A3R7	XSL	5-39	Adjusts horizontal short lines on graticule information
A3A3R8	YSL	5-39	Adjusts vertical short lines on graticule information
A3A2R50	X S&H	5-39	Adjusts horizontal sample and hold pulse
A3A2R51	Y S&H	5-39	Adjusts vertical sample and hold pulse
A3A1R34	SWEEP OFFSET	5-39	Adjusts digital sweep to begin at left edge of graticule
A3A3R43	YOS	5-39	Adjusts bottom line of graticule to align with fast sweep signal
A3A2R12	LL THRESH	5-39	Adjusts point at which graticule lines switch from short to long lines
A3A3R1	X EXP	5-39	Adjusts horizontal position of annotation
A3A3R2	Y EXP	5-39	Adjusts vertical position of annotation

Table 5-3. Factory Selected Components (1 of 5)

Reference Designator	Selection Procedure Paragraph Number	Range of Values (Ω or PF)	Function of Component
A1A2R9	5-17	2.87K–6.19K	Sets intensity level
A3A2R21		10.0K–26.1K	Sets intensity level
A3A3C27		OPEN or 1.0–10.0	Compensates for feedthrough of INTG signal to input of U1
A3A3C32		OPEN or 1.0–10.0	Compensates for feedthrough of INTG signal to input of U11
A4A2R18	5-19	68.1–178	Sets adjustment range of LG20
A4A2R36		90.9–237	Adjusts overall linear gain
A4A2R62	5-19	17.8K–46.4K	Sets adjustment range of ATTEN
A4A2R86		0–OPEN	Temperature Compensation
A4A2R88		0–OPEN	Temperature Compensation
A4A2R89		0–OPEN	Temperature Compensation
A4A2R96		0–OPEN	Temperature Compensation
A4A2R97		0–OPEN	Temperature Compensation
A4A2R99		0–OPEN	Temperature Compensation
A4A3R15		10.0–82.5	Log Fidelity
A4A3R25		19.6–82.5	Log Fidelity
A4A3R35		10.0–61.9	Log Fidelity
A4A3R47		21.5K–13.3K	Log Fidelity
A4A3R54	5-19	51.1–133	Sets adjustment range of LG10
A4A3R66	5-19	46.4K–121K	Sets adjustment range of AMPTD
A4A3R74		2.15K–13.3K	Log Fidelity
A4A3R79		26.1K–68.1K	Bandpass Filter Temperature Compensation
A4A3R80		1.0K–2.87K	Bandpass Filter Temperature Compensation

Table 5-3. Factory Selected Components (2 of 5)

Reference Designator	Selection Procedure Paragraph Number	Range of Values (Ω or PF)	Function of Component
A4A3R81		0–OPEN	Bandpass Filter Temperature Compensation
A4A3C51		390–680	Adjusts BPF shape in wide bandwidths (>100 kHz)
A4A3C52	5-19	OPEN OR 5.6–15.0	Sets adjustment range of CTR
A4A3C53	5-19	91–130	Sets adjustment range of CTR
A4A4R16	5-22	3.16K–8.25K	Sets adjustment range of LC DIP
A4A4R20		3.83K–9.09K	Adjusts crystal filter bandwidth
A4A4R40		3.83K–9.09K	Adjusts crystal filter bandwidth
A4A4R45		0–100	Adjusts bandwidth shape in 10 kHz BW
A4A4R60	5-22	3.16K–8.25K	Sets adjustment range of LC DIP
A4A4R64		8.83K–9.09K	Adjusts crystal filter bandwidth
A4A4R65		909–2.73K	Adjusts positive feedback
A4A4C10	5-22	1.0–8.2	Sets adjustment range of SYM
A4A4C17	5-22	91–130	Sets adjustment range of LC CTR
A4A4C38	5-22	1.0–8.2	Sets adjustment range of SYM
A4A4C66	5-22	1.0–8.2	Sets adjustment range of SYM
A4A4C70	5-22	91–130	Sets adjustment range of LC CTR
A4A5R10	5-25	2.37K–6.19K	Sets 18.4 MHz Local Oscillator power
A4A5R62	5-24	1.33K–3.48K	Adjusts A8dB step
A4A5R70	5-24	619–1.62K	Adjusts A4dB step
A4A5R86	5-24	215–OPEN	Adjusts A2dB step
A4A5C7	5-24	9.1–16	Sets adjustment range of FREQ ZERO COARSE
A4A6A2R33		42.2–75.0	Adjusts level of 3 MHz output

Table 5-3. Factory Selected Components (3 of 5)

Reference Designator	Selection Procedure Paragraph Number	Range of Values (Ω or PF)	Function of Component
A4A7C5		56-82	Centers First Pole
A4A7C12	5-21	56-82	Sets adjustment range of Second Pole PK
A4A7C21	5-21	56-82	Sets adjustment range of Third Pole PK
A4A7C30	5-21	56-82	Sets adjustment range of Fourth Pole PK
A4A7C39	5-21	56-82	Sets adjustment range of Fifth Pole PK
A4A7C93	5-21	1.5–12.0	Centers First Pole
A4A7R12		10.0K–17.8K	Adjusts crystal filter bandwidth
A4A7R13		10.0K–17.8K	Adjusts crystal filter bandwidth
A4A7R23		10.0K–17.8K	Adjusts crystal filter bandwidth
A4A7R24		10.0K–17.8K	Adjusts crystal filter bandwidth
A4A7R34		10.0K–17.8K	Adjusts crystal filter bandwidth
A4A7R35		10.0K–17.8K	Adjusts crystal filter bandwidth
A4A7R45		10.0K–17.8K	Adjusts crystal filter bandwidth
A4A7R46		10.0K–17.8K	Adjusts crystal filter bandwidth
A4A7R56		7.50K–13.3K	Adjusts crystal filter bandwidth
A4A7R57		7.50K–13.3K	Adjusts crystal filter bandwidth
A4A7R60	5-24	38.3–68.1	Compensates for gain of A4A6A1
A4A7R66		38.3–68.1	Adjusts crystal filter bandwidth
A4A7R68		100-178	Adjusts crystal filter bandwidth
A4A7R70		383-681	Adjusts crystal filter bandwidth
A4A7R72		1.47K–2.61K	Adjusts crystal filter bandwidth
A4A7R74		38.3–68.1	Adjusts crystal filter bandwidth
A4A7R76		100–178	Adjusts crystal filter bandwidth

Table 5-3. Factory Selected Components (4 of 5)

Reference Designator	Selection Procedure Paragraph Number	Range of Values (Ω or PF)	Function of Component
A4A7R78		383–681	Adjusts crystal filter bandwidth
A4A7R80		1.47K–2.61K	Adjusts crystal filter bandwidth
A4A7R82		38.3–68.1	Adjusts crystal filter bandwidth
A4A7R84		100–178	Adjusts crystal filter bandwidth
A4A7R86		383–681	Adjusts crystal filter bandwidth
A4A7R88		1.47K–2.61K	Adjusts crystal filter bandwidth
A4A7R90		3.83–68.1	Adjusts crystal filter bandwidth
A4A7R92		100–178	Adjusts crystal filter bandwidth
A4A7R94		383–681	Adjusts crystal filter bandwidth
A4A7R96		1.47K–2.61K	Adjusts crystal filter bandwidth
A4A7R98		3.83–68.1	Adjusts crystal filter bandwidth
A4A7R100		100–178	Adjusts crystal filter bandwidth
A4A7R102		383–681	Adjusts crystal filter bandwidth
A4A7R104		1.47K–2.61K	Adjusts crystal filter bandwidth
A4A8R24		0–100	Adjusts bandwidth shape in 10 kHz BW
A4A8R26		3.83K–9.09K	Adjusts crystal filter bandwidth
A4A8R29		909–2.37K	Adjusts LC mode feedback
A4A8R30	5-22	1.96K–5.11K	Sets adjustment range of LC DIP
A4A8R52		3.83K–9.09K	Adjusts crystal filter bandwidth
A4A8R55	5-22	3.16K–8.25K	Sets adjustment range of LC DIP
A4A8C14	5-22	1.0–8.2	Sets adjustment range of SYM
A4A8C35	5-22	91–130	Sets adjustment range of LC CTR
A4A8C43	5-22	1.0–8.2	Sets adjustment range of SYM

Table 5-3. Factory Selected Components (5 of 5)

Reference Designator	Selection Procedure Paragraph Number	Range of Values (Ω or PF)	Function of Component
A4A8C49	5-22	91–130	Sets adjustment range of LC CTR
A4A9R69		196K–348K	Sets 1.4 dB step size
A4A9R70		215K–38.3K	Sets 1 dB step size
A4A9R71		147K–261K	Sets 1.8 dB step size
A10R9		10.0–14.7	Sets gain of Pilot Third Converter
A13R7	Schematic	See Replaceable Parts List	Sets VBG for U11 Nano Processor
A15C10		62–91	Sets oscillator frequency to 10 MHz \pm 75 MHz
A20R19		133–237	Sets gain of Third Converter
A22R113	Schematic	See Replaceable Parts List	Sets U12 input level to match U11 voltage level

Table 5-4. HP Part Numbers of Standard Value Replacement Components (1 of 3)

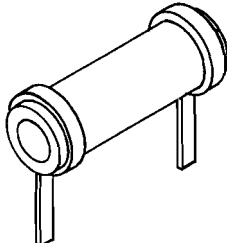

CAPACITORS			
<p>RANGE: 1 to 24 pF TYPE: Tubular TOLERANCE: 1 to 9.1 pF = ± 25 pF 10 to 24 pF = $\pm 5\%$</p>			
		<p>RANGE: 27 to 680 pF TYPE: Dipped Mica TOLERANCE: $\pm 5\%$</p>	
			
Value (pF)	HP Part Number	Value (pF)	HP Part Number
1.0	0160-2236	27	0160-2306
1.2	0160-2237	30	0160-2199
1.5	0160-2238	33	0160-2150
1.8	0160-2239	36	0160-2308
2.0	0160-2240	39	0140-0190
2.2	0160-2241	43	0160-2200
2.4	0160-2242	47	0160-2307
2.7	0160-2243	51	0160-2201
3.0	0160-2244	56	0140-0191
3.3	0160-2245	62	0140-0205
3.6	0160-2246	68	0140-0192
3.9	0160-2247	75	0160-2202
4.3	0160-2248	82	0140-0193
4.7	0160-2249	91	0160-2203
5.1	0160-2250	100	0160-2204
5.6	0160-2251	110	0140-0194
6.2	0160-2252	120	0160-2205
6.8	0160-2253	130	0140-0195
7.5	0160-2254	150	0140-0196
8.2	0160-2255	160	0160-2206
9.1	0160-2256	180	0140-0197
10.0	0160-2257	200	0140-0198
11.0	0160-2258	220	0160-0134
12.0	0160-2259	240	0140-0199
13.0	0160-2260	270	0140-0210
15.0	0160-2261	300	0160-2207
16.0	0160-2262	330	0160-2208
18.0	0160-2263	360	0160-2209
20.0	0160-2264	390	0140-0200
22.0	0160-2265	430	0160-0939
24.0	0160-2266	470	0160-3533
		510	0160-3534
		560	0160-3535
		620	0160-3536
		680	0160-3537

Table 5-4. HP Part Numbers of Standard Value Replacement Components (2 of 3)


RESISTORS					
RANGE: 10 to 464K Ohms TYPE: Fixed-Film WATTAGE: .125 at 125° C TOLERANCE: ±1.0%					
Value (Ω)	HP Part Number	Value (Ω)	HP Part Number	Value (Ω)	HP Part Number
10.0	0757-0346	464	0698-0082	21.5K	0757-0199
11.0	0757-0378	511	0757-0416	23.7K	0698-3158
12.1	0757-0379	562	0757-0417	26.1K	0698-3159
13.3	0698-3427	619	0757-0418	28.7K	0698-3449
14.7	0698-3428	681	0757-0419	31.6K	0698-3160
16.2	0757-0382	750	0757-0420	34.8K	0757-0123
17.8	0757-0294	825	0757-0421	38.3K	0698-3161
19.6	0698-3429	909	0757-0422	42.2K	0698-3450
21.5	0698-3430	1.0K	0757-0280	46.4K	0698-3162
23.7	0698-3431	1.1K	0757-0424	51.1K	0757-0458
26.1	0698-3432	1.21K	0757-0274	56.2K	0757-0459
28.7	0698-3433	1.33K	0757-0317	61.9K	0757-0460
31.6	0757-0180	1.47K	0757-1094	68.1K	0757-0461
34.8	0698-3434	1.62K	0757-0428	75.0K	0757-0462
38.3	0698-3435	1.78K	0757-0278	82.5K	0757-0463
42.2	0757-0316	1.96K	0698-0083	90.9K	0757-0464
46.4	0698-4037	2.15K	0698-0084	100K	0757-0465
51.1	0757-0394	2.37K	0698-3150	110K	0757-0466
56.2	0757-0395	2.61K	0698-0085	121K	0757-0467
61.9	0757-0276	2.87K	0698-3151	133K	0698-3451
68.1	0757-0397	3.16K	0757-0279	147K	0698-3452
75.0	0757-0398	3.48K	0698-3152	162K	0757-0470
82.5	0757-0399	3.83K	0698-3153	178K	0698-3243
90.0	0757-0400	4.22K	0698-3154	196K	0698-3453
100	0757-0401	4.64K	0698-3155	215K	0698-3454
110	0757-0402	5.11K	0757-0438	237K	0698-3266
121	0757-0403	5.62K	0757-0200	261K	0698-3455
133	0698-3437	6.19K	0757-0290	287K	0698-3456
147	0698-3438	6.81K	0757-0439	316K	0698-3457
162	0757-0405	7.50K	0757-0440	348K	0698-3458
178	0698-3439	8.25K	0757-0441	383K	0698-3459
196	0698-3440	9.09K	0757-0288	422K	0698-3460
215	0698-3441	10.0K	0757-0442	464K	0698-3260
237	0698-3442	11.0K	0757-0443		
261	0698-3132	12.1K	0757-0444		
287	0698-3443	13.3K	0757-0289		
316	0698-3444	14.7K	0698-3156		
348	0698-3445	16.2K	0757-0447		
383	0698-3446	17.8K	0698-3136		
422	0698-3447	19.6K	0698-3157		

Table 5-4. HP Part Numbers of Standard Value Replacement Components (3 of 3)

RESISTORS

RANGE: 10 to 1.47M Ohms
 TYPE: Fixed-Film
 WATTAGE: .5 at 125°C
 TOLERANCE: ±1%



Value (Ω)	HP Part Number	Value (Ω)	HP Part Number	Value (Ω)	HP Part Number	Value (Ω)	HP Part Number
10.0	0757-0984	215	0698-3401	4.64K	0698-3348	110K	0757-0859
11.0	0757-0985	237	0698-3102	5.11K	0757-0833	121K	0757-0860
12.1	0757-0986	261	0757-1090	5.62K	0757-0834	133K	0757-0310
13.3	0757-0001	287	0757-1092	6.19K	0757-0196	147K	0698-3175
14.7	0698-3388	316	0698-3402	6.81K	0757-0835	162K	0757-0130
16.2	0757-0989	348	0698-3403	7.50K	0757-0836	178K	0757-0129
17.8	0698-3389	383	0698-3404	8.25K	0757-0837	196K	0757-0063
19.6	0698-3390	422	0698-3405	9.09K	0757-0838	215K	0757-0127
21.5	0698-3391	464	0698-0090	10.0K	0757-0839	237K	0698-3424
23.7	0698-3392	511	0757-0814	12.1K	0757-0841	261K	0757-0064
26.1	0757-0003	562	0757-0815	13.3K	0698-3413	287K	0757-0154
28.7	0698-3393	619	0757-0158	14.7K	0698-3414	316K	0698-3425
31.6	0698-3394	681	0757-0816	16.2K	0757-0844	348K	0757-0195
34.8	0698-3395	750	0757-0817	17.8K	0698-0025	383K	0757-0133
38.3	0698-3396	825	0757-0818	19.6K	0698-3415	422K	0757-0134
42.2	0698-3397	909	0757-0819	21.5K	0698-3416	464K	0698-3426
46.4	0698-3398	1.00K	0757-0159	23.7K	0698-3417	511K	0757-0135
51.1	0757-1000	1.10K	0757-0820	26.1K	0698-3418	562K	0757-0868
56.2	0757-1001	1.21K	0757-0821	28.7K	0698-3103	619K	0757-0136
61.9	0757-1002	1.33K	0698-3406	31.6K	0698-3419	681K	0757-0869
68.1	0757-0794	1.47K	0757-1078	34.8K	0698-3420	750K	0757-0137
75.0	0757-0795	1.62K	0757-0873	38.3K	0698-3421	825K	0757-0870
82.5	0757-0796	1.78K	0698-0089	42.2K	0698-3422	909K	0757-0138
90.0	0757-0797	1.96K	0698-3407	46.4K	0698-3423	1M	0757-0059
100	0757-0198	2.15K	0698-3408	51.1K	0757-0853	1.1M	0757-0139
110	0757-0798	2.37K	0698-3409	56.2K	0757-0854	1.21M	0757-0871
121	0757-0799	2.61K	0698-0024	61.9K	0757-0309	1.33M	0757-0194
133	0698-3399	2.87K	0698-3101	68.1K	0757-0855	1.47M	0698-3464
147	0698-3400	3.16K	0698-3410	75.0K	0757-0856		
162	0757-0802	3.48K	0698-3411	82.5K	0757-0857		
178	0698-3334	3.83K	0698-3412	90.9K	0757-0858		
196	0757-1060	4.22K	0698-3346	100K	0757-0367		

ADJUSTMENTS

5-15. LOW VOLTAGE POWER SUPPLY ADJUSTMENTS

REFERENCE:

A1A6 $\pm 15V$ Regulator
A1A7 +100V, + 5.2V Regulator
A24 Voltage Regulator

DESCRIPTION:

The +15V supply is adjusted for the IF-Display Section and the +20V supply is adjusted for the RF Section. All other low voltage supplies are measured to ensure they are within tolerance.

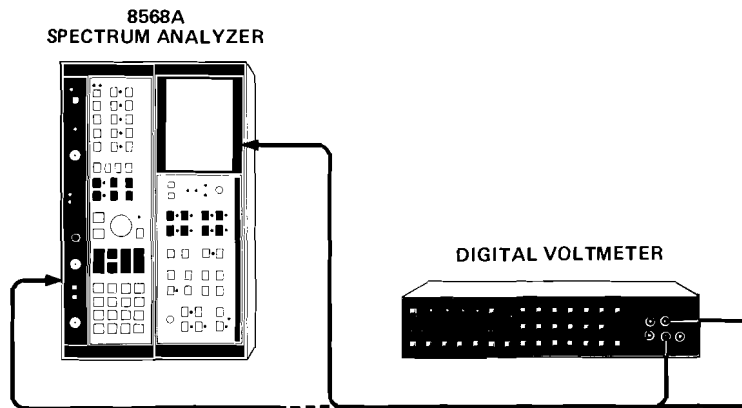



Figure 5-1. Low Voltage Power Supply Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM) HP 3455A

PROCEDURE:

IF- Display Section

1. Position instrument on right side with IF-Display Section facing right as shown in Figure 5-1.
2. Set LINE switch to ON and press  pushbutton.

ADJUSTMENTS

5-15. LOW VOLTAGE POWER SUPPLY ADJUSTMENTS (Cont'd)

3. Connect DVM to A1A6TP2. +15V indicator A1A6DS1 (yellow LED) should be lit.
4. DVM indication should be +15.000 Vdc \pm 0.010 Vdc. If voltage is out of tolerance, adjust A1A6 +15V ADJ A1A6R9 for specified voltage. Location of adjustment is shown in Figure 5-2.

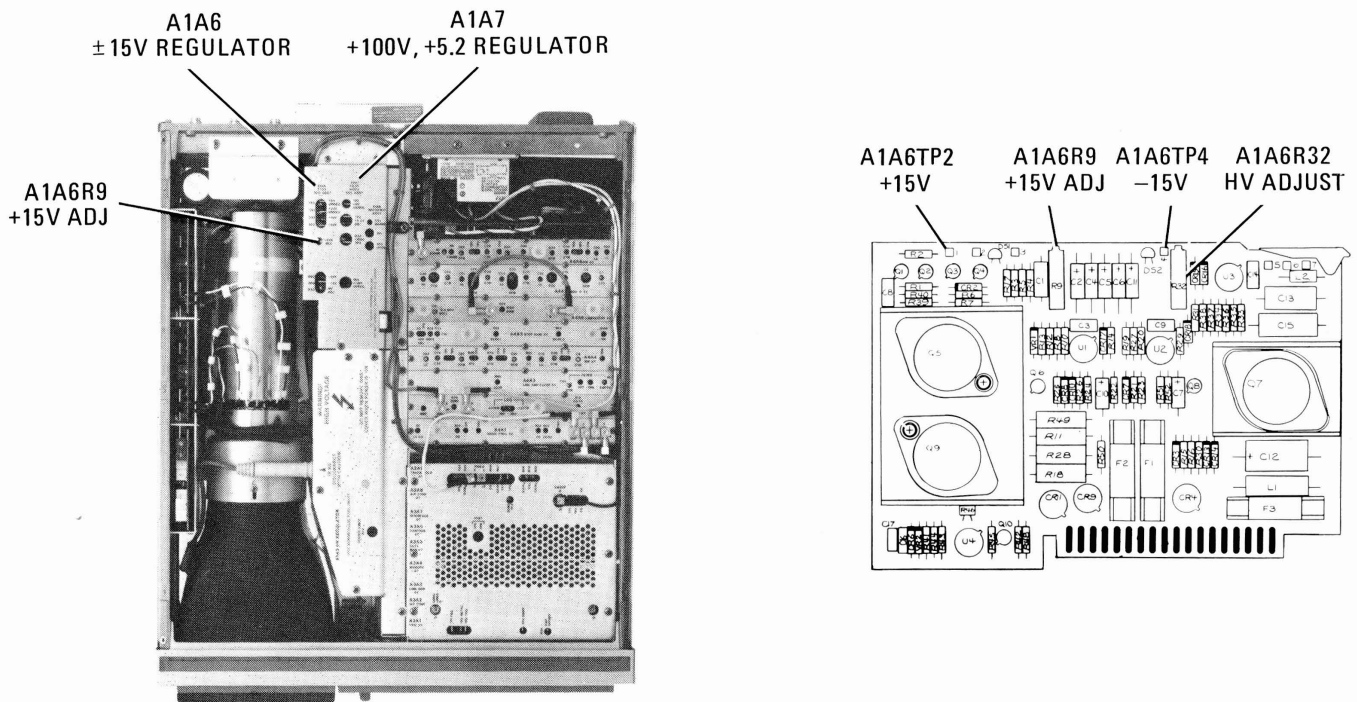


Figure 5-2. Location of IF-Display Section Low Voltage Adjustments

5. Connect DVM to A1A6TP4. -15V indicator A1A6DS2 (yellow LED) should be lit.
6. DVM indication should be -15.000 Vdc \pm 0.050 Vdc. The -15V supply is referenced to the +15V supply, therefore, if -15V supply is out of tolerance, a circuit malfunction is indicated.
7. Connect DVM to A1A7TP3. +100V indicator A1A7DS2 (yellow LED) should be lit.
8. DVM indication should be +100.0 Vdc \pm 2.0 Vdc. The +100V supply is referenced to the +15V supply, therefore, if +100V supply is out of tolerance, a circuit malfunction is indicated.
9. Connect DVM to A1A7TP2. +5.2V indicator A1A7DS1 (yellow LED) should be lit.
10. DVM indication should be +5.200 Vdc \pm 0.050 Vdc. The +5.2V supply is referenced to the +15V supply, therefore, if +5.2 supply is out of tolerance, a circuit malfunction is indicated.

ADJUSTMENTS

5-15. LOW VOLTAGE POWER SUPPLY ADJUSTMENTS (Cont'd)

RF Section

11. Connect DVM to A24TP3; Ground lead to A24TP1. +20V indicator A24DS2 (yellow LED) should be lit.
12. Adjust A24 +20V ADJ A24R60 for DVM indication of $+20.000 \text{ Vdc} \pm 0.010 \text{ Vdc}$. Location of adjustment is shown in Figure 5-3.

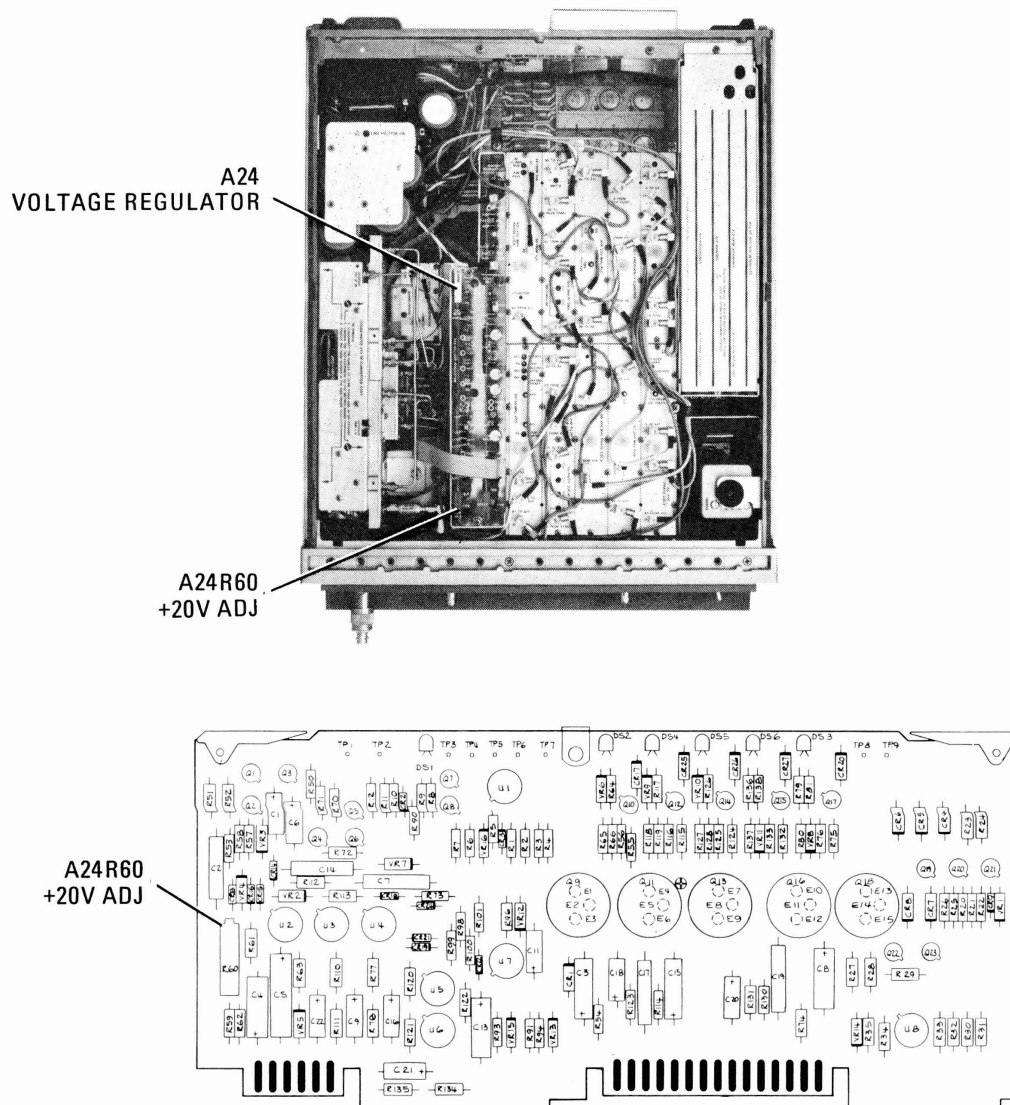


Figure 5-3. Location of RF Section Low Voltage Adjustment

ADJUSTMENTS

5-15. LOW VOLTAGE POWER SUPPLY ADJUSTMENTS (Cont'd)

13. Connect DVM to A24TP2. +15V indicator A24DS4 (yellow LED) should be lit.
14. DVM indication should be $+15.000 \text{ Vdc} \pm 0.050 \text{ Vdc}$. The +15V supply is referenced to the +20V supply, therefore, if the +15V supply is out of tolerance, a circuit malfunction is indicated.
15. Connect DVM to A24TP5. +5V indicator A24DS5 (yellow LED) should be lit.
16. DVM indication should be $+5.230 \text{ Vdc} \pm 0.050 \text{ Vdc}$. The +5V supply is referenced to the +20V supply, therefore, if the +5V supply is out of tolerance, a circuit malfunction is indicated.
17. Connect DVM to A24TP7. -5V indicator A24DS6 (yellow LED) should be lit.
18. DVM indication should be $-5.200 \text{ Vdc} \pm 0.050 \text{ Vdc}$. The -5V supply is referenced to the +20V supply, therefore, if the -5V supply is out of tolerance, a circuit malfunction is indicated.
19. Connect DVM to A24TP4. -15V indicator A24DS3 (yellow LED) should be lit.
20. DVM indication should be $-15.000 \text{ Vdc} \pm 0.050 \text{ Vdc}$. The -15V supply is referenced to the +20V supply, therefore, if the -15V supply is out of tolerance, a circuit malfunction is indicated.

5-16. HIGH VOLTAGE ADJUSTMENT

REFERENCE:

A13 High Voltage Regulator
A1A6 $\pm 15\text{V}$ Regulator
A1A7 +100V, +5.2V Regulator

DESCRIPTION:

A 1000:1 divider probe is used to measure the CRT cathode voltage. First, the accuracy of this high-voltage probe is checked by comparing measurements of the +100 Vdc supply voltage with and without the probe. Any measurement error due to use of the high-voltage probe is calculated into the adjustment specification of the CRT cathode voltage, which is adjusted with the A1A6 HV ADJUST control.

ADJUSTMENTS

5-16. HIGH VOLTAGE ADJUSTMENT (Cont'd)

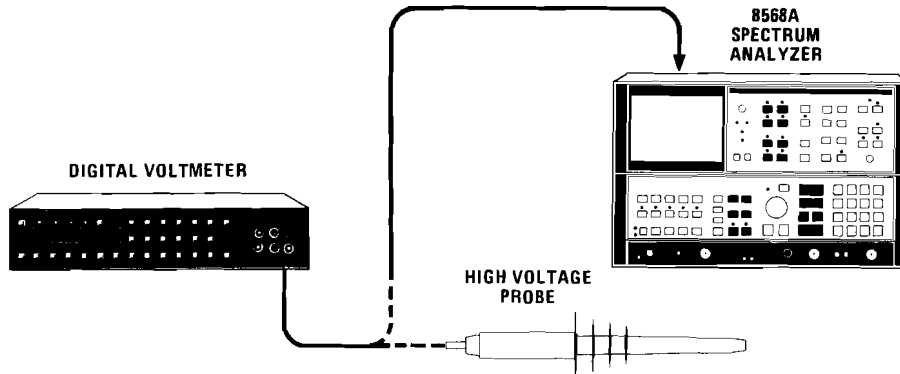



Figure 5-4. High Voltage Adjustment Setup

EQUIPMENT:

Digital Voltmeter (DVM) HP 3455A
DC High-Voltage Probe (1000:1 divider) HP 34111A

PROCEDURE:

1. Position instrument upright as shown in Figure 5-4 with top cover removed.
2. Connect DVM to A1A7TP3 (+100V) without the high-voltage probe. (Refer to Figure 5-4.) Place the DVM on the 100V range. The accuracy of the high-voltage probe is specified connected to a DC Voltmeter with 10M Ω input resistance. The recommended DVM has a 10M Ω input resistance on the 100V range. All measurements in this procedure should be performed with the DVM on the 100V range to ensure greatest accuracy.
3. Set LINE switch to ON and press  pushbutton.
4. Note DVM indication at A1A7TP3.
5. Connect high-voltage probe to the DVM and connect to A1A7TP3.
6. Note DVM indication.
7. Divide the DVM indication in Step 6 by the DVM indication in Step 4. This gives the calibration factor needed to compensate for high-voltage probe error.
8. Disconnect high-voltage probe from A1A7TP3. Set LINE switch to STANDBY. Remove AC Line cord from both instrument sections.

ADJUSTMENTS

5-16. HIGH VOLTAGE ADJUSTMENT (Cont'd)

9. The main power ON indicator (red LED) on the A1A8 Rectifier should be completely OFF before proceeding with this procedure. The indicator will remain lit for several seconds after AC line cord has been removed and will go out slowly (light becomes dimmer until completely out).

WARNING

In the following procedural steps, it is necessary to probe voltages which, if contacted, could cause serious personal injury. Be extremely careful.

10. Remove protective cover from the A1A3 High Voltage Regulator. Refer to Figure 5-5 for location of A1A3.
11. Connect high-voltage probe to A1A3TP3. With power supplied to the instrument, A1A3TP3 is at a voltage level of approximately 4000 Vdc. Be careful. Refer to Figure 5-5 for location of test point.
12. Reconnect AC line cords to both instruments. Set LINE switch to ON.
13. Wait approximately 30 seconds for dc regulator circuits to stabilize.
14. Adjust A1A6 HV ADJUST A1A6R32 for a DVM indication equal to the calibration factor calculated in Step 7 times 4000 Vdc \pm 150 Vdc. Refer to Figure 5-2 for location of adjustment.

EXAMPLE:

If the calibration factor calculated in Step 7 was 0.00099, the lower adjustment limit would be 0.00099×3850 Vdc or 3.3715 Vdc indication on DVM. The upper adjustment limit would be 0.00099×4150 Vdc or 4.1085 Vdc indication on DVM.

15. Set LINE switch to STANDBY. Remove AC Line cord from the rear of each instrument.
16. Wait for the main power ON indicator (red LED) on the A1A8 Rectifier to go completely out before proceeding.
17. Disconnect high-voltage probe from A1A3TP1. Replace protective cover over the A1A3 High Voltage Regulator.
18. Reconnect AC line cords to the rear of each instrument section.

ADJUSTMENTS

5-16. HIGH VOLTAGE ADJUSTMENT (Cont'd)

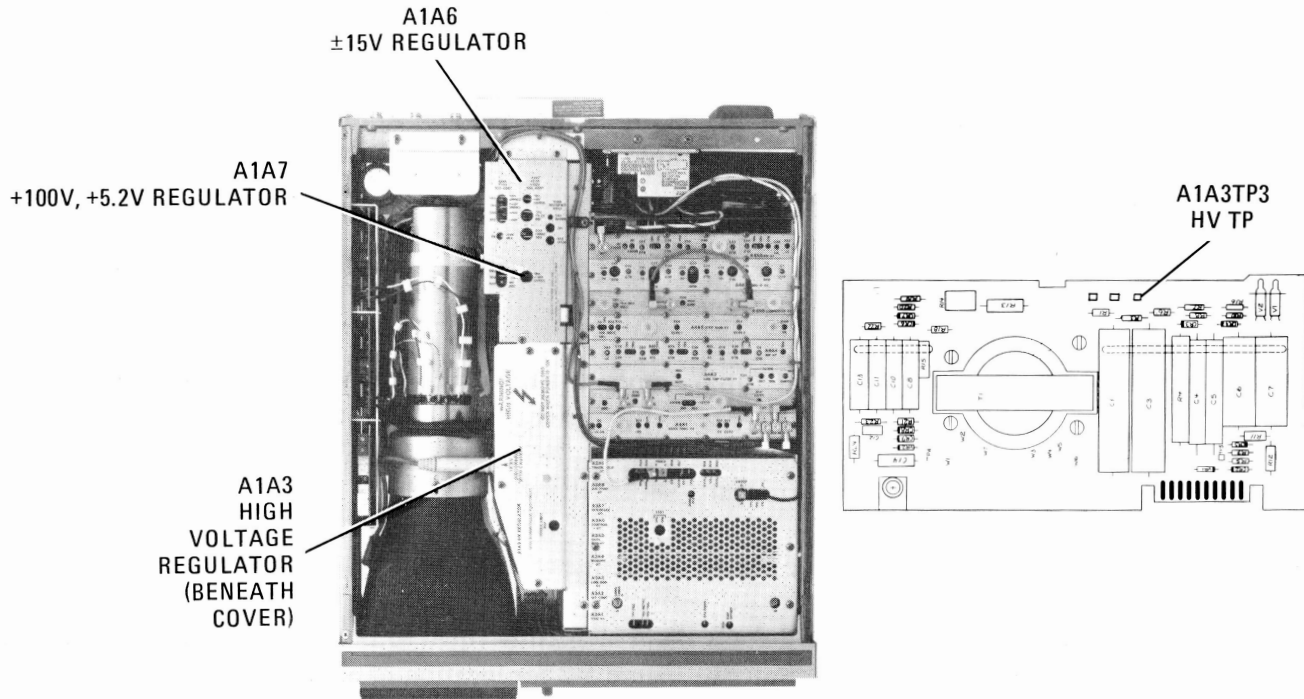


Figure 5-5. Location of High and Low Voltage Regulator Assemblies

5-17. PRELIMINARY DISPLAY ADJUSTMENTS

REFERENCE:

A1A1 Keyboard, A1A2 Z Axis Amplifier
A1A4 X Deflection Amplifier, A1A5 Y Deflection Amplifier

DESCRIPTION:

All adjustments of the display section are performed to adjust the CRT display for proper horizontal, vertical, and intensity characteristics. The preliminary adjustments are included for adjustment of display when major repair has been performed in the display section. For example, replacement or repair of the A1A2 Z Axis Amplifier. If adjustment is being performed as a result of minor repair (replacement of a transistor, for example), or as a routine maintenance procedure, only the final adjustments in paragraph 5-18 need be performed.

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

CAUTION

Be sure not to allow a fixed CRT spot of high intensity to remain on the 8568A Spectrum Analyzr CRT. A fixed spot of high intensity may permanently damage the phosphor coating of the CRT. Monitor the CRT closely during the following adjustment procedures and if a spot occurs, move spot off screen by adjusting either intensity or horizontal or vertical deflection position controls.

A. Calibration of Pulse Generator, Oscilloscope, and Probes

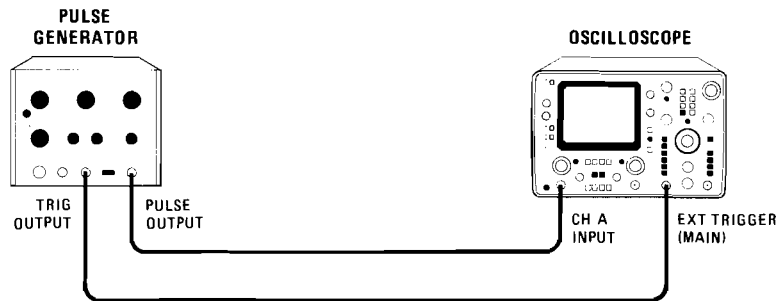


Figure 5-6. Equipment Calibration Setup

EQUIPMENT:

Oscilloscope	HP1741A
Pulse Generator	HP 8002A
10:1 Divider Probe (2 Required)	HP 10004D
Display Adjustment PC Board (Part of Service Accessories)	HP 85662-60088

PROCEDURE:

1. Connect one 10:1 divider probe to the oscilloscope Channel A input and one to the Channel B input.
2. Set oscilloscope controls as follows:

MAIN pushbutton	IN
DLY'D pushbutton	OUT
MIXED pushbutton	OUT
MAIN INT/EXT	INT
MAIN TIME/DIV	.2 msec

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

VOLTS/DIV	
Channel A .....	.2
CAL	Fully clockwise
Channel B .....	.2
CAL	Fully Clockwise

3. Connect Channel A probe to oscilloscope 10V calibrator. Select Channel A display. Adjust probe for optimum square wave display on oscilloscope CRT. Adjust vertical amplifier CAL for a 5 division peak-to-peak display. Disconnect probe from calibrator.
4. Connect Channel B probe to oscilloscope 10V calibrator. Select Channel B display. Adjust probe for optimum square wave display on oscilloscope CRT. Adjust vertical amplifier CAL for a 5 division peak-to-peak display. Disconnect probe from calibrator.

NOTE

**Each probe is now compensated for the input to which it is connected;
do not interchange probes without recalibrating.**

5. Disconnect both 10:1 probes from oscilloscope and using two BNC cables, connect equipment as shown in Figure 5-6.
5. Set instrument controls as follows:

Pulse Generator:

Repetition Rate .....	.3 MHz
Pulse Width	30 nsec
Vernier	Midrange
Rise and Fall Time	10 nsec
Vernier	fully CCW
Amplitude	2.5V
Pulse Polarity	+

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

Oscilloscope:

Main pushbutton	IN
DLY'D pushbutton	OUT
MIXED pushbutton	OUT
Delayed Trigger Level	Fully CCW
Main TIME/DIV	1 μ sec
Vernier	CAL
Trigger Holdoff	Fully CCW
Main INT/EXT	EXT
Main AC/DC	DC
Delay	.05 μ sec
VOLTS/DIV	
Channel A	.5
Trigger	A
All other pushbuttons	OUT

7. Adjust Main Trigger Level for a stable display. Adjust Repetition Rate Vernier so that pulses are approximately 5 divisions (5μ sec) apart.
8. Adjust Amplitude Vernier on pulse generator for a 2V peak-to-peak signal.
9. Adjust Delay dial for an intensified area over the center pulse as shown in Figure 5-7. If intensified area is not visible, decrease intensity of display.

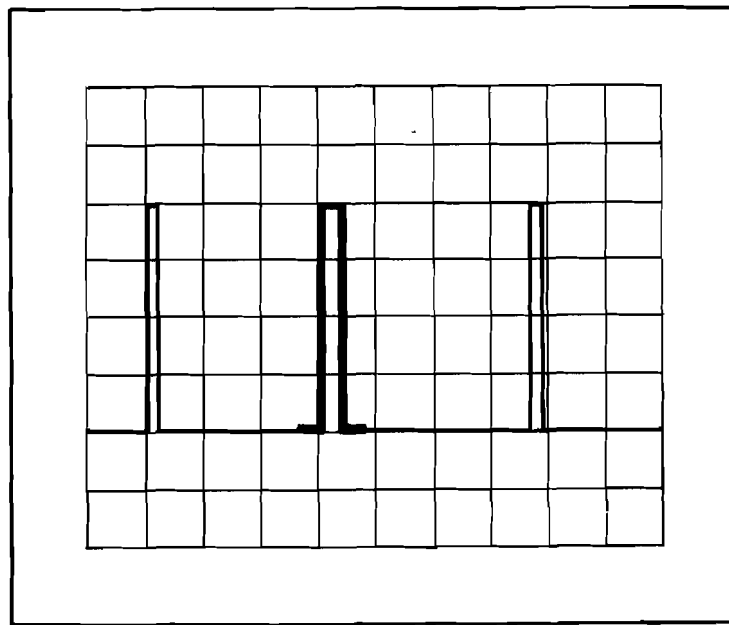


Figure 5-7. Equipment Calibration Waveform

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

10. Push DLY'D pushbutton IN and MAIN pushbutton OUT.
 11. Adjust Delay dial and Horizontal position to set rising edge of pulse on first vertical graticule.
 12. Adjust pulse generator Pulse Width Vernier for a pulse width of 5 division (250 nsec). Remove BNC cables and reconnect 10:1 divider probes to oscilloscope Channel A and Channel B inputs.
- B. X and Y Deflection Amplifier Pulse Response Adjustments

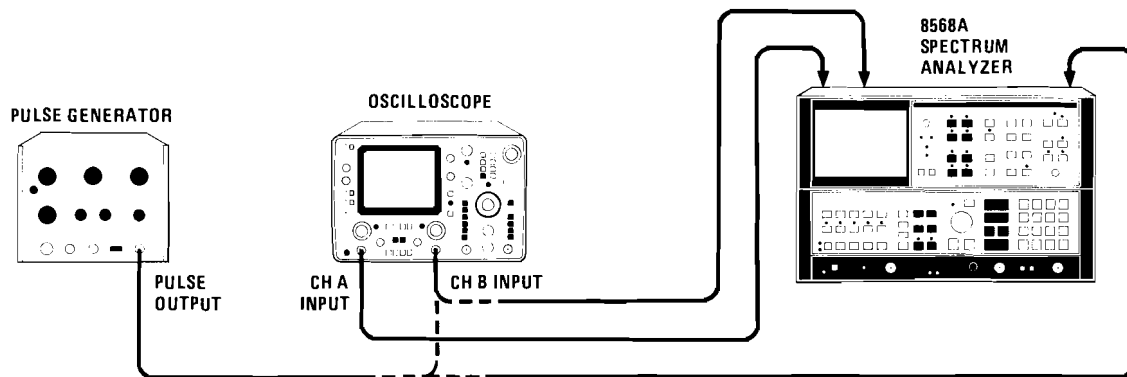



Figure 5-8. Preliminary Display Adjustments Setup

1. Connect Channel A calibrated 10:1 divider probe to A1A4E1 and Channel B probe to A1A4E2 as shown in Figure 5-8.
2. Set oscilloscope controls as follows:

Display	A + B
VOLTS/DIV	
Channel A	1
Channel B	1
3. Remove cover over A3 Digital Storage area and remove A3A2 Intensity Control. Insert Display Adjustment PC Board HP Part Number 85662-60088 in place of A3A2. Install A1A2 Z Axis Amplifier on extender board. Refer to Figure 5-9 for location of A3A2 assembly.
4. Connect output of pulse generator to J1 (X input) on test board.
5. Push Channel B INVERT pushbutton IN. Set all other control settings as listed in step A-6. Set pulse generator controls as listed in step A-6.

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

- Set 8568A Line switch ON and press  pushbutton. Set INTENSITY control fully counterclockwise.
- Adjust A1A4 X POSN A1A4R7 and A1A4 X GAIN A1A4R27 for a full eight division display on oscilloscope as shown in Figure 5-10. Refer to Figure 5-9 for location of adjustments.

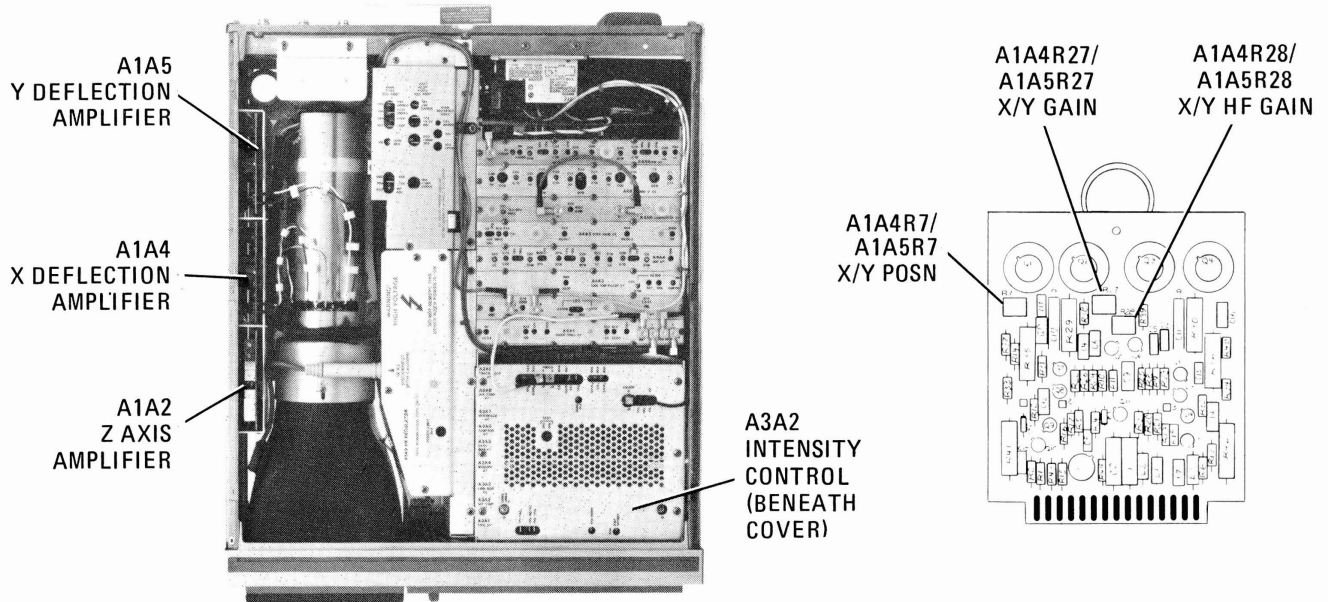


Figure 5-9. Location of X and Y Adjustments

- Measure the rise and fall times between the 10% and 90% points on the display by noting where the trace crosses the first and seventh horizontal graticule lines. Refer to Figure 5-10.
- Adjust A1A4 HF GAIN A1A4R28, A1A4C10, and A1A4C11 for minimum overshoot and rise and fall times.
- Rise and fall times should both be less than 65 nsec between 10% and 90%. Overshoot should be less than 3% (approximately 0.25 divisions).

NOTE

Always adjust A1A4C10 and A1A4C11 approximately equal amounts. Do not adjust one to its minimum value and the other to its maximum value.

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

11. Connect Channel A probe to A1A5E1 and Channel B probe to A1A5E2. Connect output of pulse generator to J2 (Y input) on Display Adjustment PC Board.
12. The A1A5 Y Deflection Amplifier is identical to the A1A4 X Deflection Amplifier. Repeat steps 7 through 10 for the A1A5.

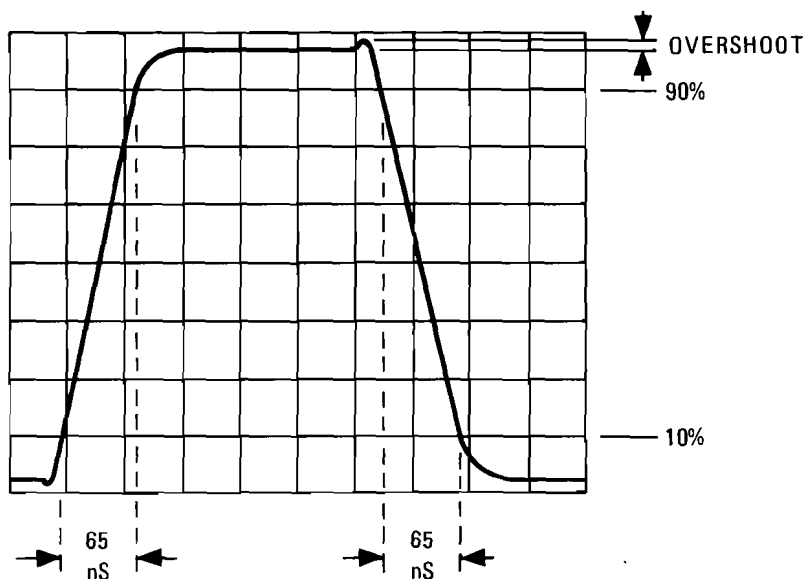


Figure 5-10. Rise and Fall Times and Overshoot Adjustment Waveform

C. Z Axis Amplifier Pulse Response Adjustments

Pulse Response of Control Gate Amplifier to \overline{BLANK} Input

1. Connect Channel A probe to A1A2TP3 (top of A1A2C10). (Refer to Figure 5-11 for location of A1A2C10.) Connect Channel B probe to the output of the pulse generator. Connect output of pulse generator to J3 (Z input) on Display Adjustment PC Board and push switch DOWN.
2. Set oscilloscope controls as follows:

VOLTS/DIV	
Channel A	1
Channel B	1
All other pushbuttons	Same as in Step A-6.

3. Set all pulse generator controls the same as in Step A-6.

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

4. Select Channel B display on oscilloscope. Adjust pulse generator Amplitude Vernier for a 4V peak-to-peak output pulse as indicated on oscilloscope display.
5. Adjust A1A4 X POSN A1A4R7 and A1A5 Y POSN A1A5R7 to place CRT beam off the CRT.
6. Set 8568A INTENSITY control fully clockwise. Select Channel A display on oscilloscope.
7. Note display on oscilloscope CRT. Pulse should be at least 55V peak-to-peak.
8. Adjust oscilloscope VOLTS/DIV Vernier for a full eight division display. Refer to Figure 5-10.
9. Measure the rise and fall times of the pulse between the 10% and 90% points by noting where the trace crosses the first and seventh horizontal graticule lines. Refer to Figure 5-10.
10. Adjust A1A2 HF GAIN A1A2R22 and A1A2C10 for minimum overshoot and minimum rise and fall times. Refer to Figure 5-10. Refer to Figure 5-11 for location of adjustments.
11. Rise and fall times should be less than 30 nsec. Overshoot should be less than 5%.
12. Select Channel B display on oscilloscope. Adjust pulse generator Amplitude Vernier for a pulse of 2.5V peak-to-peak.
13. Select Channel A on oscilloscope. Note pulse display. Pulse should be greater than 55V peak-to-peak.

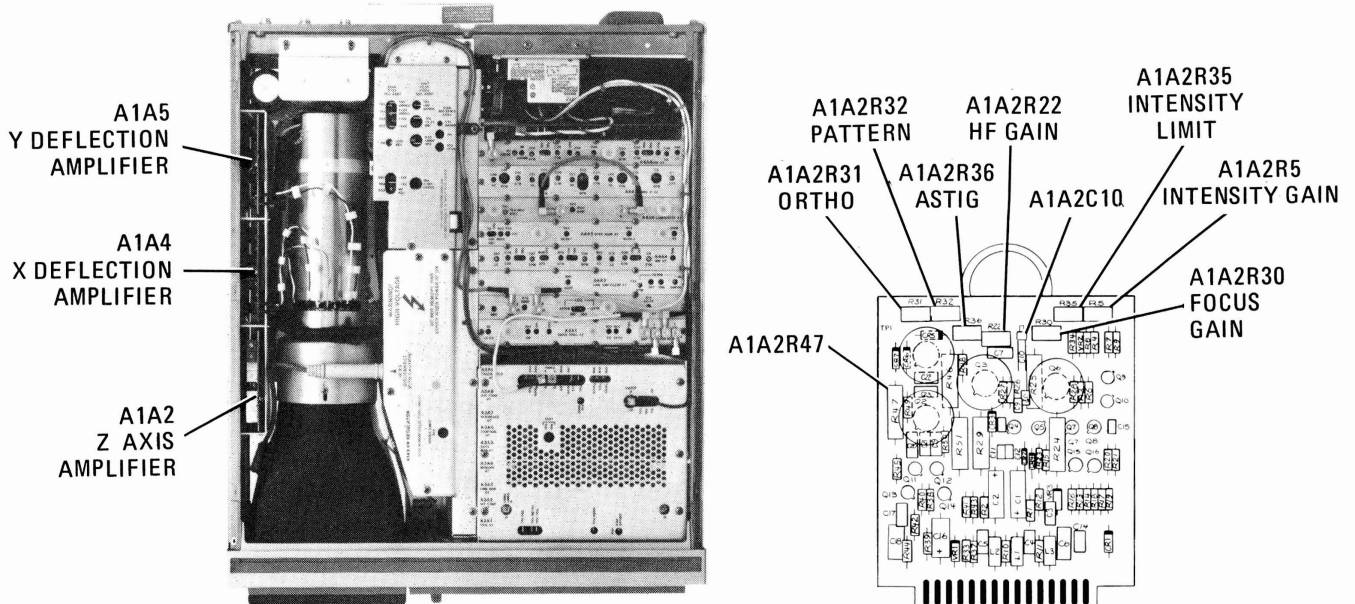


Figure 5-11. Location of Z Adjustments

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

Pulse Response of Z Amplifier to Z Axis Input

14. Set switch on Display Adjustment PC Board UP.
15. Select Channel B display on oscilloscope. Adjust pulse generator Amplitude Vernier for a 2V peak-to-peak pulse output.
16. Select Channel A display on oscilloscope. Note oscilloscope display. The top of the pulse should be at approximately 82V and the peak-to-peak amplitude should be greater than 55V.
17. Adjust VOLTS/DIV Vernier for a full eight divisions display. Refer to Figure 5-10.
18. Measure the rise and fall times of the pulse between 10% and 90% by noting where the trace crosses the first and seventh horizontal graticule lines.
19. Rise and fall times should be less than 100 nsec.
20. Set Channel A VOLTS/DIV to 1 and Vernier to CAL.
21. Set 8568A INTENSITY control fully counterclockwise. Note oscilloscope display.
22. Pulse amplitude should be less than 1V peak-to-peak. DC level of signal should be less than 25V.

Focus Coarse Adjustment

23. Disconnect Channel A probe from A1A2TP3 (A1A2C10) and connect to A1A2TP1 (top of A1A2R47). (Refer to Figure 5-11 for location of A1A2R47.)
24. Adjust 8568A front-panel FOCUS control through its full range while monitoring oscilloscope display. Pulse display should vary from greater than +80V to less than +10V. Reset front-panel FOCUS control to mid-range.
25. Connect Channel A probe to the base of A1A2Q14. Set 8568A front-panel INTENSITY control fully clockwise. Set Oscilloscope VOLTS/DIV to .05.
26. Adjust A1A2 FOCUS GAIN A1A2R30 for a 1V peak-to-peak pulse display on oscilloscope. Refer to Figure 5-11 for location of A1A2R30.
27. Connect Channel A probe to A1A2TP3 (the top of A1A2C10). Oscilloscope display should be an inverted pulse approximately 30V peak-to-peak.
28. Set 8568A front-panel INTENSITY control fully counterclockwise. Connect Channel A probe to A1A2TP2 (top of A1A2R47).
29. Adjust front-panel FOCUS control for a dc level of +50 Vdc on oscilloscope.

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

D. CRT Adjustments

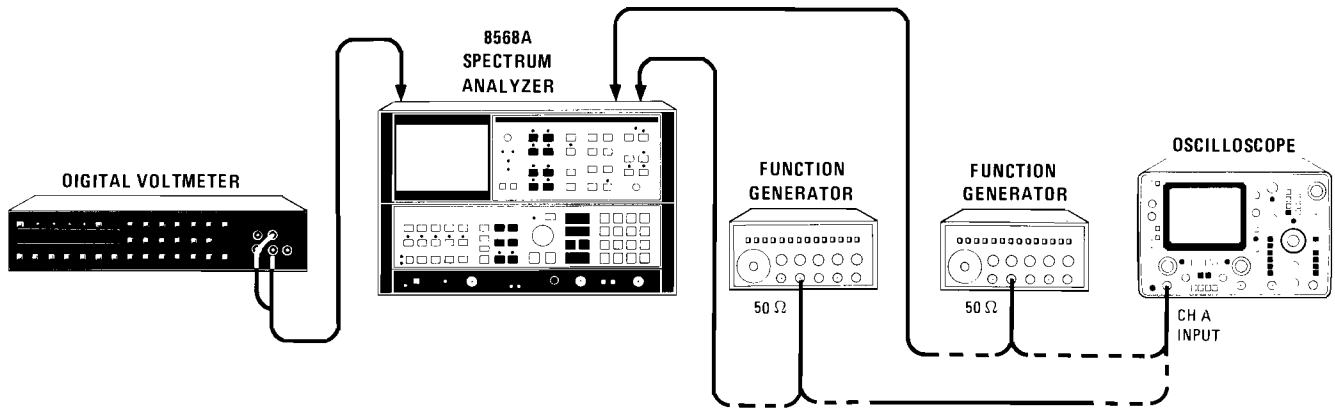


Figure 5-12. CRT Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM)	HP 3455A
Oscilloscope	HP 1741A
Function Generator (2 required)	HP 3312A
Display Adjustments PC Board (Part of Service Accessories) . .	HP 85662-60088

Focus Adjustments

1. Set 8568A front-panel INTENSITY control fully counterclockwise.
2. Adjust A1A2 INTENSITY LIMIT A1A2R35 clockwise until CRT spot is just visible. If adjustment has insufficient range to produce a CRT spot, increase the value of A1A2R9. Refer to Table 5-3 for range of values. Refer to Figure 5-11 for location of adjustment.
3. Center 8568A front-panel INTENSITY control.

WARNING

The connections to A1A3 FOCUS LIMIT adjustment A1A3R14 are at a potential of approximately – 2500 Vdc. Be very careful and use a non-metallic adjusting tool.

4. Adjust A1A2 ASTIG A1A2R36 and A1A3 FOCUS LIMIT A1A3R14 for a sharp, focused CRT spot. Refer to Figure 5-11 for location of adjustments.

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

Intensity Adjustment

5. Set switch on Display Adjustment PC Board DOWN. Disconnect Pulse Generator from J3.
6. Adjust A1A4 X POSN A1A4R7 to position CRT spot off screen.
7. Set front-panel INTENSITY control fully clockwise.
8. Connect DVM to A1A2P1 Pin 18; note DVM indication.
9. Connect DVM to A1A2P1 Pin 17.
10. Adjust A1A2 INTENSITY GAIN A1A2R5 for DVM indication equal to that noted in Step 7. If same value cannot be achieved, set as close as possible. Refer to Figure 5-11 for location of adjustment.
11. Set switch on Display Adjustment PC Board UP.

Horizontal Adjustments

12. Connect function generator output to oscilloscope input. Adjust function generator output for a 500 kHz, 2V peak-to-peak sine wave signal.
13. Disconnect function generator from oscilloscope and connect to J1 (X input) on Display Adjustment PC Board.
14. Adjust front-panel INTENSITY control for a convenient level.
15. Adjust front-panel ALIGN for a horizontal trace.
16. Adjust A1A4 X GAIN A1A4R27 and A1A4 X POSN A1A4R7 to set the horizontal trace to the approximate position shown in Figure 5-13. Refer to Figure 5-9 for location of adjustments.

Vertical Adjustments

17. Remove function generator from J1 on Display Adjustment PC Board and connect to J2 (Y input).
18. Adjust A1A2 ORTHO A1A2R31 for a vertical trace. Refer to Figure 5-11 for location of adjustment.
19. Adjust A1A5 Y GAIN A1A5R27 and A1A5 Y POSN A1A5R7 to set the vertical trace to the approximate position shown in Figure 5-13. Refer to Figure 5-9 for location of adjustments.

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

Pattern Adjustments

20. Disconnect Function generator from Display Adjustment PC Board J2 and reconnect to J1.
21. Connect another function generator output to oscilloscope input and adjust output for a 1 kHz, 2V peak-to-peak sine wave signal. Disconnect function generator from oscilloscope and connect to Display Adjustment PC Board J2. Set switch DOWN.
22. Adjust A1A2 PATTERN A1A2R32 for best rectangular display. Display should not exhibit pin cushioning or barreling. Refer to Figure 5-14. It may be necessary to readjust A1A2 ORTHO A1A2R31 and front-panel ALIGN to achieve optimum rectangular display. Refer to Figure 5-11 for locaiton of adjustments.
23. Set LINE switch to STANDBY. Remove AC Line cord from rear of each instrument.
24. Replace A1A2 Z Axis Amplifier in instrument without extender board.
25. Disconnect function generators from Display Adjustment PC Board. Remove PC Board and replace A3A2 Intensity Control in instrument.
26. Connect AC Line cord to rear of each instrument section. Set LINE switch to ON.
27. It may be necessary at this time to readjust horizontal and vertical gain and position adjustments to optimize the CRT display. When complete, display (graticule and annotation) should fill entire screen.

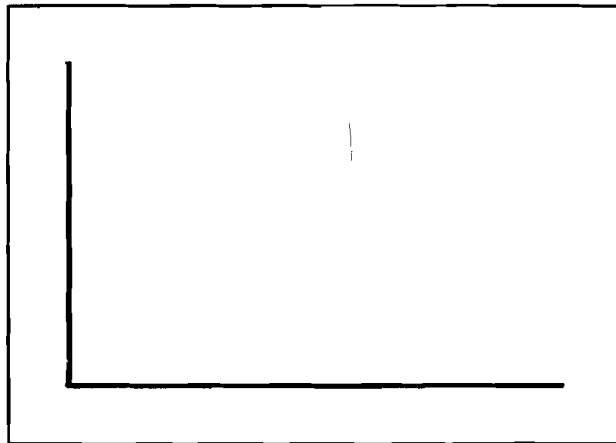
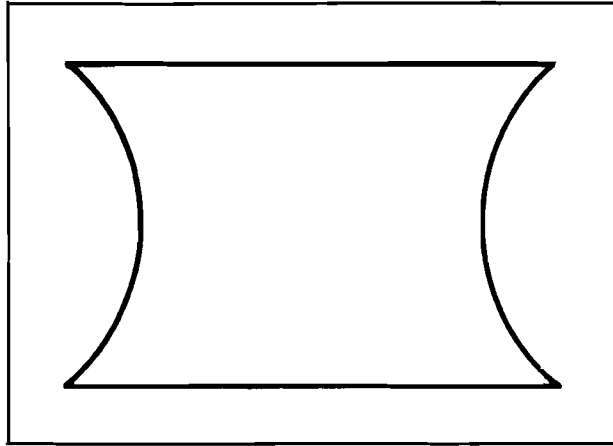


Figure 5-13. X and Y Deflection Adjustment Waveform

ADJUSTMENTS

5-17. PRELIMINARY DISPLAY ADJUSTMENTS (Cont'd)

Pin Cushioning



Barreling

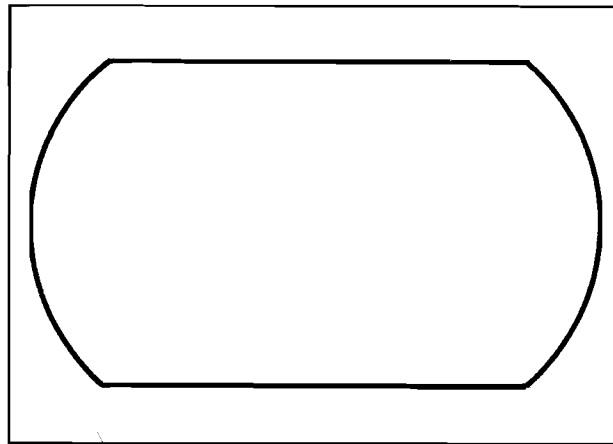


Figure 5-14. Examples of Pin Cushioning and Barreling

5-18. FINAL DISPLAY ADJUSTMENTS

REFERENCE:

A1A1 Keyboard, A1A2 Z Axis Amplifier
A1A4 X Deflection Amplifier, A1A5 Y Deflection Amplifier

DESCRIPTION:

This procedure is used to perform fine adjustment of the CRT display. First, the display is adjusted for best focus over the full CRT then the graticule is adjusted for optimum rectangular display.

ADJUSTMENTS

5-18. FINAL DISPLAY ADJUSTMENTS (Cont'd)

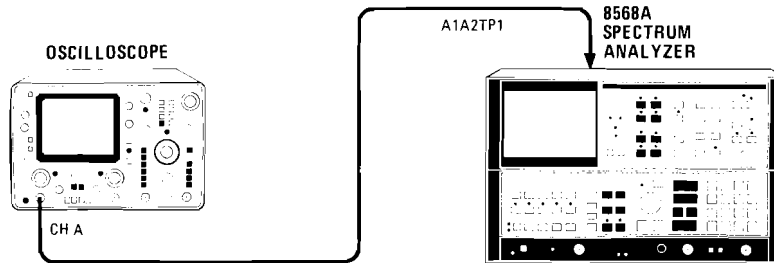


Figure 5-15. Final Display Adjustments Setup

EQUIPMENT:

Oscilloscope..... HP 1741A

PROCEDURE:

1. Remove top cover from instrument. Set LINE switch to ON and press **INSTR PRESET** pushbutton.
2. Key in TRACE A **BLANK** , **SHIFT** **FREQ COUNT** .0123456789. Signal trace should be blanked and CRT annotation in active function region should indicate COUNTER RESOLN .0123456789. This annotation in the active function region is used in adjusting the display for optimum focus. See Figure 5-16.
3. Adjust front-panel FOCUS for clear, sharp characters in the active function region.
4. Note graticule lines. If graticule lines appear to be out of focus, connect oscilloscope to A1A2TP1 (top of A1A2R47) as shown in Figure 5-15.

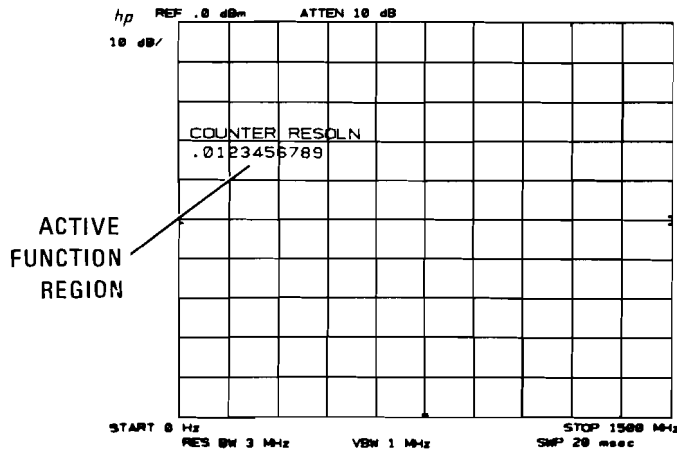


Figure 5-16. 8568A CRT Display for Final Display Adjustments

ADJUSTMENTS

5-18. FINAL DISPLAY ADJUSTMENTS (Cont'd)

5. Oscilloscope display should be similar to that shown in Figure 5-17.
6. Note dc level and peak-to-peak offset of waveform.
7. Adjust A1A2 FOCUS GAIN A1A2R30 for a larger peak-to-peak deviation in pulse on oscilloscope display. Refer to Figure 5-18 for location of adjustment.
8. Adjust front-panel FOCUS control to reset dc level of oscilloscope display to the value noted in Step 6.
9. CRT annotation in active function region should be focused. If not, adjust front-panel FOCUS control to focus characters.

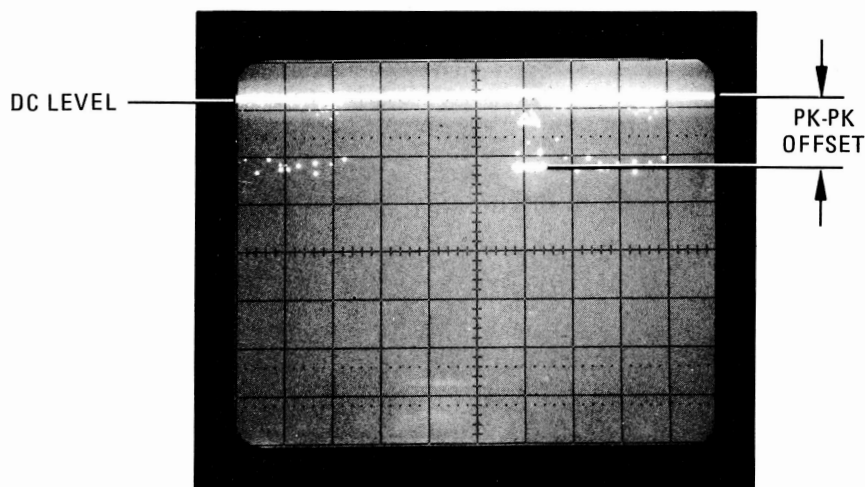


Figure 5-17. FOCUS GAIN Adjustment Waveform

10. Note focus of graticule lines. If graticule lines appear to be more in focus than before (Step 4), adjustment of A1A2 FOCUS GAIN in Step 7 was in the proper direction. If so, repeat Steps 6 through 9 until CRT annotation in active function region and graticule lines are both in focus.
11. If graticule lines appear to be less in focus than before, adjustment of A1A2 FOCUS GAIN was in the wrong direction. Repeat Steps 6 through 9, adjusting A1A2 FOCUS GAIN A1A2R30 for a smaller peak-to-peak deviation of pulse on oscilloscope display, until CRT annotation in active function region and graticule lines are both in focus.
12. Adjust A1A4 X GAIN A1A4R27, A1A4 X POSN A1A4R7, A1A5 Y GAIN A1A5R27, and A1A5 Y POSN A1A5R7 for optimum rectangular display of graticule on CRT. Refer to Figure 5-18 for location of adjustments.

ADJUSTMENTS

5-18. FINAL DISPLAY ADJUSTMENTS (Cont'd)

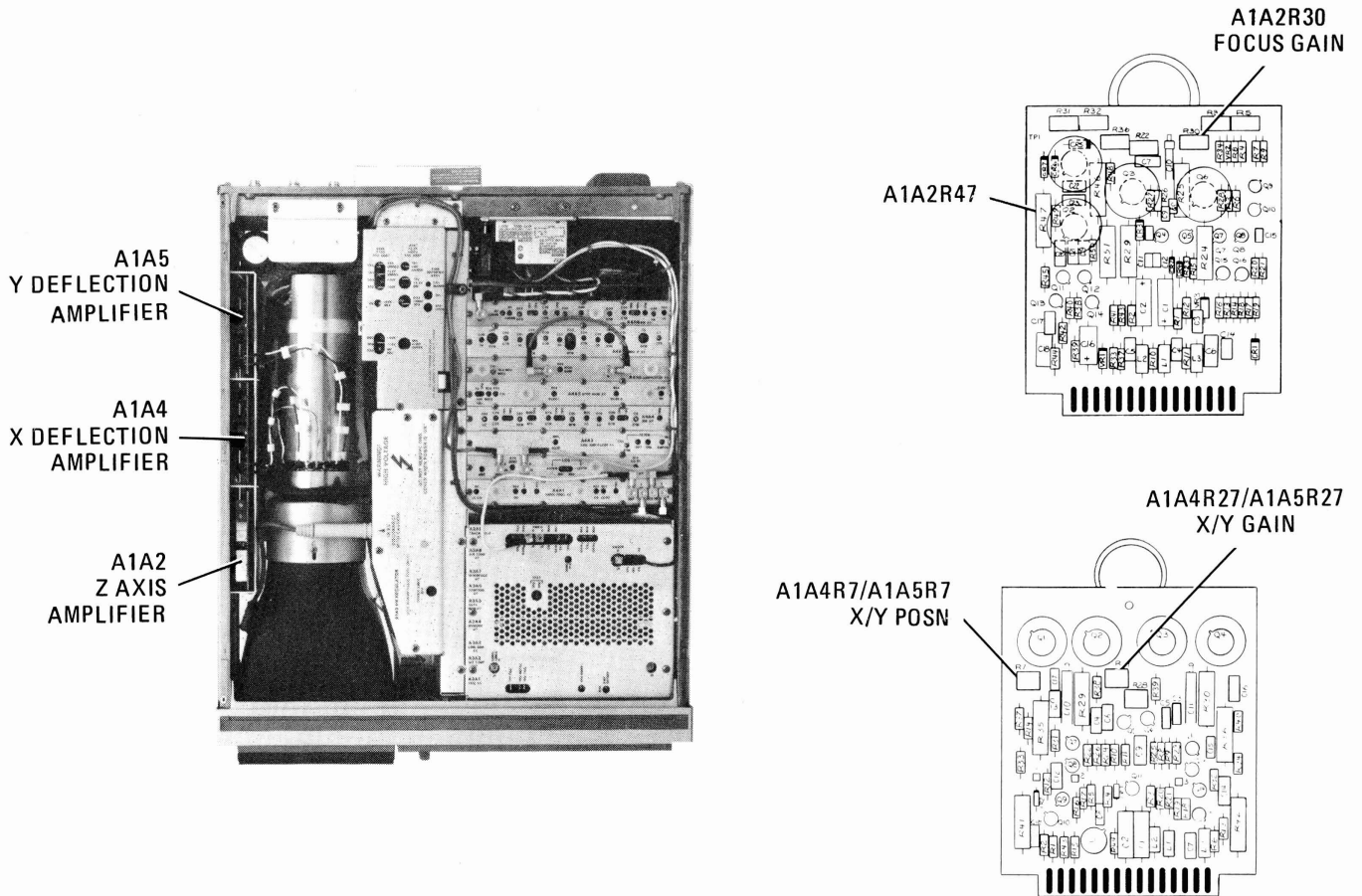


Figure 5-18. Location of Final Display Adjustments

5-19. LOG AMPLIFIER ADJUSTMENTS

REFERENCE:

A4A3 Log Amplifier—Filter
A4A2 Log Amplifier—Detector

RELATED PERFORMANCE TESTS:

Amplitude Fidelity Test

ADJUSTMENTS

5-19. LOG AMPLIFIER ADJUSTMENTS (Cont'd)

DESCRIPTION:

First, the A4A2 Log Amplifier–Detector ZERO adjustment is adjusted for zero volts DVM indication then the A4A3 Log Amplifier–Filter is set for center frequency by injecting a signal and adjusting the Bandpass Filter center adjustment for maximum DVM indication. The Bandpass Filter amplitude is adjusted by monitoring the output of the filter with a DVM and adjusting the amplitude for the same DVM indication with the log amplifier filter control line shorted to the +15V supply and not shorted. Next, log fidelity (gain and offset of the log curve) is adjusted by adjusting the –12 VTV and the PIN diode attenuator. Last, the linear gain step adjustments are performed to set the proper amount of step gain in the linear mode of operation.

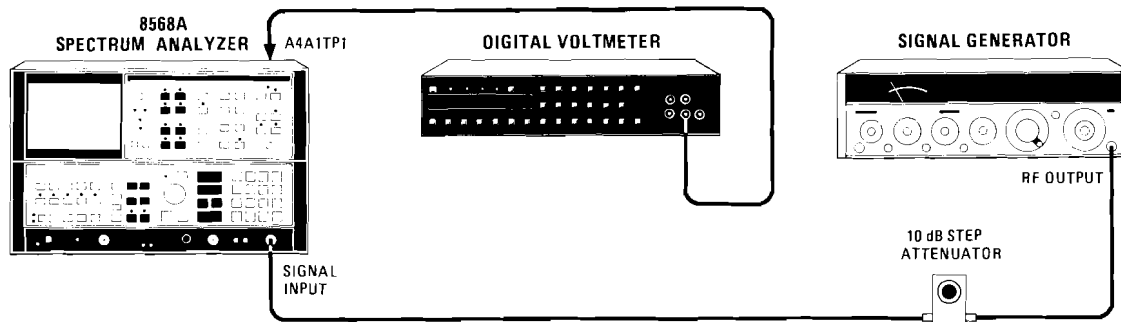


Figure 5-19. Log Amplifier Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM)	HP 3455A
10-dB Step Attenuator	HP 355D, Option H89
Signal Generator	HP 8640B

PROCEDURE:

1. Position instrument upright as shown in Figure 5-19 with top cover removed.
2. Set LINE switch to ON and press pushbutton.
3. Key in 7.6 MHz +10 dBm, 0 Hz, 3 kHz, and press LIN pushbutton.

ADJUSTMENTS


5-19. LOG AMPLIFIER ADJUSTMENTS (Cont'd)

4. Connect DVM to A4A1TP1. Do not connect signal to SIGNAL INPUT.

Offset Adjustment

5. Adjust A4A2 ZERO A4A2R79 for $0.0000 \text{ Vdc} \pm 0.0005 \text{ Vdc}$. Refer to Figure 5-20 for location of adjustment.

Bandpass Filter Center Adjustment

6. Press LOG  pushbutton.
7. Set Signal Generator for $7.6000 \text{ MHz} \pm 0.0001 \text{ MHz}$ at $+5.0 \text{ dBm} \pm 0.5 \text{ dB}$ output and connect to 8568A SIGNAL INPUT.
8. Adjust A4A3 CTR A4A3C55 for maximum DVM indication. Refer to Figure 5-20 for location of adjustment. If unable to achieve a "peak" indication, increase or decrease value of A4A3C52 and A4A3C53. Refer to Table 5-3 for range of values.

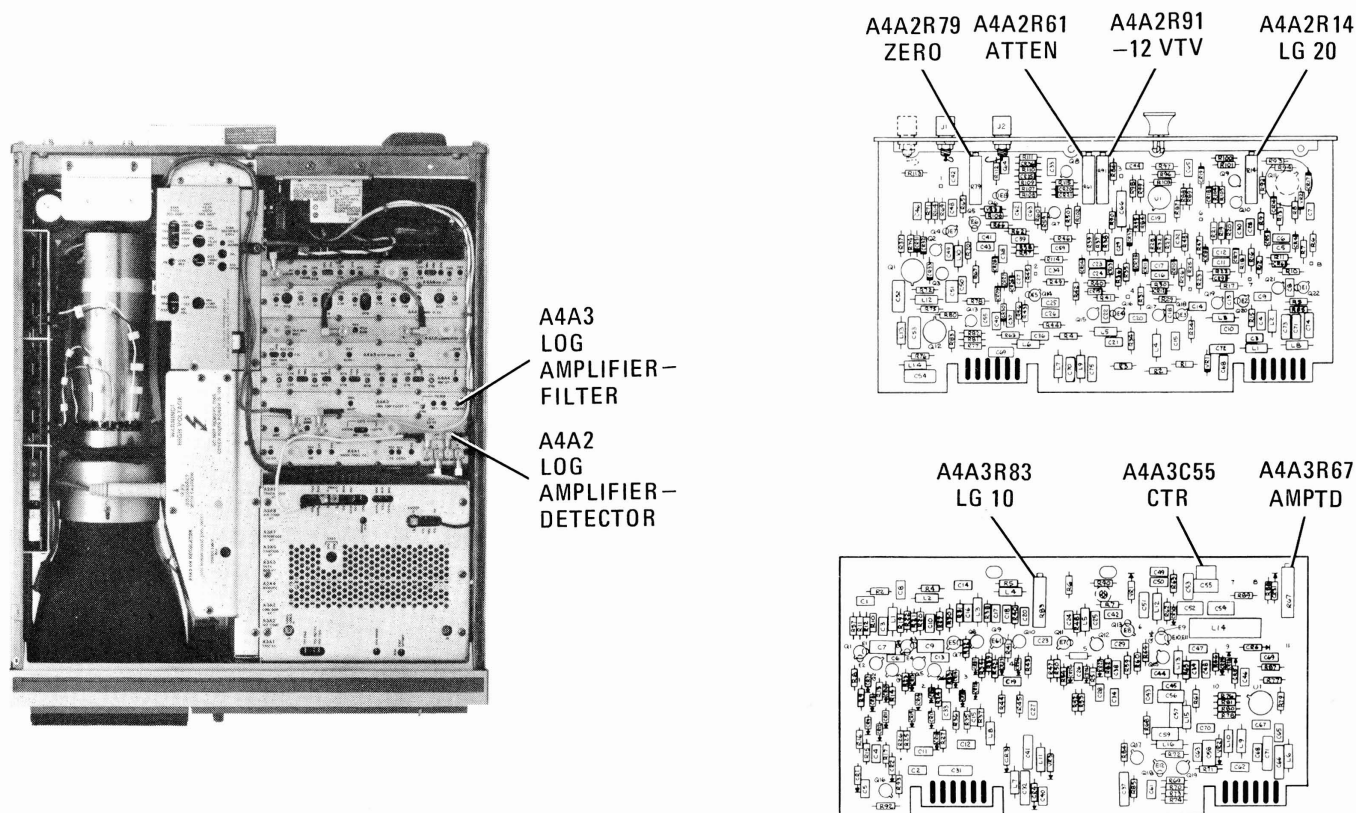


Figure 5-20. Location of Log Amplifier Adjustments


ADJUSTMENTS

5-19. LOG AMPLIFIER ADJUSTMENTS (Cont'd)

Bandpass Filter Amplitude Adjustment

9. Short A4A3TP7 to A4A3TP8 with a jumper wire. Note DVM indication.
10. Remove short from between A4A3TP7 and A4A3TP8.
11. Adjust A4A3 AMPTD A4A3R67 for DVM indication the same as that noted in Step 9 ± 0.0005 Vdc. Refer to Figure 5-20 for location of adjustment. If unable to adjust AMPTD for proper indication, increase or decrease value of A4A3R66. Refer to Figure 5-20 for location of adjustment. If unable to adjust AMPTD for proper indication, increase or decrease value of A4A3R66. Refer to Table 5-3 for range of values.
12. Repeat Steps 9 through 11 until DVM indication is the same ± 0.0005 Vdc with A4A3TP7 shorted to A4A3TP8 and with A4A3TP7 and A4A3TP8 not shorted.

-12 VTV and ATTEN Adjustments

13. Connect 10-dB Step Attenuator between Signal Generator and 8568A SIGNAL INPUT. Set Attenuator to 0 dB.
14. Press LIN pushbutton.
15. Adjust Signal Generator output level for DVM indication of $+1.000$ Vdc ± 0.002 Vdc.
16. Press LOG  pushbutton.
17. Set Step Attenuator for 70 dB attenuation.
18. Adjust A4A2 - 12 VTV A4A2R91 for DVM indication of $+300$ mVdc ± 1 mVdc. Refer to Figure 5-20 for location of adjustment.
19. Set Step Attenuator for 0 dB attenuation.
20. Adjust A4A2 ATTEN A4A2R61 for DVM indication of $+1.000$ Vdc ± 0.001 Vdc. Refer to Figure 5-20 for location of adjustment. If unable to adjust ATTEN for proper indication, increase or decrease value of A4A2R62. Refer to Table 5-3 for range of values.
21. Repeat Steps 17 through 20 until specifications of Steps 18 and 20 are achieved without further adjustment.

ADJUSTMENTS

5-19. LOG AMPLIFIER ADJUSTMENTS (Cont'd)

Linear Gain Adjustments

22. Press LIN pushbutton. DVM indication at A4A1TP1 should be $+1.000 \text{ Vdc} \pm 0.020 \text{ Vdc}$ ($+0.980$ to $+1.020 \text{ Vdc}$). If indication is not within this range, repeat steps 13 through 21. If indication is within this range, key in 0 dBm, set Step Attenuator to 10 dB, then adjust Signal Generator output level for DVM indication of $+1.000 \text{ Vdc} \pm 0.001 \text{ Vdc}$.
23. Key in . This disables IF Step Gains.
24. Verify at 10 dB. Key in -60 dB. Set Step Attenuator to 20 dB.
25. Adjust A4A3 LG10 A4A3R83 for DVM indication of $+1.000 \text{ Vdc} \pm 0.010 \text{ Vdc}$. Refer to Figure 5-20 for location of adjustment. If unable to adjust LG10 for proper indication, increase or decrease value of A4A3R54. Refer to Table 5-3 for range of values.
26. Set Step Attenuator for 30 dB attenuation.
27. Key in -70 dB.
28. Adjust A4A2 LG20 A4A2R14 for DVM indication of $+1.000 \text{ Vdc} \pm 0.010 \text{ Vdc}$. Refer to Figure 5-20 for location of adjustment. If unable to adjust LG20 for proper indication, increase or decrease value of A4A2R18. Refer to Table 5-3 for range of values.
29. Press pushbutton to re-enable IF Step Gains.

5-20. VIDEO PROCESSOR ADJUSTMENTS

REFERENCE:

A4A1 Video Processor

RELATED PERFORMANCE TEST:

Log Scale Switching Uncertainty Test

DESCRIPTION:

The CAL OUTPUT signal is connected to the SIGNAL INPUT through a step attenuator. The instrument is placed in zero frequency span to produce a dc level output from the log amplifier and this dc level is regulated by regulating the input signal level and reference level. The offsets and gains on the A4A1 Video Processor are adjusted for proper levels using a DVM.

ADJUSTMENTS

5-20. VIDEO PROCESSOR ADJUSTMENTS (Cont'd)

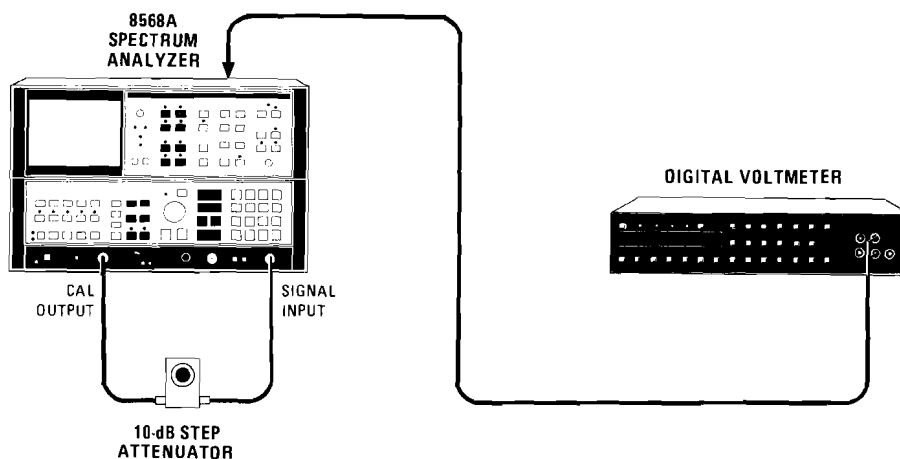


Figure 5-21. Video Processor Adjustments Setup

EQUIPMENT:




Digital Voltmeter (DVM) HP 3455A
10-dB Step Attenuator HP 355D

PROCEDURE:

1. Position instrument upright as shown in Figure 5-15 and remove top cover.
2. Set LINE switch to ON and press **INSTR PRESET** pushbutton.
3. Connect DVM to A4A1TP1.
4. Connect CAL OUTPUT to SIGNAL INPUT through 10-dB step attenuator.
5. Key in **CENTER FREQUENCY** 20 MHz and **FREQUENCY SPAN** 0 Hz. Press LIN.
6. Set step attenuator to 120 dB. DVM indication should be 0.000 Vdc \pm 0.001 Vdc.
7. Connect DVM to A4A1TP2.
8. Adjust A4A1 OS A4A1R14 for DVM indication of -5.000 Vdc \pm 0.003 Vdc. Refer to Figure 5-22 for location of adjustment.
9. Connect DVM to A4A1TP1.

ADJUSTMENTS

5-20. VIDEO PROCESSOR ADJUSTMENTS (Cont'd)

10. Set step attenuator to 0 dB.
11. Key in  and adjust DATA knob for DVM indication as close to +1.000 Vdc \pm 0.001 Vdc as possible. Press  key and, using step down key , decrease resolution bandwidth until DVM indication is +1.000 Vdc \pm 0.001 Vdc.
12. Connect DVM to A4A1TP3.
13. Adjust A4A1 FS A4A1R36 for DVM indication of +2.000 VDC \pm 0.001 Vdc. Refer to Figure 5-22 for location of adjustment.
14. Set step attenuator to 120 dB.
15. Adjust A4A1 ZERO A4A1R32 for DVM indication of 0.000 Vdc \pm 0.001 Vdc. Refer to Figure 5-22 for location of adjustment.

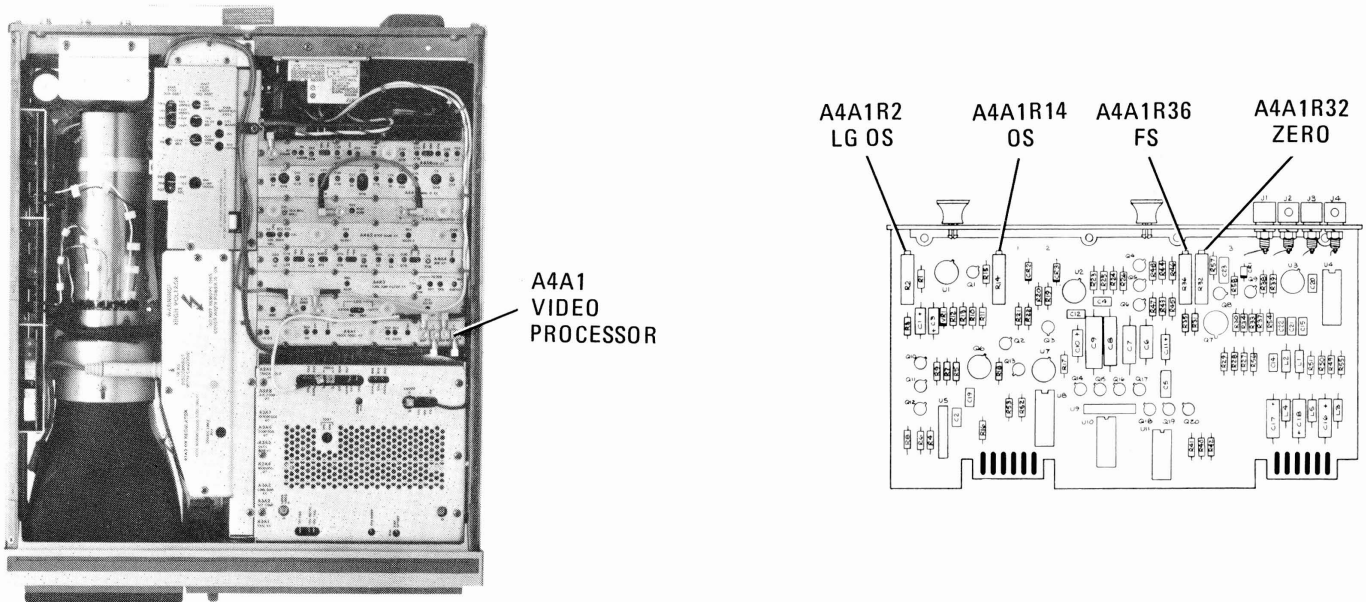






Figure 5-22. Location of Video Processor Adjustments

16. Set step attenuator to 0 dB.
17. Repeat Steps 13 through 16 until specifications of Steps 13 and 15 are met.
18. Set step attenuator to 40 dB.
19. Key in LOG ,  LOG ,  - 50 dB.

ADJUSTMENTS

5-20. VIDEO PROCESSOR ADJUSTMENTS (Cont'd)

20. Connect DVM to A4A1TP1. Record DVM indication. Indication should be approximately +0.500 Vdc.
21. Decrease reference level to -60 dB using the step key.
22. Adjust A4A1 LG OS A4A1R2 for DVM indication of +0.100 Vdc \pm 0.001 Vdc greater than the DVM indication recorded in Step 20. Refer to Figure 5-22 for location of adjustment.
23. Decrease reference level to -70 dB using the step key.
24. DVM indication should be +0.200 Vdc \pm 0.002 Vdc greater than the DVM indication recorded in Step 20. If not, readjust A4A1 LG OS A4A1R2.
25. Decrease reference level to -90 dB using the step key.
26. DVM indication should be +0.400 Vdc \pm 0.004 Vdc greater than the indication recorded in Step 20. If not, readjust A4A1 LG OS A4A1R2.
27. Repeat Steps 21 through 26 until specifications of Steps 22, 24, and 26 are met.

5-21. 3 MHz BANDWIDTH FILTER ADJUSTMENTS

REFERENCE:

A4A7 3 MHz Bandwidth Filter

RELATED PERFORMANCE TEST:

Resolution Bandwidth Switching Uncertainty Test
Resolution Bandwidth Selectivity Test

DESCRIPTION:

A stable 21.4 MHz (IF Frequency) signal is input to the IF section of the instrument from a tracking generator. Each of the first four stages of the 3 MHz Bandwidth Filter is peaked in a 10 Hz bandwidth using an oscilloscope display. The last stage is peaked using the CRT display of the 8568A Spectrum Analyzer. The tracking generator output is then disconnected from the IF section of the instrument, the original cable reconnected, and the CAL OUTPUT signal connected to the SIGNAL INPUT. Each of the five stages of the 3 MHz Bandwidth Filter is then adjusted for center and symmetry. Four crystal filter bypass networks are required for alignment of the filter stages. Refer to Figure 5-71 for information concerning the bypass networks.

ADJUSTMENTS

5-21. 3 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

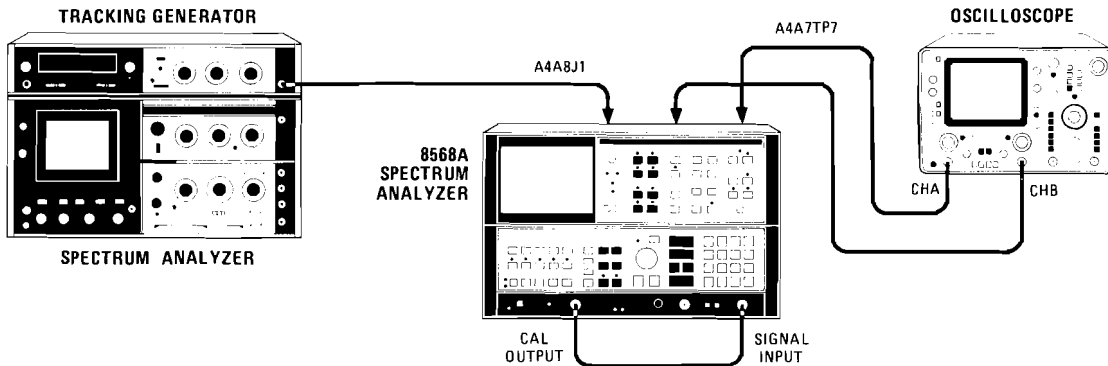


Figure 5-23. 3 MHz Bandwidth Filter Adjustments Setup

EQUIPMENT:

Spectrum Analyzer/Tracking Generator HP 141T/8552B/8553B/8443A
Oscilloscope HP 1741A
Crystal Filter Bypass Network (4 required) Refer to Figure 5-71
Test Cable: BNC to SMB snap-on Part of Service Accessories

PROCEDURE:

1. Position instrument upright as shown in Figure 5-23 and remove top cover.
2. Set LINE switch to ON and press **INSTR PRESET** pushbutton.

Frequency Zero Check


3. Connect CAL OUTPUT signal to SIGNAL INPUT.
4. Key in **CENTER FREQUENCY** 20 MHz, **RES BW** 100 Hz, **FREQUENCY SPAN** 5 kHz.
5. Adjust front-panel FREQ ZERO control if necessary to center signal on center graticule line.

Filter Peak Adjust

6. Press **INSTR PRESET** .
7. Key in **SWEEP TIME** 20 msec, **RES BW** 10 Hz, **REFERENCE LEVEL** -30 dBm.

ADJUSTMENTS

5-21. 3 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

8. Disconnect 97 (white/violet) cable from A4A8J1 and connect output of tracking generator to A4A8J1 using BNC to SMB snap-on cable.
9. Set spectrum analyzer SCAN WIDTH PER DIVISION to 20 kHz and red scan width knob to ZERO. Set TUNING STABILIZER switch to ON. Set tracking generator output level to -25 dBm and tune spectrum analyzer FREQUENCY for a tracking generator output frequency of 21.4000 MHz.
10. Connect oscilloscope Channel A probe to A4A7TP7 (left side of C14 SYM) and Channel B probe to A4A7TP5 (left side of C23 SYM).
11. Set oscilloscope DISPLAY switch to CHOP and VOLTS/DIV to .005 for both Channel A and Channel B inputs.
12. Adjust tracking generator output frequency to peak Channel A display.
13. Adjust A4A7 PK A4A7C13 for maximum peak-to-peak signal on Channel B display. Refer to Figure 5-24 for location of adjustment. If unable to achieve a “peak” in signal amplitude, increase or decrease value of A4A7C12. Refer to Table 5-3 for range of values.
14. Move Channel B probe to A4A7TP3 (left side of C32 SYM).
15. Adjust tracking generator output frequency to peak Channel A display.
16. Adjust A4A7 PK A4A7C22 for maximum peak-to-peak signal on Channel B display. Refer to Figure 5-24 for location of adjustment. If unable to achieve a “peak” in signal amplitude, increase or decrease value of A4A7C21. Refer to Table 5-3 for range of values.
17. Move Channel B probe to A4A7TP1 (left side of C41 SYM).
18. Adjust tracking generator output frequency to peak Channel A display.
19. Adjust A4A7 PK A4A7C31 for maximum peak-to-peak signal on Channel B display. Refer to Figure 5-24 for location of adjustment. If unable to achieve a “peak” in signal amplitude, increase or decrease value of A4A7C30. Refer to Table 5-3 for range of values.
20. Disconnect Channel B probe from A4A7TP1.
21. Adjust tracking generator output frequency to peak Channel A display.
22. Adjust  using step keys to place signal near top of graticule.
23. Adjust A4A7 PK A4A7C40 for maximum signal amplitude on 8568A CRT display. Refer to Figure 5-24 for location of adjustment. If unable to achieve a “peak” in signal amplitude, increase or decrease value of A4A7C39. Refer to Table 5-3 for range of values.

ADJUSTMENTS

5-21. 3 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

24. Disconnect Channel A probe from A4A7TP7. Disconnect tracking generator output from A4A8J1 and reconnect 97 cable.

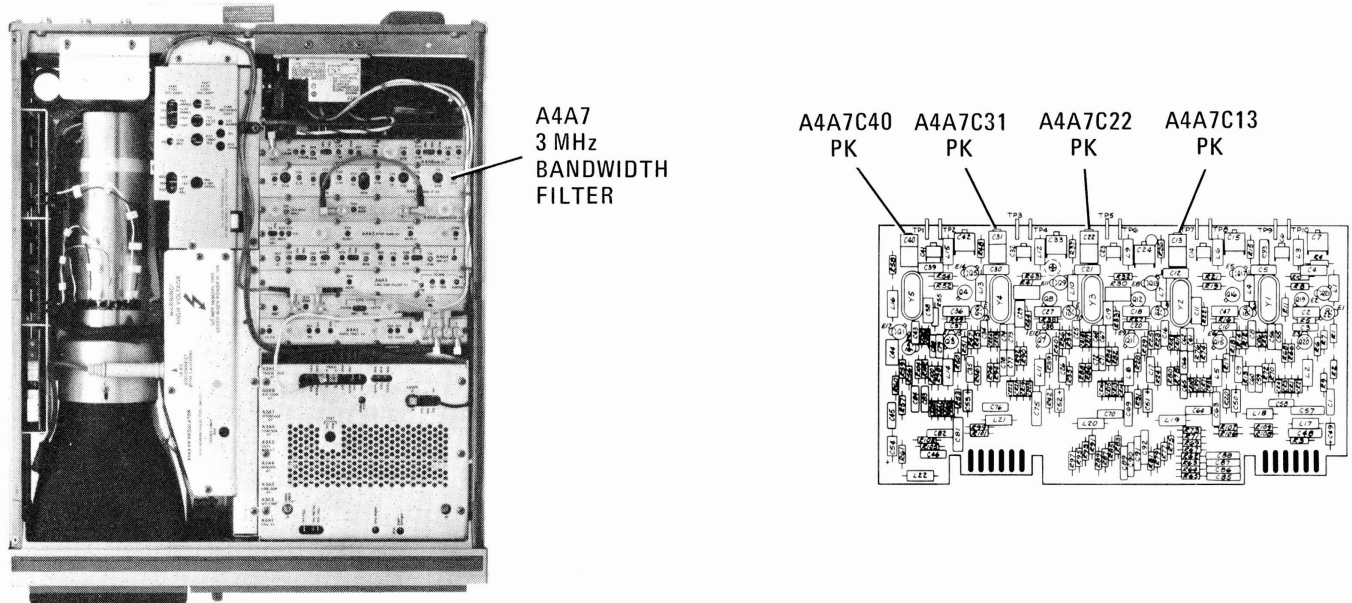


Figure 5-24. Location of 3 MHz PEAK Adjustments

Filter Center and Symmetry Adjustments

25. Key in 20 MHz, 10 kHz, 0 dB, 1 kHz and press LIN pushbutton. Press and adjust reference level using step keys to place signal peak near top of graticule.
26. Connect crystal filter bypass networks between A4A7TP1 and A4A7TP2, A4A7TP3 and A4A7TP4, A4A7TP5 and A4A7TP6, and A4A7TP7 and A4A7TP8.
27. Adjust A4A7CTR A4A7C7 for minimum amplitude signal peak. Adjust A4A7 SYM A4A7C6 for best symmetry of signal. Repeat adjustments to ensure that signal is nulled and adjusted for best symmetry. Refer to Figure 5-25 for location of adjustments.
28. Remove crystal filter bypass network from between A4A7TP7 and A4A7TP8.
29. Adjust A4A7 CTR A4A7C15 for minimum amplitude of signal peak. Adjust A4A7 SYM A4A7C14 for best symmetry of signal. Repeat adjustments to ensure that signal is nulled and adjusted for best symmetry. Refer to Figure 5-25 for location of adjustments.
30. Remove crystal filter bypass network from between A4A7TP5 and A4A7TP6.

ADJUSTMENTS

5-21. 3 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

31. Adjust A4A7 CTR A4A7C24 for minimum amplitude of signal peak. Adjust A4A7 SYM A4A7C23 for best symmetry of signal. Repeat adjustments to ensure that signal is nulled and adjusted for best symmetry. Refer to Figure 5-25 for location of adjustments.
32. Remove crystal filter bypass network from between A4A7TP3 and A4A7TP4.
33. Adjust A4A7 CTR A4A7C33 for minimum amplitude of signal peak. Adjust A4A7 SYM A4A7C32 for best symmetry of signal. Repeat adjustments to ensure that signal is nulled and adjusted for best symmetry. Refer to Figure 52-5 for location of adjustments.

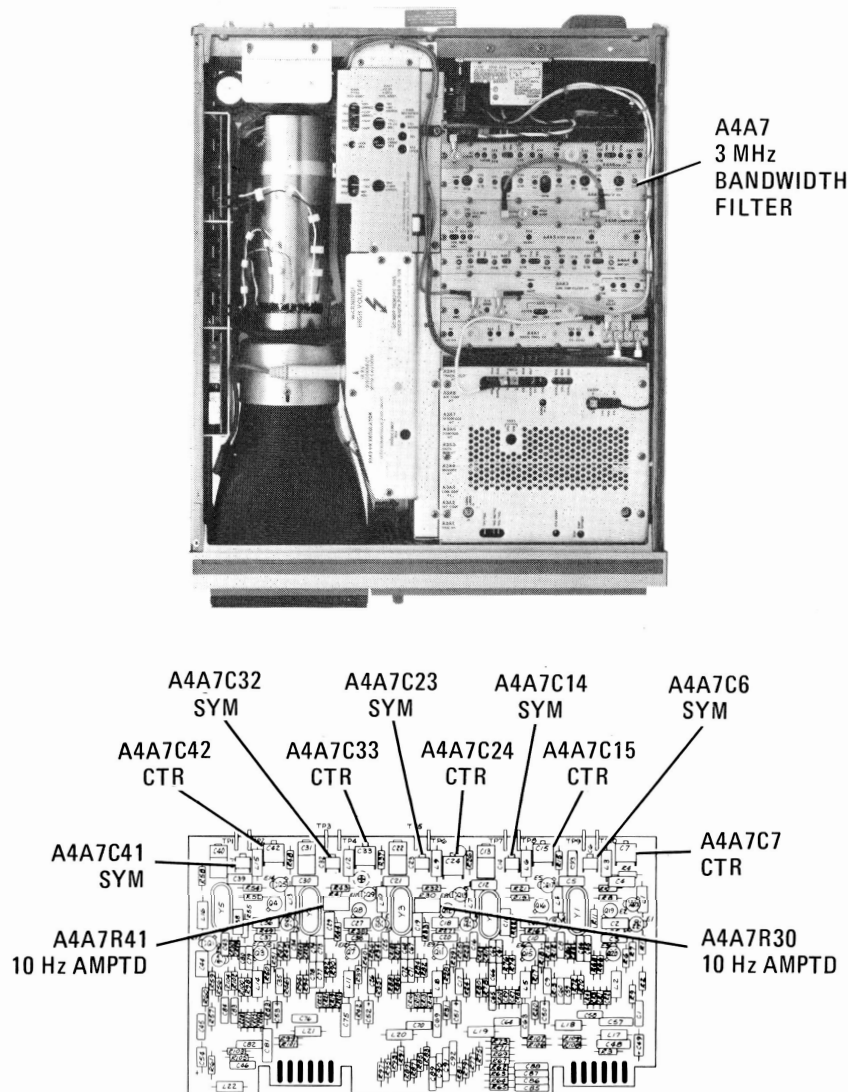





Figure 5-25. Location of CENTER, SYMMETRY, and 10 Hz AMPLITUDE Adjustments

ADJUSTMENTS

5-21. 3 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

34. Remove crystal filter bypass network from between A4A7TP1 and A4A7TP2.
35. Adjust A4A7 CTR A4A7C42 for minimum amplitude of signal peak. Adjust A4A7 SYM A4A7C41 for best symmetry of signal. Repeat adjustments to ensure that signal is nulled and adjusted for best symmetry. Refer to Figure 5-25 for location of adjustments.
36. Readjust A4A7 CTR A4A7C7 to be sure that signal is nulled. Signal should be centered on center graticule line on CRT display. If signal is not centered, go back to Step 20 and repeat adjustments of each filter stage.

10 Hz Amplitude Adjustments

37. Adjust signal peak to a convenient reference level by pressing  and adjusting DATA knob.
38. Key in  0 Hz,  10 Hz.
39. Adjust A4A7 10 Hz AMPTD A4A7R30 and A4A7 10 Hz AMPTD A4A7R41 equal amounts to set signal level the same as reference established in Step 31. The 10 Hz adjustments are located beneath SYM adjustments C23 and C32. Always adjust both controls in approximately equal amounts. For example, if error is 0.5 dB, adjust one control until error is 0.25 dB then other control until error is 0 dB.

5-22. 21.4 MHz BANDWIDTH FILTER ADJUSTMENTS

REFERENCE:

A4A8 Attenuator-Bandwidth Filter
A4A4 Bandwidth Filter

RELATED PERFORMANCE TESTS:

IF Gain Uncertainty Test
Resolution Bandwidth Switching Uncertainty Test
Resolution Bandwidth Selectivity Test

DESCRIPTION:

First, the 10-dB and 20-dB attenuators on the A4A8 Attenuator—Bandwidth Filter are adjusted for the proper amount of attenuation. This is done by connecting the CAL OUTPUT signal to the SIGNAL INPUT through two step attenuators, keying in the necessary reference level to activate the 10-dB and 20-dB control lines, adjusting the step attenuators to compensate for the attenuation, and adjusting the attenuators for the proper amount of attenuation.

ADJUSTMENTS

5-22. 21.4 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

Next, the crystal filter poles on the A4A4 Bandwidth Filter are adjusted for center and symmetry by bypassing all but one pole at a time and adjusting the active pole.

The LC filters are then adjusted on both the A4A4 Bandwidth Filter and the A4A8 Attenuator—Bandwidth Filter.

Last, the crystal filter poles on the A4A8 Attenuator—Bandwidth Filter are adjusted for center and symmetry in the same manner as the poles on the A4A4 Bandwidth Filter.

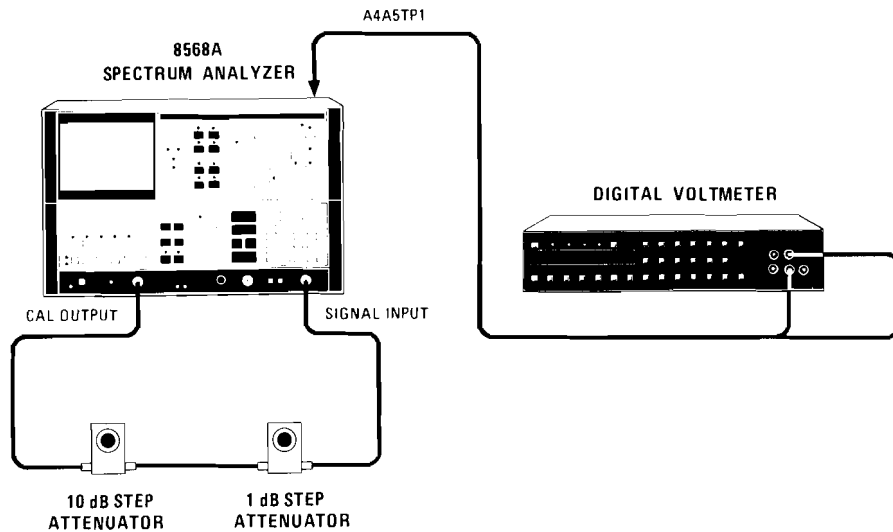



Figure 5-26. 21.4 MHz Bandwidth Filter Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM)	HP 3455A
10-dB Step Attenuator	HP 355D, Option H89
1-dB Step Attenuator	HP 355C, Option H25
Crystal Filter Bypass Network (2 required)	Refer to Figure 5-71

PROCEDURE:

1. Position instrument upright as shown in Figure 5-26 and remove top cover.
2. Set LINE switch to ON and press  pushbutton.

+10V Temperature Compensation Supply Check

3. Connect DVM to A4A5TP1 (+10VF).

ADJUSTMENTS

5-22. 21.4 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

4. DVM indication should be between +8.5 Vdc and +11.0 Vdc. If voltage is within tolerance, proceed to next step. If voltage is not within tolerance, refer to Paragraph 5-24 for adjustment procedure.

A10 dB and A20 dB Adjustments

5. Connect CAL OUTPUT to SIGNAL INPUT through 1-dB and 10-dB step attenuators. Set step attenuators to 25 dB.
6. Key in 20 MHz, 3 kHz, 1 kHz, 0 dB, and – 30 dBm.
7. Key in LOG 1 dB then press MARKER .
8. Key in – 20 dBm. Set step attenuators to 15 dB.
9. Adjust A4A8 A10 dB A4A8R7 to align markers on display. Marker Δ level should indicate .00 dB. Refer to Figure 5-29 for location of adjustment.
10. Key in – 10 dBm. Set step attenuators to 5 dB.
11. Adjust A4A8 A20 dB A4A8R6 to align markers on display. Marker Δ level should indicate .00 dB. Refer to Figure 5-29 for location of adjustment.

A4A4 XTAL Adjustments

12. Set step attenuators to 0 dB. Press MARKER .
 13. Disconnect 97 (white/violet) cable from A4A8J1 and connect to A4A6J1.
 14. Key in 30 kHz, 100 kHz, and press LIN pushbutton.
 15. Press pushbutton and adjust DATA knob to set signal peak on screen near top of graticule.
 16. Connect crystal filter bypass networks between A4A4TP1 and A4A4TP2 and between A4A4TP4 and A4A4TP5.
 17. Adjust A4A4 CTR A4A4C20 to center signal on center graticule line. Adjust A4A4 SYM A4A4C9 for best symmetry of signal. Refer to Figure 5-27 for location of adjustments. If unable to adjust SYM for satisfactory signal symmetry, increase or decrease value of A4A4C10. Refer to Table 5-3 for range of values.
 18. Remove crystal filter bypass network from between A4A4TP4 and A4A4TP5.
-

ADJUSTMENTS

5-22. 21.4 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

19. Adjust A4A4 CTR A4A4C74 to center signal on center graticule line. Adjust A4A4 SYM A4A4C39 for best symmetry of signal. Refer to Figure 5-27 for location of adjustments. If unable to adjust SYM for satisfactory signal symmetry, increase or decrease value of A4A4C38. Refer to Table 5-3 for range of values.
20. Remove crystal filter bypass network from between A4A4TP1 and A4A4TP2.
21. Adjust A4A4 CTR A4A4C73 to center signal on center graticule line. Adjust A4A4 SYM A4A4C65 for best symmetry of signal. Refer to Figure 5-27 for location of adjustments. If unable to adjust SYM for satisfactory signal symmetry, increase or decrease value of A4A4C66. Refer to Table 5-3 for range of values.
22. All crystal filter bypass networks are removed. Signal should be centered and symmetrical. If not, go back to Step 16 and repeat adjustments.
23. Press MARKER pushbutton.
24. Key in 20 kHz, 3 kHz.
25. Adjust A4A4 XTAL A4A4R49 to align markers on display. MARKER level should indicate 1.00 X. Refer to Figure 5-27 for location of adjustment.

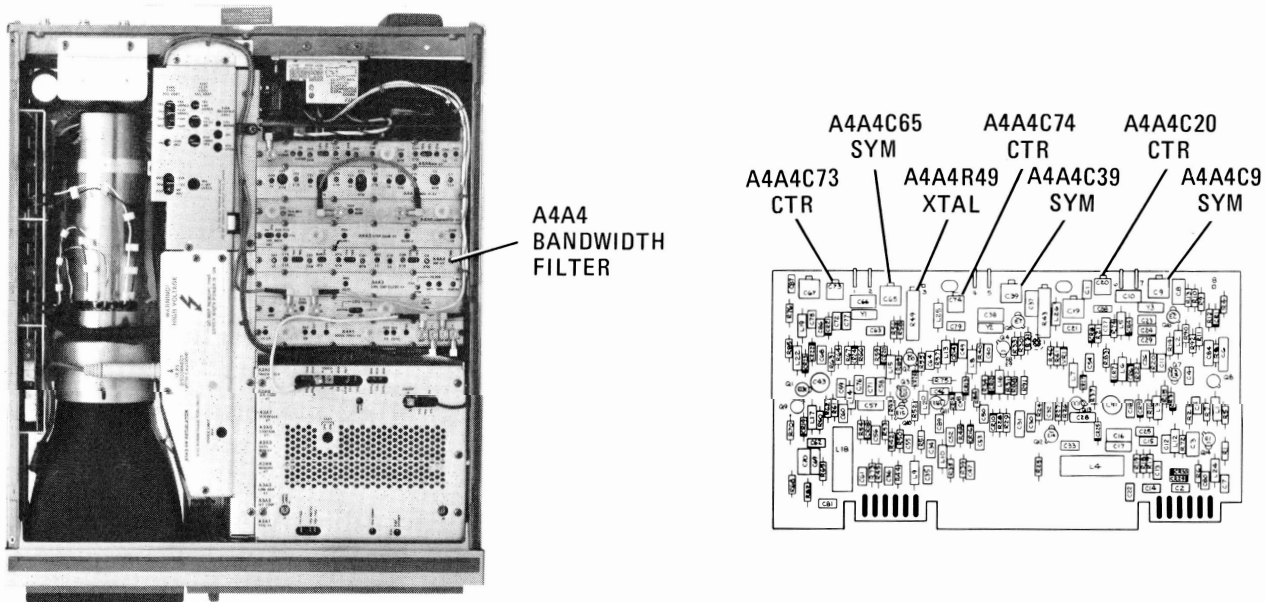


Figure 5-27. Location of A4A4 21.4 MHz Crystal Filter Adjustments

ADJUSTMENTS

5-22. 21.4 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

A4A4 LC Adjustments

26. Key in RES BW 1 MHz, FREQUENCY SPAN 200 kHz, MARKER NORMAL .
27. Short A4A9TP1 to A4A9TP2.
28. Adjust A4A4 LC CTR A4A4C67 and A4A4 LC CTR A4A4C19 for maximum MARKER level as indicated by CRT annotation. Refer to Figure 5-28 for location of adjustments. If unable to adjust LC CTR adjustments for satisfactory signal amplitude, increase or decrease value of A4A4C17 and A4A4C70. Refer to Table 5-3 for range of values.
29. Remove short from between A4A9TP1 and A4A9TP2.
30. Press MARKER Δ pushbutton.
31. Reinstall short between A4A9TP1 and A4A9TP2.
32. Adjust A4A4 LC A4A4R43 to align markers on display. MARKER Δ level should indicate 1.00X. Refer to Figure 5-28 for location of adjustment.

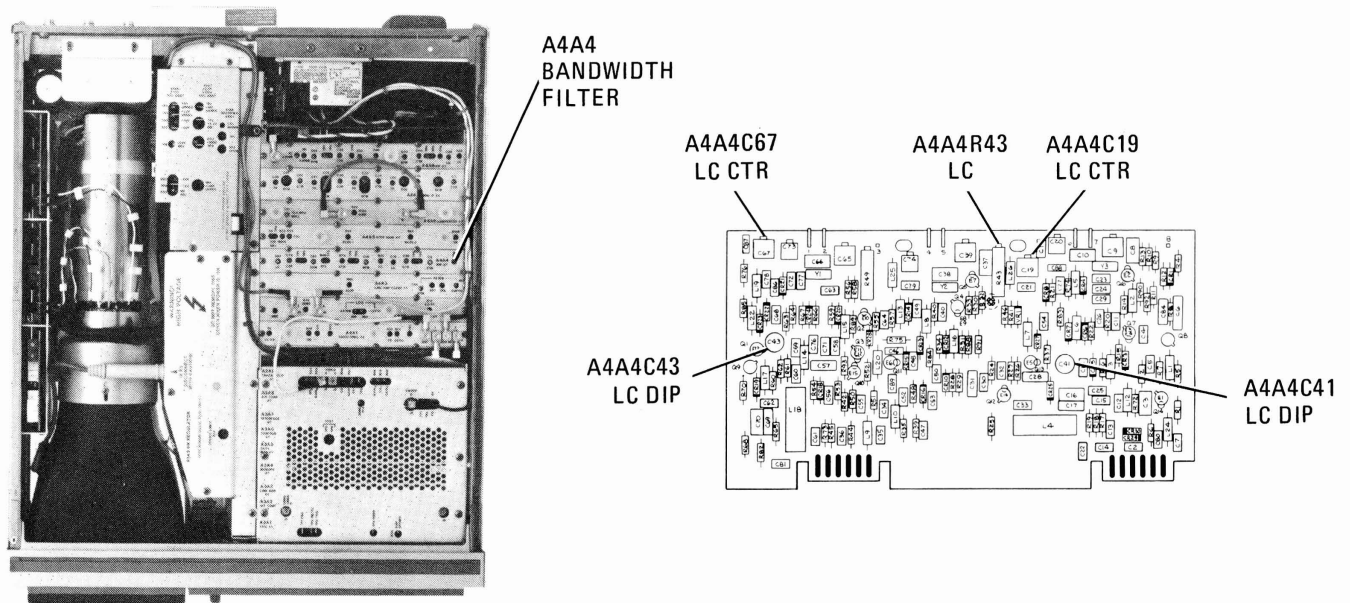


Figure 5-28. Location of A4A4 21.4 MHz LC Filter Adjustments

ADJUSTMENTS

5-22. 21.4 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

A4A8 LC Adjustments

33. Disconnect 97 cable from A4A6J1 and reconnect to A4A8J1. Reconnect cable to A4A6J1.
34. Press pushbutton and adjust DATA knob to place signal peak near top of graticule.
35. Press MARKER .
36. Adjust A4A8 LC CTR A4A8C32 and A4A8 LC CTR A4A8C46 for maximum MARKER level as indicated by CRT annotation. Refer to Figure 5-29 for location of adjustments. If unable to adjust LC CTR adjustments for satisfactory signal amplitude, increase or decrease value of A4A8C35 and A4A8C49. Refer to Table 5-3 for range of values.
37. Remove short from between A4A9TP1 and A4A9TP2.
38. Press MARKER pushbutton.
39. Reinstall short between A4A9TP1 and A4A9TP2.
40. Adjust A4A8 LC A4A8R35 to align markers on display. MARKER Δ level should indicate $\approx 1.00 X$. Refer to Figure 5-29 for location of adjustment.
41. Remove short from between A4A9TP1 and A4A9TP2.
42. Press MARKER pushbutton.

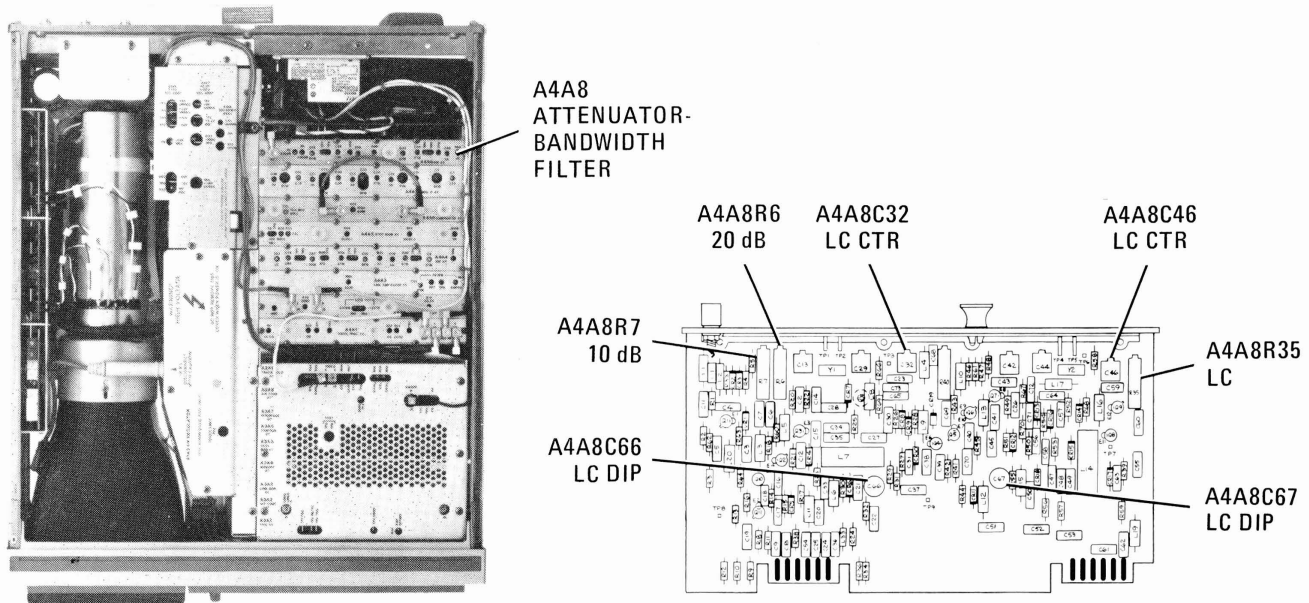


Figure 5-29. Location of A4A8 21.4 MHz LC Filter and Attenuation Adjustments

ADJUSTMENTS

5-22. 21.4 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

A4A8 XTAL Adjustments

43. Key in 30 kHz, 100 kHz.
44. Connect crystal filter bypass network between A4A8TP1 and A4A8TP2.
45. Adjust A4A8 CTR A4A8C44 to center signal on center graticule line. Adjust A4A8 SYM A4A8C42 for best symmetry of signal. Refer to figure 5-30 for location of adjustments. If unable to adjust SYM for satisfactory signal symmetry, increase or decrease value of A4A8C43. Refer to Table 5-3 for range of values.
46. Remove crystal filter bypass network from between A4A8TP1 and A4A8TP2 and connect between A4A8TP4 and A4A8TP5.
47. Adjust A4A8 CTR A4A8C29 to center signal on center graticule line. Adjust A4A8 SYM A4A8C13 for best symmetry of signal. Refer to Figure 5-30 for location of adjustments. If unable to adjust SYM for satisfactory signal symmetry, increase or decrease value of A4A8C14. Refer to Table 5-3 for range of values.
48. Remove crystal filter bypass network connected between A4A8TP4 and A4A8TP5.
47. Key in 10 kHz.
48. Press MARKER pushbutton.
49. Key in 3 kHz.
52. Adjust A4A8 XTAL A4A8R40 to align markers on display. MARKER Δ level should indicate 1.00 X. Refer to Figure 5-30 for location of adjustment.

LC DIP Adjustments

53. Refer to Section IV, RESOLUTION BANDWIDTH SWITCHING UNCERTAINTY TEST, and check all bandwidth amplitudes. If amplitude of 300 kHz bandwidth is low but amplitude of 100 kHz and 1 MHz are within tolerance, LC DIP adjustments must be performed. If all bandwidth amplitudes are within tolerance, do not perform the following adjustments.
54. Disconnect 97 (white/violet) cable from A4A8J1 and connect to A4A6J1.
55. Remove A4A4 Bandwidth Filter and install on extenders.

ADJUSTMENTS

5-22. 21.4 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

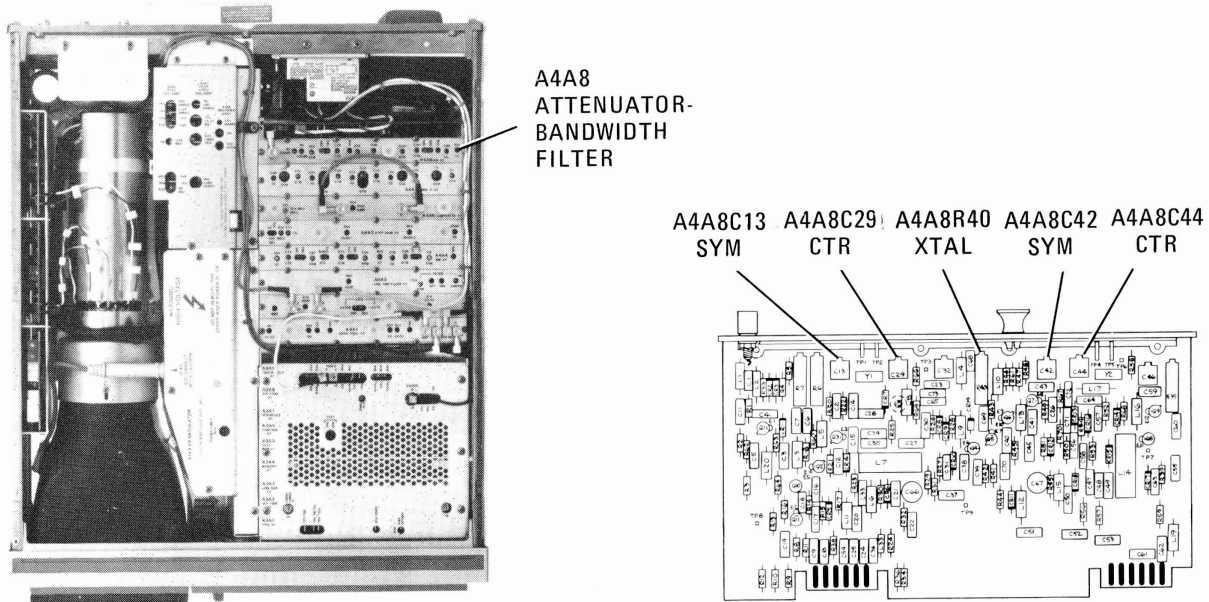


Figure 5-30. Location of A4A8 21.4 MHz Crystal Filter Adjustments

56. Key in 100 kHz, 1 MHz, and LOG 2 dB.
57. Short A4A9TP1 to A4A9TP2. Short A4A4TP3 to ground.
58. Adjust A4A4 LC DIP A4A4C41 for minimum amplitude of signal peak. Refer to Figure 5-28 for location of adjustment. If unable to achieve a “dip” in signal amplitude, increase or decrease value of A4A4R16. Refer to Table 5-3 for range of values.
59. Remove short from A4A4TP3 and short A4A4TP8 to ground.
60. Adjust A4A4 LC DIP A4A4C43 for minimum amplitude of signal peak. Refer to Figure 5-28 for location of adjustment. If unable to achieve a “dip” in signal amplitude, increase or decrease value of A4A4R60. Refer to Table 5-3 for range of values.
61. Install A4A4 Bandwidth Filter without extenders. Short A4A4TP3 and A4A4TP8 to ground. Install A4A8 Attenuator—Bandwidth Filter on extenders and reconnect 97 cable to A4A8J1. Reconnect cable to A4A6J1.
62. Short A4A8TP6 to ground.
63. Adjust A4A8 LC DIP A4A8C66 for minimum amplitude of signal peak. Refer to Figure 5-29 for location of adjustment. If unable to achieve a “dip” in signal amplitude, increase or decrease value of A4A8R30. Refer to Table 5-3 for range of values.

ADJUSTMENTS

5-22. 21.4 MHz BANDWIDTH FILTER ADJUSTMENTS (Cont'd)

64. Remove short from A4A8TP6 and short A4A8TP3 to ground.
 65. Adjust A4A8 LC DIP A4A8C67 for minimum amplitude of signal peak. Refer to Figure 5-29 for location of adjustment. If unable to achieve a “dip” in signal amplitude, increase or decrease value of A4A8R55. Refer to Table 5-3 for range of values.
 66. Install A4A8 Attenuator—Bandwidth Filter in instrument without extenders. Remove short from A4A8TP3.
 67. Go back to Step 26 and repeat LC adjustments for both the A4A4 Bandwidth Filter and the A4A8 Attenuator—Bandwidth Filter.
-

5-23. 3-dB BANDWIDTH ADJUSTMENTS

REFERENCE:

A4A9 IF Control

RELATED PERFORMANCE TEST:

Resolution Bandwidth Accuracy Test





DESCRIPTION:

The CAL OUTPUT signal is connected to the SIGNAL INPUT. Each of the adjustable resolution bandwidths is selected and adjusted for the proper bandwidth at the 3-dB point.

EQUIPMENT:

No test equipment is required for this adjustment.

PROCEDURE:

1. Position instrument upright and remove top cover.
2. Set LINE switch to ON and press  pushbutton.
3. Connect CAL OUTPUT to SIGNAL INPUT.
4. Key in  20 MHz,  5 MHz, LIN, and  3 MHz.

ADJUSTMENTS

5-23. 3-dB BANDWIDTH ADJUSTMENTS (Cont'd)

5. Press **REFERENCE LEVEL** pushbutton and adjust DATA knob to place signal peak near top of graticule. Signal should be centered about the center line on the graticule. If not, press **CENTER FREQUENCY** and use DATA knob to center signal.
6. Press **MARKER** **Δ** pushbutton.
7. Using DATA knob, adjust marker down one side of the displayed signal to the 3-dB point; CRT MKR **Δ** annotation indicates .707 X.
8. Adjust A4A9 3 MHz A4A9R60 for MKR **Δ** indication of 1.5 MHz while maintaining marker at 3-dB point (.707 X) using DATA knob. Refer to Figure 5-31 for location of adjustment.
9. Press **MARKER** **Δ** pushbutton. Adjust marker to 3-dB point on opposite side of signal (CRT MKR **Δ** annotation indicates 1.00X). There are now two markers; one on each side of the signal at the 3-dB points.
10. CRT MKR **Δ** annotation now indicates the 3-dB bandwidth of the 3 MHz bandwidth. 3-dB bandwidth should be 3.00 MHz \pm 0.60 MHz.
11. Key in **RES BW** 1 MHz and **FREQUENCY SPAN** 2 MHz. Readjust **REFERENCE LEVEL** and **CENTER FREQUENCY** if necessary using DATA Knob to place signal peak near top of graticule and centered on center graticule line.
12. Press **MARKER** **OFF** then **MARKER** **Δ** .
13. Using DATA knob, adjust marker down one side of the displayed signal to the 3-dB point; CRT MKR **Δ** annotation indicates .707 X.
14. Adjust A4A9 1 MHz A4A9R61 for MKR **Δ** indication of 500 kHz while maintaining marker at 3-dB point (.707 X) using DATA knob. Refer to Figure 5-31 for location of adjustment.
15. Press **MARKER** **Δ** pushbutton. Adjust marker to 3-dB point on opposite side of signal (CRT MKR **Δ** annotation indicates 1.00 X). There are now two markers; one on each side of the signal at the 3-dB point.
16. CRT MKR **Δ** annotation now indicates the 3-dB bandwidth of the 1 MHz bandwidth. 3-dB bandwidth should be 1.00 MHz \pm 0.10 MHz.
17. Key in **RES BW** 300 kHz and **FREQUENCY SPAN** 500 kHz. Readjust **REFERENCE LEVEL** and **CENTER FREQUENCY** if necessary using DATA knob to place signal peak near top of graticule and centered on center graticule line.
18. Press **MARKER** **OFF** then **MARKER** **Δ** .

ADJUSTMENTS

5-23. 3-dB BANDWIDTH ADJUSTMENTS (Cont'd)

19. Using DATA knob, adjust marker down one side of the displayed signal to the 3-dB point: CRT MKR Δ annotation indicates .707 X.
20. Adjust A4A9 300 kHz A4A9R62 for MKR Δ indication of 150 kHz while maintaining marker at 3-dB point (.707 X) using DATA knob. Refer to Figure 5-31 for location of adjustment.
21. Press MARKER pushbutton. Adjust marker to 3-dB point on opposite side of signal (CRT MKR Δ annotation indicates 1.00 X).
22. CRT MKR Δ annotation now indicates the 3-dB bandwidth of the 300 kHz bandwidth. 3-dB bandwidth should be 300.0 kHz \pm 30.0 kHz.
23. Key in 10 kHz and 20 kHz. Readjust and if necessary using DATA knob to place signal peak near top of graticule and centered on center graticule line.
24. Press MARKER then MARKER .
25. Using DATA knob, adjust marker down one side of the displayed signal to the 3-dB point: CRT MKR Δ annotation indicates .707 X.
26. Adjust A4A9 10 kHz A4A9R65 for MKR Δ indication of 5.00 kHz while maintaining marker at 3-dB point (.707 X) using DATA knob. Refer to Figure 5-31 for location of adjustment.
27. Press MARKER pushbutton. Adjust marker to 3-dB point on opposite side of signal (CRT MKR Δ annotation indicates 1.00 X).
28. CRT MKR Δ annotation now indicates the 3-dB bandwidth of the 10 kHz bandwidth. 3-dB bandwidth should be 10.0 kHz \pm 1.0 kHz.
29. Key in 3 kHz and 5 kHz. Readjust and if necessary using DATA knob to place signal peak near top of graticule and centered on center graticule line.
30. Press MARKER then MARKER .
31. Using DATA knob, adjust marker down one side of the displayed signal to the 3-dB point; CRT MKR Δ annotation indicates .707 X.
32. Adjust A4A9 3 kHz A4A9R66 for MKR Δ indication of 1.5 kHz while maintaining marker at 3-dB point (.707 X) using DATA knob. Refer to Figure 5-31 for location of adjustments.
33. Press MARKER pushbutton. Adjust marker to 3-dB point on opposite side of signal (CRT MKR Δ annotation indicates 1.00 X).
34. CRT MKR Δ annotation now indicates the 3-dB bandwidth of the 3 kHz bandwidth. 3-dB bandwidth should be 3.00 kHz \pm 0.300 kHz.

ADJUSTMENTS

5-23. 3-dB BANDWIDTH ADJUSTMENTS (Cont'd)

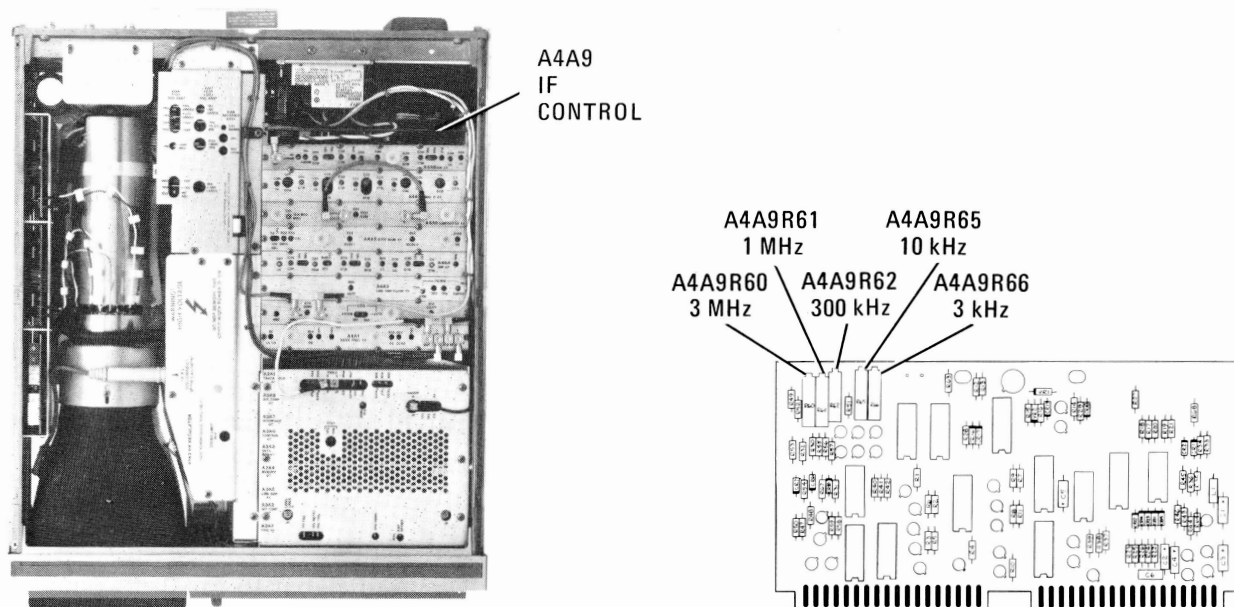


Figure 5-31. Location of 3-dB Bandwidths Adjustments

5-24. STEP GAIN AND 18.4 MHz LOCAL OSCILLATOR ADJUSTMENTS

REFERENCE:

A4A7 3 MHz Bandwidth Filter

A4A5 Step Gain

RELATED PERFORMANCE TESTS:

Resolution Bandwidth Selectivity Test

IF Gain Uncertainty Test

Center Frequency Readout Accuracy Test

DESCRIPTION:

First, the IF signal from the RF Section is measured with a power meter and adjusted for proper level. Next, the 10-dB gain steps are adjusted by connecting the CAL OUTPUT signal through two step attenuators to the SIGNAL INPUT and keying in the REFERENCE LEVEL necessary to activate each of gain steps while compensating for the increased gain with the step attenuators. The 1-dB gain steps are checked in the same fashion as the 10-dB gain steps and then the variable gain is adjusted. The 18.4 MHz oscillator frequency is adjusted to provide adequate adjustment range of front-panel FREQ ZERO control and last, the +10V temperature compensation supply used by the A4A4 Bandwidth Filter and A4A8 Attenuator-Bandwidth Filter is checked and adjusted if necessary.

ADJUSTMENTS

5-24. STEP GAIN AND 18.4 MHz LOCAL OSCILLATOR ADJUSTMENTS (Cont'd)

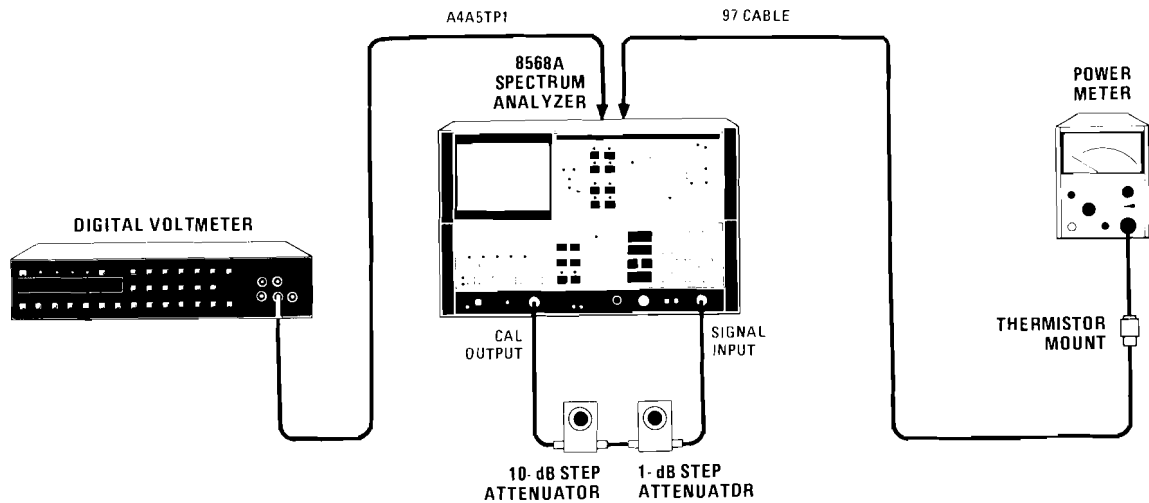


Figure 5-32. Step Gain and 18.4 MHz Local Oscillator Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM)	HP 3455A
Power Meter/Thermistor Mount	HP 432A/478A
10-dB Step Attenuator	HP 355D, Option H89
1-dB Step Attenuator	HP 355C, Option H25

PROCEDURE:

1. Position instrument upright as shown in Figure 5-32 and remove top cover.
2. The validity of the results of this adjustment procedure is based in part on the performance of the Log Amplifiers and the Video Processor. Proper adjustment of the Log Amplifiers and Video Processor is necessary before proceeding with this adjustment procedure.
3. Set instrument LINE switch to ON and press pushbutton. Connect CAL OUTPUT to SIGNAL INPUT.
4. Key in 20 MHz, -10 dBm, 0 dBm, 1 MHz, 0 Hz.

IF Gain Adjustment.

5. Disconnect 97 (white/violet) cable from A4A8J1 and connect cable to power meter/thermistor mount. Refer to Figure 5-33 for location of 97 cable and A4A8J1.

ADJUSTMENTS

5-24. STEP GAIN AND 18.4 MHz LOCAL OSCILLATOR ADJUSTMENTS (Cont'd)

6. Adjust front-panel AMPTD CAL adjustment for a power meter indication of -5 dBm.
7. Disconnect power meter and reconnect 97 cable to A4A8J1.
8. Press LIN pushbutton.
9. Adjust A4A5 CAL A4A5R33 to align signal trace with top graticule line. Refer to Figure 5-33 for location of adjustment.
10. If A4A5 CAL adjustment does not have sufficient range to adjust trace to top graticule line, increase or decrease the value of A4A7R60 as necessary to achieve the proper adjustment range of A4A5 CAL adjustment. Refer to Table 5-3 for range of values for A4A7R60. Refer to A4A7 component location illustration in Section VIII for location of A4A7R60.

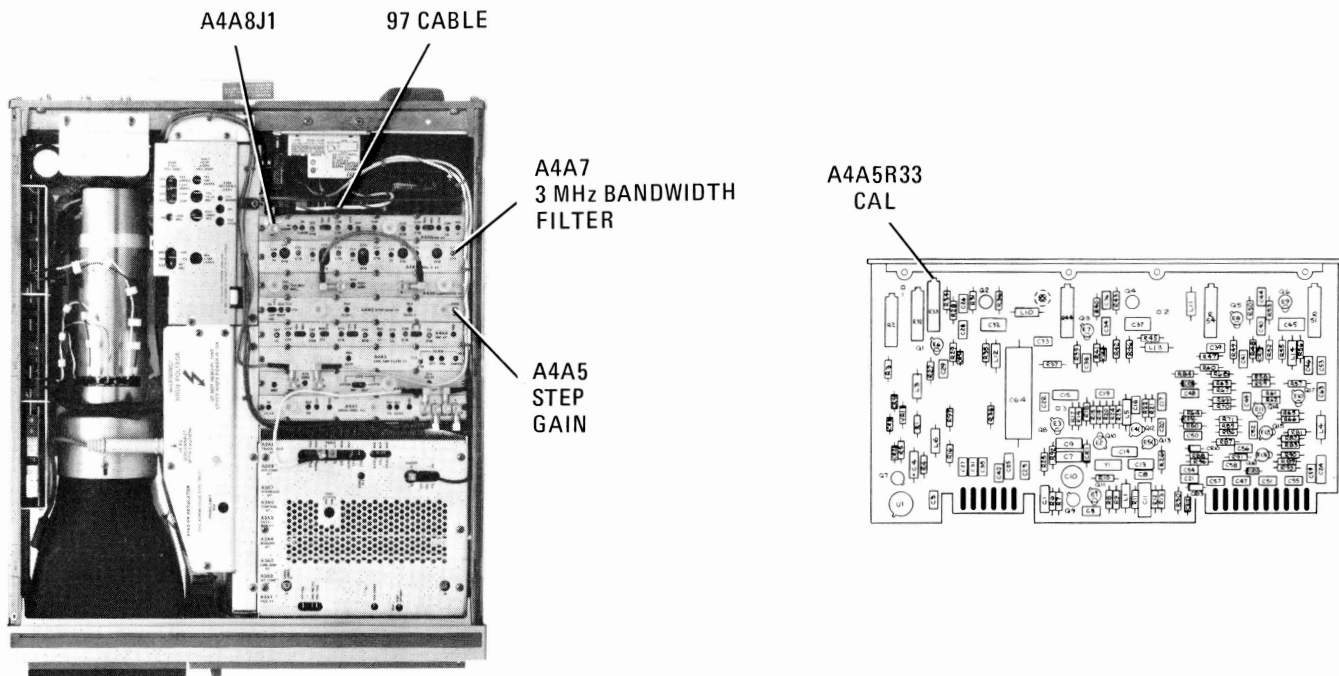


Figure 5-33. Location of IF Gain Adjustment

10-dB Gain Step Adjustments

11. Connect CAL OUTPUT to SIGNAL INPUT through 10-dB step attenuator and 1-dB step attenuator.
12. Key in LOG 1 dB.
13. Set step attenuators to 5 dB.

ADJUSTMENTS

5-24. STEP GAIN AND 18.4 MHz LOCAL OSCILLATOR ADJUSTMENTS (Cont'd)

14. Key in **MARKER** Δ . Signal trace should be at center graticule line and MKR Δ level, as indicated by CRT annotation, should be .00 dB.
15. Key in **REFERENCE LEVEL** – 20 dBm. Set step attenuators to 15 dB.
16. Adjust A4A5 SG10 A4A5R32 for MKR Δ level of .00 dB. CRT MKR Δ annotation is now in upper right corner of CRT display. Refer to Figure 5-34 for location of adjustment.
17. If A4A5 SG10 adjustment does not have sufficient range to perform adjustment in Step 16, increase or decrease the value of A4A7R60 as necessary to achieve the proper adjustment range of A4A5 SG10. Refer to Table 5-3 for range of values for A4A7R60.
18. Key in **REFERENCE LEVEL** – 30 dBm. Set step attenuators to 25 dB.
19. Adjust A4A5 SG20-1 A4A5R44 for MKR Δ level of .00 dB. Refer to Figure 5-34 for location of adjustment.
20. Key in **REFERENCE LEVEL** – 50 dBm. Set step attenuators to 45 dB.
21. Adjust A4A5 SG20-2 A4A5R54 for MKR Δ level of .00 dB. Refer to Figure 5-34 for location of adjustment.

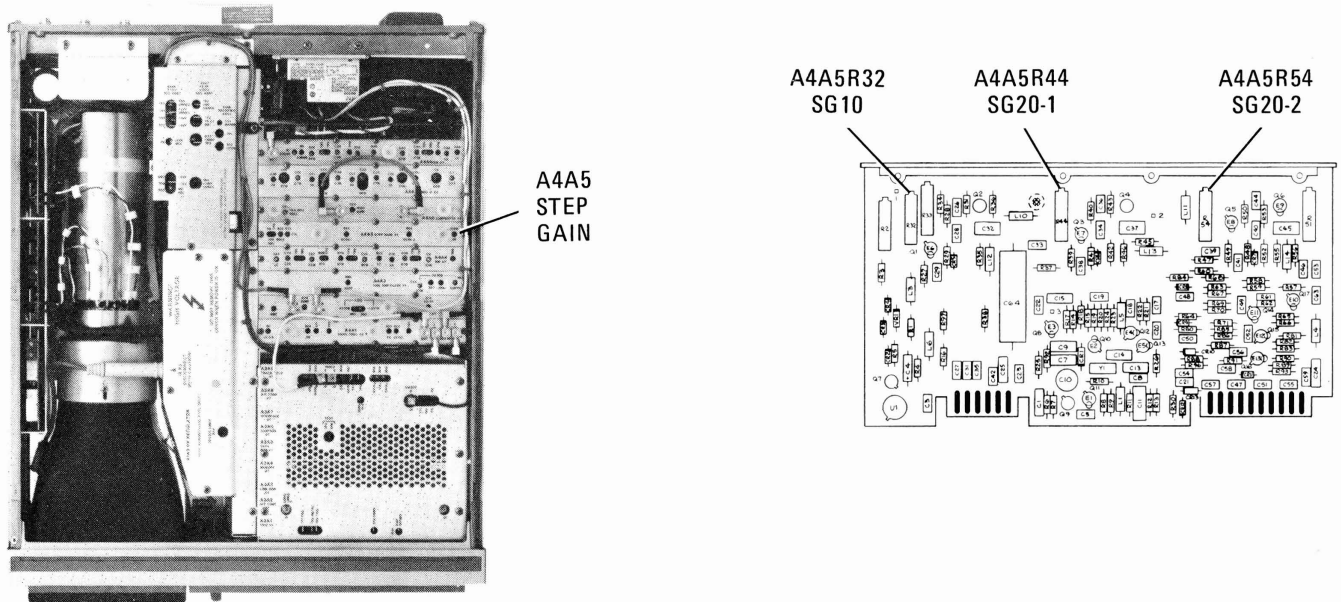


Figure 5-34. Location of 10-dB Gain Step Adjustments

ADJUSTMENTS

5-24. STEP GAIN AND 18.4 MHz LOCAL OSCILLATOR ADJUSTMENTS (Cont'd)

1-dB Gain Step Checks

22. Key in – 19.9 dBm. Set step attenuators to 15 dB. Press MARKER pushbutton twice. This establishes a new reference.
23. Key in – 17.9 dBm. Set step attenuators to 13 dB.
24. MKR Δ level as indicated by CRT annotation should be .00 dB \pm .05 dB. If not, increase or decrease the value of A4A5R86. Refer to Table 5-3 for range of values.
25. Key in – 15.9 dBm. Set step attenuators to 11 dB.
26. MKR Δ level should be .00 dB \pm 0.05 dB. If not, increase or decrease the value of A4A5R70. Refer to Table 5-3 for range of values.
27. Key in – 11.9 dBm. Set step attenuators to 7 dB.
28. MKR Δ level should be .00 dB \pm 0.05 dB. If not, increase or decrease the value of A4A5R62. Refer to Table 5-3 for range of values.

.1-dB Gain Step Adjustment

29. Key in – 19.9 dBm. Set step attenuators to 15 dB. Press MARKER pushbutton twice. This establishes a new reference.
30. Key in – 18.9 dBm. Set step attenuators to 14 dB.
31. Adjust A4A5 VR A4A5R51 for MKR Δ level of .00 dB. Refer to Figure 5-35 for location of adjustment.

18.4 MHz Local Oscillator Adjustment

32. Key in 10 Hz, 0 Hz.
33. Remove A4A5 Step Gain assembly and place on extenders.
34. Set front-panel FREQ ZERO control to midrange.
35. Adjust A4A5 FREQ ZERO COARSE A4A5C10 to peak signal trace on CRT. Refer to Figure 5-35 for location of adjustment.

ADJUSTMENTS

5-24. STEP GAIN AND 18.4 MHz LOCAL OSCILLATOR ADJUSTMENTS (Cont'd)

36. Install A4A5 Step Gain assembly in instrument without extenders.
37. Key in 500 Hz, 100 Hz.
38. Adjust front-panel FREQ ZERO control fully clockwise. Signal should move at least 150 Hz away from center (three divisions).
39. Adjust front-panel FREQ ZERO control fully counterclockwise. Signal should move at least 150 Hz away from center (three divisions).
40. If proper indications are not achieved, increase or decrease value of A4A5C7 and repeat adjustment from Step 32. Refer to Table 5-3 for range of values.

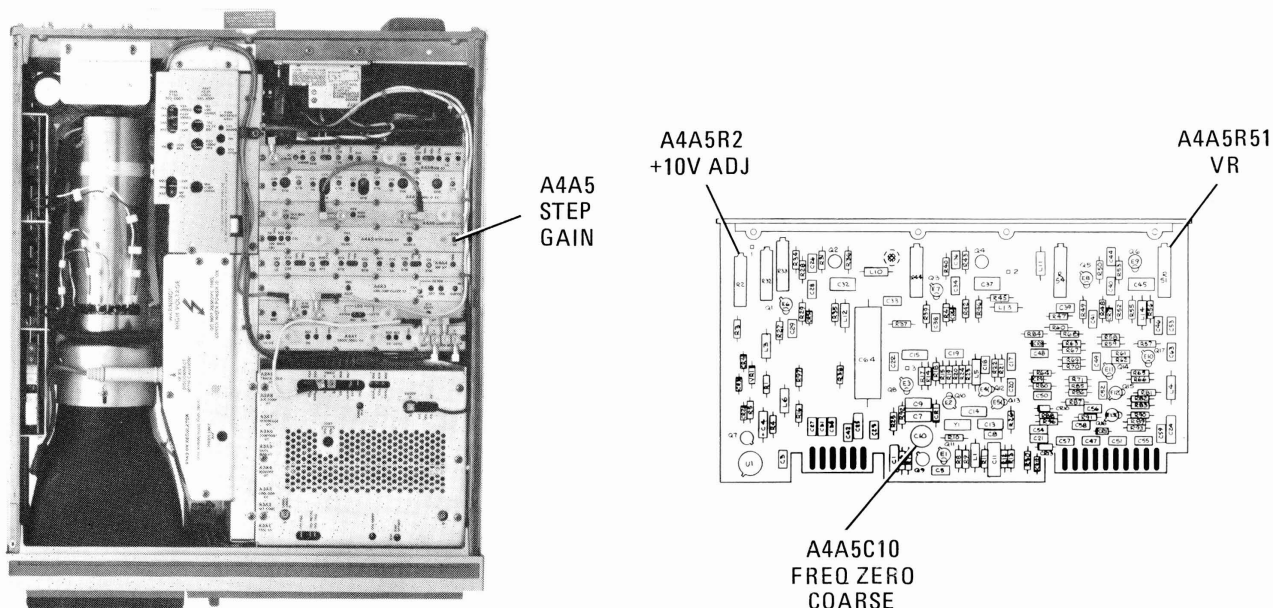


Figure 5-35. Location of .1-dB Gain Step, 18.4 MHz LO, and +10V Adjustments

+10V Temperature Compensation Supply Adjustment

41. Connect DVM to A4A5TP1 (+10VF).
42. If DVM indication is between +8.5 Vdc and +11.0 Vdc, no adjustment is required.
43. If DVM indication is not within tolerance of Step 42, adjust A4A5 +10V ADJ A4A5R2 for DVM indication of +9.5 Vdc \pm 0.1 Vdc at normal room temperature of approximately 25°C. Voltage change is approximately 30 mV/C. Therefore, if room temperature is higher or lower than 25°C, adjustment should be made higher or lower accordingly.

ADJUSTMENTS

5-25. DOWN/UP CONVERTER ADJUSTMENTS

REFERENCE:

A4A6 Down/Up Converter

RELATED PERFORMANCE TEST:

Resolution Bandwidth Switching Uncertainty Test

DESCRIPTION:

First, the CAL OUTPUT signal is connected to the SIGNAL INPUT connector of the instrument and controls are set to display the signal in a narrow bandwidth. A marker is placed at the peak of the signal to measure the peak amplitude. The bandwidth is changed to a wide bandwidth and the Down/Up Converter is adjusted to place the peak amplitude of the signal the same as the level of the narrow bandwidth signal.

Next, the input signal is removed and the IF signal is monitored at the output of the Bandwidth Filters using a spectrum analyzer with an active probe. The 18.4 MHz Local Oscillator and all harmonics are then adjusted for minimum amplitude.

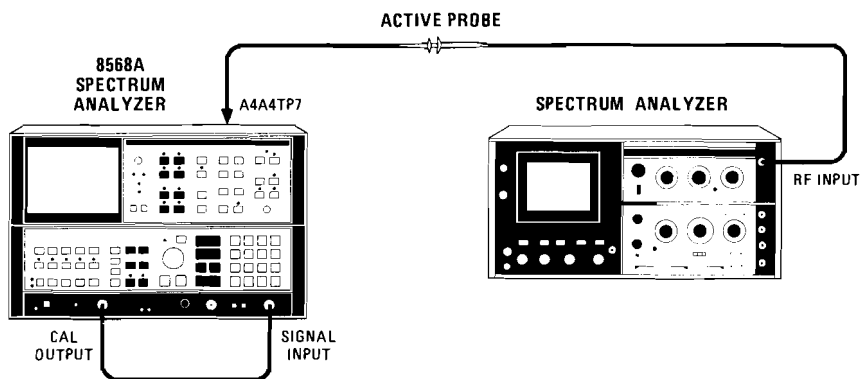



Figure 5-36. Down/Up Converter Adjustments Setup

EQUIPMENT:

Spectrum Analyzer HP 141T/8552B/8553B
Active Probe HP 1121A

PROCEDURE:

1. Position instrument upright as shown in Figure 5-36 and remove top cover.
2. Set LINE switch to ON and press  pushbutton.

ADJUSTMENTS

5-25. DOWN/UP CONVERTER ADJUSTMENTS (Cont'd)

3. Connect CAL OUTPUT to SIGNAL INPUT.
4. Key in 20 MHz, 0 Hz, 0 dB, 1 kHz. Press LIN pushbutton then MARKER .
5. Key in 1 MHz.
6. Adjust A4A6A1 WIDE GAIN A4A6A1R29 to align markers on CRT display. MKR Δ level should indicate 1.00 X. Refer to Figure 5-37 for location of adjustment.
7. Disconnect CAL OUTPUT from SIGNAL INPUT.
8. Key in -70 dBm, 1 kHz, and MARKER .
9. Connect spectrum analyzer through AC probe with 10:1 divider tip to A4A7TP7.
10. Set spectrum analyzer bandwidth to 100 kHz and scan width/division to 10 MHz.
11. Adjust A4A6A1 18.4 MHz NULL A4A6A1C31 to null the 18.4 MHz Local Oscillator signal and all displayed harmonics. Refer to Figure 5-37 for location of adjustment.
12. 18.4 MHz signal and displayed harmonics should be below -10 dBm (-30 dBm on display due to 10:1 divider). If unable to adjust 18.4 MHz NULL for proper indication, increase value of A4A5R10. Refer to Table 5-3 for range of values.

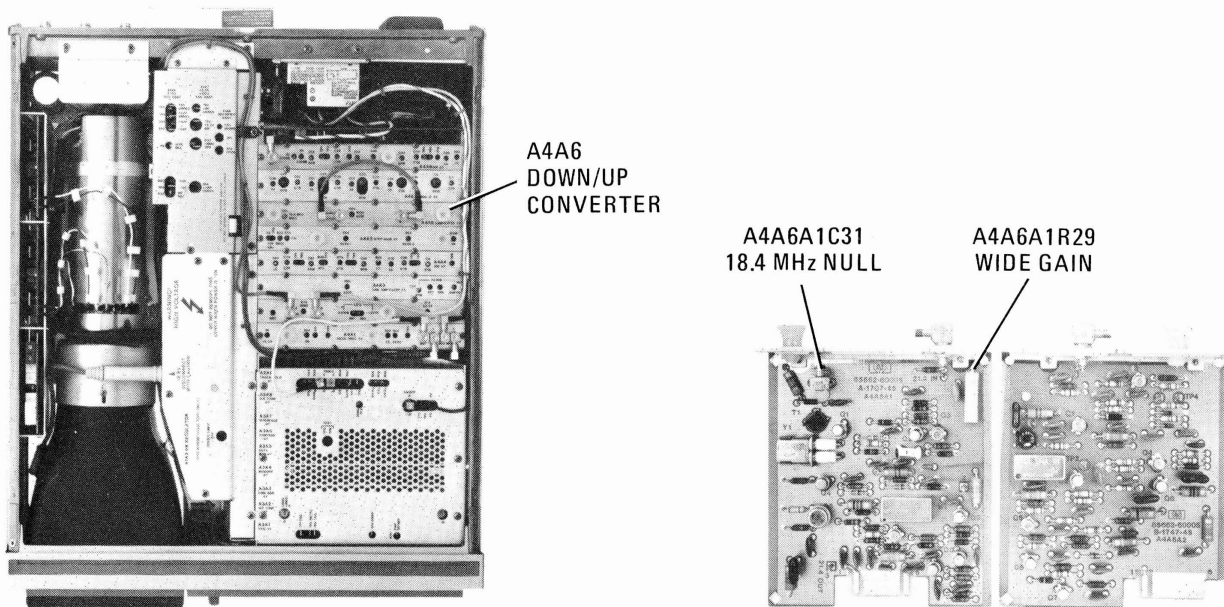


Figure 5-37. Location of Down/Up Converter Adjustments

ADJUSTMENTS

5-26. TIME BASE ADJUSTMENT

REFERENCE:

A16 20 MHz Reference

RELATED PERFORMANCE TEST:

Center Frequency Readout Accuracy Test

DESCRIPTION:

The internal 10 MHz time base is adjusted for frequency accuracy. This procedure does not adjust for long-term drift or aging rate. It adjusts only short-term accuracy. To properly adjust the time base, a frequency standard whose accuracy is known to be better than that of the 8568A Time Base is required. Refer to Frequency Reference specifications in Section I, Table 1-1 for complete specifications for the internal time base.

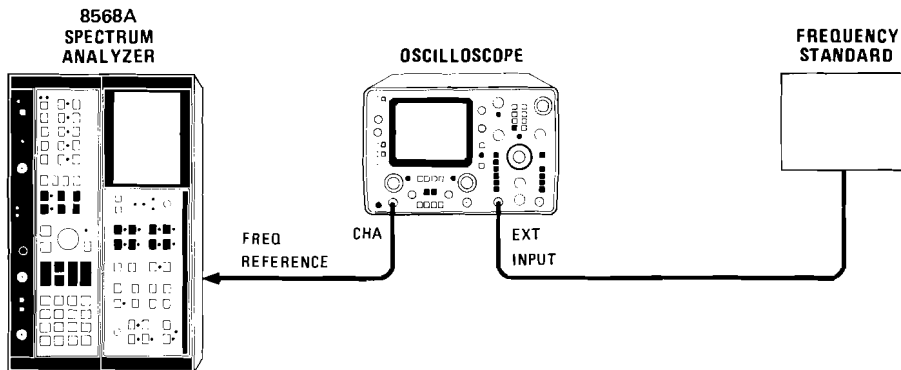


Figure 5-38. Time Base Adjustment Setup

EQUIPMENT:

Oscilloscope.....	HP 1741A
Frequency Standard	any 1,2,5, or 10 MHz
	Frequency standard with accuracy of $\pm 1 \times 10^{-9}$
	or better such as HP 5061A

PROCEDURE:

1. Position instrument on right side as shown in Figure 5-38 and remove bottom cover.
2. Set LINE switch to ON.

ADJUSTMENTS

5-26. TIME BASE ADJUSTMENT (Cont'd)

NOTE

Primary power must have been applied to the instrument for at least 48 hours before adjusting the internal time base.

3. Connect a frequency standard whose accuracy is known to be better than that of the internal time base, such as an HP 5061A Cesium Beam, to the EXT TRIGGER input of the oscilloscope.
4. Connect the output of the internal time base, rear-panel FREQ REFERENCE output J3, to the Channel A input of the oscilloscope.
5. Set oscilloscope controls as follows:

TIME/DIV .....	.1 μ sec
CHAN A VOLTS/DIV .....	.1
MAG x 10 pushbutton	IN
DISPLAY A pushbutton	IN
EXT/INT trigger pushbutton	IN
SWEEP VERNIER control	CAL
TRIGGER HOLDOFF	MIN
AC/DC trigger pushbutton	OUT
POS/NEG trigger pushbutton	OUT
TRIGGER LEVEL control	Centered

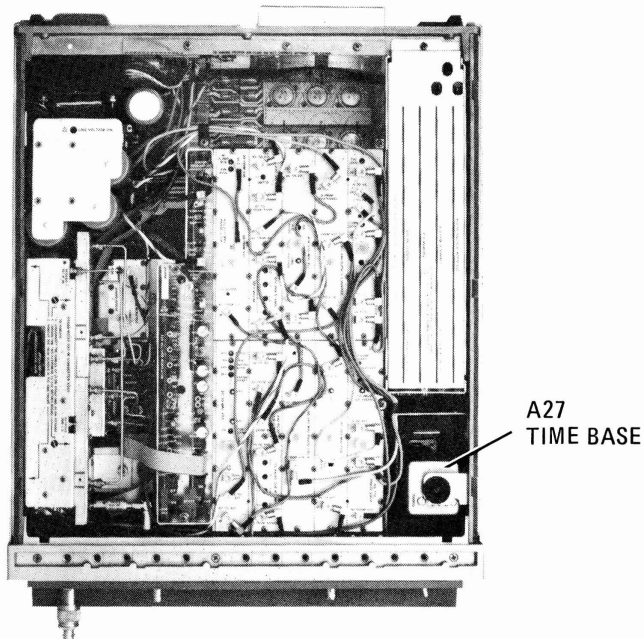


Figure 5-39. Location of Time Base Adjustments

ADJUSTMENTS

5-26. TIME BASE ADJUSTMENT (Cont'd)

6. Adjust TRIGGER LEVEL control as necessary to display sine-wave signal on oscilloscope.
 7. Adjust A27 COARSE frequency adjust for minimum sideways movement of the displayed signal. Adjust A27 FINE frequency adjust for minimum sideways movement of displayed signal. No sideways movement indicates that frequency standard and internal time base frequency are the same. Refer to Figure 5-39 for location of A27 Time Base.
 8. Note the time in which it takes one cycle of the sine-wave to cross the oscilloscope display. When properly adjusted, it should take greater than 10 seconds for one cycle of the sine-wave to cross the oscilloscope CRT display.
-

5-27. 20 MHz REFERENCE ADJUSTMENTS

REFERENCE:

A16 20 MHz Reference

RELATED PERFORMANCE TEST:

Calibrator Amplitude Accuracy Test

DESCRIPTION:

The 20 MHz output is peaked and amplitude checked for proper power level then the INTERNAL REFERENCE output level is checked for proper output level as compared to input from A27 Time Base. Finally, the COMB DRIVE and CAL OUTPUT signals are adjusted for proper power levels.

ADJUSTMENTS

5-27. 20 MHz REFERENCE ADJUSTMENTS (Cont'd)

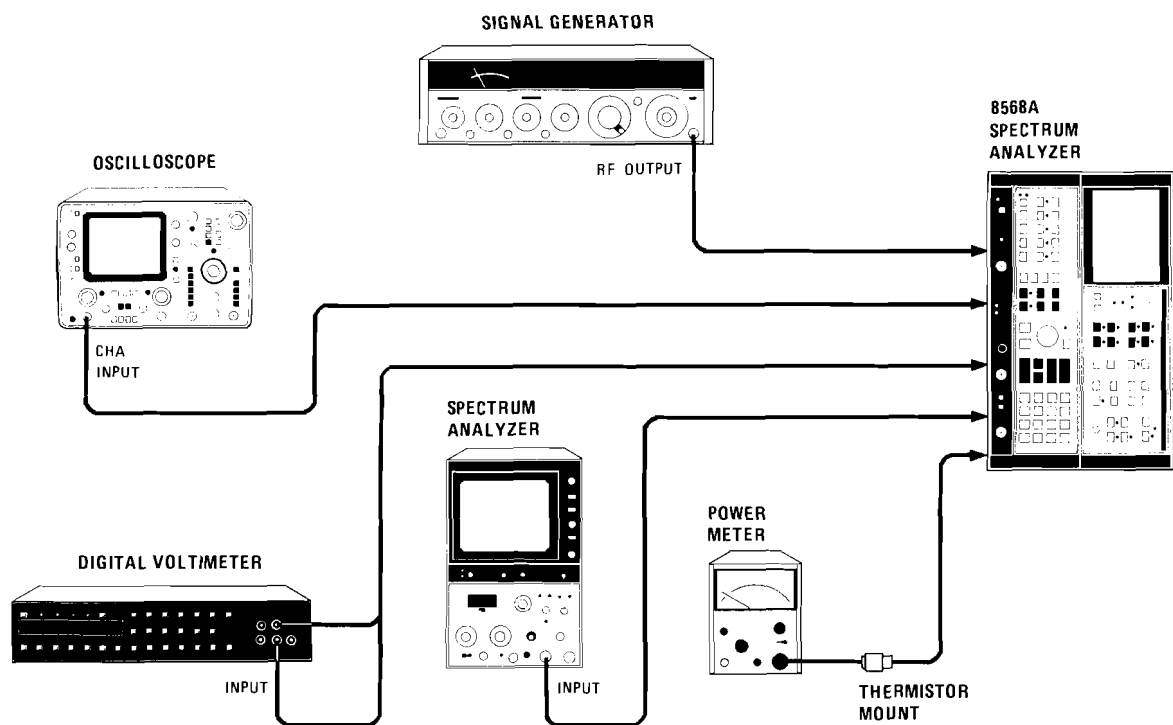



Figure 5-40. 20 MHz Reference Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM)	HP 3455A
Signal Generator	HP 8640B
Power Meter/Thermistor Mount	HP 432A/478A
Spectrum Analyzer	HP 8558B/182T
Oscilloscope	HP 1741A

PROCEDURE:

1. Position instrument on right side as shown in Figure 5-40 and remove bottom cover. Remove A16 20 MHz Reference and install on extender.
2. Set LINE switch to ON and press  pushbutton.
3. Set rear-panel FREQ REFERENCE INT/EXT switch to INT. Connect Power Meter/Thermistor Mount to output of Time Base, A27J1. Note Power Meter indication for reference later.
4. Reconnect A27 Time Base output to A16 20 MHz Reference input, A16J1.

ADJUSTMENTS

5-27. 20 MHz REFERENCE ADJUSTMENTS (Cont'd)

5. Short A16TP4 to Ground. Connect DVM to A16TP1. Connect A16J3 to input of Spectrum Analyzer. Set Spectrum Analyzer controls to view a 20 MHz signal on a 1 dB/Division scale.
6. Adjust A16 COMB DRIVE A16R31 for DVM indication of $> +0.1$ Vdc. Disconnect DVM. (If DVM remains connected, it may load circuit.) Refer to Figure 5-41 for location of adjustment.
7. Adjust A16 DOUBLER A16T1 to lower signal peak approximately 3 dB. Adjust A16 CENTER FREQ A16C11 to peak signal on spectrum analyzer display. Next, adjust A16 DOUBLER A16T1 for signal peak.

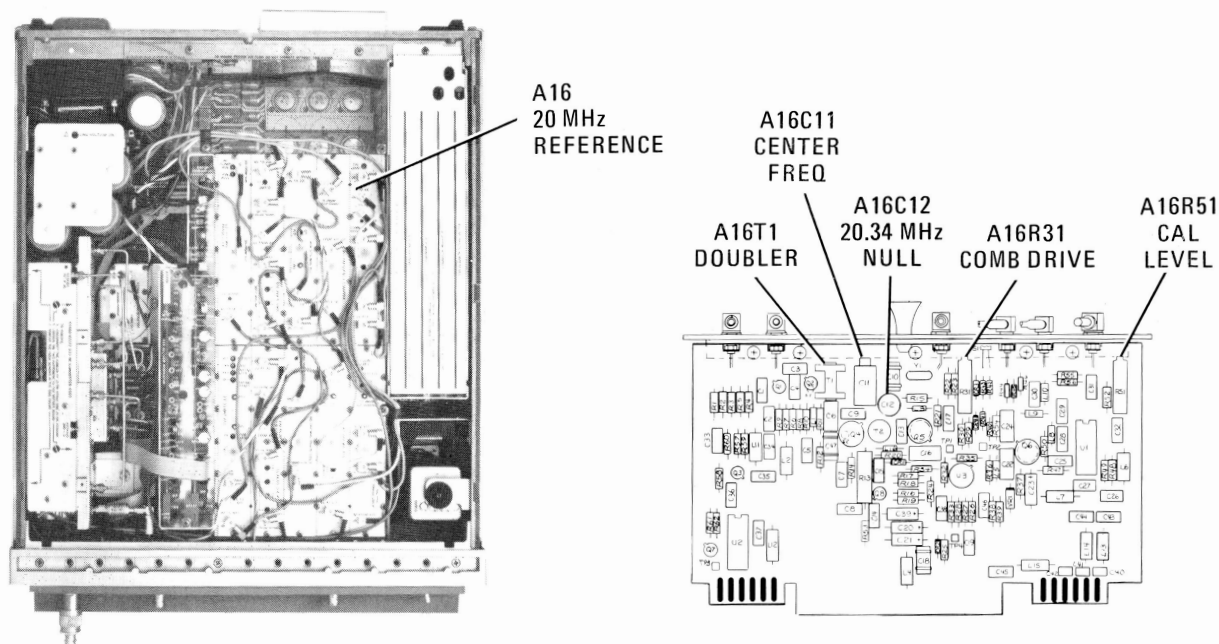


Figure 5-41. Location of 20 MHz Reference Adjustments

8. Disconnect A27 Time Base from A16J1 and connect output of Signal Generator to A16J1. Set output of Signal Generator for $10.17 \text{ MHz} \pm 0.01 \text{ MHz}$ at approximately +3 dBm. Set Spectrum Analyzer controls to view a 20.34 MHz signal.
9. Adjust A16 20.34 MHz NULL A16C12 for minimum 20.34 MHz signal at A16J3 as indicated by Spectrum Analyzer display. With signal nulled, the plates of the NULL adjustment capacitor should be meshed approximately half way. If fully meshed or fully unmeshed, a circuit malfunction is indicated. Refer to Figure 5-41 for location of adjustment.
10. Disconnect Signal Generator from A16J1 and reconnect A27 Time Base A16J1.
11. Connect Power Meter/Thermistor mount to rear-panel INT REF OUT connector.

ADJUSTMENTS

5-27. 20 MHz REFERENCE ADJUSTMENTS (Cont'd)

12. Power Meter indication should be no more than 5 dB less than that noted in Step 1 (A27 Time Base output).
13. Disconnect A16TP4 from Ground. Connect Power Meter/Thermistor Mount to A16J3.
14. Adjust A16 COMB DRIVE A16R31 for Power Meter indication of $+10.0 \text{ dBm} \pm 1.0 \text{ dB}$.
15. Connect Power Meter/Thermistor Mount to A16J4. Power Meter indication should be at least -15 dBm .
16. Connect Power Meter/Thermistor Mount to A16J5. Power Meter indication should be at least -10 dBm .
17. Connect Oscilloscope to A16TP3 and adjust controls to view a 10 MHz signal.
18. Oscilloscope display should be a 10 MHz square wave signal of TTL level; less than $+0.8\text{V}$ to greater than $+2.7\text{V}$.
19. Install A16 20 MHz Reference without extender.
20. Connect Power Meter/Thermistor Mount to front-panel CAL OUTPUT.
21. Adjust A16 CAL LEVEL A16R51 for power meter indication of $-10.0 \text{ dBm} \pm 0.2 \text{ dB}$. Refer to Figure 5-41 for location of adjustment.
22. The A23A6 Comb Generator must be readjusted after adjusting the 20 MHz Reference. Refer to Paragraph 5-36 for adjustment procedure.

5-28. 249 MHz PHASE LOCK OSCILLATOR ADJUSTMENTS

REFERENCE:

A7 249 MHz Phase Lock Oscillator

DESCRIPTION:

Two Center Frequencies are chosen and keyed in which will tune the 249 MHz Oscillator to its low-end frequency and high-end frequency. The voltage is monitored with a DVM at the output of the Oscillator and the Oscillator frequency is adjusted to produce the proper dc voltage output for each frequency (low-end and high-end). Next, the 500 kHz Trap is adjusted to null the 500 kHz sidebands using the sixth harmonic of the 249 MHz signal.

ADJUSTMENTS

5-28. 249 MHz PHASE LOCK OSCILLATOR ADJUSTMENTS (Cont'd)

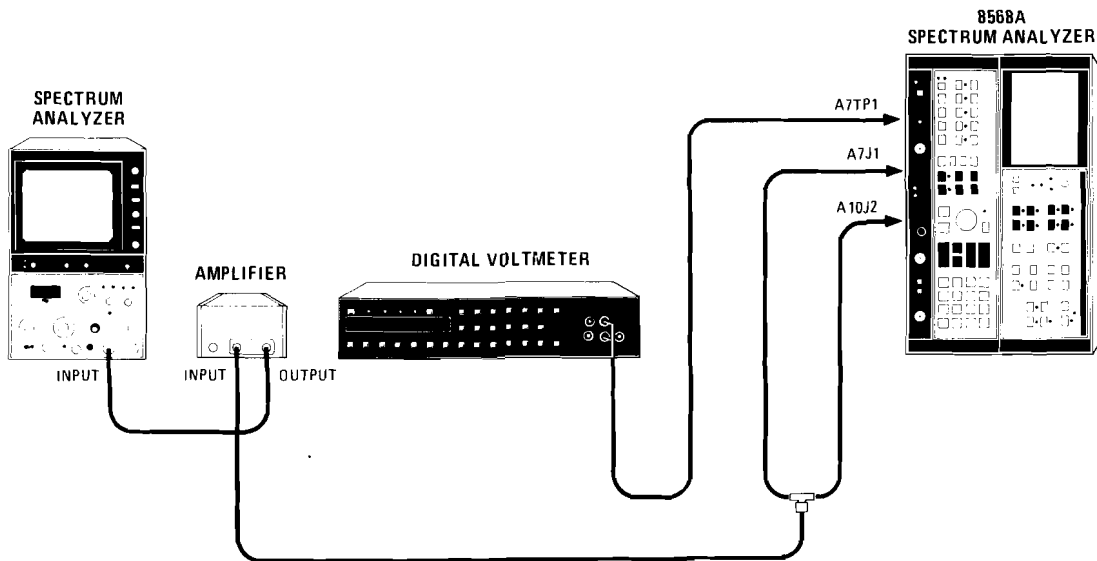


Figure 5-42. 249 MHz Phase Lock Oscillator Adjustments Setup

EQUIPMENT:

Spectrum Analyzer	HP 182T/8558B
Amplifier	HP 8447F
Digital Voltmeter (DVM)	HP 3455A

PROCEDURE:

1. Place instrument on right side with IF-Display Section facing right as shown in Figure 5-42.
2. Set LINE switch to ON and press **INSTR PRESET** pushbutton.
3. Connect DVM to A7TP1.
4. Key in **CENTER FREQUENCY** 17.6 MHz, **CF STEP SIZE** 500 kHz, and **FREQUENCY SPAN** 0 Hz on 8568A Spectrum Analyzer.

PLO Adjustment

5. Adjust A7 PLO A7C3 and A7L2 for DVM indication greater than +5.5 Vdc. Refer to Figure 5-43 for location of adjustment.
6. Key in **CENTER FREQUENCY** 37.1 MHz.

ADJUSTMENTS

5-28. 249 MHz PHASE LOCK OSCILLATOR ADJUSTMENTS (Cont'd)

7. DVM indication should be less than +17.2 Vdc. If not, adjust A7 PLO A7C3 for DVM indication less than +17.2 Vdc.
8. Key in 17.6 MHz and check for DVM indication greater than +5.5 Vdc.
9. Repeat Steps 5 through 8 until DVM indication is greater than +5.5 Vdc at center frequency of 17.6 MHz and less than +17.2 Vdc at center frequency of 37.1 MHz.

500 kHz Trap Adjustment

10. Press pushbutton. Key in 16.5 MHz and 0 Hz.
11. Unplug cable from A7J1 and connect it to one branch of a tee. Using a short coaxial cable, connect the other branch of the tee back to A7J1. Connect the stem of the tee to the input of the Amplifier as indicated in Figure 5-23.
12. Connect the output of the Amplifier to the input of the 8558B Spectrum Analyzer.
13. Tune the 8558B Spectrum Analyzer frequency to locate the sixth harmonic of the 249 MHz signal. Locate the 500 kHz sideband on this sixth harmonic signal.
14. Adjust A7 500 kHz TRAP adjustments A7L15 and A7L17 to null the sideband.

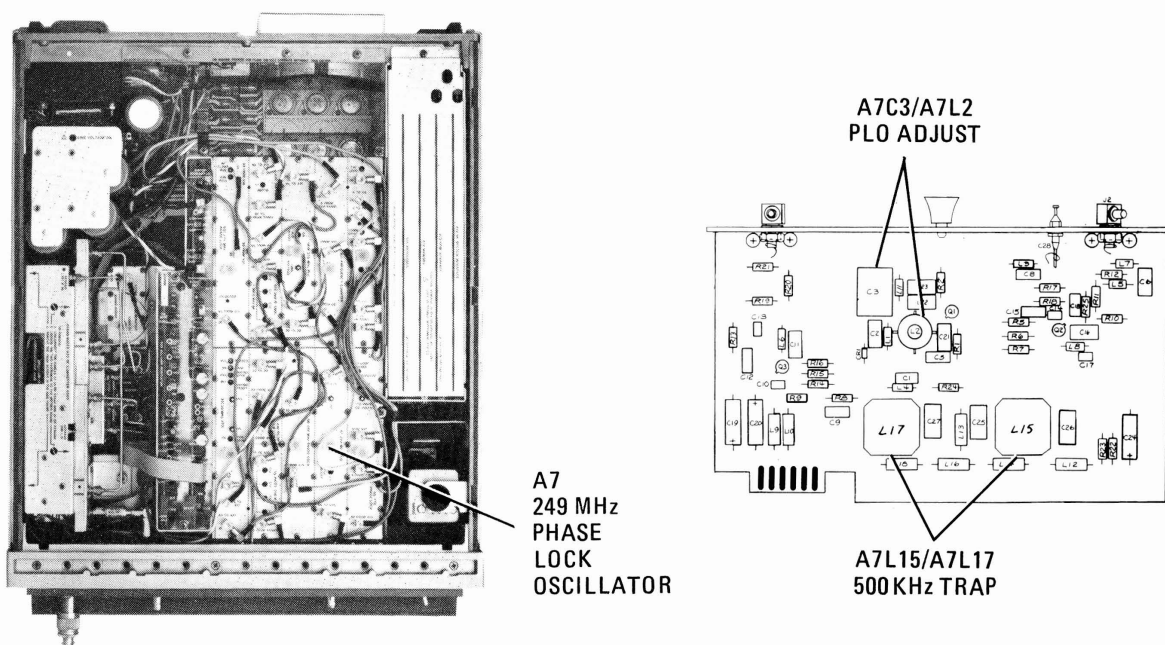


Figure 5-43. Location of 249 MHz PLO Adjustments

ADJUSTMENTS

5-29. 275 MHz PHASE LOCK OSCILLATOR ADJUSTMENT

REFERENCE:

A18 275 MHz Phase Lock Oscillator

A21 275 MHz Phase Lock

DESCRIPTION:

The 275 MHz Phase Lock Oscillator frequency is adjusted using a DVM.

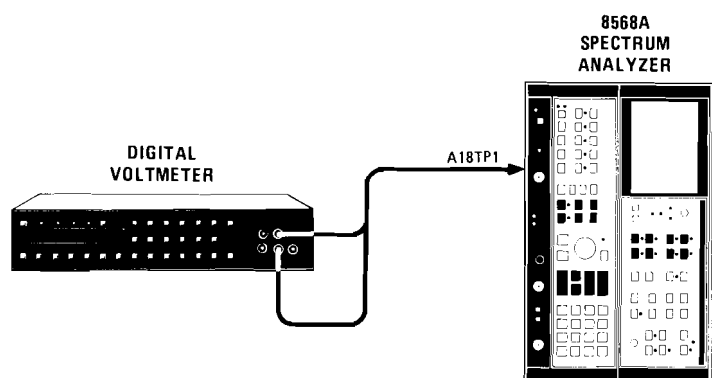


Figure 5-44. 275 MHz Phase Lock Oscillator Adjustment Setup

EQUIPMENT:

Digital Voltmeter (DVM) HP 3455A

PROCEDURE:

1. Place instrument on right side with IF-Display Section facing right as shown in Figure 5-44 with bottom cover removed. Remove clear plastic cover over printed circuit board area.
2. Set LINE switch to ON and press pushbutton.
3. Set controls as follows:

. 19.850000 MHz
 1 MHz
MARKER

ADJUSTMENTS

5-29. 275 MHz PHASE LOCK OSCILLATOR ADJUSTMENT (Cont'd)

- Using DATA control knob on 8568A, adjust Marker to position 1/2 major division from right edge of graticule. Key in .
- Connect DVM to A18TP1 (on lid).
- Adjust A18 PLO ADJUST A18C8 for DVM indication of $+6.5 \text{ Vdc} \pm 0.5 \text{ Vdc}$. Refer to Figure 5-45 for location of adjustment.

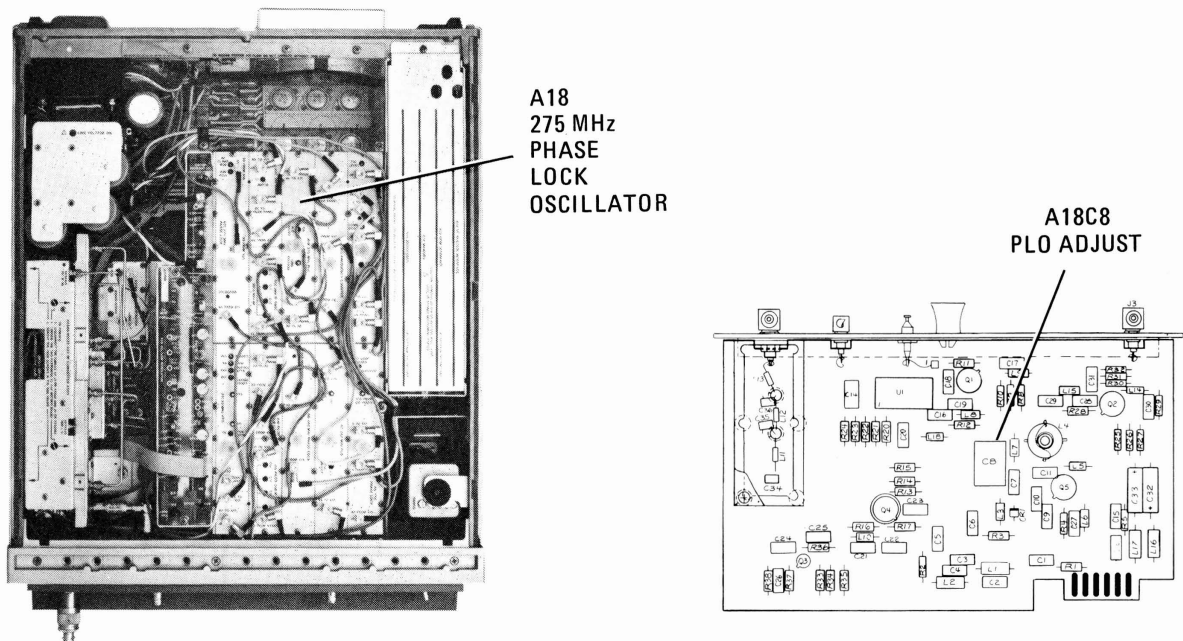


Figure 5-45. Location of 275 MHz PLO Adjustment

- Disconnect test equipment from instrument and replace clear plastic cover over printed circuit board area.

ADJUSTMENTS

5-30. SECOND IF AMPLIFIER AND THIRD CONVERTER ADJUSTMENTS (Cont'd)

REFERENCE:

A19 Second IF Amplifier, A20 Third Converter

DESCRIPTION:

A sweep oscillator is used to input a signal into the A19 Second IF Amplifier of 301.4 MHz at -20 dBm. The output of the amplifier is displayed on a frequency response test set (swept amplitude analyzer). The amplifier is adjusted for a bandpass of greater than 7 MHz and less than 14 MHz centered at 301.4 MHz, a gain of greater than 11 dB, and ripple of less than ± 0.5 dB. A spectrum analyzer is used to view the output of the 280 MHz Oscillator on the A20 Third Converter and the oscillator is adjusted for maximum signal output.

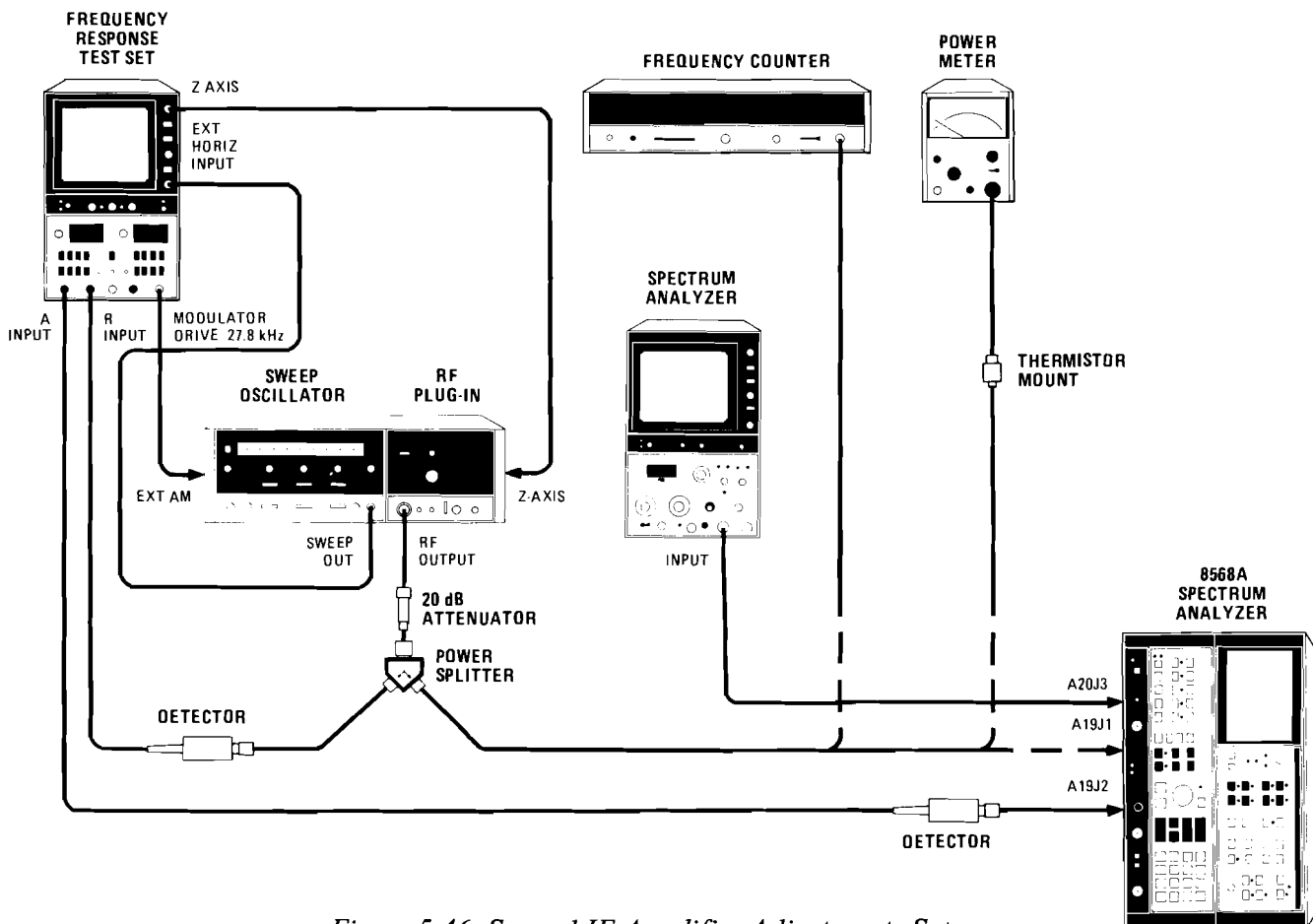


Figure 5-46. Second IF Amplifier Adjustments Setup


ADJUSTMENTS

5-30. SECOND IF AMPLIFIER AND THIRD CONVERTER ADJUSTMENTS (Cont'd)

EQUIPMENT:

Sweep Oscillator/RF Plug-In	HP 8620C/86222A
Frequency Response Test Set	HP 8755L
Power Splitter	HP 11667A
Power Meter/Thermistor Mount	HP 432A/478A
Frequency Counter	HP 5340A
20-dB Attenuator	HP 8491A, Opt. 020
Test Cables; BNC to SMB Snap-On	Part of Service Accessories
Spectrum Analyzer	HP 182T/8558B

PROCEDURE:

1. Position instrument on right side as shown in Figure 5-46 with bottom cover removed. Remove clear plastic cover over printed circuit board area.
2. Set LINE switch to ON and press  pushbutton.

Second IF Amplifier Adjustments

3. Set RF Plug-In POWER LEVEL fully counterclockwise. Press sweep oscillator CW pushbutton and set TIME-SECONDS switch to 1 —.1; set Vernier fully clockwise.
4. Connect 20-dB Attenuator and power splitter to OUTPUT of RF Plug-In. Connect one arm of power splitter to R input of frequency response test set through detector.
5. Connect other arm of power splitter to frequency counter. Increase POWER LEVEL on RF Plug-In until frequency counter begins to trigger.
6. Adjust CW frequency on sweep oscillator for frequency counter indication of 301.4 MHz.
7. Press MARKER SWEEP pushbutton on sweep oscillator. Set MODE to MANUAL and MANUAL control fully counterclockwise.
8. Adjust START MARKER for frequency counter indication of 291.4 MHz.
9. Set MANUAL control fully clockwise.
10. Adjust STOP MARKER for frequency counter indication of 311.4 MHz.
11. Set MODE to AUTO. Press CW pushbutton.

ADJUSTMENTS

5-30. SECOND IF AMPLIFIER AND THIRD CONVERTER ADJUSTMENTS (Cont'd)

12. Disconnect frequency counter from power splitter and connect power meter and thermistor mount to power splitter.
13. Adjust RF Plug-In POWER LEVEL for power meter indication of -20 dBm.
14. Disconnect power meter and thermistor mount and connect power splitter output to A19J1 using a BNC to SMB test cable.
15. Connect A19J2 to A input of frequency response test set through detector using another BNC to SMB test cable.
16. Connect sweep oscillator SWEEP OUT to frequency response test set EXT INPUT. Connect MODULATOR DRIVE to sweep oscillator rear-panel EXT AM connector. Connect sweep oscillator rear-panel Z-Axis to frequency response test set rear-panel Z-Axis. Push MARKER SWEEP pushbutton.
17. Set all CHANNEL 2 pushbuttons on frequency response test set OUT. This is accomplished by pushing one of the buttons in each row in partially so that the other buttons pop out.
18. Set CHANNEL 1 pushbuttons and controls as follows:

REFERENCE LEVEL

Vernier	OFF
Thumbwheels	00 dB
dB/DIV	1

19. Push REFERENCE POSITION pushbutton.
20. Adjust REFERENCE POSITION screwdriver adjustment, HORIZONTAL, and EXT VERNIER for a full ten division trace centered on the center graticule line.
21. Push A/R pushbutton. Set REFERENCE LEVEL to $+11$ dB using thumbwheels.
22. Center horizontal graticule line is now $+11$ dBm. Horizontal calibration is 2 MHz/Division and vertical calibration is 1 dB/Division. 3-dB point is 3 divisions down from lowest point on flat portion of response curve.
23. Adjust A19 301.4 MHz Bandpass Filter, A19C9, A19C10, A19C11, and A19C12, for best bandpass filter response with the following characteristics: gain greater than $+11$ dB, 3-dB bandwidth greater than 7 MHz and less than 14 MHz, and ripple less than ± 0.5 dB (less than 1.0 dB between lowest and highest point over flat portion of response curve). Refer to Figure 5-47 for location of adjustments. Figure 5-48 shows typical response.

ADJUSTMENTS

5-30. SECOND IF AMPLIFIER AND THIRD CONVERTER ADJUSTMENTS (Cont'd)

24. Disconnect cables from A19J1 and A19J2 and reconnect instrument cables.

Third Converter Adjustment

25. Disconnect 83 (gray/orange) cable from A20J3 and connect A20J3 to the input of the HP 8558B Spectrum Analyzer. Tune the spectrum analyzer to view a 280 MHz signal at approximately 0 dBm.
26. Adjust A20 AMPTD A20L1 for maximum signal level as indicated on spectrum analyzer display.
27. Disconnect spectrum analyzer and reconnect 83 (gray/orange) cable to A20J3.

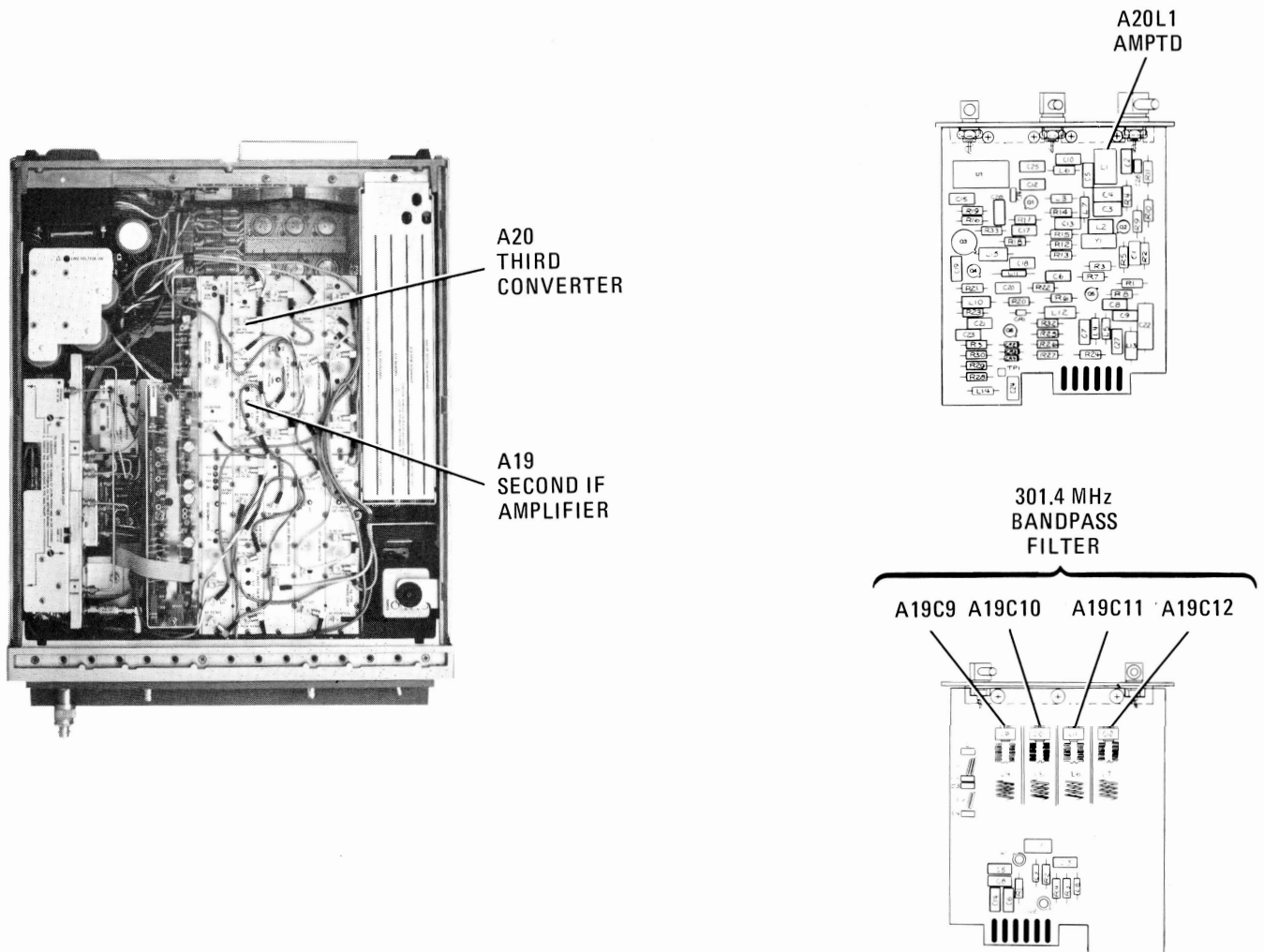


Figure 5-47. Location of 301.4 MHz Bandpass Filter and 280 MHz AMPTD Adjustments

ADJUSTMENTS

5-30. SECOND IF AMPLIFIER AND THIRD CONVERTER ADJUSTMENTS(Cont'd)

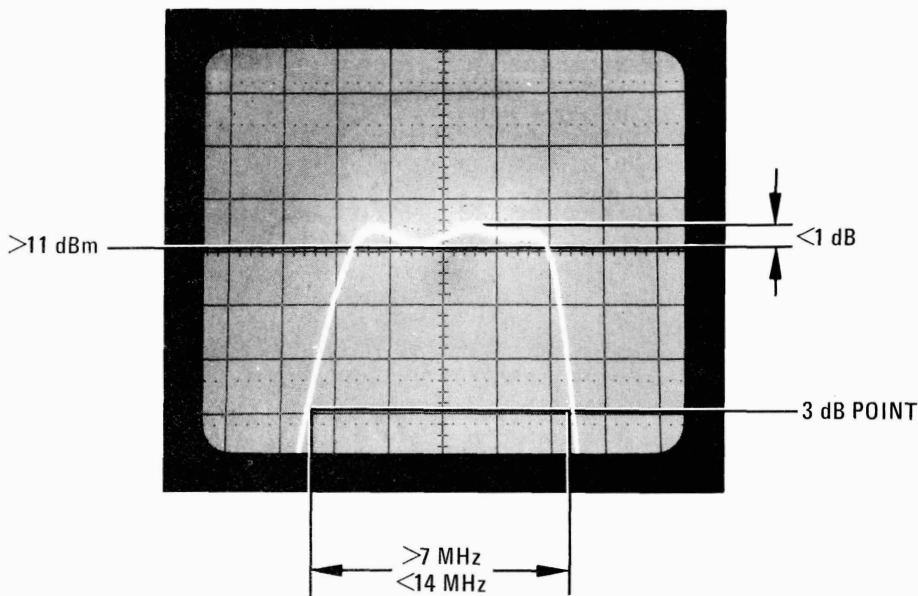


Figure 5-48. 301.4 MHz Bandpass Filter Adjustment Waveform

5-31. PILOT SECOND IF AMPLIFIER ADJUSTMENTS

REFERENCE:

A9 Pilot Second IF Amplifier, A10 Pilot Third Converter

DESCRIPTION:

A sweep oscillator is used to input a signal into the A9 Pilot Second IF Amplifier of 269 MHz at -20 dBm. The output of the amplifier is displayed on a frequency response test set (swept amplitude analyzer). The amplifier is adjusted for a bandpass of greater than 21 MHz centered at 269 MHz, a gain of greater than $+10$ dB, and ripple of less than ± 1.0 dB.

ADJUSTMENTS

5-31. PILOT SECOND IF AMPLIFIER ADJUSTMENTS (Cont'd)

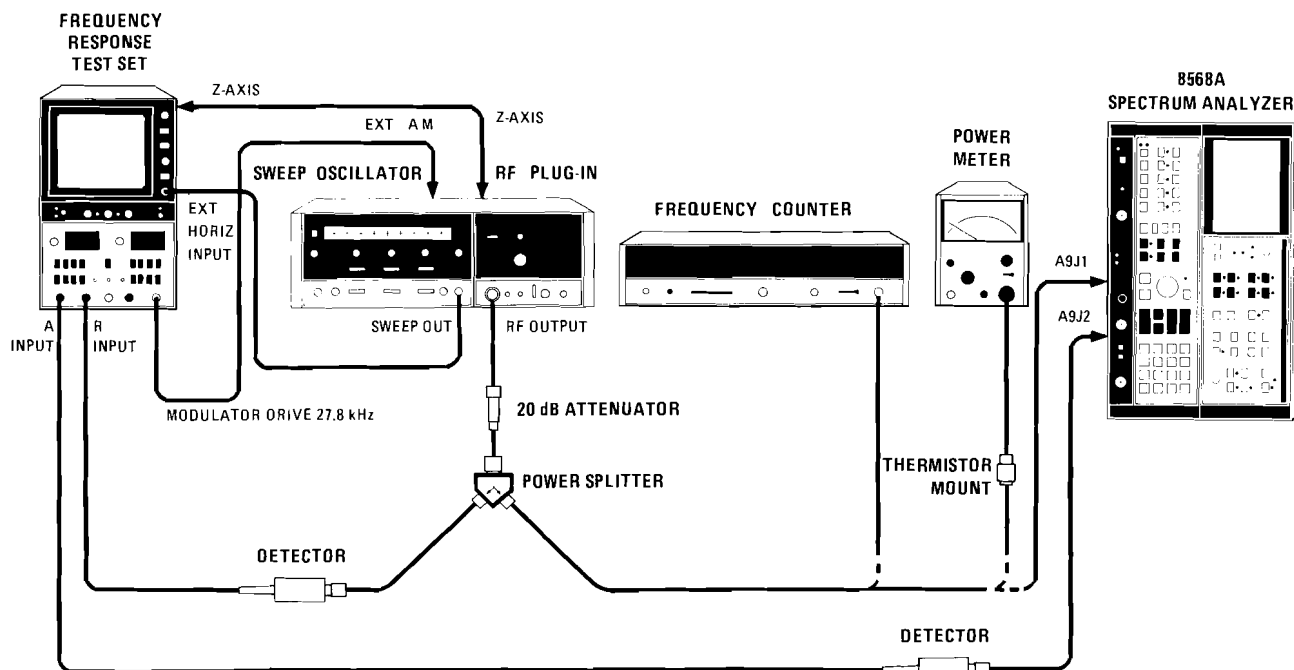


Figure 5-49. Pilot Second IF Amplifier Adjustments Setup

EQUIPMENT:

Sweep Oscillator/RF Plug-In	HP 8620C/86222A
Frequency Response Test Set	HP 8755L
Power Splitter.....	HP 11667A
Power Meter/Thermistor Mount	HP 432A/478A
Frequency Counter.....	HP 5340A
20-dB Attenuator	HP 8491A, Opt. 020
Test Cables; BNC to SMB	Part of Service Accessories

PROCEDURE:

1. Position instrument on right side as shown in Figure 5-49 with bottom cover removed. Remove clear plastic cover over printed circuit board area.
2. Set LINE switch to ON and press INSTR
PRESET pushbutton.
3. Set RF Plug-In POWER LEVEL fully counterclockwise. Press sweep oscillator CW pushbutton and set TIME-SECONDS switch to 1—.1; set Vernier fully clockwise.

ADJUSTMENTS

5-31. PILOT SECOND IF AMPLIFIER ADJUSTMENTS (Cont'd)

4. Connect 20-dB attenuator and power splitter to OUTPUT of RF Plug-In. Connect one arm of power splitter to R input of frequency response test set through detector.
5. Connect other arm of power splitter to frequency counter. Increase POWER LEVEL of RF Plug-In until frequency counter begins to trigger.
6. Adjust CW frequency on sweep oscillator for frequency counter indication of 269 MHz.
7. Press MARKER SWEEP pushbutton on sweep oscillator. Set MODE to MANUAL and MANUAL control fully clockwise.
8. Adjust START MARKER for frequency counter indication of 254 MHz.
9. Set MANUAL control fully clockwise.
10. Adjust STOP MARKER for frequency counter indication of 284 MHz.
11. Set MODE to AUTO. Press CW pushbutton.
12. Disconnect frequency counter from power splitter and connect power meter and thermistor mount to power splitter.
13. Adjust RF Plug-In POWER LEVEL for power meter indication of -20 dBm.
14. Disconnect power meter and thermistor mount and connect power splitter output to A9J1 using a BNC to SMB test cable.
15. Connect A19J2 to A input of frequency response test set through detector using another BNC to SMB test cable.
16. Connect sweep oscillator SWEEP OUT to frequency response test set EXT INPUT. Connect MODULATOR DRIVE to sweep oscillator rear-panel EXT AM connector. Connect sweep oscillator rear-panel Z-Axis to frequency response test set rear-panel Z-Axis. Push MARKER SWEEP pushbutton.
17. Set all CHANNEL 2 pushbuttons on frequency response test set OUT. This is accomplished by pushing one of the buttons in each row IN partially so that the other buttons pop out.
18. Set CHANNEL 1 pushbuttons and controls as follows:

REFERENCE LEVEL

Vernier	OFF
Thumbwheels.....	00 dBm
dB/DIV	1

ADJUSTMENTS

5-31. PILOT SECOND IF AMPLIFIER ADJUSTMENTS (Cont'd)

19. Push REFERENCE POSITION pushbutton.
20. Adjust REFERENCE POSITION screwdriver adjustment, HORIZONTAL, and EXT VERNIER for a full ten division trace, centered on the center graticule line.
21. Push A/R pushbutton. Set REFERENCE LEVEL to +10 dB using thumbwheels.
22. Center horizontal graticule line is now +10 dBm. Horizontal calibration is 3 MHz/Division and vertical calibration is 1 dB/Division. 3-dB point is 3 divisions down from lowest point on flat part of response curve.
23. Adjust A9 269 MHz Bandpass Filter, A9C9, A9C10, A9C11, and A9C12, for best bandpass filter response with the following characteristics: gain greater than +10 dB, 3-dB bandwidth greater than 21 MHz, and ripple less than ± 1.0 dB (less than 2.0 dB between lowest and highest point over flat portion of response curve). Refer to Figure 5-50 for location of adjustments. Figure 5-51 shows a typical response.
24. Disconnect cables from A9J1 and A9J2 and reconnect instrument cables.
25. Replace clear plastic cover over printed circuit board area.

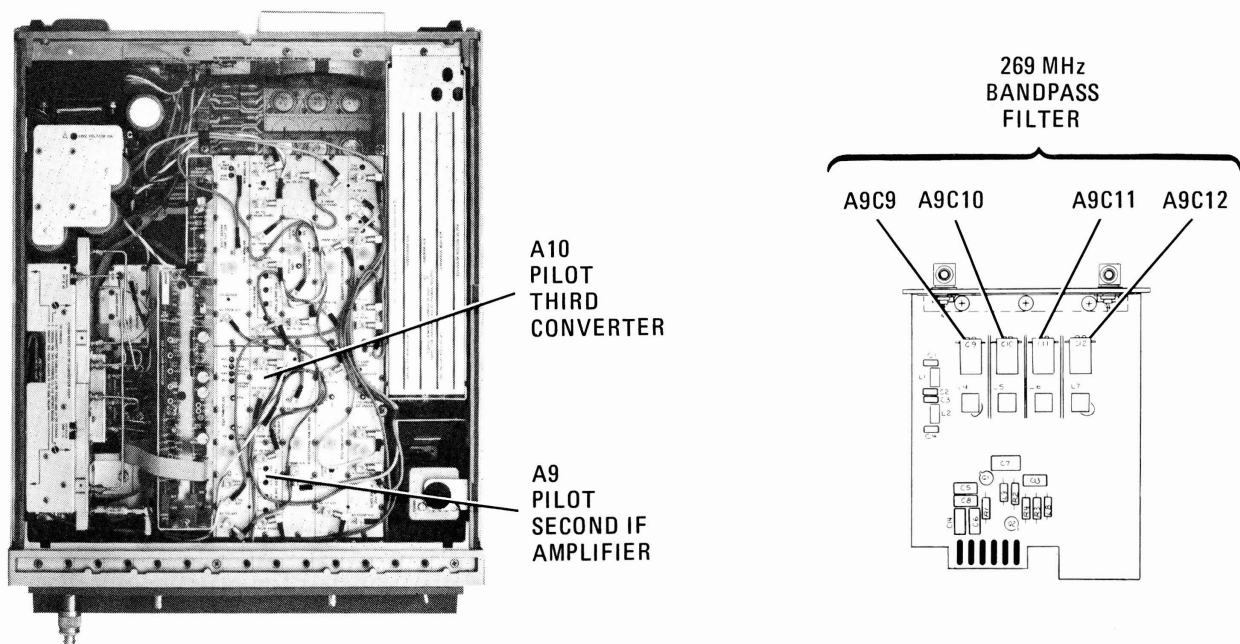


Figure 5-50. Location of 269 MHz Bandpass Filter Adjustments

ADJUSTMENTS

5-31. PILOT SECOND IF AMPLIFIER ADJUSTMENTS (Cont'd)

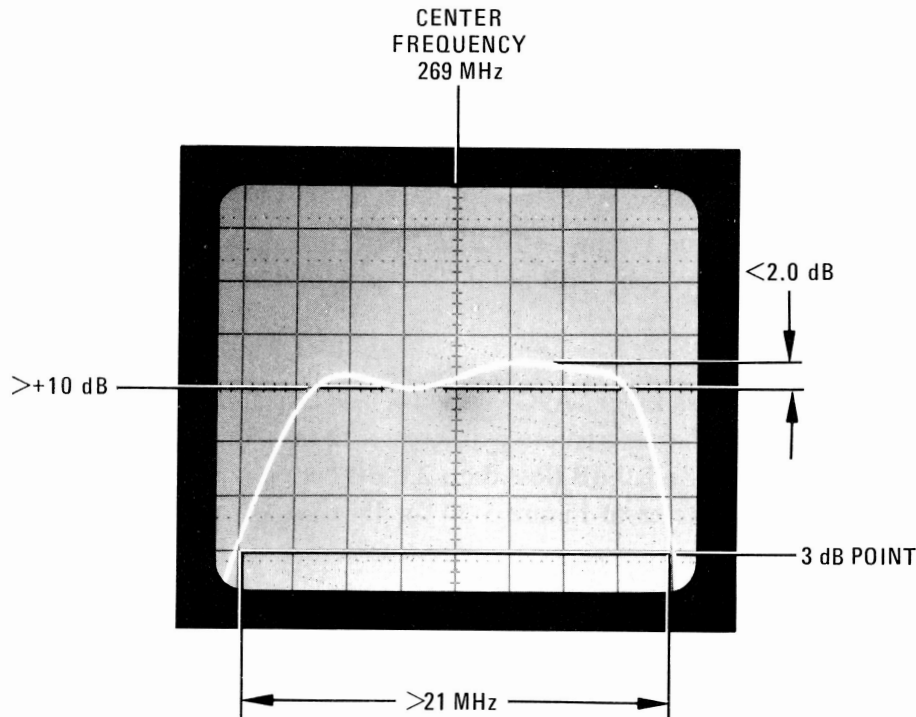


Figure 5-51. 269 MHz Bandpass Filter Adjustments Waveform

5-32. FREQUENCY CONTROL ADJUSTMENTS

REFERENCE:

A22 Frequency Control

RELATED PERFORMANCE TEST

Sweep Time Accuracy Test

Frequency Span Accuracy Test

Center Frequency Readout Accuracy Test

DESCRIPTION:

The sweep reference voltage is adjusted and then the sweep times are adjusted for proper tolerances. The sweep tune voltage is adjusted and then the YTO DAC, VTO DAC, and LSD VTO DAC is each adjusted to within its tolerance. Next, the Start and Stop frequencies are adjusted. FM Span is adjusted next for the proper amount of FM deviation.

ADJUSTMENTS

5-32. FREQUENCY CONTROL ADJUSTMENTS (Cont'd)

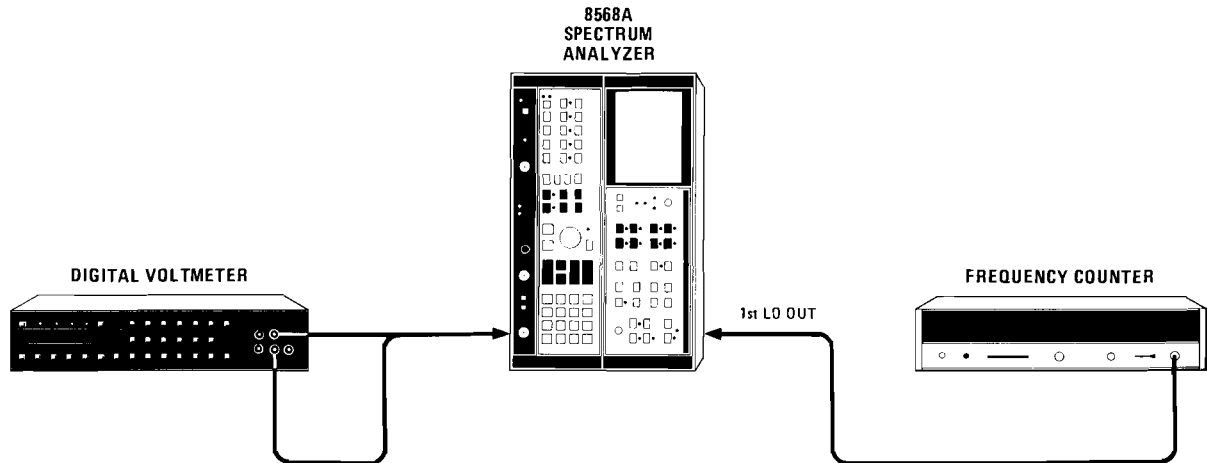


Figure 5-52. Frequency Control Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM)	HP 3455A
Frequency Counter	HP 5340A

PROCEDURE:

1. Place instrument on right side with IF-Display Section facing right as shown in Figure 5-52 and remove bottom cover.
2. Set LINE switch to ON and press **INSTR PRESET** pushbutton.
3. Connect DVM to A22TP15.
4. Adjust A22 REF A22R94 for DVM indication of $+10.00 \text{ Vdc} \pm 0.01 \text{ Vdc}$. Refer to Figure 5-53 for location of adjustment.
5. Connect DVM to A22TP13; ground lead to A22TP12.
6. Adjust A22 TUNE REF A22R17 for DVM indication of $-10.285 \text{ Vdc} \pm 0.001 \text{ Vdc}$. Refer to Figure 5-53 for location of adjustment.
7. Key in **CENTER FREQUENCY** 10 MHz, **FREQUENCY SPAN** 0 Hz, Trace A **CLEAR-WRITE**, Sweep **SINGLE**, Scale LIN.

ADJUSTMENTS

5-32. FREQUENCY CONTROL ADJUSTMENTS (Cont'd)

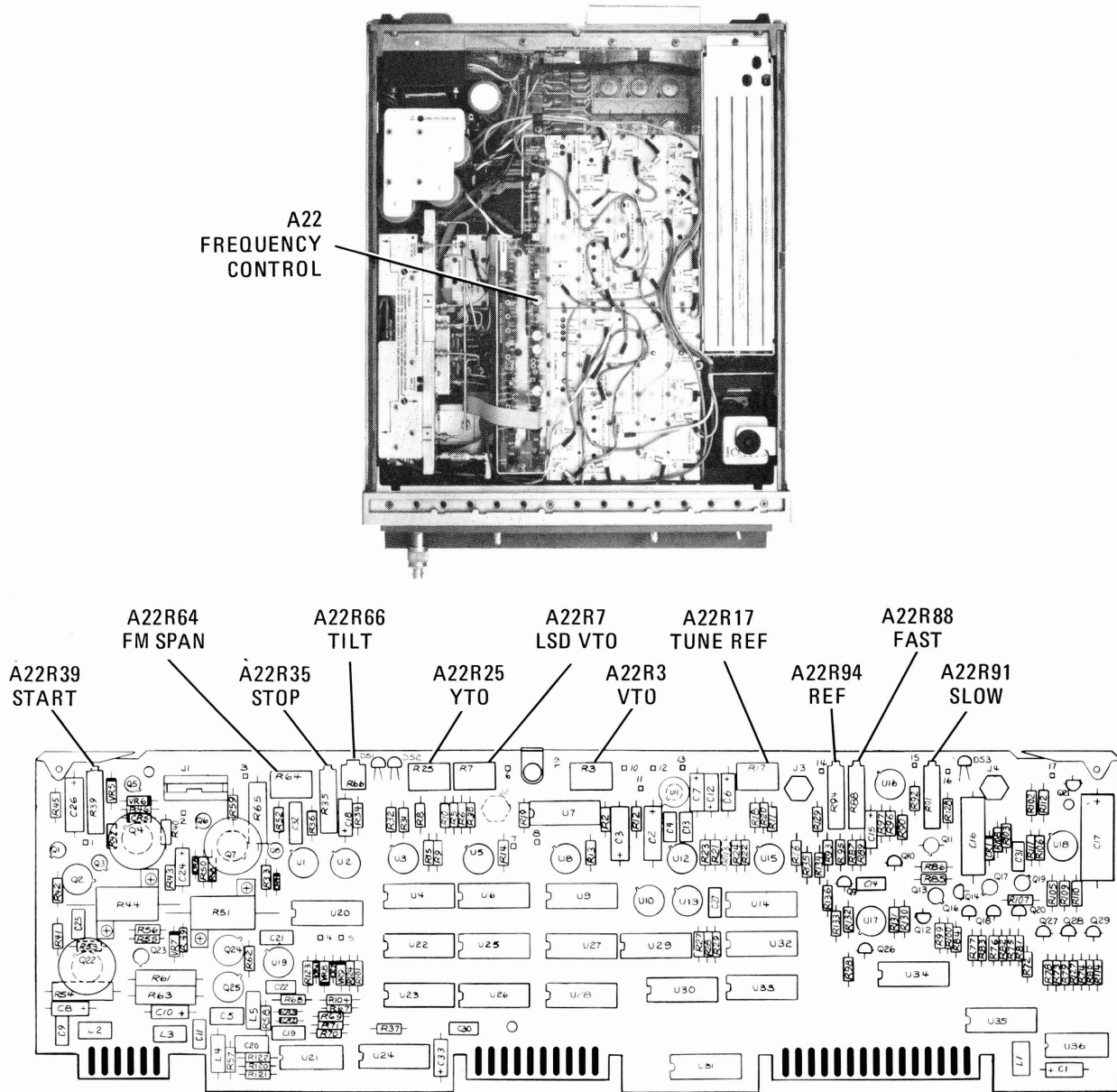


Figure 5-53. Location of Frequency Control Adjustments

Start-Up Time Measurement

8. Key in 1 sec, Marker . Adjust marker to left edge of CRT. Key in then key in three times. CRT annotation should indicate SCAN GEN measured sweep time. This is start-up time of sweep and must be subtracted from each sweep time measured in the following procedural steps. (Adding this value to the CRT indication effectively subtracts it from the actual sweep time.)

ADJUSTMENTS

5-32. FREQUENCY CONTROL ADJUSTMENTS (Cont'd)

9. Key in Marker then .

Slow Sweep Adjustment

10. Key in three times and note CRT annotation. CRT annotation should indicate SCAN GEN measured sweep time of 1.00 sec \pm 0.01 sec. To adjust sweep time, adjust A22 SLOW A22R88 slightly then key in and note new SCAN GEN measured sweep time as indicated by CRT annotation. Repeat this process until CRT annotation indicates a SCAN GEN measured sweep time of 1.00 sec \pm 0.01 sec plus the start-up time measured in Step 8. Refer to Figure 5-53 for location of adjustment.

Fast Sweep Adjustment

11. Repeat Start-Up Time Measurement procedure in Steps 8 and 9 for of 20 msec. Note value of measurement for reference later.
12. Key in 20 msec. Key in three times. Note measured sweep time as indicated by CRT annotation and determine the difference between this indication and 20.0 msec plus the start-up time measured in Step 11.
13. Adjust A22 FAST A22R91 so that the indication is in error by three times the difference noted in Step 12 and in the opposite direction to the difference noted using the same process as in Step 10; Adjust the control, then key in and note the new measured sweep time as indicated by the CRT annotation. Refer to Figure 5-53 for location of adjustment.
14. Repeat the adjustments in Steps 8 through 13 until the measured sweep time at 20 msec is 20.00 msec plus the start-up time measured in Step 11 \pm 0.01 msec and the measured sweep time at 1 sec is 1.00 sec plus the start-up time measured in Step 8 \pm 0.01 sec.

YTO and VTO DAC Adjustments

15. Key in 0 MHz. CRT annotation should indicate DACS 0.
16. Connect DVM to A22TP6. If using an HP 3455A DVM, press STORE Z, ENTER Y, 1 (labeled in blue), STORE Y, then SCALE. If not using an HP 3455A DVM, note voltage indication for reference later.
17. Key in 1023 MHz. (CRT annotation may still indicate DACS 0.)
18. Adjust A22 YTO A22R25 for DVM indication of +10.230 Vdc \pm 0.001 Vdc. If not using an HP 3455A DVM, adjust for specified voltage plus the DVM indication noted in Step 16. Refer to Figure 5-53 for location of adjustment.
19. Connect DVM to A22TP9.

ADJUSTMENTS

5-32. FREQUENCY CONTROL ADJUSTMENTS (Cont'd)

20. Key in **SHIFT** | **CF STEP SIZE** 0 kHz 0 Hz. If using an HP 3455A DVM, press STORE Z, SCALE. If not using an HP 3455A DVM, note voltage indication for reference later.
21. Key in **SHIFT** | **CF STEP SIZE** 1023 kHz.
22. Adjust A22 VTO A22R3 for DVM indication of $+10.230 \text{ Vdc} \pm 0.001 \text{ Vdc}$. If not using an HP 3455A DVM, adjust for specified voltage plus the DVM indication noted in Step 20. Refer to Figure 5-53 for location of adjustment.
23. Key in **SHIFT** | **CF STEP SIZE** 0 Hz 0 kHz. If using an HP 3455A DVM, press STORE Z, SCALE. If not using an HP 3455A DVM, note voltage indication for reference later.
24. Key in **SHIFT** | **CF STEP SIZE** 1023 Hz.
25. Adjust A22 LSD VTO A22R7 for DVM indication of $+0.0218 \text{ Vdc} \pm 0.0001 \text{ Vdc}$. If not using an HP 3455A DVM, adjust for specified voltage plus the DVM indication in Step 23. Refer to Figure 5-53 for location of adjustment.

START and STOP Adjustments

26. Connect frequency counter to rear-panel 1ST LO OUT connector.
27. Press **INSTR PRESET** | pushbutton then key in **SHIFT** | **CF STEP SIZE** . CRT annotation should indicate DACS 0.
28. Adjust A22 START A22R39 for frequency counter indication of $2.050 \text{ GHz} \pm 0.002 \text{ GHz}$. Refer to Figure 5-53 for location of adjustment.
29. Key in **SHIFT** | **CF STEP SIZE** 1023 MHz. CRT annotation should indicate DACS 0.
30. Adjust A22 STOP A22R35 for frequency counter indication of $3.7891 \text{ GHz} \pm 0.002 \text{ GHz}$. Refer to Figure 5-53 for location of adjustment.

FM SPAN Adjustment

31. Press **INSTR PRESET** | pushbutton, then key in **CENTER FREQUENCY** 10 MHz, **FREQUENCY SPAN** 20 MHz.
32. Connect CAL OUTPUT to SIGNAL INPUT.
33. Adjust A22 FM SPAN A22R64 so that the LO Feedthrough signal is centered on the left edge graticule and the 20 MHz CAL OUTPUT signal is centered on the right edge graticule. Refer to Figure 5-53 for location of adjustment.

ADJUSTMENTS

5-33. SECOND CONVERTER ADJUSTMENTS (Cont'd)

EQUIPMENT:

Frequency Counter	HP 5340A
Frequency Response Test	HP 8755L
Signal Generator	HP 8640B
Power Splitter	HP 11667A
500 MHz Low Pass Filter	Telonic TLS 450-7EE
Power Meter/Thermistor Mount	HP 432A/478A

PROCEDURE:

1. Remove A23 RF Converter assembly from 8568A Spectrum Analyzer. Removal and Installation procedures are contained in Volume 4, RF Section Service, Section IX, as a Repair procedure.
2. Position instrument on right side as shown in Figure 5-54 with RF Converter removed but with cables still connected.

Second LO Frequency and Shift Adjustments

3. Set 8568A Spectrum Analyzer LINE to ON and press INSTR
PRESET.

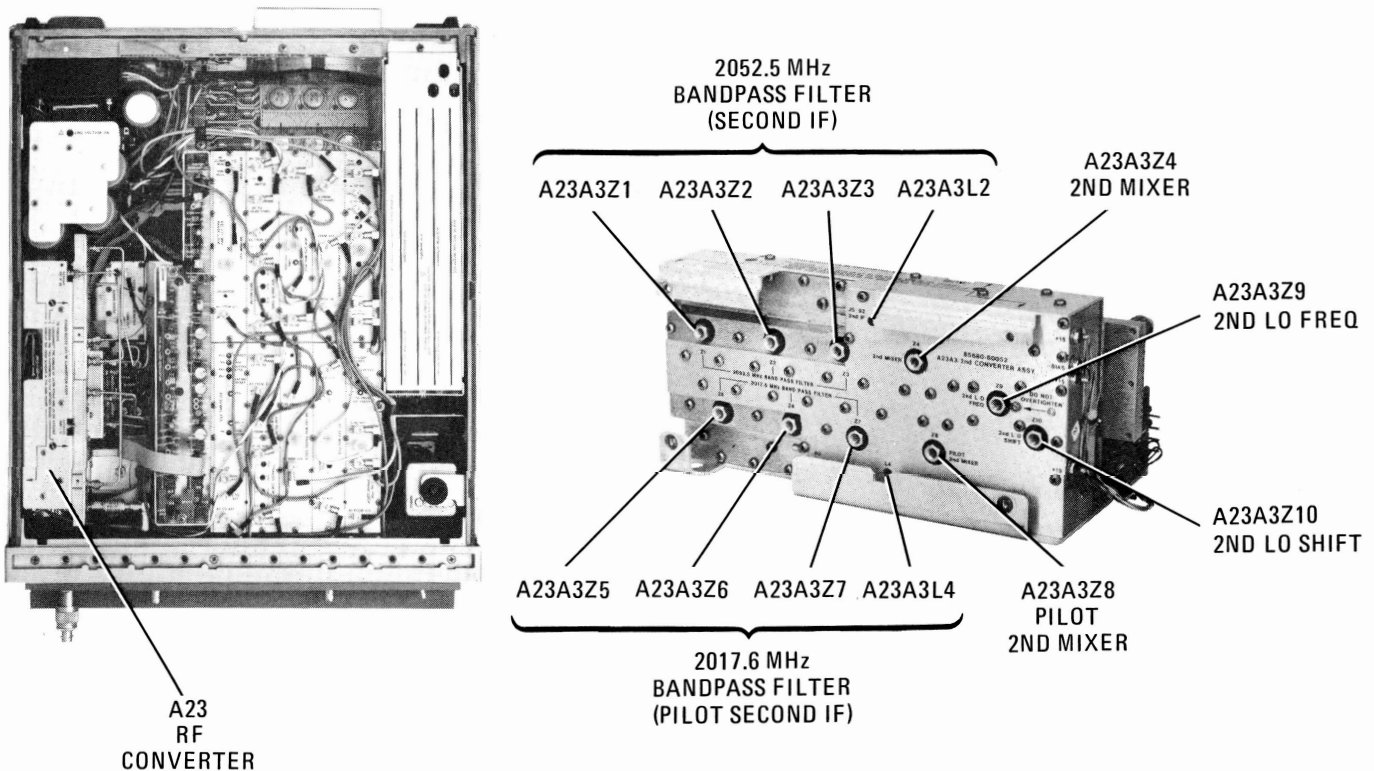












Figure 5-55. Location of Second Converter Adjustments











ADJUSTMENTS

5-33. SECOND CONVERTER ADJUSTMENTS (Cont'd)




4. Connect power meter to A23A3J3.
5. Adjust A23A3 2ND MIXER A23A3Z4 for maximum Power Meter indication. Refer to Figure 5-55 for location of adjustment.
6. Power meter indication should be -22 dBm or greater.
7. Disconnect power meter and connect frequency counter to A23A3J3.
8. Adjust A23A3 2ND LO FREQ A23A3Z9 for frequency counter indication of 1748.6 MHz ± 1.0 MHz. Refer to Figure 5-55 for location of adjustment.
9. Disconnect frequency counter and reconnect power meter to A23A3J3.
10. Readjust A23A3 2ND MIXER A23A3Z4 for maximum power indication.
11. Disconnect power meter from A23A3J3 and connect to A23A3J4.
12. Adjust A23A3 PILOT 2ND MIXER A23A3Z8 for maximum power meter indication. Refer to Figure 5-55 for location of adjustment.
13. Power meter indication should be -22 dBm or greater.
14. Disconnect power meter and connect frequency counter to A23A3J4.
15. Key in   to shift Second LO up and   to shift Second LO down.
16. Continue to shift Second LO up and down while adjusting A23A3 2ND LO SHIFT A23A3Z10 for a frequency difference of 5.0 MHz ± 0.1 MHz. Ignore the absolute value of either frequency. Clockwise rotation of A23A3Z10 decreases the frequency difference.
17. Key in   (Second LO shifted down).
18. Adjust A23A3 2ND LO FREQ A23A3Z9 for frequency counter indication of 1748.6 MHz ± 0.1 MHz.
19. Repeat Steps 15 through 18 until the specifications of Steps 16 and 18 are achieved.
20. Disconnect frequency counter and connect power meter to A23A3J4.
21. Shift Second LO up and down using   and   while adjusting A23A3 PILOT 2ND MIXER A23A3Z8 for equal power out in both states of the Second LO.

ADJUSTMENTS

5-33. SECOND CONVERTER ADJUSTMENTS (Cont'd)












22. Power difference between Second LO shifted up and shifted down should be less than 0.5 dB.
23. Disconnect power meter from A23A3J4 and connect to A23A3J3.
24. Shift Second LO up and down using   and   while adjusting A23A3 2ND MIXER A23A3Z4 for equal power out in both states of the Second LO.
25. Power difference between Second LO shifted up and shifted down should be less than 0.5 dB.
26. Disconnect power meter and connect frequency counter to A23A3J3.
27. Key in   . Note frequency counter indication. If necessary, readjust A23A3 2ND LO FREQ A23A3Z9 for frequency counter indication of 1748.6 MHz \pm 0.1 MHz.
28. Shift Second LO up and down using   and   and note frequency difference between low and high state of Second LO. If necessary, readjust A23A3 2ND LO SHIFT A23A3Z10 for a frequency difference of 5.0 MHz. \pm 0.1 MHz Repeat Steps 27 and 28 until specifications contained in each step are achieved.

Second Converter Bandpass Filter Adjustments

29. Key in    0 Hz.
30. Set signal generator controls for output of 240 MHz \pm 1 MHz at -10 dBm.
31. Connect 8568A rear-panel SWEEP output to Frequency Response Test Set Horizontal EXT INPUT and adjust EXT VERNIER for a trace length of ten divisions.
32. Set Frequency Response Test Set Channel 2 OFFSET Vernier to ON. Push Channel 2 REFERENCE POSITION pushbutton. Be sure no Channel 1 pushbuttons are pushed in. Adjust Channel 2 REFERENCE POSITION screwdriver control for a reference line two divisions down from top of screen. If necessary, adjust TRACE ALIGN.
33. Connect Frequency Response Test Set Modulator to signal generator output and connect power splitter to Modulator. Connect Modulator Drive to Frequency Response Test Set MODULATOR DRIVE.
34. Connect one arm of power splitter to Frequency Response Test Set R input. Connect other arm of power splitter to B input using a BNC to SMB snap-on test cable and necessary adapters.
35. Select B/R on Frequency Response Test Set. Set Channel 2 REFERENCE LEVEL thumbwheels to 00 dB. Adjust OFFSET Vernier control for trace two divisions down at center screen. Select .25 dB/DIV and make fine adjustment.

ADJUSTMENTS

5-33. SECOND CONVERTER ADJUSTMENTS (Cont'd)

36. Disconnect 80 (gray/black) cable from RF Converter and from A9 Pilot Second IF Amplifier. Disconnect cable from Frequency Response Test Set B input and connect cable to one end of 80 cable. Connect other end of 80 cable through 500 MHz low pass filter to B input.
37. The second line down from the top of the screen on the Frequency Response Test Set now represents 0 dB insertion loss. Record the value of the insertion loss at center screen (horizontal center).
38. Remove 80 cable from setup and reconnect to the RF Converter.
39. Connect cable from signal generator through Modulator and power splitter to Frequency Response Test Set B input (same cable connected in Step 36).
40. Adjust Frequency Response Test Set OFFSET Vernier to place center-screen trace indication above the second line down from the top of the screen by an amount equal to that recorded in Step 37.
41. Remove cable from Frequency Response Test Set B input and connect to A23A5J3 (Pilot First Converter input).
42. Connect 80 cable from A23A3J6 (Second Converter Pilot RF output) through 500 MHz low pass filter to Frequency Response Test Set B input. Select B/R and 10 dB/DIV.
43. Connect frequency counter to rear-panel 1ST LO OUT on 8568A.
44. Key in  207.6 MHz.
45. Adjust signal generator output frequency for a value equal to the frequency counter indication minus 2017.6 MHz ± 0.1 MHz. (Frequency counter indication equals sum of signal generator output frequency plus 2017.6 MHz.
46. Key in  50 MHz. Select 1 dB/DIV on Frequency Response Test Set.
47. Adjust A23A3 Z5, Z6, Z7, and L4 for best bandpass shape and flatness at maximum amplitude of signal displayed on Frequency Response Test Set. A typical properly adjusted bandpass filter response is shown in Figure 5-56. Refer to Figure 5-55 for location of adjustments.
48. Key in  0 Hz.
49. Key in   and note amplitude of signal. Key in   and note amplitude of signal.
50. Continue to key in   then   while adjusting A23A3Z8 for maximum amplitude and same amplitude in both states of the Second LO $\pm < 0.25$ dB.

ADJUSTMENTS

5-33. SECOND CONVERTER ADJUSTMENTS (Cont'd)

51. Disconnect 500 MHz low pass filter from 80 cable and connect 92 (white/red) cable from A23A3J5 (Second Converter IF output) through 500 MHz low pass filter to Frequency Response Test Set B input.
52. Disconnect cable connected to A23A5J3 and connect to A23A2J3 (First Converter input). Reconnect cable to A23A5J3 disconnected in Step 41.
53. Key in 242 MHz.
54. Adjust signal generator output frequency for a value equal to the frequency counter indication minus 2052.5 MHz \pm 0.1 MHz. (Frequency counter indication equals sum of signal generator output frequency plus 2052.5 MHz).
55. Key in 50 MHz.
56. Adjust A23A3 Z1, Z2, Z3, and L2 for best bandpass shape and flatness at maximum amplitude of signal displayed on Frequency Response Test Set. A typical properly adjusted bandpass filter response is shown in Figure 5-56. Refer to Figure 5-55 for location of adjustments.
57. Key in 0 Hz.

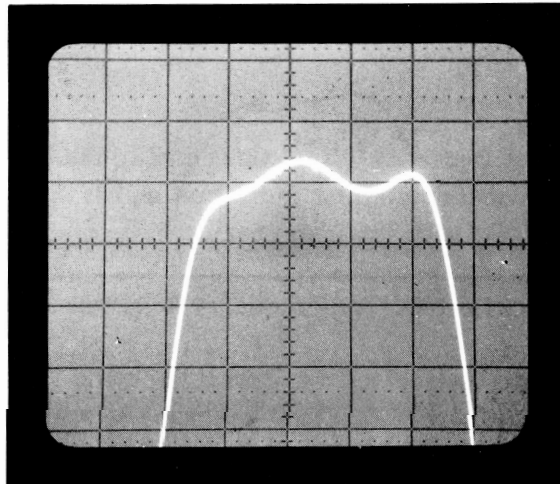
















Figure 5-56. Typical Properly Adjusted Bandpass Filter Response

58. Key in and note amplitude of signal. Key in and note amplitude of signal.
59. Continue to key in then while adjusting A23A3Z4 for maximum amplitude and same amplitude in both states of the Second LO \pm <0.1 dB.

ADJUSTMENTS

5-33. SECOND CONVERTER ADJUSTMENTS (Cont'd)

Second Converter Final Adjustments

60. Repeat Steps 14 through 19 to ensure that Second LO frequency and shift are still properly adjusted.
 61. Disconnect all test equipment from 8568A and reconnect all cables within the instrument; 80 cable between A23A3J6 and A9J1 and 92 cable between A23A3J5 and A19J1.
 62. Connect 8568A CAL OUTPUT to SIGNAL INPUT. Key in  20 MHz,  1 MHz,  --7 dBm, SCALE LOG  1 dB,  300 kHz.
 63. Key in    . Key in   and note signal amplitude as indicated by marker level CRT annotation.
 64. Continue to key in   then   while adjusting A23A3Z4 for maximum amplitude and same amplitude in both states of the Second LO $\pm < 0.1$ dB.
 65. Install RF Converter in instrument. Refer to installation procedure in Section IX.
-

5-34. 50 MHz VOLTAGE-TUNED OSCILLATOR ADJUSTMENTS

REFERENCE:

A11 50 MHz Voltage-Tuned Oscillator

RELATED PERFORMANCE TEST:

Frequency Span Accuracy Test

Center Frequency Readout Accuracy Test

DESCRIPTION:

First, the voltage reference for the Shaping Network is set by measuring the voltage required to tune the 50 MHz Oscillator to its high limit (57.5 MHz) and then setting the reference voltage (+15VR) to that voltage.

Next, the VTO tuning accuracy is adjusted at both the low and high end by setting the tune voltage to the proper levels to tune the VTO to its low and high end limits (42.5 MHz and 57.5 MHz). This is done using the output of the tuning DACS from the A22 Frequency Control therefore, it is necessary that the DAC adjustments on the Frequency Control have been performed before adjusting the 50 MHz VTO.

ADJUSTMENTS

5-34. 50 MHz VOLTAGE-TUNED OSCILLATOR ADJUSTMENTS (Cont'd)

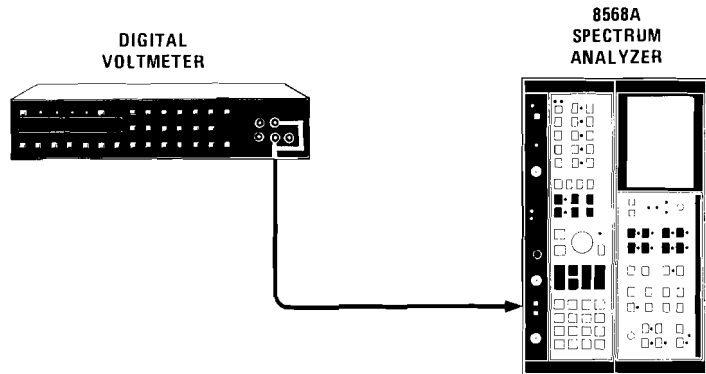


Figure 5-57. 50 MHz Voltage-Tuned Oscillator Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM) HP 3455A

PROCEDURE:

1. Position instrument on right side as shown in Figure 5-57 and remove bottom cover. Remove A11 50 MHz Voltage-Tuned Oscillator and place on extenders.
2. Set LINE switch to ON and press **INSTR PRESET** pushbutton.

DACS Accuracy Check

3. Connect DVM to A22TP9; ground lead to A22TP12.
4. Key in **SHIFT** **CF STEP SIZE** 0 kHz 0 Hz. If using an HP 3455A DVM, press STORE Z, ENTER Y, 1 (labeled in blue), STORE Y, then SCALE. If not using an HP 3455A DVM, note voltage indication for reference later.
5. Key in **SHIFT** **CF STEP SIZE** 1023 kHz.
6. If using an HP 3455A DVM, voltage indication should be +10.230 Vdc \pm 0.001 Vdc. If not using an HP 3455A DVM, voltage indication should be +10.230 Vdc \pm 0.001 Vdc plus the indication noted in Step 4. If voltage is within tolerance, proceed to next step. If voltage indication is incorrect, go to Paragraph 5-32 and perform YTO and VTO DAC adjustments.

ADJUSTMENTS

5-34. 50 MHz VOLTAGE-TUNED OSCILLATOR ADJUSTMENTS (Cont'd)

Positive Supply Adjustment

7. Key in 1 MHz, 1 MHz. Connect DVM to A11TP5; ground lead to A11 cover.
8. Key in 12 kHz. (CRT annotation should indicate DACS 12.)
9. Key in . (CRT annotation should indicate VTO frequency of approximately 28.75 MHz which corresponds to a VTO frequency of 57.5 MHz since the counter indication is divided by two.)
10. Adjust A11 OFFSET A11R10 and/or A11 GAIN A11R9 for VTO frequency of 28.750 MHz \pm 0.005 MHz as indicated by CRT annotation. Refer to Figure 5-58 for location of adjustment.
11. Note DVM indication for reference later.
12. Connect DVM to A11TP1 (located on A11 cover).
13. Adjust A11 POS SUPPLY A11R6 for DVM indication the same as that noted in Step 11. Refer to Figure 5-58 for location of adjustment.

VTO High-Frequency End Adjustment

14. Connect DVM to A11TP8.
15. Key in 112 kHz. Key in .
16. Adjust A11 OFFSET A11R10 for VTO frequency indication of 28.000 MHz \pm 0.005 MHz.
17. Key in 12 kHz. Key in .
18. Adjust A11 GAIN A11R9 for VTO frequency indication of 28.750 MHz \pm 0.005 MHz.
19. Repeat Steps 15 through 18 until specifications of Steps 16 and 18 are achieved.

VTO Low-Frequency End Adjustment

20. Key in 912 kHz. Key in .
21. Adjust A11 SHAPING ATTN A11R42 for VTO indication of 22.000 MHz \pm 0.005 MHz. Refer to Figure 5-58 for location of adjustment.
22. Key in 1012 kHz. Key in .
23. Adjust A11 SHAPING OFFSET A11R17 for VTO frequency indication of 21.250 MHz \pm 0.005 MHz. Refer to Figure 5-58 for location of adjustment.

ADJUSTMENTS

5-34. 50 MHz VOLTAGE-TUNED OSCILLATOR ADJUSTMENTS (Cont'd)

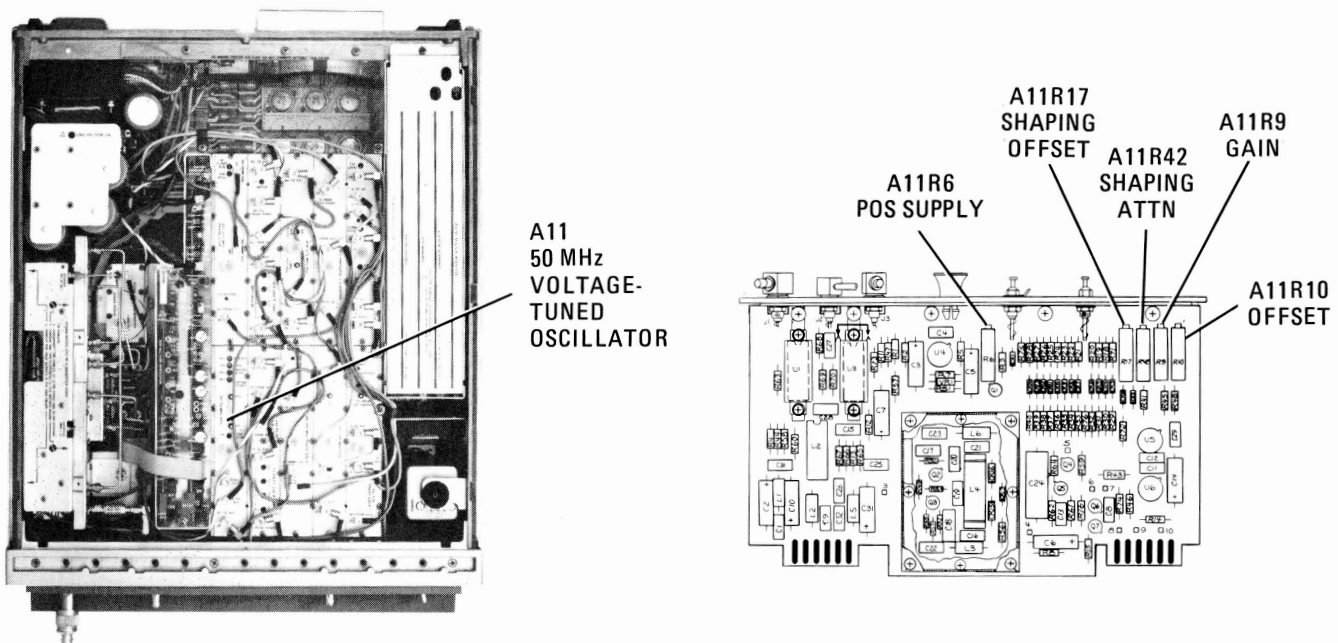


Figure 5-58. Location of 50 MHz VTO Adjustments

24. Repeat Steps 20 through 23 until specifications of Steps 21 and 23 are achieved.
25. Go back to Step 15 and repeat both High-Frequency End and Low-Frequency End adjustments until specifications of both (contained in Steps 16, 18, 21, and 23) are achieved.

VTO Center-Frequency Checks

26. Key in 512 kHz. Key in .
27. VTO frequency indication should be 25.00 MHz \pm 0.02 MHz. If not, and specifications of Steps 16, 18, 21 and 23 are met, a malfunction is indicated. Most likely suspects would be varactor diodes CR15 and CR16.
28. Key in 612 kHz. Key in .
29. VTO frequency indication should be 24.25 MHz \pm 0.02 MHz. If not, and specifications of Steps 16, 18, 21, and 23 are met, a malfunction is indicated. Most likely suspects would be varactor diodes CR15 and CR16.
30. Set LINE switch to OFF.
31. Replace A11 50 MHz Voltage-Tuned Oscillator in instrument without extenders and replace screws in cover.

ADJUSTMENTS

5-35. SLOPE COMPENSATION ADJUSTMENT

REFERENCE:

A22 Frequency Control

RELATED PERFORMANCE TEST:

Frequency Response Test

DESCRIPTION:

The 8568A Spectrum Analyzer is swept between 10 MHz and 1500 MHz using a sweep oscillator which has been power-meter leveled. The resulting response curve is displayed on the 8568A CRT and the slope compensation (TILT) adjustment is performed to compensate for the frequency response roll-off of the first mixer.

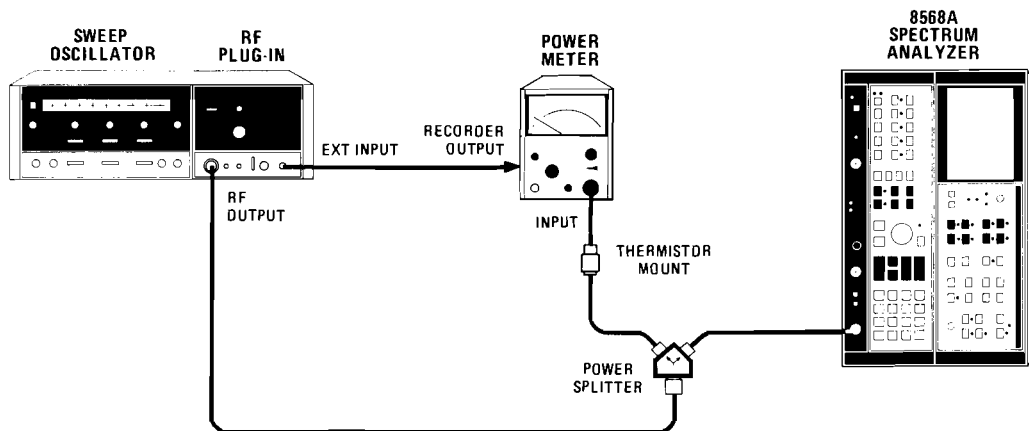


Figure 5-59. Slope Compensation Adjustment Setup






EQUIPMENT:

Sweep Oscillator/RF Plug-In HP 8620C/8622A
Power Meter/Thermistor Mount HP 432A/478A
Power Splitter HP 11667A

ADJUSTMENTS

5-35. SLOPE COMPENSATION ADJUSTMENT (Cont'd)

PROCEDURE:

1. Place instrument on right side as shown in Figure 5-59 and remove bottom cover.
2. Set RF Plug-In POWER LEVEL fully counterclockwise and ALC GAIN fully clockwise. Set Sweep Oscillator to MARKER SWEEP and sweep to 10 MHz to 1500 MHz. Set TIME-SECONDS switch to 100-10; Vernier fully clockwise. Set TRIGGER to INT and MODE to MANUAL; MANUAL control centered.
3. Connect equipment as shown in Figure 5-59 with power splitter connected to the output of the RF Plug-In with a cable. Connect one arm of the splitter directly to the SIGNAL INPUT of the 8568A Spectrum Analyzer using a Male-Male adapter and the other arm to the thermistor mount. Connect power meter rear-panel RECORDER output connector to RF Plug-In ALC EXT input.
4. Set 8568A LINE switch to ON and press  pushbutton.
5. Key in  10 MHz,  1500 MHz,  -10 dBm, LOG  1 dB.
6. Adjust RF Plug-In POWER LEVEL and ALC GAIN for leveled power and signal level near the center of the graticule on the 8568A CRT.
7. Adjust sweep oscillator MANUAL control fully counterclockwise and adjust START MARKER to place signal at the left edge of the 8568A CRT display graticule.
8. Adjust sweep oscillator MANUAL control fully clockwise and adjust STOP MARKER to place signal at the right edge of the 8568A graticule.
9. Set sweep oscillator MODE switch to AUTO.
10. Note display on 8568A CRT. Total variation of signal displayed should be less than 2 dB (± 1 dB). Refer to Figure 5-60 for example of frequency response correctly and incorrectly adjusted. For greater accuracy, set TIME-SECONDS Vernier fully counterclockwise to slow sweep to approximately 100 seconds.
11. Adjust A22 TILT A22R66 as necessary to maintain response waveform within 2 divisions (2 dB) on the graticule. It may be necessary to readjust the power output of the RF Plug-In or the reference level of the 8568A after adjusting the TILT adjustment. Refer to Figure 5-53 for location of adjustment.
12. Refer to Figure 5-60 for examples of typical displays of frequency response correctly adjusted and misadjusted.

ADJUSTMENTS

5-35. SLOPE COMPENSATION ADJUSTMENT (Cont'd)

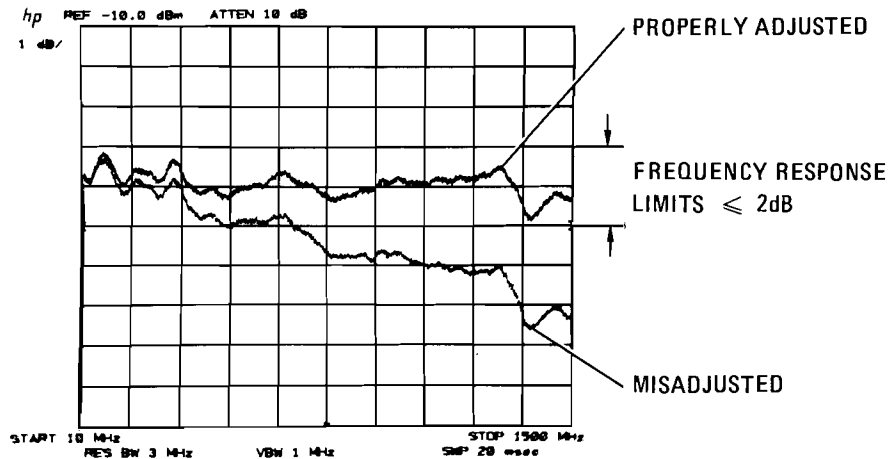


Figure 5-60. Slope Compensation Adjustment Waveforms

5-36. COMB GENERATOR ADJUSTMENTS

REFERENCE:

A23 RF Converter
A16 20 MHz Reference

DESCRIPTION:

The output of the Pilot First Converter is connected to the signal input of the Second Converter. This allows the comb teeth from the A23A6 Comb Generator to be displayed on the CRT display. The phase lock flags are disabled using a shift key function to prevent the instrument from “locking up” due to the phase lock loops being open. A display line is placed on the CRT at the level to which the comb teeth are to be adjusted. The comb teeth are adjusted for best overall flatness and to the proper amplitude.

EQUIPMENT:

No test equipment is required for this adjustment.

ADJUSTMENTS

5-36. COMB GENERATOR ADJUSTMENTS (Cont'd)

PROCEDURE:

1. Set instrument LINE switch to ON and press **INSTR PRESET** pushbutton.
2. Connect CAL OUTPUT to SIGNAL INPUT.
3. Key in **CENTER FREQUENCY** 20 MHz, **FREQUENCY SPAN** 100 kHz, **ATTEN** 0 dB, **RES BW** 100 Hz, LOG **ENTER dB/DIV** 2 dB.
4. Adjust front-panel AMPTD CAL for signal peak at top graticule line (– 10 dBm).
5. Press **INSTR PRESET** pushbutton.
6. Key in **SHIFT** **FREE RUN** . This disables phase lock flags.
7. Position instrument on right side and remove bottom cover. Remove clear plastic cover printed circuit board area.
8. Disconnect cables from A23A5J2 and A23A3J1 and connect a short low-loss coaxial cable with the proper connectors (do not use adapters) between A23A5J2 and A23A3J1. If coaxial cable is not available, remove the coaxial cable connected between the output of the input attenuator and the input of the First Converter. Be sure to replace cable after adjustment is complete.
9. Key in **START FREQ** 40 MHz. Wait for CRT annotation at lower left of CRT display to indicate START 40 MHz
10. Key in **STOP FREQ** 1560 MHz. Wait for CRT annotation at lower right of CRT display to indicate STOP 1560 MHz.
11. Key in **REFERENCE LEVEL** – 20 dBm, LOG **ENTER dB/DIV** 2 dB, DISPLAY LINE **ENTER** – 30 dBm.
12. Adjust A23A4A2 COMB BIAS A23A4A2R6 for peak amplitude of comb teeth with best flatness. Refer to Figure 5-61. Refer to Figure 5-62 for location of adjustment.
13. Adjust A16 COMB DRIVE A16R31 so that the majority of the comb teeth are at an average level of –30 dBm. Display line is at –30 dBm. Refer to Figure 5-61. Refer to Figure 5-62 for location of adjustment.
14. Repeat Steps 12 and 13 until comb teeth have been adjusted for best flatness and the majority of the comb teeth are at an average level of – 30 dBm. Do not use A23A4A2 COMB BIAS adjustment to adjust the level of the comb teeth. It should be used only to adjust for best flatness at maximum amplitude. Use A16 COMB DRIVE to adjust level of comb teeth. Always readjust COMB BIAS after adjusting COMB DRIVE.

ADJUSTMENTS

5-36. COMB GENERATOR ADJUSTMENTS (Cont'd)

15. No comb teeth should exceed -22 dBm and no comb teeth should be less than -36 dBm.
16. If unable to adjust comb teeth as described in previous steps, proceed with next step. If comb teeth are adjusted properly do not perform the adjustments in the following steps. Skip to Step 22.
17. Remove screws from cover of A23A6 Comb Generator and lift cover from housing being careful not to break wire connections to internal circuit. It will be necessary to hold cover away from housing while performing the following adjustments.
18. Adjust A23A6 COMB PEAK A23A6L2 for maximum amplitude of comb teeth. Refer to Figure 5-62 for location of adjustment.
19. Adjust A23A6 HF PEAK A23A6C7 for maximum amplitude of the highest frequency comb tooth displayed (comb tooth to far right of CRT). Refer to Figure 5-62 for location of adjustment.
20. Replace cover on A23A6 and install screws.
21. Go back to Step 12 and proceed with adjustments.
22. Remove cable from between A23A5J2 and A23A3J1 and reconnect instrument cables to connectors. If cable was borrowed from between Input Attenuator and First Converter, replace at this time.

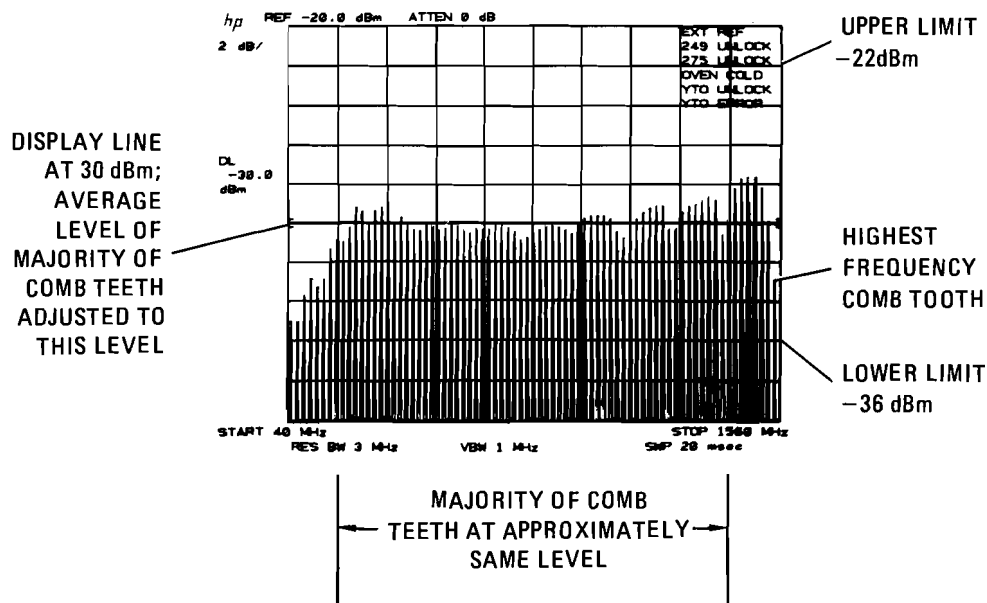


Figure 5-61. Comb Teeth Display

ADJUSTMENTS

5-36. COMB GENERATOR ADJUSTMENTS (Cont'd)

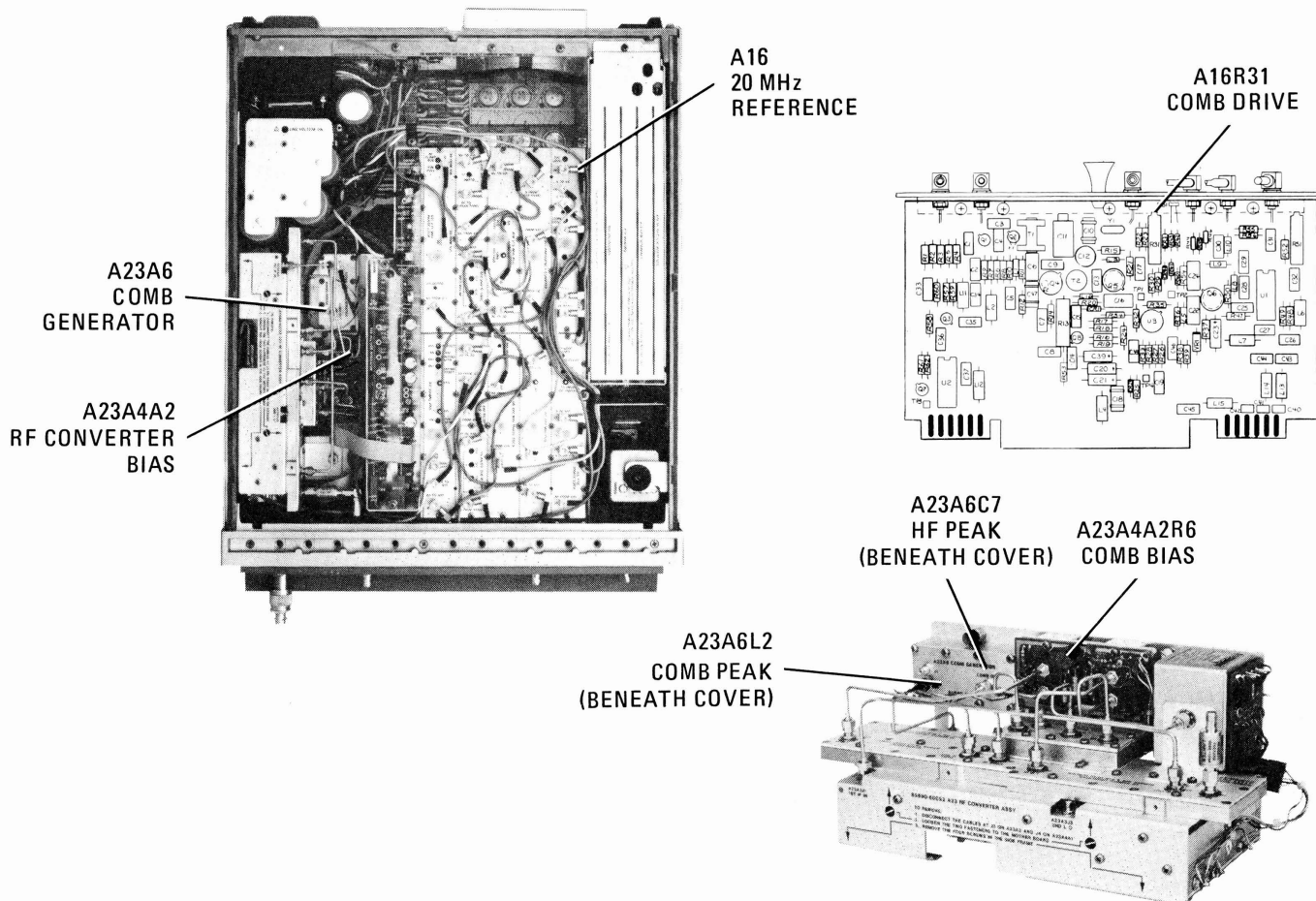


Figure 5-62. Location of Comb Generator Adjustments

5-37. ANALOG-TO-DIGITAL CONVERTER ADJUSTMENTS

REFERENCE:

A3A8 Analog-Digital Converter

DESCRIPTION:

The Analog-to-Digital converter is adjusted at zero and full scale by injecting a +0.020 Vdc input and a +10.00 Vdc input and adjusting the ZERO and FS controls until ramp output at A3A8TP5 oscillates between 0 Vdc and +5 Vdc. This sets the end points for the CRT trace display; when the sweep ramp input is at +0.020 Vdc, the left edge of the graticule, trace position one, is set and when the sweep ramp input is at +10.00 Vdc, the right edge of the graticule, trace position 1000, is set.

5-37. ANALOG-TO-DIGITAL CONVERTER ADJUSTMENTS (Cont'd)

This procedure requires +0.020 Vdc and +10.00 Vdc which are stable and noise-free. A simple supply circuit is illustrated in Figure 5-70 which can be built with common components. If these components are unavailable, an alternate procedure is provided.

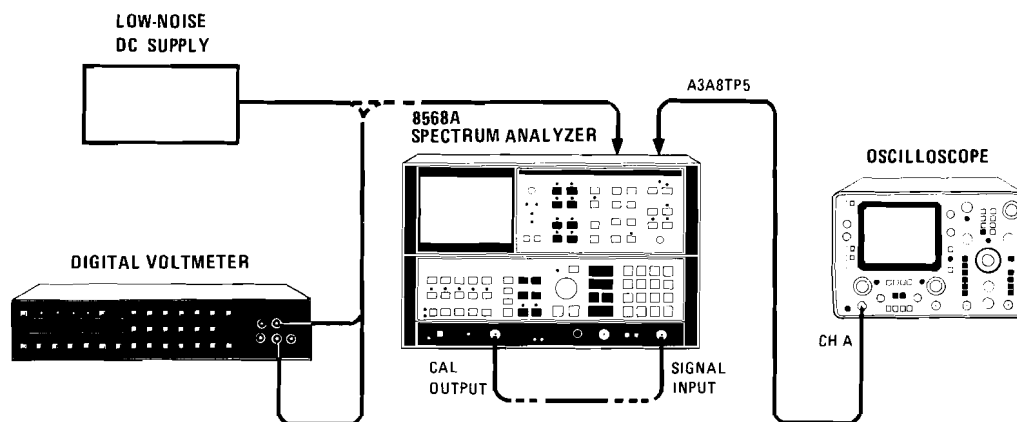


Figure 5-63. Analog-to-Digital Converter Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM)	HP 3455A
Oscilloscope	HP 1741A
Low-Noise DC Supply (Optional)	Refer to Figure 5-70

PROCEDURE:

1. Position instrument upright as shown in Figure 5-63 and remove top cover. Install A3A8 Analog-to-Digital Converter on extender.
2. Set LINE switch to ON and press pushbutton.
3. Procedure without using Low-Noise DC Supply.
 - a. Key in 1 second, MARKER .
 - b. Connect DVM to A3A8TP1. Connect ground lead to A3A8TP4.
 - c. Using the step key, place marker on the first division graticule line from the left edge of the graticule. Do not use the DATA knob, only the step key.

ADJUSTMENTS

5-37. ANALOG-TO-DIGITAL CONVERTER ADJUSTMENTS (Cont'd)

- d. Key in . Note DVM indication when sweep ends. Voltage begins to drift immediately after sweep ends, therefore the first indication after the sweep ends is the only valid indication. It may be helpful to key in several times to be sure of valid indication at end of sweep.
- e. If DVM indication is $+1.000 \text{ Vdc} \pm 0.005 \text{ Vdc}$ at end of sweep, no adjustment is necessary. Skip to Step f. If DVM indication is greater than $+1.005 \text{ Vdc}$, adjust A3A8 ZERO A3A8R14 slightly clockwise and go back to Step d. If DVM indication is less than $+0.995 \text{ Vdc}$, adjust A3A8 ZERO A3A8R14 slightly counterclockwise and go back to Step d. Refer to Figure 5-64 for location of adjustment.
- f. Key in **MARKER** . Using the step key (do not use DATA knob), place marker on the right edge of the graticule.
- g. Key in .
- h. If DVM indication is $+10.000 \text{ Vdc} \pm 0.005 \text{ Vdc}$ at the end of the sweep, no further adjustment is necessary. If DVM indication is greater than $+10.005 \text{ Vdc}$, adjust A3A8 FS A3A8R9 slightly clockwise. Go back to Step g. If DVM indication is less than $+9.995 \text{ Vdc}$, adjust A3A8 FS A3A8R9 slightly counterclockwise. Go back to Step g. Refer to Figure 5-64 for location of adjustment.

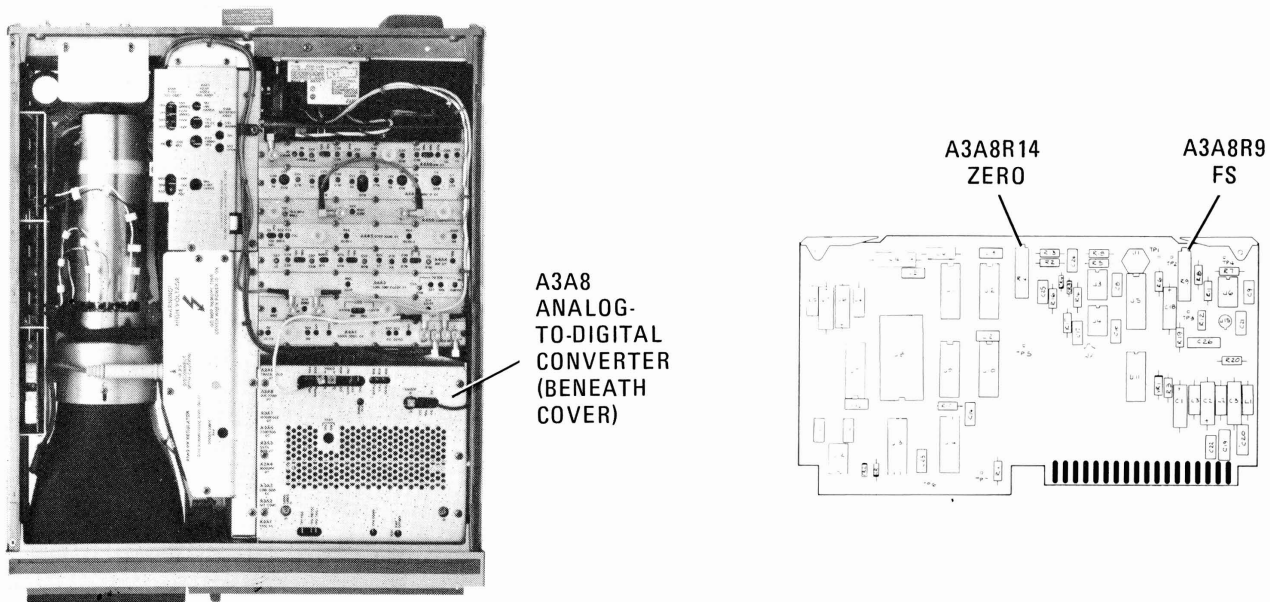


Figure 5-64. Location of Analog-to-Digital Converter Adjustments

ADJUSTMENTS

5-37. ANALOG-TO-DIGITAL CONVERTER ADJUSTMENTS (Cont'd)

4. Procedure using Low-Noise DC Supply illustrated in Figure 5-70.
 - a. Key in MARKER . Adjust marker to left edge of graticule.
 - b. Key in .
 - c. Remove cable from A3A8 Sweep Ramp input A3A8J1.
 - d. Connect DVM to output of Low-Noise DC Supply. Connect Low-Noise DC Supply power leads to A1A6TP2 (+ 15 Vdc) and A1A6TP4 (– 15 Vdc).
 - e. Adjust output voltage of Low-Noise DC supply for DVM indication of +0.020 Vdc \pm 0.001 Vdc.
 \pm 0.001 Vdc.
 - f. Disconnect DVM from Low-Noise DC Supply.
 - g. Connect output of Low-Noise DC Supply to A3A8 Sweep Ramp input A3A8J1 using a BNC to SMB snap-on cable (part of Service Accessories).
 - h. Connect oscilloscope to A3A8TP5.
 - i. Adjust A3A8 ZERO A3A8R14 until dc level at A3A8TP5 oscillates between 0 Vdc and + 5 Vdc as indicated on oscillocope. Refer to Figure 5-64 for location of adjustment.
 - j. Press MARKER pushbutton and adjust marker to right edge of graticule.
 - k. Disconnect Low-Noise DC Supply from A3A8J1 and connect to DVM. Adjust output voltage for DVM indication of +10.000 Vdc \pm 0.001 Vdc.
 - l. Key in . Connect output of Low-Noise DC Supply to A3A8 TP1.
 - m. Adjust A3A8 FS A3A8R9 until dc level at A32A8TP5 oscillates between 0 Vdc and + 5 Vdc as indicated on oscilloscope. Refer to Figure 5-64 for location of adjustment.
-

5-38. TRACK AND HOLD ADJUSTMENTS

REFERENCE:

A3A9 Track and Hold

ADJUSTMENTS

5-38. TRACK AND HOLD ADJUSTMENTS (Cont'd)

DESCRIPTION:

The CAL OUTPUT signal is connected to the SIGNAL INPUT. The instrument is placed in zero frequency span to produce a dc level output from the IF-Video section and this dc level is regulated by adjusting the reference level. The Offsets and Gains on the Track and Hold assembly are adjusted for proper levels using a DVM.

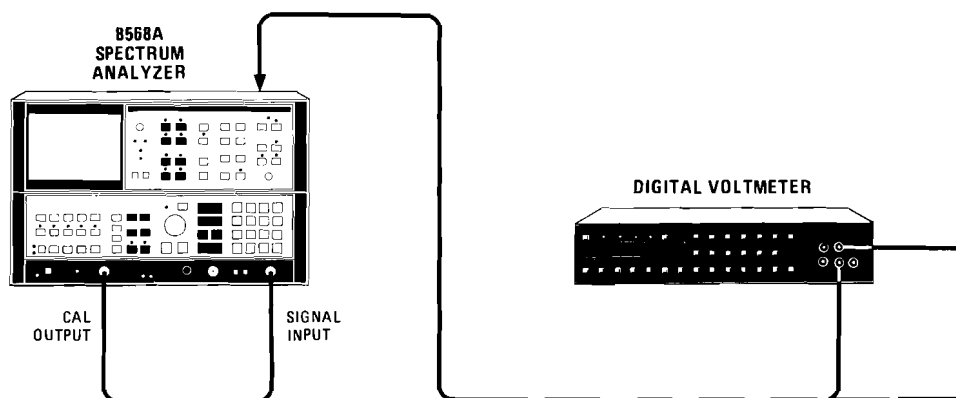


Figure 5-65. Track and Hold Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM) HP 3455A

PROCEDURE:

1. Place instrument upright as shown in Figure 5-65 with top cover removed. Install A3A9 Track and Hold on extender.
2. Set LINE switch to ON and press **INSTR PRESET** pushbutton.
3. Connect CAL OUTPUT to SIGNAL INPUT.
4. Connect DVM to A3A9TP3. Connect ground lead to A3A9TP1.
5. Key in **CENTER FREQUENCY** 20 MHz, **FREQUENCY SPAN** 0 Hz.
6. Disconnect 9 (white) cable from A4A1J1.

ADJUSTMENTS

5-38. TRACK AND HOLD ADJUSTMENTS (Cont'd)

7. Short A3A9TP1 to A3A9TP3. DVM indication should be $0.000 \text{ Vdc} \pm 0.001 \text{ Vdc}$.
8. Key in , TRACE A , MARKER , MARKER , SWEEP , TRACE A .
9. Adjust A3A9 OS A3A9R59 until Marker Δ level indication as indicated by CRT annotation flickers back and forth between .00 and .10 dB. Refer to Figure 5-66 for location of adjustment.
10. Key in TRACE A .
11. Adjust A3A9 OSP A3A9R44 until Marker Δ level indication as indicated by CRT annotation flickers back and forth between .00 and .10 dB. Refer to Figure 5-66 for location of adjustment.
12. Key in TRACE A .
13. Adjust A3A9 OSN A3A9R36 until Marker Δ level indication as indicated by CRT annotation flickers back and forth between .00 and .10 dB. Refer to Figure 5-66 for location of adjustment.
14. Key in LOG , TRACE A .
15. Remove short from between A3A9TP1 and A3A9TP3. Reconnect 9 (white) cable to A4A1J1.
16. Press pushbutton and adjust DATA knob for DVM indication of $+2.000 \text{ Vdc} \pm 0.001 \text{ Vdc}$ at A3A9TP3.
17. Connect DVM to A3A9TP8.
18. Key in .
19. Adjust A3A9 GP A3A9R39 for DVM indication of $+0.980 \text{ Vdc} \pm 0.001 \text{ Vdc}$. Refer to Figure 5-66 for location of adjustment. Refer to Figure 5-66 for location of adjustment.
20. Disconnect DVM from instrument.
21. Key in .
22. Adjust A3A9 G A3A9R57 for Marker Δ level indication as indicated by CRT annotation of 100 dB ± 0.1 dB. Refer to Figure 5-66 for location of adjustment.
23. Key in TRACE A .

ADJUSTMENTS

5-38. TRACK AND HOLD ADJUSTMENTS (Cont'd)

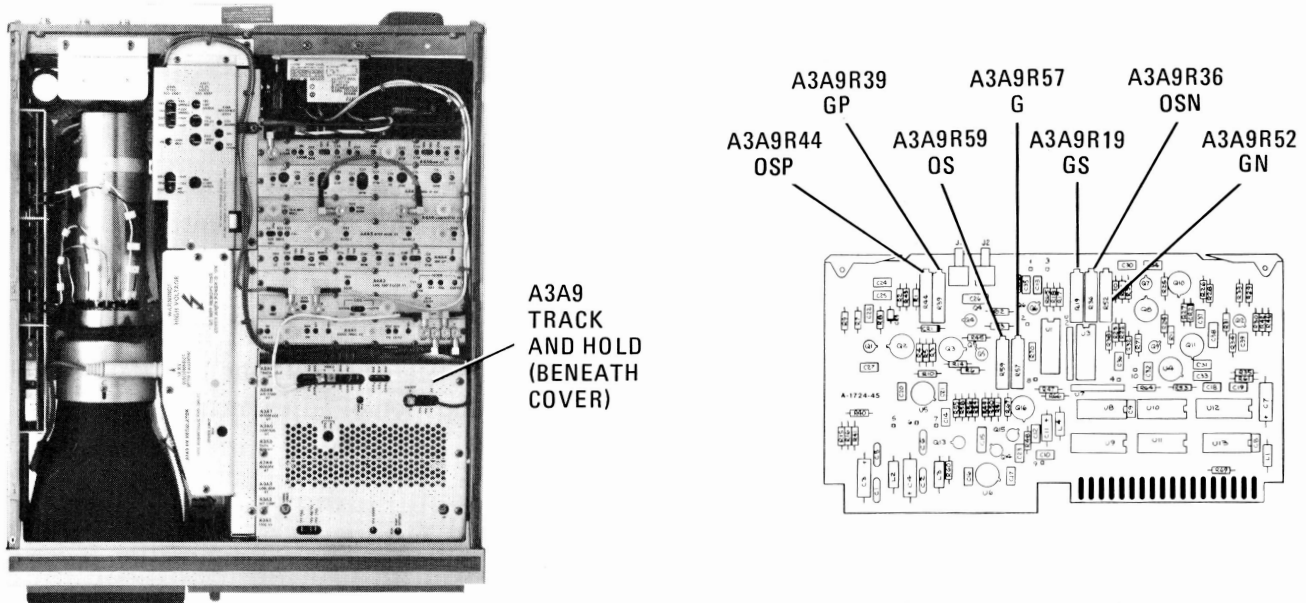


Figure 5-66. Location of Track and Hold Adjustments

24. Adjust A3A9 GS A3A9R19 for Marker Δ level indication as indicated by CRT annotation of 100 dB ± 0.1 dB. Refer to Figure 5-66 for location of adjustment.
25. Key in TRACE A .
26. Adjust A3A9 GN A3A9R52 for Marker Δ level indication as indicated by CRT annotation of 100 dB ± 0.1 dB. Refer to Figure 5-66 for location of adjustment.
27. Set LINE switch to OFF.
28. Install A3A9 Track and Hold in instrument without extender.

5-39. DIGITAL STORAGE DISPLAY ADJUSTMENTS

REFERENCE:

A3A1 Trigger
A3A2 Intensity Control
A3A3 Line Generator

ADJUSTMENTS

5-39. DIGITAL STORAGE DISPLAY ADJUSTMENTS (Cont'd)

DESCRIPTION:

First, preliminary graticule adjustments are performed to place the graticule on the CRT. These preliminary adjustments assume that repair has been performed on the associated circuitry. If no repair has been performed on the PC boards listed in REFERENCE above, the preliminary adjustments are not necessary.

Next, the Sample and Hold Balance adjustments are performed. The horizontal and vertical Offset and Gain adjustments are performed then the final graticule adjustments are performed.

Last, The CRT annotation adjustments are performed to place the CRT annotation in proper location with respect to the graticule.

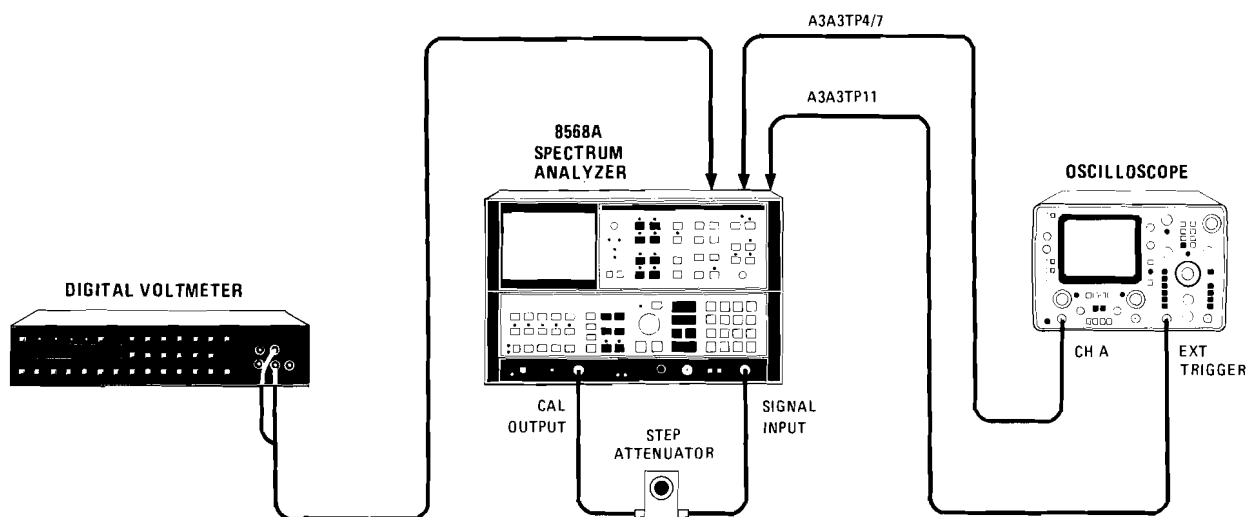


Figure 5-67. Digital Storage Display Adjustments Setup

EQUIPMENT:

Digital Voltmeter (DVM) HP 3455A
Oscilloscope HP1741A

PROCEDURE:

1. Place instrument upright as shown in Figure 5-67 with top cover removed.
2. Set LINE switch to ON and press  pushbutton.

ADJUSTMENTS

5-39. DIGITAL STORAGE DISPLAY ADJUSTMENTS (Cont'd)

Preliminary Graticule Adjustments

3. Press TRACE A .
4. Adjust A3A3 X GAIN A3A3R4 and A3A3 Y GAIN A3A3R5 to place graticule information completely on CRT. Refer to Figure 5-68 for location of adjustment.
5. Adjust A3A3 LL THRESHOLD A3A2R12 fully clockwise. Refer to Figure 5-68 for location of adjustment.
6. Adjust A3A3 XLL A3A3R6 so that horizontal graticule lines just meet the vertical graticule lines at the left and right of the graticule. Refer to Figure 5-68 for location of adjustment.
7. Adjust A3A3 YLL A3A3R9 so that the vertical graticule lines just meet the horizontal graticule lines at the top and bottom of the graticule. Refer to Figure 5-68 for location of adjustment.
8. Repeat steps 6 and 7 until horizontal and vertical graticule lines are adjusted so that they meet the graticule lines at the edges of the graticule but do not overshoot.
9. Adjust A3A2 LL THRESHOLD A3A2R12 fully counterclockwise. Refer to Figure 5-68 for location of adjustment.
10. Adjust A3A3 XSL A3A3R7 so that horizontal graticule lines just meet the vertical graticule lines at the left and right side of the graticule. Refer to Figure 5-68 for location of adjustment.
11. Adjust A3A3 YSL A3A3R8 so that the vertical graticule lines just meet the horizontal graticule lines at the top and bottom of the graticule. Refer to Figure 5-68 for location of adjustment.
12. Repeat steps 10 and 11 until horizontal and vertical graticule lines are adjusted so that they meet the graticule lines at the edges of the graticule but do not overshoot.

Sample and Hold Balance Adjustments

13. Set LINE switch to OFF.
14. Place A3A3 Line Generator on extender boards.
15. Set LINE switch to ON. Press .
16. Key in LOWER LEFT 0 Hz, UPPER RIGHT 1028 Hz.
17. Connect oscilloscope to A3A3TP4.
18. Connect A3A3TP11 to oscilloscope External Trigger Input and adjust oscilloscope controls for display as shown in Figure 5-69.

ADJUSTMENTS

5-39. DIGITAL STORAGE DISPLAY ADJUSTMENTS (Cont'd)

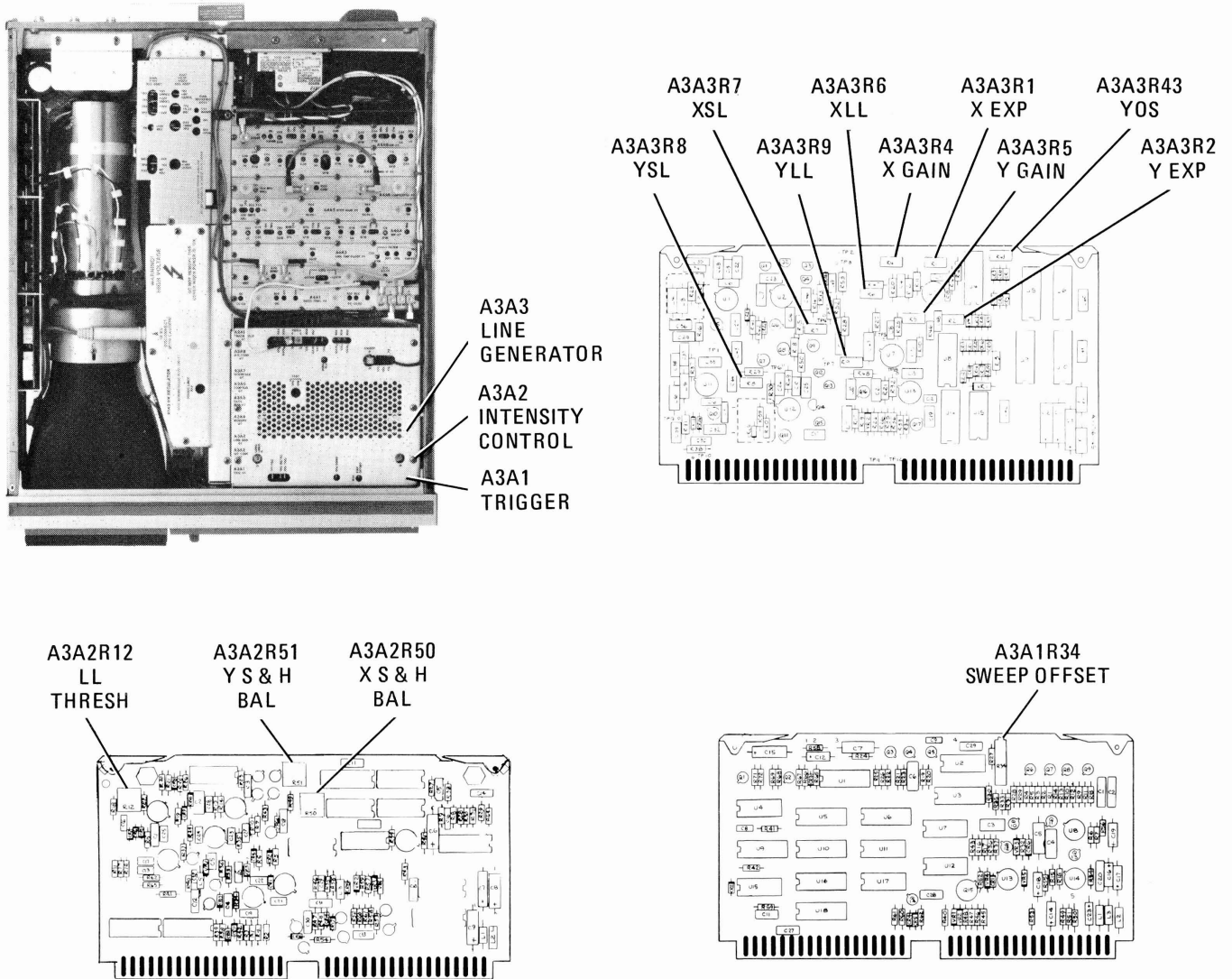


Figure 5-68. Location of Digital Storage Display Adjustments

19. Adjust A3A2 X S&H BAL A3A2R50 for minimum dc offset level between V_A and V_B as illustrated in Figure 5-69. Refer to Figure 5-68 for location of adjustment.
20. Connect oscilloscope to A3A3TP7.
21. Adjust A3A2 Y S&H BAL A3A2R51 for minimum dc offset level between V_A and V_B as illustrated in Figure 5-69. Refer to Figure 5-68 for location of adjustment.

ADJUSTMENTS

5-39. DIGITAL STORAGE DISPLAY ADJUSTMENTS (Cont'd)

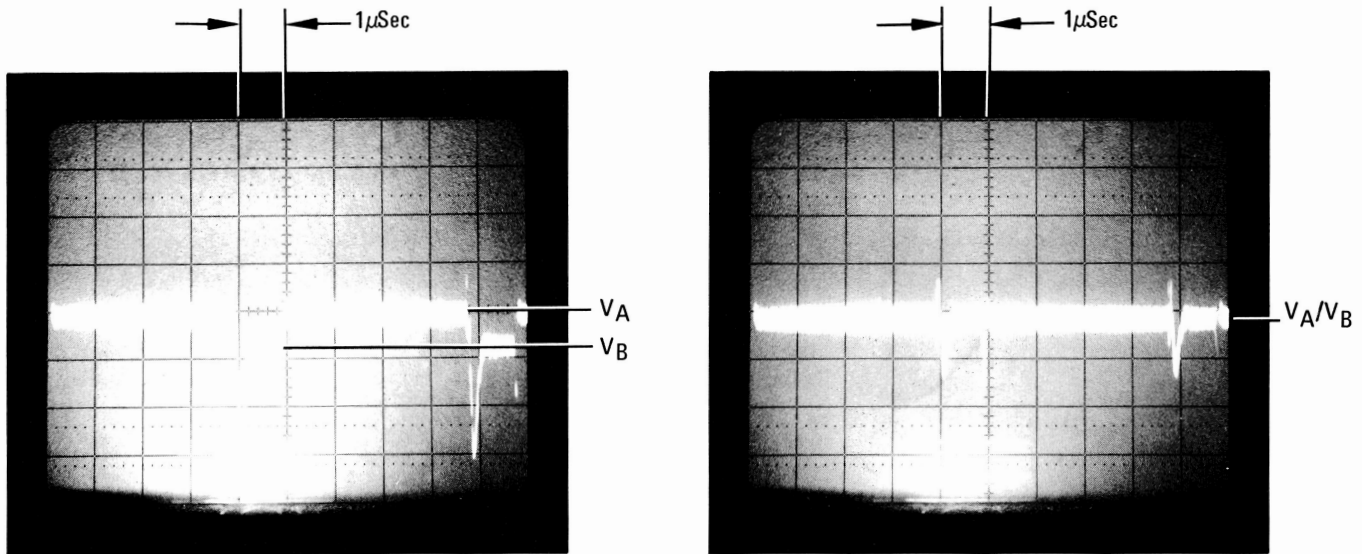


Figure 5-69. Sample and Hold Balance Adjustment Waveforms

22. Set LINE switch to OFF.
23. Install A3A3 Line Generator in instrument without extender boards.
24. Set LINE switch to ON.

X and Y Offset and Gain Adjustments

25. Press pushbutton.
26. Key in 0 Hz, 100 μSec.
27. Disconnect cable from A3A9J2 and connect to LG/FS test connector on A3A2 Intensity Control; other end of cable remains connected to A3A2J1.
28. Select TRIGGER and adjust LEVEL for a stable display on CRT.
29. Adjust A3A1 SWEEP OFFSET A3A1R34 so that signal trace begins at left edge graticule line. Refer to Figure 5-68 for location of adjustment.

ADJUSTMENTS

5-39. DIGITAL STORAGE DISPLAY ADJUSTMENTS (Cont'd)

30. Adjust A3A3 X GAIN A3A3R4 for twenty cycles on the graticule. This may be made easier by adjusting A3A1 SWEEP OFFSET so that first peak is centered on left edge graticule line then adjusting A3A3 X GAIN for two cycles per division with the twentieth cycle being centered on the right edge graticule line. A3A1 SWEEP OFFSET must then be readjusted so that trace begins at left edge graticule line. Refer to Figure 5-68 for location of adjustment.
31. Remove cable from A3A2 LG/FS test connector and reconnect to A3A9J2.
32. Make sure there is no signal input at the SIGNAL INPUT connector.
33. Connect DVM to A3A9TP3.
34. Press LIN pushbutton.
35. DVM indication should be 0.000 Vdc. ± 0.002 Vdc.
36. Adjust A3A3 YOS A3A3R43 to align the bottom graticule line with the fast sweep signal line. Refer to Figure 5-68 for location of adjustment.
37. Key in 20 MHz. Connect CAL OUTPUT to SIGNAL INPUT. Press LOG 10 dB.
38. Press pushbutton and adjust DATA knob for DVM indication of +2.000 Vdc ± 0.002 Vdc.
39. Adjust A3A3 Y GAIN A3A3R5 to align the top graticule line with the fast sweep signal line. Refer to Figure 5-68 for location of adjustment.

Final Graticule Adjustments

40. Press , TRACE A .
41. Set A3A2 LL THRESHOLD A3A2R12 fully clockwise.
42. Adjust A3A3 XLL A3A3R6 and A3A3 YLL A3A3R9 to align horizontal and vertical graticule lines so that each line meets the edge line (right, left, top, or bottom) but does not overshoot.
43. Adjust A3A2 LL THRESHOLD A3A2R12 fully counterclockwise.
44. Adjust A3A3 XSL A3A3R7 and A3A3 YSL A3A3R8 to align horizontal and vertical graticule lines so that each line meets the edge line (right, left, top, or bottom) but does not overshoot.
45. Adjust A3A2 LL THRESHOLD A3A2R12 clockwise until all graticule lines switch over to long lines. This is indicated by a noticeable increase in intensity. All graticule lines should increase in intensity.

ADJUSTMENTS

5-39. DIGITAL STORAGE DISPLAY ADJUSTMENTS (Cont'd)

X and Y Expand Adjustments

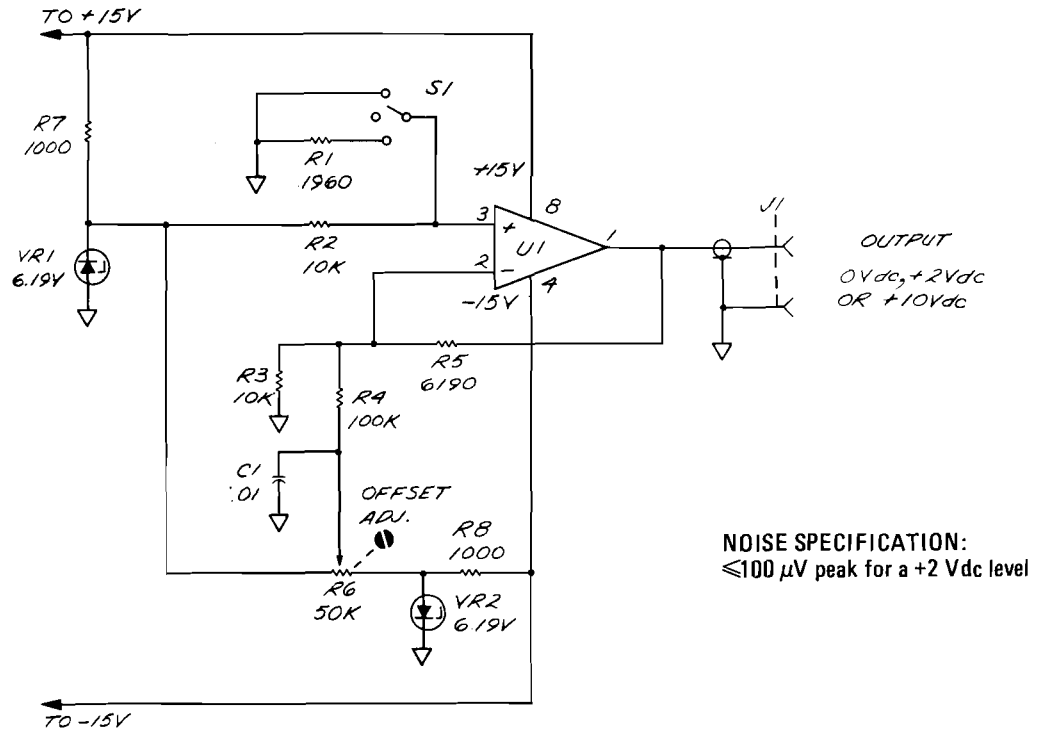
46. Press pushbutton.
47. Key in MARKER .
48. Adjust A3A3 X EXP A3A3R1 to center the letter F in REF (CRT annotation in upper left corner of display) over the left edge graticule line. Refer to Figure 5-68 for location of adjustment.
49. Adjust A3A3 Y EXP A3A3R2 to align the remainder of the CRT annotation so that the upper annotation (Marker data) is above the top graticule line and the lower annotation (Start and Stop data) is below the bottom graticule line. Adjust for equal spacing above and below graticule. Refer to Figure 5-68 for location of adjustment.

Resealing of Adjustments

50. If any of the following adjustments were adjusted in the preceding steps, they must be resealed. They should be sealed with a silicone rubber compound without acetic acid; HP Part Number 0470-0357.

X GAIN A3A3R4
Y GAIN A3A3R5
XLL A3A3R6
YLL A3A3R9
XSL A3A3R7
YSL A3A3R8

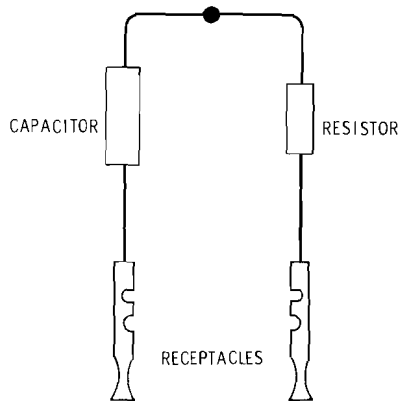
LOW-NOISE DC SUPPLY



Reference Designator	HP Part Number	Description
C1	0160-2055	CAPACITOR: FXD .01 μF
J1	1250-0083	CONNECTOR: BNC
R1	0698-0083	RESISTOR: FXD 1.96K 1% .125W
R2	0757-0442	RESISTOR: FXD 10K 1% .125W
R3	0757-0442	RESISTOR: FXD 10K 1% .125W
R4	0757-0465	RESISTOR: FXD 100K 1% .125W
R5	0757-0290	RESISTOR: FXD 6.19K 1% .125W
R6	2100-2733	RESISTOR: VARIABLE 50K 20%
R7	0757-0280	RESISTOR: FXD 1K 1% .125W
R8	0757-0280	RESISTOR: FXD 1K 1% .125W
S1	3101-1792	SWITCH: TOGGLE, 3- POSITION
U1	1826-0092	IC: DUAL OP-AMP
VR1	1902-0049	DIODE: BREAKDOWN 6.19V
VR2	1902-0049	DIODE: BREAKDOWN 6.19V

Figure 5-70. Low-Noise DC Supply

CRYSTAL FILTER BYPASS NETWORK CONFIGURATION



A4A4 Bandwidth Filter and A4A8 Attenuator–Bandwidth Filter
21.4 MHz IF Crystal Filter Bypass Networks (4 required)

Part	Value	HP Part Number	Quantity
Resistor	31.6Ω	0757-0180	4
Capacitor	91 pF	0160-2203	4
Receptacle	—	1251-3720	8

A4A7 3 MHz Bandwidth Filter
3 MHz IF Crystal Filter Bypass Networks (4 required)

Part	Value	HP Part Number	Quantity
Resistor	2.7Ω	0811-1671	4
Capacitor	.047μF	0170-0040	4
Receptacle	—	1251-3720	8

Figure 5-71. Crystal Filter Bypass Network Configuration

SECTION VI REPLACEABLE PARTS

6-1. INTRODUCTION

6-2. This section contains information for ordering parts. Table 6-1 lists abbreviations used in the parts list and throughout the manual. Tables 6-2, 6-3, and 6-4 list all electrical parts in reference designator order. Table 6-5 is a list of names and addresses that correspond to the manufacturer's code numbers used in Tables 6-2 through 6-4. Figures 6-1 through 6-11 contain illustrations and parts listings for mechanical parts found in the instrument.

6-3. HOW TO DETERMINE A REPLACEMENT PART NUMBER

6-4. **Electrical Parts.** It is necessary to determine the reference designator of an electrical part before the replacement part number can be determined. Reference designators for major assemblies and components can be found on the major assembly and component location illustrations at the rear of this volume. Reference designators for assembly mounted components can be found on the schematic diagrams for those assemblies. Replacement part numbers for these parts are found in Table 6-2 in alphanumerical order. Reference designators for some chassis-mounted electrical parts can be found on primary power wiring diagrams. For the RF Section, this is the A25 Rectifier/A26 Motherboard service section. For the IF-Display Section, this is the A1A8 Rectifier/A1A9 Bus Transition service section. Part numbers for these parts are found in Tables 6-3 and 6-4 in alphanumerical order. Reference designators for miscellaneous electrical parts not shown on schematic diagrams in the service sections can be found in the major assembly and component location illustration located at the rear of

this volume and in Figures 6-1 through 6-11. Part numbers for these parts are contained throughout Tables 6-2, 6-3, and 6-4 in alphanumerical order.

6-5. **Cables.** Cables for the IF-Display Section are listed in Table 6-3. Cables for the RF Section are listed in Table 6-4. Interconnect cables are W30 and W31 in Table 6-3. Refer to Figure 2-5 for identification. Power cable part numbers and descriptions are located in Table 2-1.

6-6. **Mechanical Parts.** Mechanical parts are identified in Figures 6-1 through 6-11 using photographs. Part numbers for these mechanical parts can be found in the lists accompanying those illustrations. Some mechanical parts are listed in Tables 6-3 and 6-4 following the listing of electrical parts.

6-7. ORDERING INSTRUCTIONS

6-8. To order a replaceable part for the instrument, quote the Hewlett-Packard part number, indicate quantity required, and address the order to the nearest Hewlett-Packard office. Addresses of HP offices are provided at the rear of each volume of this manual.

6-9. MODULE EXCHANGE PROGRAM

6-10. The A23A1 YIG-Tuned Oscillator, the A5AT1/A12U17 Input Attenuator/Error Correction PROM, and the A4A2/A4A3 Log Amplifiers may be ordered through the module exchange program. Table 6-2 lists the HP Part Numbers for both the new and restored parts. The restored parts may be purchased through the module exchange program at a reduced price. The lower price is dependent on the return of the defective module to Hewlett-Packard.

Table 6-1. Reference Designations and Abbreviations (1 of 2)

REFERENCE DESIGNATIONS

A assembly	E miscellaneous electrical part	Q transistor; SCR; triode thyristor	W cable; transmission path; wire
AT attenuator; isolator; termination; limiter	F fuse	R resistor	X socket
B fan; motor	FL filter	RT thermistor	Y crystal unit (piezo-electric or quartz)
BT battery	H hardware	S switch	Z tuned cavity; tuned circuit
C capacitor	HY circulator	T transformer	
CP coupler	J electrical connector (stationary portion); jack	TB terminal board	
CR diode; diode thyristor; varactor	K relay	TC thermocouple	
DC directional coupler	L coil; inductor	TP test point	
DL delay line	M meter	U integrated circuit; microcircuit	
DS annunciator; signaling device (audible or visual); lamp; LED	MP miscellaneous mechanical part	V electron tube	
	P electrical connector (movable portion); plug	VR voltage regulator; breakdown diode	

ABBREVIATIONS

A ampere	Cd cadmium	dcpc deposited carbon	FM frequency modulation
ac alternating current	cer ceramic	DCTL direct coupled transistor logic	FMS from mounting surface (used in parts list)
access accessory	CF center frequency	defl deflection	fp front panel
A/D analog-to-digital converter	CFM Cubic Feet/Minute	deg degree (temperature interval or difference)	fr front
ADJ adjustment	cham chamfered	°C degree Celsius (centigrade)	freq frequency
AF audio frequency	chan channel	°F degree Fahrenheit	FT gain bandwidth product
AFC automatic frequency control	circ circular	°K degree Kelvin	fxd fixed
Al aluminum	cm centimeter	DET detector	g gram
ALC automatic level control	cmo cabinet mount only	diam diameter	GaAs gallium arsenide
ALU arithmetic and logic unit	CMOS complementary metal-oxide-semiconductor	DIA diameter (used in parts list)	Ge germanium
AMPL amplifier	coax coaxial	DIFF AMP differential amplifier	gen prp general purpose
AMPTD amplitude	coef coefficient	DIP dual in-line package	gl glass
APC automatic phase control	com common	div division	glz glaze
arith arithmetic	comp composition	DL Display Line	gnd ground(ed)
assy assembly	compl complete	DMM digital multimeter	H Henry; logic
ATTEN attenuation	comptr comparator	dp depth	hd head
aux auxiliary	conn connector	DPDT double-pole, double-throw	hdw hardware
avg average	cont continuous, contact	DSB double sideband	het heterodyne
AWG American wire gauge	cp cadmium plate	DTL diode transistor logic	hex hexagonal
bal balance	cprsn compression	ECL emitter coupled logic	HF high frequency
barr barrier	CRT cathode-ray tube	elect electrolytic	Hg mercury
BCD binary coded decimal	crp crimp	EMP electromotive force	hgt height
bd board	crvd curved	encap encapsulated	hi high
bdg binding	CTL complementary transistor logic	ext external	hl helical
BeCu beryllium copper	CW clockwise; continuous wave	F Farad, female	HP Hewlett-Packard
CFO beat frequency oscillator	cyl cylindrical	FC carbon film/composition	HP-IB Hewlett-Packard Interface Bus
bh binding head	D/A digital-to-analog	fem female	HPF high-pass filter
bkdn breakdown	DAC digital-to-analog converter	FET field-effect transistor	hr hour
BP bandpass	dB decibel	FF flip-flop	hv high voltage
BPF bandpass filter	dBc decibel referred to carrier	fh flat head	Hz Hertz
brs brass	dbl double	filh fillister head	IC integrated circuit
bshg bushing	dBm decibel referred to 1 mW	fl flat	id inside diameter
BW bandwidth	dBmV decibel referred to 1 mV		IF intermediate frequency
C capacitance	dB μ V decibel referred to 1 μ V		IGFET insulated gate field-effect transistor
c cermet	dBV decibel referred to 1 V		imprg impregnated
cal calibrate; calibration	dc direct current		in inch
cc carbon composition			inced incandescent
CCW counterclockwise			incl include(s)
			inp input
			ins insulation

NOTE

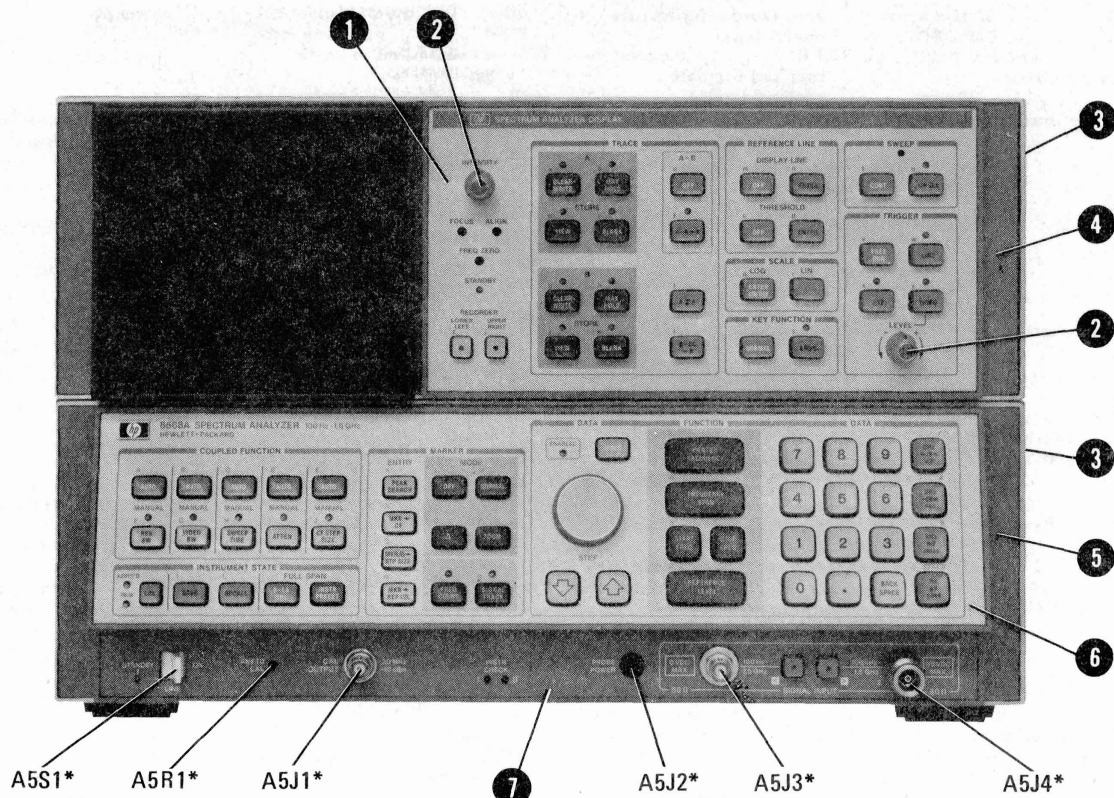
All abbreviations in the parts list will be in upper case.

Table 6-1. Reference Designations and Abbreviations (2 of 2)

INSTR instrument	NPN negative-positive negative (transistor)	pwr power	STP step
int internal	NPO negative-positive- zero (zero temperature coefficient)	PWV peak working voltage	SWR standing wave ratio
intfc interface	NRFR not recom- mended for field replacement	qdisc quick disconnect	sync. synchronize; synchronizer
intl internal	NSR not separately replaceable	PWW precision wire wound (used in parts list)	T timed (slow-blow fuse)(used in parts list)
inv inverter	num. numeric	R resistance	Ta tantalum
JFET junction field- effect transistor	ODD order by description	rec recessed	TC temperature of coefficient; temper- ature compensating
K kilohm	od outside diameter	RECT. rectifier	td time delay
L logic low; inductance	oh oval head	ref. reference	term terminal; termination
lb pound	OP AMP operational amplifier	reg regulated; regulator	TFT thin-film transistor
LCL local	opt option	repl replaceable	tgl toggle
LED light-emitting diode	OSC. oscillator	RES. resolution	thd thread; threaded
leg. legend	out output	RF radio frequency	thk thick
lgc. logic	ox oxide	RFI radio frequency interference	thkns thickness
lh left hand	oz ounce	RGLTR regulator (used in parts list)	thru through
lim limit	p peak	RGTR register (used in parts list)	Ti titanium
LIN linear taper (used in parts list)	PAM pulse-amplitude modulation	R.H. relative humidity	tol tolerance
lin linear	pb pushbutton	rh right hand; round head	trim trimmer
lk lock	pc printed circuit	rmo rack mount only	trmr. trimmer
lkwr. lockwasher	PCM pulse-code modulation	rms root-mean-square	tm turn(s)
LO local oscillator	PD power dissipation	rnd round	trsn torsion
LOG logarithmic taper (used in parts list)	PDM pulse-duration modulation	R & P rack and panel	tstr transistor
log logarithmic	PIN positive-intrinsic- negative	RPG rotary pulse generator	TTL transistor-trans- istor logic
LPF low-pass filter	PIV peak inverse voltage	rvt rivet; riveted	TVI television inter- ference
LS low power Schottky	pk peak	RWV reverse working voltage	TWT traveling-wave tube
lv low voltage	pl phase lock; plate	S scattering parameter; Schottky-clamped; silicone	UF microfarad (used in parts list)
LVL level	PLL phase-locked loop	S-B slow-blow (fuse) (used in parts list)	UHF ultrahigh fre- quency
M male; Megohm	PLO phase lock oscillator	SCR silicon controlled rectifier	un unit
m meter (distance)	PM pulse modulation	Se selenium	unmtd unmounted
mach machine	PNP positive-negative- positive	sec second (time)	unreg unregulated
mat matrix	p/o part of	SEL select; selector (used in parts list)	V volt
max maximum	poly. polystyrene	sect section	v voltage; variable
met metallic; metalized	polyc polycarbonate	semicon semiconductor	VA voltampere
met film metal film	polye polyester	sgl single	Var volt, ac
met ox metallic oxide	polyeth. polyethylene	SHF superhigh frequency	var variable
MF medium frequency; microfa.ad (used in parts list)	porc. porcelain	shldr shouldered	VCO voltage-controlled oscillator
mfr manufacturer	pos positive; position (used in parts list)	Si silicon	Vdc volt, dc
min minimum; minute	posn position	SIL silver (used in parts list)	Vpk volt, peak
minat miniature	pot potentiometer	SIP single in-line package	Vp-p volt, peak-to-peak
MKR marker	p-p peak-to-peak	skt skirt	Vrms volt, rms
mm millimeter	PP peak-to-peak (used in parts list)	sl slide	VSWR voltage standing wave ratio
MOD modulator	PPM parts per million	sldr solder	VTO voltage-tuned oscillator
mom momentary	PREAMP preamplifier	slt slot; slotted	VTVM vacuum tube v(x) volts, switched
MOS metal-oxide semiconductor	prec precision	snp snap	W watt
mtg mounting	PRF pulse repetition frequency	SNR signal-to-noise ratio	w/. with
mtlc. metallic	PROC processor	spg. spacing	wd width
mtr meter (indicating device)	PRR pulse repetition rate	SPDT single-pole, double- throw	WIV working inverse voltage
MUXR multiplexer (used in parts list)	pstn piston	spr spring	w/o without
mux multiplex	pt point; part	SPST single-pole, single- throw	WV working voltage
MV multivibrator (used in parts list)	PTM pulse-time mod- ulation	sq square	WVDC working voltage direct current
my mylar	PVC polyvinyl chloride	sr split ring	ww wirewound
MP micro processor	PWM pulse-width modulation	SSB single sideband	xstr transistor
NC no connection		sst stainless steel	YIG yttrium-iron-garnet
nc normally closed		stl steel	YTO YIG-tuned oscillator
Ne neon			Znr zener
neg negative			Z ₀ characteristic impedance
Ni nickel			
NMOS n-channel metal- oxide semiconductor			
no normally open			
nom nominal			
norm normal			

NOTE

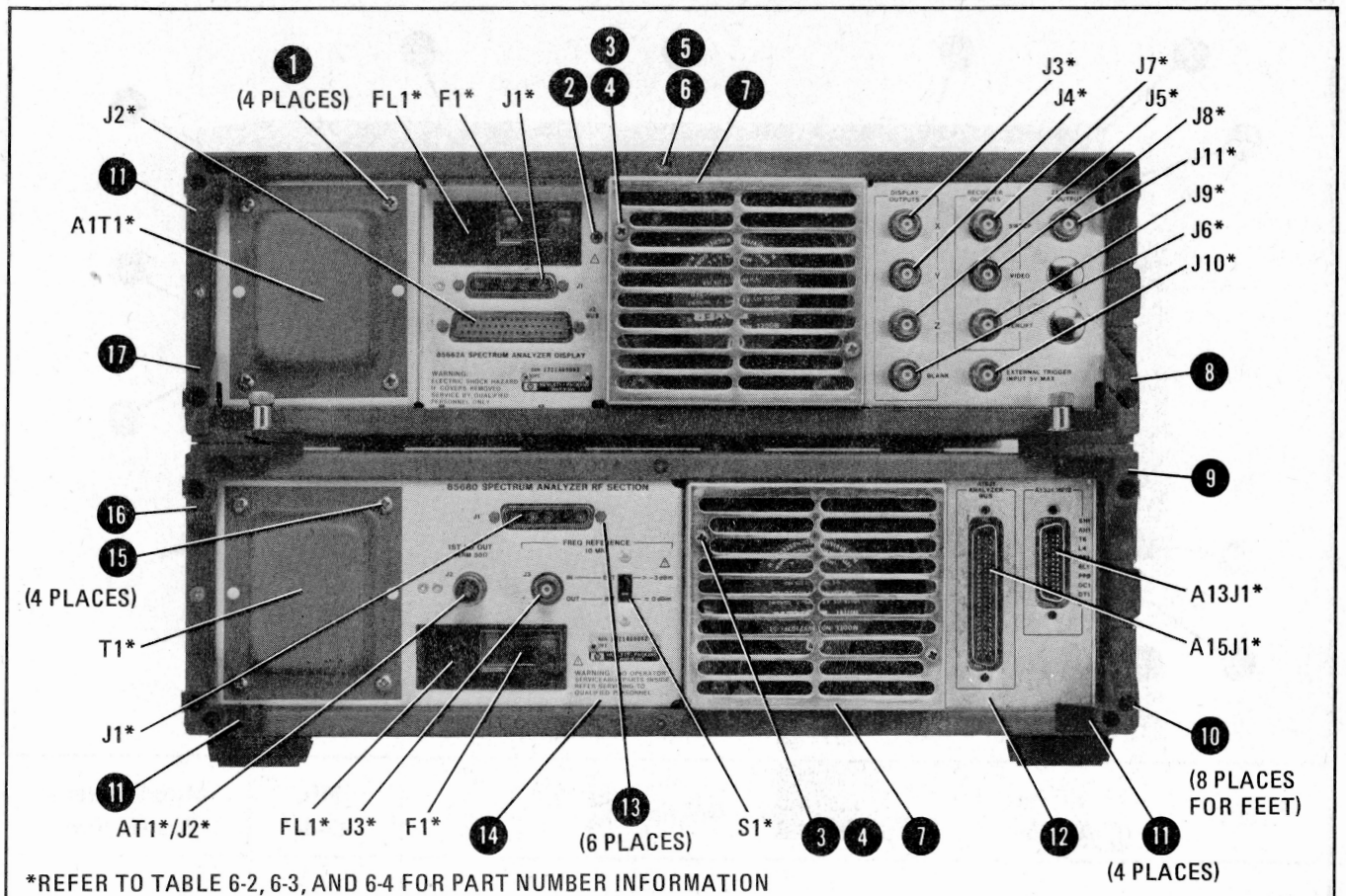
All abbreviations in the parts list will be in upper case.



*REFER TO TABLE 6-2 FOR PART NUMBER INFORMATION

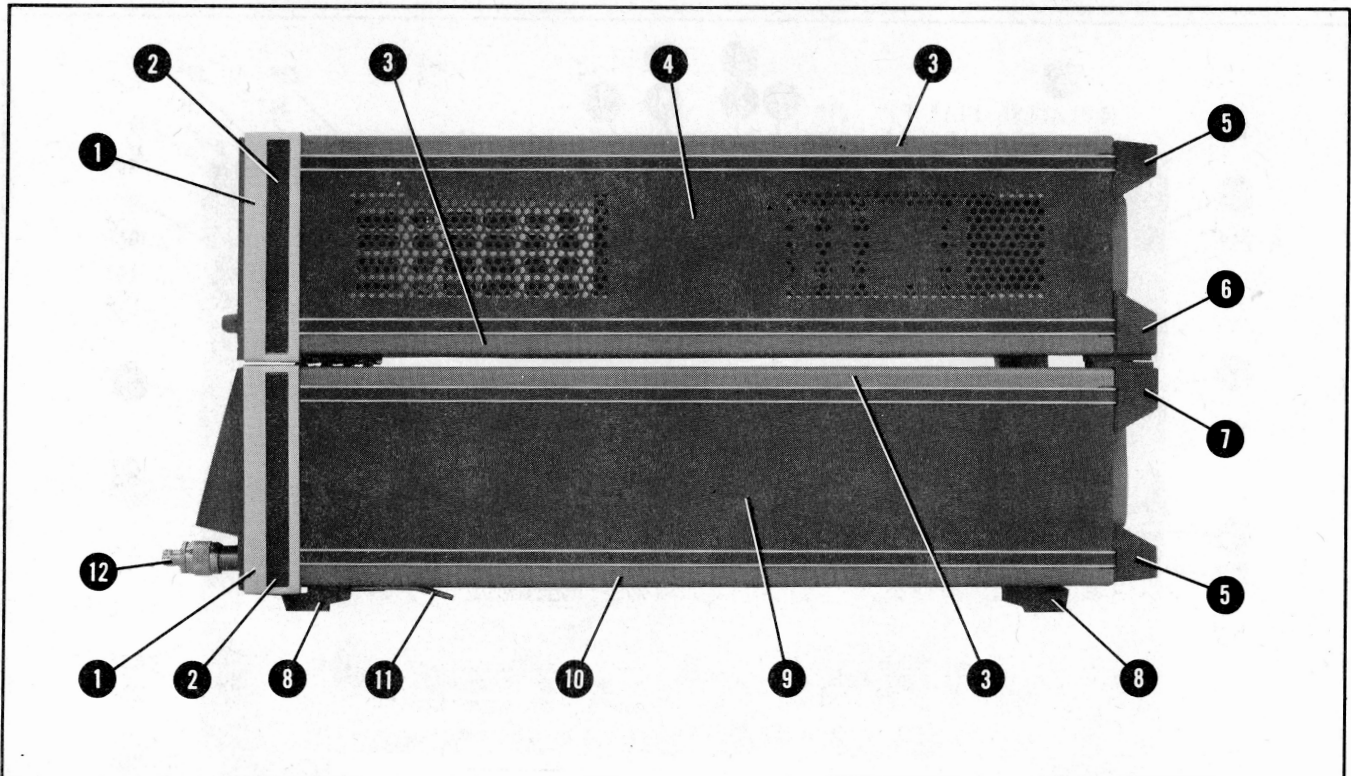
Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	85662-00054	Panel, Front Dress	28480	85662-00054
2	0370-1005	Knob, Base Ptr.	28480	0370-1005
3	5020-8803	Frame, Front	28480	5020-8803
4	85662-20064	Bezel, Mainframe	28480	85662-20064
5	85680-40003	Bezel, Front	28480	85680-40003
6	85680-00049	Panel, Upper Dress	28480	85680-00049
7	85680-00048	Panel, Lower Dress	28480	85680-00048
7	85680-00025	Panel, Lower Dress (Option 001)	28480	85680-00025

Figure 6-1. Overall Instrument Parts Identification, Front View



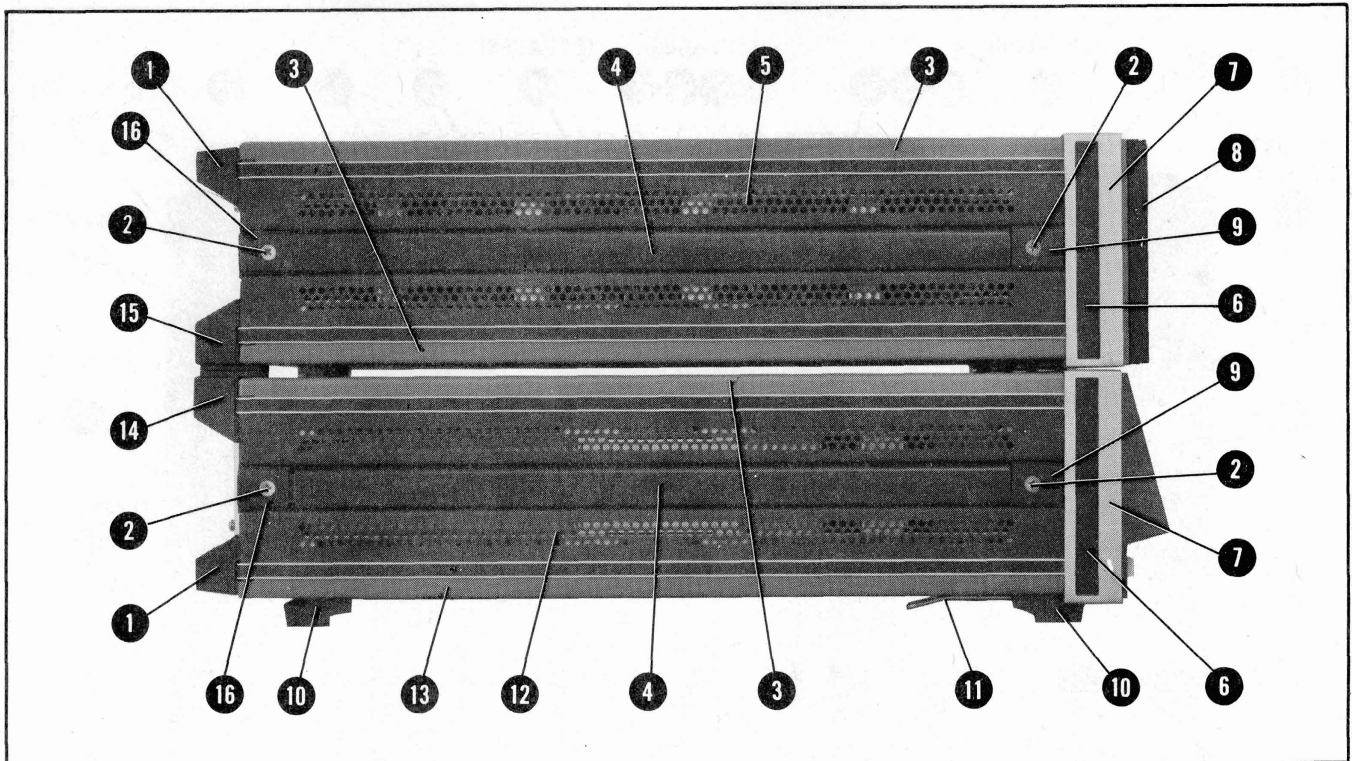
Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	2510-0136	Screw, 8-32, 2.5-IN-LG PAN HD	28480	2510-0136
2	2200-0103	Screw, 4-40, .25-IN-LG PAN HD	28480	2200-0103
3	2360-0219	Screw, 6-32, 1.375-IN-LG PAN HD	28480	2360-0219
4	2190-0018	Washer, Lk	28480	2190-0018
5	0570-1171	Screw, Cover Mtg 6-32 .460-IN-LG	28480	0570-1171
6	0510-0043	Retainer Ring for Screw 5	28480	0510-0043
7	86701-00007	Guard Fan	28480	86701-00007
8	08505-20157	Lock Foot	28480	08505-20157
9	08505-20158	Lock Foot	28480	08505-20158
10	2360-0332	Screw, 6-32, .312-IN-LG PAN HD	28480	2360-0332
11	5040-7201	Foot, Bottom	28480	5040-7201
12	85680-20063	Support, PC, Rear	28480	85680-20063
13	1251-2942	Screw, 4-40 (includes nut and washer)	28480	1251-2942
14	85680-00007	Panel, Rear	28480	85680-00007
15	2510-0137	Screw, 8-32 PAN HD	28480	2510-0137
16	08505-20156	Lock Foot	28480	08505-20156
17	08505-20155	Lock Foot	28480	08505-20155

Figure 6-2. Overall Instrument Parts Identification, Rear View



Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	5020-8803	Frame, Front	28480	5020-8803
2	5001-0439	Trim Strip	28480	5001-0439
3	5060-9835	Cover-18"	28480	5060-9835
4	5060-9912	Cover, side, perf.	28480	5060-9912
5	5040-7221	Foot, rear	28480	5040-7221
6	08505-20155	Lock Foot	28480	08505-20155
7	08505-20156	Lock Foot	28480	08505-20156
8	5040-7201	Foot, Bottom	28480	5040-7201
9	5060-9857	Cover, Side	28480	5060-9857
10	5060-9847	Cover, Bottom 18"	28480	5060-9847
11	1460-1345	Tilt Stand	28480	1460-1345
12	1250-0780	Adapter, Coax Type N (m) to BNC (f)	9D949	31-216-1020

Figure 6-3. Overall Instrument Parts Identification, Right Side View



Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	5040-7221	Foot-Rear	28480	5090-7221
2	2680-0172	Screw, 10-32, .375-IN-LG FL HD	28480	2680-0172
3	5060-9835	Cover-18"	28480	5060-9835
4	5060-9804	Strap Handle Assy-18"	28480	5060-9804
5	5060-9937	Cover, Side, Perf	28480	5060-9937
6	5001-0439	Trim Strip	28480	5001-0439
7	5020-8803	Frame, Front	28480	5020-8803
8	5040-7253	Bezel, CRT	28480	5040-7253
9	5040-7219	Cover, Strap Handle, Front	28480	5040-7219
10	5040-7201	Foot, Bottom	28480	5040-7201
11	1460-1345	Tilt Stand	28480	1400-1345
12	5060-9937	Cover, Side, Perf.	28480	5060-9937
13	5060-9847	Cover, Bottom 18"	28480	5060-9847
14	08505-20158	Lock Foot	28480	08505-20158
15	08505-20157	Lock Foot	28480	08505-20157
16	5040-7220	Cover, Strip Handle, Rear	28480	5040-7220

Figure 6-4. Overall Instrument Parts Identification, Left Side View

Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	2510-0195	Screw, 8-32, .375-IN-LG 100 DEG	28480	2510-0195
2	5020-8837	Strut, Corner, 18"	28480	5020-8837
3	85680-00005	Cover, Controller	28480	85680-00005
4	2200-0107	Screw, 4-40, .375-IN-LG, PAN HD	28480	2200-0107
5	2200-0147	Screw, 4-40, .5-IN-LG, PAN HD	28480	2200-0147
6	3050-0105	Washer, Fl for screw 5	28480	3050-0105
7	2190-0003	Washer-Lk for screw 5	28480	2160-0003
8	1400-0017	Clamp-Cable .312-Dia., .375-Wide	04495	1953-5B-RED
9	85680-00034	Shield, Controller	28480	85680-00034
10	85680-00024	Bracket, Battery Pack	28480	85680-00024
11	08672-60092	Battery Pack Assy	28480	08672-60092
12	85680-00037	Top Mount, Timebase	28480	85680-00037
13	1520-0094	Isolation Mount	28480	1520-0094
14	2510-0192	Screw, 8-32, .25-1N-LG 100 DEG	28480	2510-0192
15	2360-0116	Screw, 6-32, .312-IN-LG 82 DEG	28480	2360-0116
16	5020-8803	Frame, Front	28480	5020-8803
17	85680-40003	Bezel, Mainframe	28480	85680-40003
18	85680-20056	Shielding Box	28480	85680-20056
19	2360-0196	Screw, 6-32, .375-IN-LG, 100 DEG	28480	2360-0196
20	2190-0018	Washer, Lk for screw 19	28480	2190-0018
21	3050-0010	Washer, Fl for screw 19	28480	3050-0010
22	85680-00033	Cover, Frequency Control	28480	85680-00033
23	85680-00006	Shield, Frequency Control	28480	85680-00006
24	85680-00019	Cover, Capacitor	28480	85680-00019
25	85680-20072	Frame, Rear	28480	85680-20072
26	86701-00007	Guard, Fan	28480	86701-00007
27	85680-00032	Shield, Power Xstr	28480	85680-00032
28	2360-0115	Screw, 6-32, .312-IN-LG, PAN HD	28480	2360-0115
29	85680-00022	Guide, Rectifier Board	28480	85680-00022
30	85680-20066	Guide, PC Board	28480	85680-20066

Figure 6-5. RF Section Parts Identification Bottom View (2 of 2)

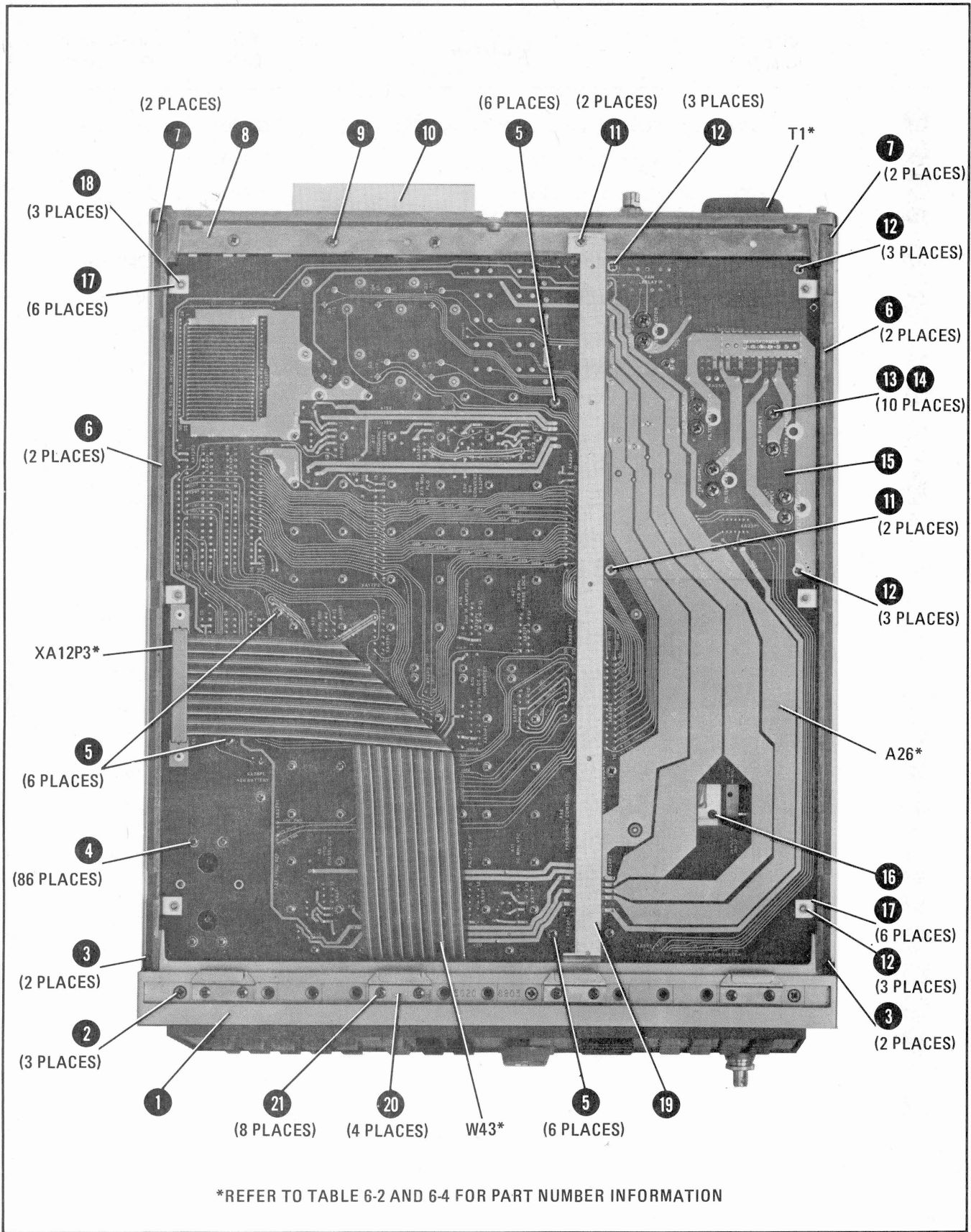
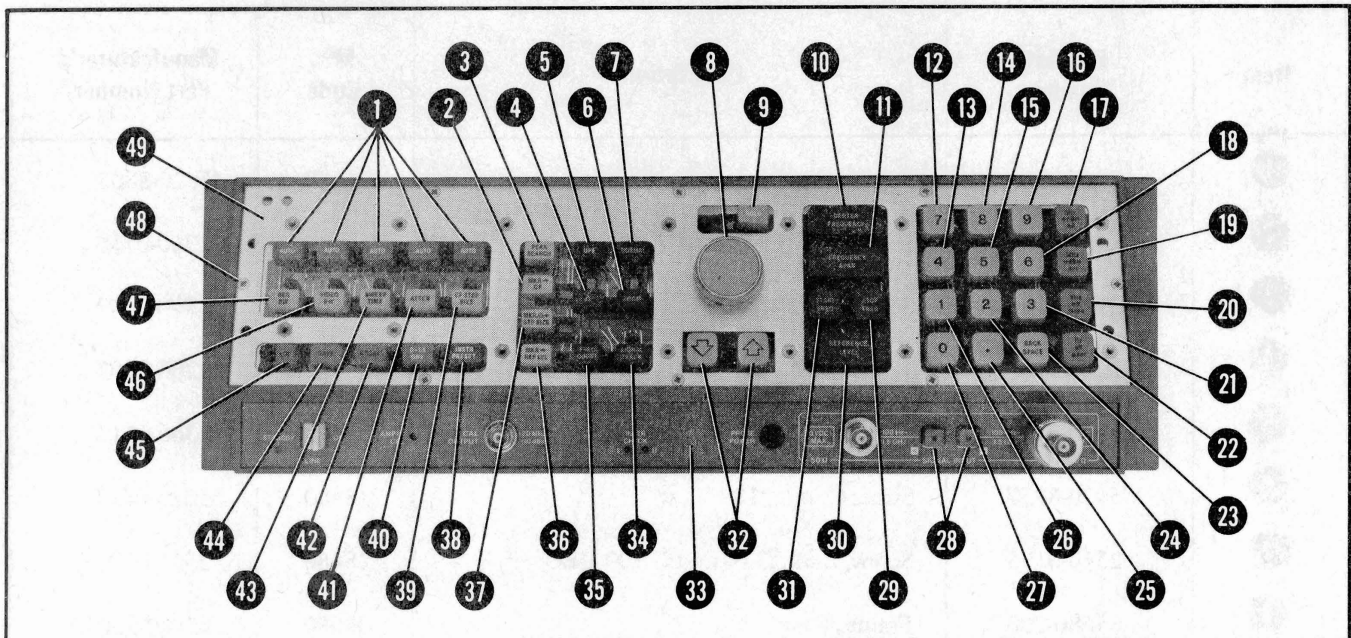


Figure 6-6. RF Section Parts Identification, Top View (1 of 2)

Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	5020-8803	Frame, Front	28480	5020-8803
2	2360-0116	Screw, 6-32, .312-IN-LG 82 DEG	28480	2360-0116
3	2510-0192	Screw, 8-32, .25-IN-LG 100 DEG	28480	2510-0192
4	2200-0107	Screw, 4-40, .375-IN-LG, PAN HD	28480	2200-0107
5	2360-0113	Screw, 6-32, .25-IN-LG, PAN HD	28480	2360-0113
6	5020-8837	Strut, Corner, 18"	28480	5020-8837
7	2510-0195	Screw, 8-32, .375-IN-LG 100 DEG	28480	2510-0195
8	85680-20072	Frame, Rear	28480	85680-20072
9	2360-0117	Screw, 6-32, .375-IN-LG PAN HD	28480	2360-0117
10	86701-00007	Guard, Fan	28480	86701-00007
11	2360-0360	Screw, 6-32, .438-IN-LG 100 DEG	28480	2360-0360
12	2360-0333	Screw, 6-32, .25-IN-LG 100 DEG	28480	2300-0333
13	2680-0099	Screw, 10-32, .375-IN-LG PAN HD	28480	2680-0099
14	2190-0011	Washer, LK for screw 13	02440	1022
15	85680-00031	Shield, Power Supply	28480	85680-00031
16	2200-0103	Screw, 4-40, .25-IN-LG PAN HD	28480	2200-0103
17	85680-00001	Bracket, Motherboard Mount	28480	85680-00001
18	2360-0115	Screw, 6-32, .312-IN-LG PAN HD	28480	2360-0115
19	85680-20062	Support, Mother Board	28480	85680-20062
20	1600-0367	Lock Link		
21	2360-0330	Screw, 6-32, .188-IN-LG PAN HD	28480	2360-0330

Figure 6-6. RF Section Parts Identification, Top View (2 of 2)




















Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	5041-0706	Key— 	28480	5041-0706
2	5041-0712	Key— 	28480	5041-0712
3	5041-0938	Key— 	28480	5041-0938
4	5041-0716	Key— 	28480	5041-0716
5	5041-0692	Key— 	28480	5041-0692
6	5041-0717	Key— 	28480	5041-0717
7	5041-0698	Key— 	28480	5041-0698
8	0370-2992	Knob—Round	28480	0370-2992
9	5041-0725	Key— 	28480	5041-0725
10	5041-0673	Key— 	28480	5041-0673
11	5041-0674	Key— 	28480	5041-0674
12	5041-0751	Key— 	28480	5041-0751
13	5041-0748	Key— 	28480	5041-0748
14	5041-0752	Key— 	28480	5041-0752
15	5041-0749	Key— 	28480	5041-0749
16	5041-0753	Key— 	28480	5041-0753
17	5041-0727	Key— 	28480	5041-0727
18	5041-0750	Key— 	28480	5041-0750

Figure 6-7. RF Section Parts Identification, Front Panel (1 of 4)






























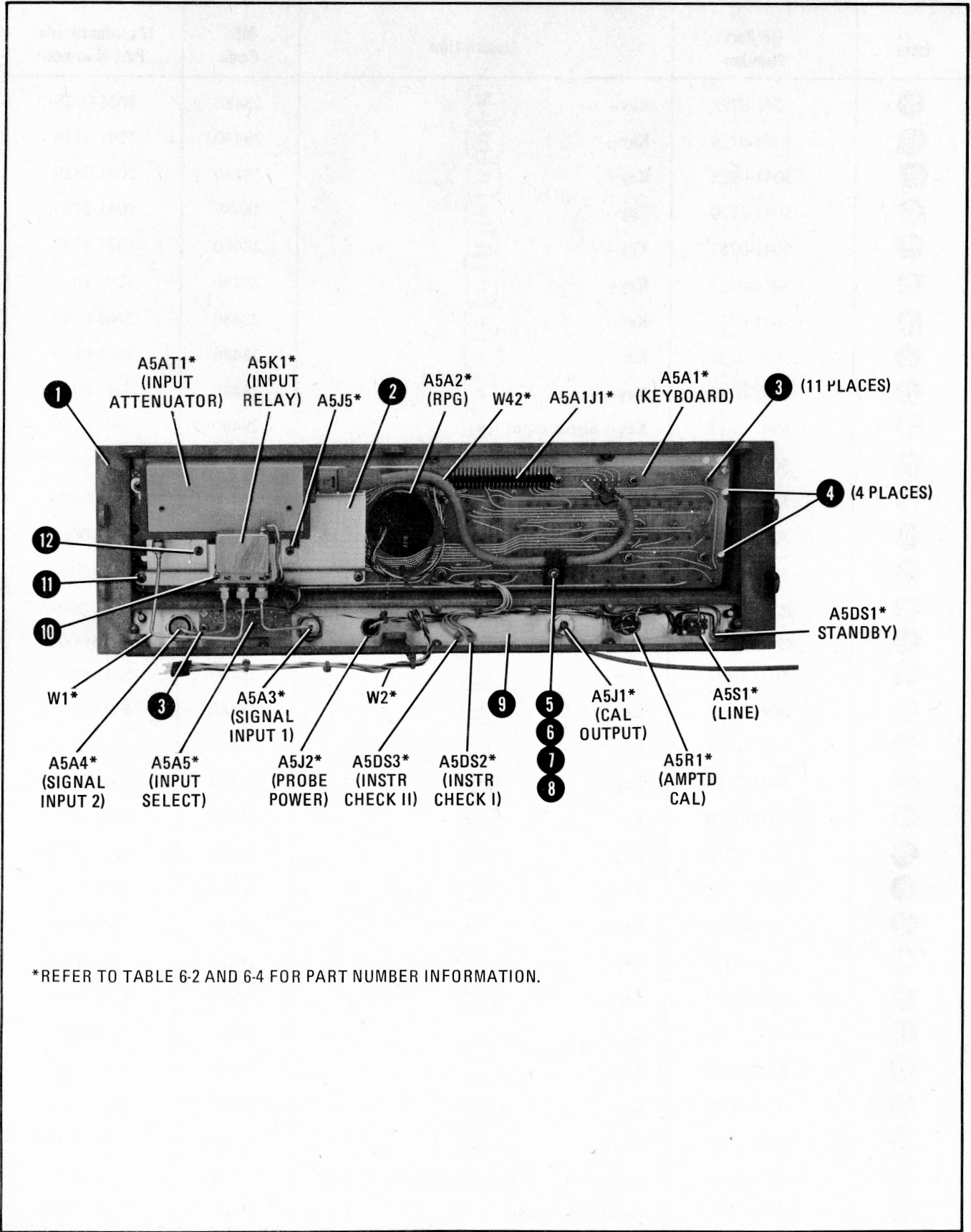
Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
19	5041-0728	Key— 	28480	5041-0728
20	5041-0729	Key— 	28480	5041-0729
21	5041-0828	Key— 	28480	5041-0828
22	5041-0730	Key— 	28480	5041-0730
23	5041-0757	Key— 	28480	5041-0757
24	5041-0827	Key— 	28480	5041-0827
25	5041-0755	Key— 	28480	5041-0755
26	5041-0826	Key— 	28480	5041-0826
27	5041-0754	Key— 	28480	5041-0754
28	5041-0318	Key— Signal Input 	28480	5041-0318
29	5041-0669	Key— 	28480	5041-0669
30	5041-0675	Key— 	28480	5041-0675
31	5041-0668	Key— 	28480	5041-0668
32	5041-0756	Key—  	28480	5041-0756
33	85680-00048	Panel, Front Lower Dress	28480	85680-00048
33	85680-00025	Panel, Front Lower Dress (Option 001)	28480	85680-00025
34	5041-0937	Key— 	28480	5041-0937
35	5041-0718	Key— 	28480	5041-0718
36	5041-0715	Key— 	28480	5041-0715
37	5041-0714	Key— 	28480	5041-0714
38	5041-0720	Key— 	28480	5041-0720
39	5041-0711	Key— 	28480	5041-0711
40	5041-0721	Key— 	28480	5041-0721
41	5041-0710	Key— 	28480	5041-0710
42	5041-0775	Key— 	28480	5041-0775
43	5041-0709	Key— 	28480	5041-0709
44	5041-0095	Key— 	28480	5041-0095
45	5041-0726	Key— 	28480	5041-0726
46	5041-0708	Key— 	28480	5041-0708
47	5041-0707	Key— 	28480	5041-0707
48	0624-0203	Screw, 4-40, .312 IN LG, 82 DEG FL HD	28480	0624-0203
49	85680-00011	Panel, Sub Upper	28480	85680-00011

Figure 6-7. RF Section Parts Identification, Front Panel (2 of 4)



*REFER TO TABLE 6-2 AND 6-4 FOR PART NUMBER INFORMATION.

Figure 6-7. RF Section Parts Identification, Front Panel (3 of 4)

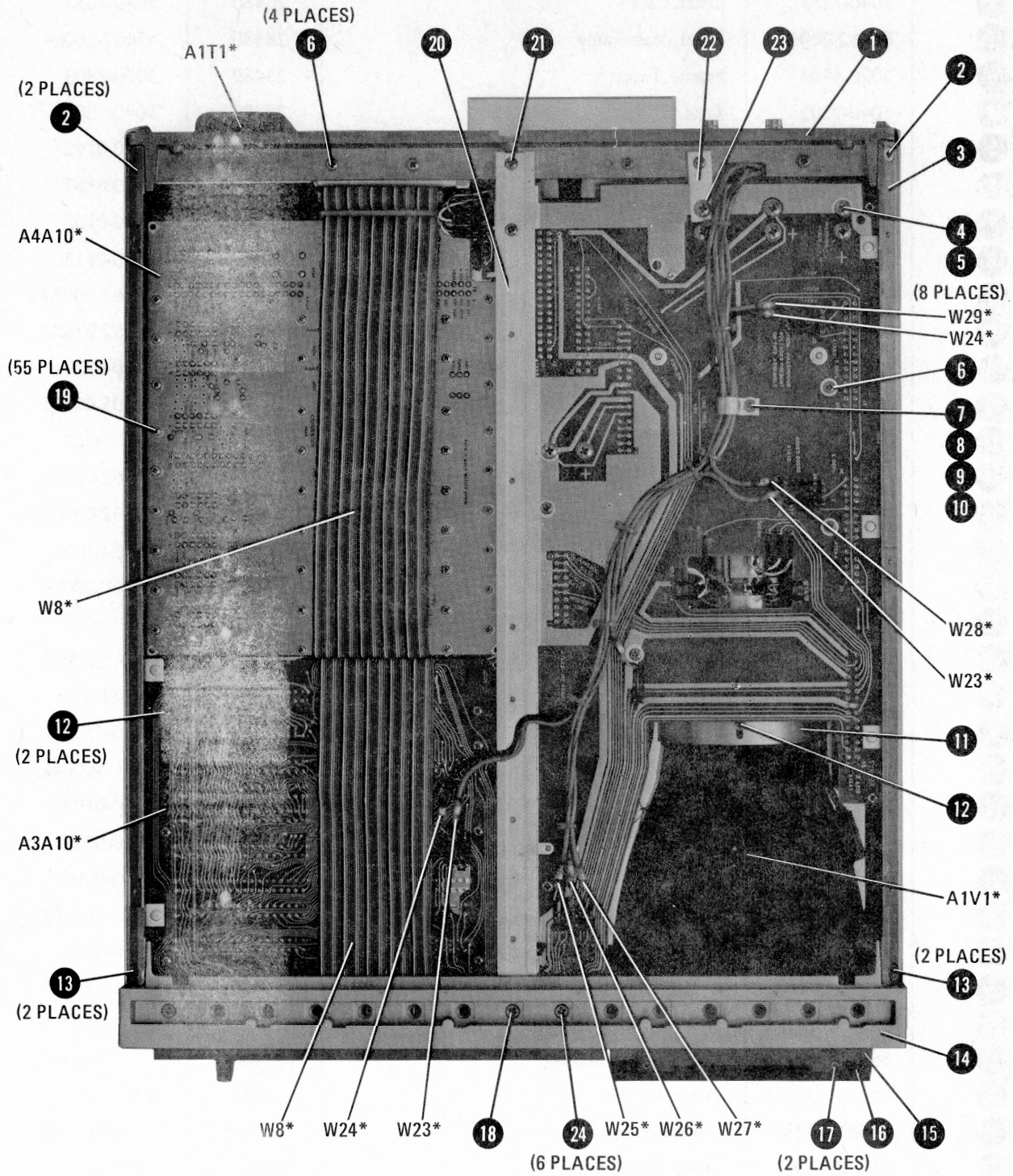
Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	85680-40003	Bezel, Front	28480	85680-40003
2	85680-00013	Bracket, Attenuator	28480	85680-00013
3	2200-0105	Screw, 4-40, .312 IN LG, PAN HD	28480	2200-0105
4	0510-1148	Retainer, Push-On	28480	0510-1148
5	2200-0147	Screw, 4-40, .500 IN LG, PAN HD	28480	2200-0147
6	2190-0003	Washer, Lock For Screw 5	28480	2190-0003
7	3050-0105	Washer, Flat For Screw 5	28480	3050-0105
8	1400-0619	Clamp, Cable	05683	5/16-HFR
9	85680-00009	Panel, Sub Lower	28480	85680-00009
10	0520-0136	Screw, 2-56, .625 IN LG, PAN HD	28480	0520-0136
11	2200-0111	Screw, 4-40, .5 IN LG, PAN HD	28480	2200-0111
12	2200-0103	Screw, 4-40, .25 IN LG, PAN HD	28480	2200-0103

Figure 6-7. RF Section Parts Identification, Front Panel (4 of 4)

Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	5040-7253	Bezel, CRT	28480	5040-7253
2	85662-20064	Bezel, Mainframe	28480	85662-20064
3	5020-8803	Frame, Front	28480	5020-8803
4	5040-7202	Trim, Top	28480	5040-7202
5	2510-0192	Screw, 8-32, .25-IN-LG 100 DEG FH	28480	2510-0192
6	5020-8882	Strut, Corner, 18"	28480	5020-8882
7	2200-0103	Screw, 4-40, .25-IN-LG PAN-HD	28480	2200-0103
8	2360-0115	Screw, 6-32, .312-IN-LG PAN-HD	28480	2360-0115
9	85662-00037	Shield, Amplifier	28480	85662-00037
10	85662-00040	Bracket, Capacitor	28480	85662-00040
11	2360-0221	Screw, 6-32, .25-IN-LG PAN-HD	28480	2360-0221
12	08505-00121	Clamp, CRT Shield	28480	08505-00121
13	1220-0203	Shield, CRT	28480	1220-0203
14	85662-00041	Bracket, Dual Capacitor	28480	85662-00041
14	85662-00062	Bracket, Tri-Capacitor (Option 400)	28480	85662-00062
15	2510-0195	Screw, 8-32, .375-IN-LG 100 DEG FH	28480	2510-0195
16	85662-20030	Frame, Rear	28480	85662-20030
17	2360-0115	Screw, 6-32, .312-IN-LG PAN-HD	28480	2360-0116
18	85662-00049	Shroud, Airduct (Voltage Regulator Cover)	28480	85662-00049
19	86701-00007	Guard, Fan	28480	86701-00007
20	2360-0111	Screw, 6-32, .188-IN-LG PAN-HD	28480	2360-0111
21	85662-00046	Bracket, PC Board	28480	85662-00046
22	2360-0197	Screw, 6-32, .5-IN-LG PAN-HD	28480	2360-0197
23	3050-0227	Washer, F1 for Screw 22	28480	3050-0227
24	2190-0006	Washer, Lk for Screw 22	28480	2190-0006
25	1400-0017	Clamp-Cable, .312-DIA, .375-WIDE	04495	1953-5B-RED
26	2360-0113	Screw, 6-32, .25-IN-LG PAN-HD	28480	2360-0113
27	85662-20017	IF Housing Casting	28480	85662-20017
28	2200-0107	Screw, 4-40, .375-IN-LG	28480	2200-0107
29	85662-00044	Cover-Digital Storage	28480	85662-00044
30	85662-00052	Cover-Side HV	28480	85662-00052
31	85662-00036	Cover-HV Supply	28480	85662-00036
32	85662-20042	Guide-HV, Nylon	28480	85662-20042
33	85662-60099	Shield Assy-Digital Storage (beneath cover 29)	28480	85662-60099

Figure 6-8. IF-Display Section Parts Identification, Top View (2 of 2)

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

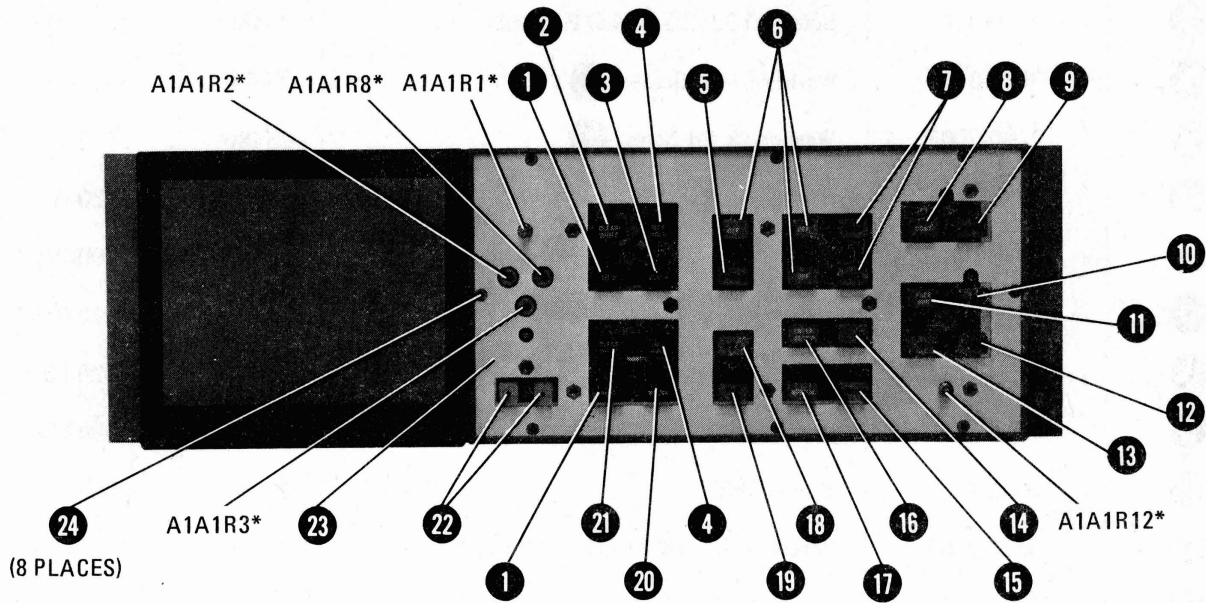


*REFER TO TABLE 6-2 AND 6-3 FOR PART NUMBER INFORMATION

Figure 6-9. IF-Display Section Parts Identification, Bottom View (1 of 2)

<i>Table 6-2. Model 8568A Replaceable Parts (Cont'd)</i>				
Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	85662-20030	Frame, Rear	28480	85662-20030
2	2510-0195	Screw, 8-32, .375-IN-LG 100 DEG FH	28480	2510-0195
3	5020-8882	Strut, Corner, 18"	28480	5020-8882
4	2190-0011	Washer-Lk for Screw 5	02440	1022
5	2680-0099	Screw, 10-32, .375-IN-LG PAN-HD	28480	2680-0099
6	2360-0113	Screw, 6-32, .25-IN-LG PAN-HD	28480	2360-0113
7	1400-0014	Clamp, Cable	28480	1400-0014
8	2360-0113	Screw, 6-32, .25 IN LG PAN-HD	28480	2360-0113
9	3050-0105	Washer-Fl for Screw 8	28480	3050-0105
10	2190-0003	Washer-Lk for Screw 8	28480	2190-0003
11	1220-0203	Shield, CRT	28480	1220-0203
12	2200-0103	Screw, 4-40, .25-IN-LG PAN-HD	28480	2200-0103
13	2510-0192	Screw, 8-32, .15-IN-LG 100 DEG FH	28480	2510-0192
14	5020-8803	Frame, Front	28480	5020-8803
15	85662-20064	Bezel, Mainframe	28480	85662-20064
16	5040-7253	Bezel, CRT	28480	5040-7253
17	0520-0163	Screw, 2-56, .18 IN LG 82 DEG FH	28480	0520-0163
18	2360-0118	Screw, 6-32, .375-IN-LG 82 DEG FH	28480	2360-0118
19	2200-0105	Screw, 4-40, .312-IN-LG PAN-HD	28480	2200-0105
20	85662-20031	Support, Center Member	28480	85662-20031
21	2360-0121	Screw, 6-32, .500-IN-LG PAN-HD	28480	2360-0121
22	85662-00053	Strap	28480	85662-00053
23	2360-0115	Screw, 6-32, .312-IN-LG PAN-HD	28480	2360-0115
24	2360-0116	Screw, 6-32, .312 LG 82 DEG FH	28480	2360-0116

Figure 6-9. IF-Display Section Parts Identification, Bottom View (2 of 2)



*REFER TO TABLE 6-2 FOR PART NUMBER INFORMATION.

Figure 6-10. IF-Display Section Parts Identification, Front Panel View (1 of 3)























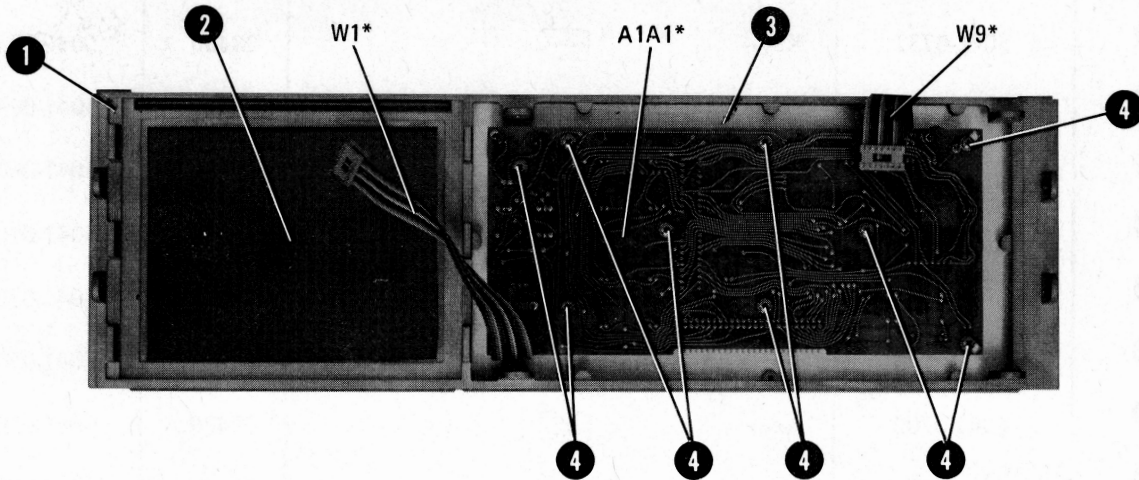
Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	5041-0690	Key— 	28480	5041-0690
2	5041-0688	Key— 	28480	5041-0688
3	5041-0807	Key— 	28480	5041-0807
4	5041-0689	Key— 	28480	5041-0689
5	5041-0732	Key— 	28480	5041-0732
6	5041-0693	Key— 	28480	5041-0693
7	5041-0696	Key— 	28480	5041-0696
8	5041-0700	Key— 	28480	5041-0700
9	5041-0701	Key— 	28480	5041-0701
10	5041-0703	Key— 	28480	5041-0703
11	5041-0702	Key— 	28480	5041-0702
12	5041-0705	Key— 	28480	5041-0705
13	5041-0704	Key— 	28480	5041-0704
14	5041-0310	Key— LINEAR 	28480	5041-0310
15	5041-0699	Key— 	28480	5041-0699
16	5041-0733	Key— 	28480	5041-0733
17	5041-0697	Key— 	28480	5041-0697
18	5041-0694	Key— 	28480	5041-0694
19	5041-0916	Key— 	28480	5041-0916
20	5041-0691	Key— 	28480	5041-0691
21	5041-0806	Key— 	28480	5041-0806
22	5040-0285	Key—RECORDER 	28480	5040-0285
23	85662-00030	Panel, Sub Front	28480	85662-00030
24	0624-0201	Screw, 4-40, .188-IN-LG 82 DEG FT HD	28480	0624-0201

Figure 6-10. IF-Display Section Parts Identification, Front Panel View (2 of 3)

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

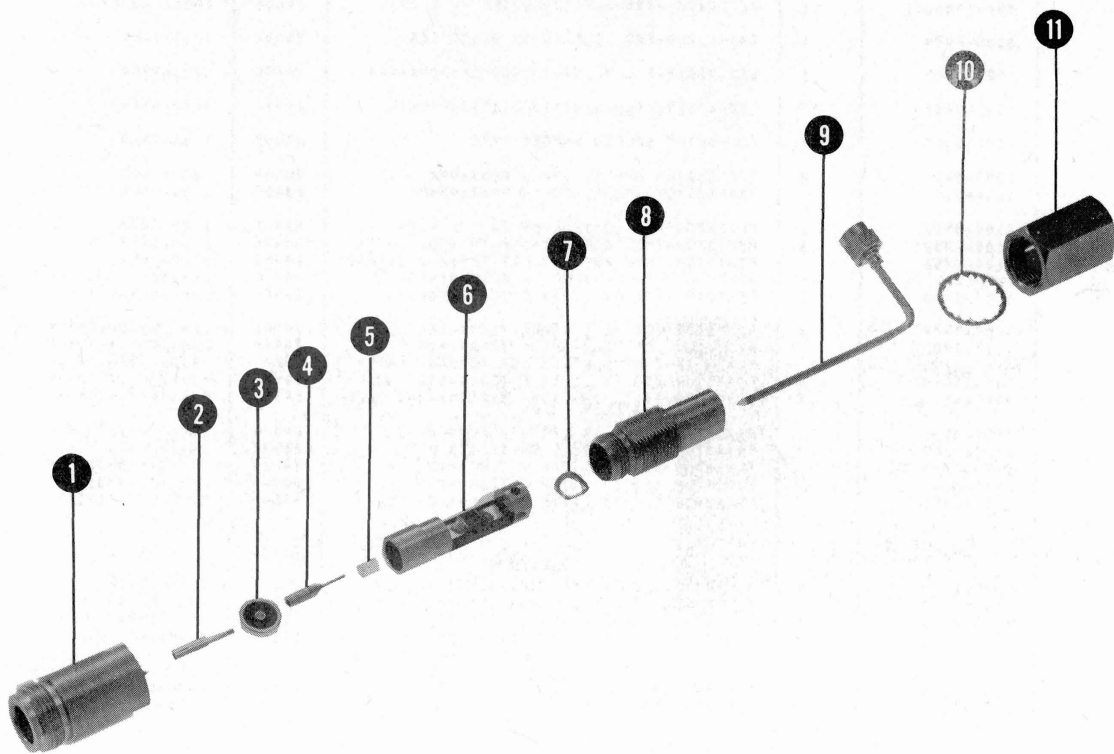


*REFER TO TABLE 6-2 AND 6-3 FOR PART NUMBER INFORMATION

Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	85662-20064	Bezel, Mainframe	28480	85662-20064
2	9135-0052	RFI Shield: Glass	28480	9135-0052
3	85662-00030	Panel, Sub Front	28480	85662-00030
4	2200-0103	Screw, 4-40 .25-IN-LG PAN-HD	28480	2200-0103

Figure 6-10. IF-Display Section Parts Identification, Front Panel View (3 of 3)

Table 6-2. Model 8568A Replaceable Parts (Cont'd)



Item	HP Part No.	Description
1	1250-1577	CONNECTOR: RF TYPE N
2	1250-0915	CONNECTOR: RF FEMALE CONTACT
3	5040-0306	INSULATOR
4	08558-20076	CONDUCTOR: INNER
5	08558-20077	DIELECTRIC
6	08558-60127	HOLDER: PC BOARD AND CAPACITOR INCLUDED
7	3050-0253	WASHER: SPRING
8	08558-20079	SHELL: TYPE N
9	85680-20102	CABLE: SEMI-RIGID
10	2190-8900	WASHER: INTERNAL LOCKING
11	85680-20107	NUT: HEX

Figure 6-11. A5A4 Blocking Capacitor (SIGNAL INPUT 2), Parts Identification

Table 6-2. Model 8568A Replaceable Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1T1	9100-4009	1	TRANSFORMER, MAIN POWER	28480	9100-4009
A1V1	5083-5791	1	CRT-P31 PHOSPHOR COATING	28480	5083-5791
A1A1	85662-60001	1	KEYBOARD ASSEMBLY (INCLUDES W1 & W9)	28480	85662-60001
A1A1C1	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A1A1D81	1990-0485	1	LED-VISIBLE LUM-INT=800UCD IF=30MA-MAX	28480	5082-4984
A1A1D82- A1A1D818	1990-0487	17	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A1A1J1	1251-4828	1	CONNECTOR 50-PIN M POST TYPE	28480	1251-4828
A1A1Q1	1854-0404	2	TRANSISTOR NPN 81 TO-18 PD=360MW	28480	1854-0404
A1A1Q2	1854-0404		TRANSISTOR NPN 81 TO-18 PD=360MW	28480	1854-0404
A1A1R1	2100-3587	1	RESISTOR-VAR CONTROL CP 2K 10% 10CW	28480	2100-3587
A1A1R2	2100-2452	3	RESISTOR-TRMR 25K 20% CCP TOP-ADJ 1-TRN	28480	2100-2452
A1A1R3	2100-2452		RESISTOR-TRMR 25K 20% CCP TOP-ADJ 1-TRN	28480	2100-2452
A1A1R4	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A1A1R5	0757-0420	1	RESISTOR 750 1% .125W F TC=0+-100	24546	C4-1/8-T0-751-F
A1A1R6	0757-0442	2	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A1R7	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A1R8	2100-2452		RESISTOR-TRMR 25K 20% CCP TOP-ADJ 1-TRN	28480	2100-2452
A1A1R9	0698-3444	3	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A1A1R10	0698-3161	2	RESISTOR 38.3K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3832-F
A1A1R11	0698-3161		RESISTOR 38.3K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3832-F
A1A1R12	2100-3647	1	RESISTOR-VAR CONTROL CP 5K 10% LIN	28480	2100-3647
A1A1R13	0698-3444		RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A1A1R14	0698-3444		RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A1A1R15	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A1A1S1- A1A1S28	5060-9436	28		28480	5060-9436
A1A1U1	1820-1730	2	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8273N
A1A1U2	1820-1730		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8273N
A1A1U3	1810-0203	2	NETWORK-RES 8-PIN-8IP .1-PIN-8PCG	11236	750-81-R470
A1A1U4	1810-0203		NETWORK-RES 8-PIN-8IP .1-PIN-8PCG	11236	750-81-R470
A1A1XD81- A1A1XD815 A1A1XD818	1200-0010 1200-0010	16	SOCKET-TUBE 2-CONT SOCKET-TUBE 2-CONT	28480 28480	1200-0010 1200-0010

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A2	85662-60100	1	BOARD ASSEMBLY, Z-AXIS AMPLIFIER	28480	85662-60054
A1A2C1	0180-0374	2	CAPACITOR-FXD 10UF+-10% 20VDC TA	56289	150D106X902082
A1A2C2	0180-0374		CAPACITOR-FXD 10UF+-10% 20VDC TA	56289	150D106X902082
A1A2C3	0160-3670	10	CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2C4	0160-4084	5	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A2C5	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A2C6	0160-2204	2	CAPACITOR-FXD 100PF +-5% 300VDC MICA	28480	0160-2204
A1A2C7	0160-2308	1	CAPACITOR-FXD 36PF +-5% 300VDC MICA	28480	0160-2308
A1A2C8	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2C9	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2C10	0121-0474	1	CAPACITOR-V TRMR-P8TN .3-1.5PF 600V	28480	0121-0474
A1A2C11	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2C12	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2C13	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2C14	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A2C15	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A2C16	0160-0269	1	CAPACITOR-FXD 1UF+-75-10% 150VDC AL	56289	30D10561508A2
A1A2C17	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A2C18	0160-2204		CAPACITOR-FXD 100PF +-5% 300VDC MICA	28480	0160-2204
A1A2C19	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2C20	0160-2238	1	CAPACITOR-FXD 1.5PF +-25PF 500VDC CER	28480	0160-2238
A1A2C21	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2C22	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2C23	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A2CR1	1901-0535	1	DIODE-SCHOTTKY	28480	1901-0535
A1A2CR2	1901-0096	2	DIODE-SWITCHING 120V 50MA 100NS	28480	1901-0096
A1A2CR3	1901-0028	4	DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A2CR4	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A2CR5	1901-0096		DIODE-SWITCHING 120V 50MA 100NS	28480	1901-0096
A1A2CR6	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A2CR7	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A2L1	9140-0210	3	COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A1A2L2	9140-0210		COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A1A2L3	9140-0210		COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A1A2Q1	1853-0232	2	TRANSISTOR PNP 8I TO-39 PD=1W FT=200MHZ	28480	1853-0232
A1A2Q2	1854-0419	2	TRANSISTOR NPN 8I TO-39 PD=1W FT=200MHZ	28480	1854-0419
A1A2Q3	1853-0232		TRANSISTOR PNP 8I TO-39 PD=1W FT=200MHZ	28480	1853-0232
A1A2Q4	1853-0007	4	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A2Q5	1854-0404	8	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A2Q6	1854-0419		TRANSISTOR NPN 8I TO-39 PD=1W FT=200MHZ	28480	1854-0419
A1A2Q7	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A2Q8	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A2Q9	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A2Q10	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A2Q11	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A2Q12	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A2Q13	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A2Q14	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A2Q15	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A2Q16	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A2R1	0757-0394	8	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A2R2	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A2R3	0757-0442	2	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A2R4	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A2R5	2100-3351	2	RESISTOR-TRMR 500 10% C SIDE=ADJ 1-TRN	28480	2100-3351
A1A2R6	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A2R7	0757-0200	2	RESISTOR 5.02K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5621-F
A1A2R8	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A1A2R9*	0698-3154	1	RESISTOR 4.22K 1% .125W F TC=0+-100 *FACTORY SELECTED PART	24546	C4-1/8-T0-4221-F
A1A2R10	0757-0441	1	RESISTOR 8.25K 1% .125W F TC=0+-100	24546	C4-1/8-T0-8251-F
A1A2R11	0698-0085	1	RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2611-F
A1A2R12	0757-0443	2	RESISTOR 11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1102-F
A1A2R13	0757-0280	5	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A1A2R14	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A1A2R15	0757-0346	1	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A2R16	0698-0084	3	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A1A2R17	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A1A2R18	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A1A2R19	0757-0421	2	RESISTOR 825 1% .125W F TC=0+-100	24546	C4-1/8-T0-825R-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A2R20	0757-0428	1	RESISTOR 1.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1621-F
A1A2R21	0757-0443	1	RESISTOR 11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1102-F
A1A2R22	2100-3207	1	RESISTOR-TRMR 5K 10% C SIDE-ADJ 1-TRN	28480	2100-3207
A1A2R23	0698-3152	2	RESISTOR 3.48K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3481-F
A1A2R24	0698-3416	2	RESISTOR 21.5K 1% .5W F TC=0+-100	28480	0698-3416
A1A2R25	0757-0841	2	RESISTOR 12.1K 1% .5W F TC=0+-100	28480	0757-0841
A1A2R26	0698-3151	2	RESISTOR 2.87K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2871-F
A1A2R27	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A2R28	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A2R29	0757-0819	2	RESISTOR 909 1% .5W F TC=0+-100	28480	0757-0819
A1A2R30	2100-3351	1	RESISTOR-TRMR 500 10% C SIDE-ADJ 1-TRN	28480	2100-3351
A1A2R31	2100-3353	1	RESISTOR-TRMR 20K 10% C SIDE-ADJ 1-TRN	32997	3386X-Y46-203
A1A2R32	2100-3355	1	RESISTOR-TRMR 100K 10% C SIDE-ADJ 1-TRN	28480	2100-3355
A1A2R33	0698-3158	1	RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A1A2R34	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A1A2R35	2100-3354	2	RESISTOR-TRMR 50K 10% C SIDE-ADJ 1-TRN	28480	2100-3354
A1A2R36	2100-3354	2	RESISTOR-TRMR 50K 10% C SIDE-ADJ 1-TRN	28480	2100-3354
A1A2R37	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A1A2R38	0698-3440	2	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A1A2R39	0757-0274	1	RESISTOR 1.21K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1213-F
A1A2R40	0698-3440	1	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A1A2R41	0757-0200	1	RESISTOR 5.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5621-F
A1A2R42	0757-0421	1	RESISTOR 825 1% .125W F TC=0+-100	24546	C4-1/8-T0-825R-F
A1A2R43	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A2R44	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A1A2R45	0698-3152	1	RESISTOR 3.48K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3481-F
A1A2R46	0698-3416	1	RESISTOR 21.5K 1% .5W F TC=0+-100	28480	0698-3416
A1A2R47	0757-0841	1	RESISTOR 12.1K 1% .5W F TC=0+-100	28480	0757-0841
A1A2R48	0698-3151	1	RESISTOR 2.87K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2871-F
A1A2R49	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A2R50	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A2R51	0757-0819	1	RESISTOR 909 1% .5W F TC=0+-100	28480	0757-0819
A1A2TP1	0360-0535	3	TERMINAL TEST POINT PCB	28480	0360-0535
A1A2TP2	0360-0535	3	TERMINAL TEST POINT PCB	28480	0360-0535
A1A2TP3	0360-0535	3	TERMINAL TEST POINT PCB	28480	0360-0535
A1A2VR1	1902-3333	1	DIODE-ZNR 46.4V 5% DO-7 PDS, 4W TC=+.081X	28480	1902-3333
A1A2VR2	1902-3357	1	DIODE-ZNR 56.2V 5% DO-7 PDS, 4W TC=+.081X	28480	1902-3357
A1A2VR3	1902-0049	1	DIODE-ZNR 6.19V 5% DO-7 PDS, 4W TC=+.022X	28480	1902-0049
			A1A2 MISCELLANEOUS		
	5000-9043	1	PIN,P.C. BOARD EXTRACTOR	28480	5000-9043
	5040-6843	1	EXTRACTOR, P.C. BOARD	28480	5040-6843

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A3	85662-60059	1	BOARD ASSEMBLY, HIGH VOLTAGE REGULATOR	28480	85662-60059
A1A3C1	0160-4148		CAPACITOR-FXD .033UF +-20% 6KVDC	56289	430P333060
A1A3C2	0160-2264		CAPACITOR-FXD 20PF +-5% 500VDC CER 0+-30	28480	0160-2264
A1A3C3	0160-4148		CAPACITOR-FXD .033UF +-20% 6KVDC	56289	430P333060
A1A3C4	0160-3960		CAPACITOR-FXD 1000PF +-20% 8KVDC	28480	0160-3960
A1A3C5	0160-3960		CAPACITOR-FXD 1000PF +-20% 8KVDC	28480	0160-3960
A1A3C6	0160-0678		CAPACITOR-FXD .01UF +-20% 6KVDC	28480	0160-0678
A1A3C7	0160-0678		CAPACITOR-FXD .01UF +-20% 6KVDC	28480	0160-0678
A1A3C8	0160-0543		CAPACITOR-FXD 4700PF +-20% 4KVDC	28480	0160-0543
A1A3C9	0160-2264		CAPACITOR-FXD 20PF +-5% 500VDC CER 0+-30	28480	0160-2264
A1A3C10	0160-0543		CAPACITOR-FXD 4700PF +-20% 4KVDC	28480	0160-0543
A1A3C11	0160-0543		CAPACITOR-FXD 4700PF +-20% 4KVDC	28480	0160-0543
A1A3C12	0160-3456		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A1A3C13	0160-0543		CAPACITOR-FXD 4700PF +-20% 4KVDC	28480	0160-0543
A1A3C14	0180-0269		CAPACITOR-FXD 1UF+75-10% 150VDC AL	56289	30D105G150BA2
A1A3CR1	1901-0028	1	DIODE-HV RECT 10KV SMA 250NS	28480	1901-0028
A1A3CR2	1901-0028	8	DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A3CR3	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A3CR4	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A3CR5	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A3CR6	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A3CR7	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A3CR8	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A3CR9	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A3R1	0684-1041	1	RESISTOR 100K 10% .25W FC TC=400/+800	01121	CB1041
A1A3R2	0687-3941	2	RESISTOR 390K 10% .5W CC TC=0+882	01121	EB3941
A1A3R3	0687-4721	1	RESISTOR 4.7K 10% .5W CC TC=0+647	01121	EB4721
A1A3R4	0698-8018	1	RESISTOR 30M 1% 3W C TC=0+100	03888	PVC175-3-T0-3004-F
A1A3R5	0684-1021	6	RESISTOR 1K 10% .25W FC TC=400/+600	01121	CB1021
A1A3R6	0684-1021		RESISTOR 1K 10% .25W FC TC=400/+600	01121	CB1021
A1A3R7	0686-1065	2	RESISTOR 10M 5% .5W CC TC=0+1059	01121	EB1065
A1A3R8	0684-1021		RESISTOR 1K 10% .25W FC TC=400/+600	01121	CB1021
A1A3R9	0684-1021		RESISTOR 1K 10% .25W FC TC=400/+600	01121	CB1021
A1A3R10	0684-1051	2	RESISTOR 1M 10% .25W FC TC=800/+900	01121	CB1051
A1A3R11	0687-2221	1	RESISTOR 2.2K 10% .5W CC TC=0+647	01121	EB2221
A1A3R12	0687-1001	1	RESISTOR 10 10% .5W CC TC=0+412	01121	EB1001
A1A3R13	0698-8992	1	RESISTOR 8M 2% 1W C TC=0+250	28480	0698-8992
A1A3R14	2100-3626	1	RESISTOR-TRMR 2M 20% C SIDE-ADJ 1-TRN	28480	2100-3626
A1A3R15	0698-8993	1	RESISTOR 14M 2% 1W C TC=0+250	28480	0698-8993
A1A3R16	0684-1011	1	RESISTOR 100 10% .25W FC TC=400/+500	01121	CB1011
A1A3R17	0687-3941		RESISTOR 390K 10% .5W CC TC=0+882	01121	EB3941
A1A3R18	0684-1031	1	RESISTOR 10K 10% .25W FC TC=400/+700	01121	CB1031
A1A3R19	0686-1065		RESISTOR 10M 5% .5W CC TC=0+1059	01121	EB1065
A1A3R20	0684-1021		RESISTOR 1K 10% .25W FC TC=400/+600	01121	CB1021
A1A3R21	0684-1021		RESISTOR 1K 10% .25W FC TC=400/+600	01121	CB1021
A1A3R22	0684-1051		RESISTOR 1M 10% .25W FC TC=800/+900	01121	CB1051
A1A3R23	0687-2231	1	RESISTOR 22K 10% .5W CC TC=0+765	01121	EB2231
A1A3R24	0687-6801	1	RESISTOR 68 10% .5W CC TC=0+412	01121	EB6801
A1A3T1	01332-61103	1	TRANSFORMER ASSEMBLY, HIGH VOLTAGE	28480	01332-61103
A1A3TP1	0360-0535	5	TERMINAL TEST POINT PCB	28480	0360-0535
A1A3TP2	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A1A3TP3	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A1A3TP4	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A1A3TP5	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A1A3V1	2140-0018	2	LAMP-GLOW A9A-C 90/58VDC 700UA T-2-BULB	00466	AGA-C
A1A3V2	2140-0018		LAMP-GLOW A9A-C 90/58VDC 700UA T-2-BULB	00466	AGA-C
A1A3VR1	1902-0182	1	DIODE-ZNR 20.5V 5% DO-7 PD=.4W TC=+.072%	28480	1902-0182
A1A3VR2	1902-0197	1	DIODE-ZNR 82.5V 5% DO-15 PD=1W TC=+.082%	28480	1902-0197

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A4	85662-60057	1	BOARD ASSEMBLY, X-DEFLECTION AMPLIFIER	28480	85662-60057
A1A4C1	0180-0374	2	CAPACITOR-FXD .10UF +-10% 20VDC TA	56289	150D106X902082
A1A4C2	0180-0374	2	CAPACITOR-FXD .10UF +-10% 20VDC TA	56289	150D106X902082
A1A4C3	0160-4084	6	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A4C4	0160-4084	6	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A4C5	0160-4084	6	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A4C6	0160-4084	3	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A4C7	0160-3670	3	CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A4C8	0160-4084	3	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A4C9	0160-3533	1	CAPACITOR-FXD 470PF +-5% 300VDC MICA	28480	0160-3533
A1A4C10	0121-0474	2	CAPACITOR-V TRMR-P8TN .3-1.5PF 600V	28480	0121-0474
A1A4C11	0121-0474	4	CAPACITOR-V TRMR-P8TN .3-1.5PF 600V	28480	0121-0474
A1A4C12	0160-2055	4	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A4C13	0160-2055	4	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A4C14	0160-2055	4	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A4C15	0160-2055	4	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A4C16	0160-3670	2	CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A4C17	0160-3670	2	CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A4C18	0160-4084	2	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A4CR1	1901-0040	2	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A1A4CR2	1901-0040	2	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A1A4E1	1251-0600	2	CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A1A4E2	1251-0600	2	CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A1A4L1	9140-0210	3	COIL-MLD 100UH 5% Q=50 .155DX.375LG-NOM	28480	9140-0210
A1A4L2	9140-0210	3	COIL-MLD 100UH 5% Q=50 .155DX.375LG-NOM	28480	9140-0210
A1A4L3	9140-0210	3	COIL-MLD 100UH 5% Q=50 .155DX.375LG-NOM	28480	9140-0210
A1A4Q1	1853-0232	2	TRANSISTOR PNP 8I TO-39 PD=1W FT=200MHZ	28480	1853-0232
A1A4Q2	1853-0523	2	TRANSISTOR NPN 8I TO-39 PD=1W FT=150MHZ	28480	1853-0523
A1A4Q3	1853-0523	2	TRANSISTOR NPN 8I TO-39 PD=1W FT=150MHZ	28480	1853-0523
A1A4Q4	1853-0232	2	TRANSISTOR PNP 8I TO-39 PD=1W FT=200MHZ	28480	1853-0232
A1A4Q5	1853-0007	7	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A4Q6	1853-0007	4	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A4Q7	1853-0404	4	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1853-0404
A1A4Q8	1853-0404	4	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1853-0404
A1A4Q9	1853-0007	4	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A4Q10	1853-0007	4	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A4Q11	1853-0007	4	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A4Q12	1853-0404	4	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1853-0404
A1A4Q13	1853-0404	4	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1853-0404
A1A4Q14	1853-0007	4	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A4Q15	1853-0007	4	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A4R1	0757-0438	3	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A1A4R2	0757-0394	3	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A1A4R3	0698-3150	2	RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2371-F
A1A4R4	0698-3150	2	RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2371-F
A1A4R5	0698-3155	2	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A1A4R6	0757-0394	4	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A1A4R7	2100-3353	1	RESISTOR-TRMR 20K 10% C 8IDE-ADJ 1-TRN	28480	2100-3353
A1A4R8	0757-0401	4	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A1A4R9	0757-0401	4	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A1A4R10	0757-0401	4	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A1A4R11	0757-0401	4	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A1A4R12	0757-0428	2	RESISTOR 1.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1621-F
A1A4R13	0757-0428	2	RESISTOR 1.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1621-F
A1A4R14	0757-0440	1	RESISTOR 7.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7501-F
A1A4R15	0757-0444	1	RESISTOR 12.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1212-F
A1A4R16	0698-0084	4	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A1A4R17	0698-0084	4	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A1A4R18	0698-0084	4	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A1A4R19	0698-0084	4	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A1A4R20	0698-3155	4	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A1A4R21	0757-1094	1	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A1A4R22	0757-0460	2	RESISTOR 61.9K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A1A4R23	0757-0460	2	RESISTOR 61.9K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A1A4R24	0698-3153	3	RESISTOR 3.83K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3831-F
A1A4R25	0698-3153	3	RESISTOR 3.83K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3831-F
A1A4R26	0757-0421	1	RESISTOR 825 1% .125W F TC=0+-100	24546	C4-1/8-T0-825W-F
A1A4R27	2100-3273	1	RESISTOR-TRMR 2K 10% C 8IDE-ADJ 1-TRN	28480	2100-3273
A1A4R28	2100-3352	1	RESISTOR-TRMR 1K 10% C 8IDE-ADJ 1-TRN	28480	2100-3352
A1A4R29	0698-3415	2	RESISTOR 19.6K 1% .5W F TC=0+-100	28480	0698-3415
A1A4R30	0698-3415	2	RESISTOR 19.6K 1% .5W F TC=0+-100	28480	0698-3415

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A4R31	0757-0439	2	RESISTOR 6.81K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6811-F
A1A4R32	0757-0439		RESISTOR 6.81K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6811-F
A1A4R33	0757-0438	2	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A1A4R34	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A1A4R35	0757-0851	4	RESISTOR 43.2K 1% .5W F TC=0+-100	28480	0757-0851
A1A4R36	0757-0851		RESISTOR 43.2K 1% .5W F TC=0+-100	28480	0757-0851
A1A4R37	0757-0346	4	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A4R38	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A4R39	0757-0346	4	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A4R40	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A4R41	0757-0873	2	RESISTOR 1.62K 1% .5W F TC=0+-100	28480	0757-0873
A1A4R42	0757-0873		RESISTOR 1.62K 1% .5W F TC=0+-100	28480	0757-0873
A1A4R43	0698-3153	3	RESISTOR 3.83K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3831-F
A1A4R44	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A4TP1	0360-0535	3	TERMINAL TEST POINT PCB	00000	ORDER BY DESCRIPTION
A1A4TP2	0360-0535		TERMINAL TEST POINT PCB	00000	ORDER BY DESCRIPTION
A1A4TP3	0360-0535		TERMINAL TEST POINT PCB	00000	ORDER BY DESCRIPTION
A1A4U1	1826-0021	1	IC OP AMP T0-99	27014	LM310M
			A1A6 MISCELLANEOUS PARTS		
	5000-9043	1	PIN/P.C. BOARD EXTRACTOR	28480	5000-9043
	5040-6843	1	EXTRACTOR, P.C. BOARD	28480	5040-6843

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A5	85662-60057	1	BOARD ASSEMBLY, Y-DEFLECTION AMPLIFIER	28480	85662-60057
A1A5C1	0180-0374	2	CAPACITOR-FXD 10UF +-10% 20VDC TA	56289	150D106X902082
A1A5C2	0180-0374		CAPACITOR-FXD 10UF +-10% 20VDC TA	56289	150D106X902082
A1A5C3	0160-4084	6	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A5C4	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A5C5	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A5C6	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A5C7	0160-3670	3	CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A5C8	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A5C9	0160-3533	1	CAPACITOR-FXD 470PF +-5% 300VDC MICA	28480	0160-3533
A1A5C10	0121-0474	2	CAPACITOR-V TRMR-PBTN .3-1.5PF 600V	28480	0121-0474
A1A5C11	0121-0474		CAPACITOR-V TRMR-PBTN .3-1.5PF 600V	28480	0121-0474
A1A5C12	0160-2055	4	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A5C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A5C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A5C15	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A5C16	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A5C17	0160-3670		CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A5C18	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A5CR1	1901-0040	2	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A1A5CR2	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A1A5E1	1251-0600	2	CONNECTOR-SGL CONT PIN 1.14-MM-BSC-8Z 8G	28480	1251-0600
A1A5E2	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-BSC-8Z 8G	28480	1251-0600
A1A5L1	9140-0210	3	COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A1A5L2	9140-0210		COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A1A5L3	9140-0210		COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A1A5Q1	1853-0232	2	TRANSISTOR PNP 8I TO-39 PD=1W FT=200MHZ	28480	1853-0232
A1A5Q2	1854-0523	2	TRANSISTOR NPN 8I TO-39 PD=1W FT=150MHZ	28480	1854-0523
A1A5Q3	1854-0523		TRANSISTOR NPN 8I TO-39 PD=1W FT=150MHZ	28480	1854-0523
A1A5Q4	1853-0232		TRANSISTOR PNP 8I TO-39 PD=1W FT=200MHZ	28480	1853-0232
A1A5Q5	1853-0007	7	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A5Q6	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A5Q7	1854-0404	4	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A5Q8	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A5Q9	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A5Q10	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A5Q11	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A5Q12	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A5Q13	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A5Q14	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A5Q15	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A1A5R1	0757-0438	3	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0=5111-F
A1A5R2	0757-0394	3	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0=5111-F
A1A5R3	0698-3150	2	RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2371-F
A1A5R4	0698-3150		RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2371-F
A1A5R5	0698-3155	2	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0=4641-F
A1A5R6	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0=5111-F
A1A5R7	2100-3353	1	RESISTOR-TRMR 20K 10% C SIDE-ADJ 1-TRN	32997	3386X-Y46-203
A1A5R8	0757-0401	4	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0=101-F
A1A5R9	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0=101-F
A1A5R10	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0=101-F
A1A5R11	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0=101-F
A1A5R12	0757-0428	2	RESISTOR 1.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1621-F
A1A5R13	0757-0428		RESISTOR 1.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1621-F
A1A5R14	0757-0440	1	RESISTOR 7.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0=7501-F
A1A5R15	0757-0444	1	RESISTOR 12.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1212-F
A1A5R16	0698-0084	4	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2151-F
A1A5R17	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2151-F
A1A5R18	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2151-F
A1A5R19	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2151-F
A1A5R20	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0=4641-F
A1A5R21	0757-1094	1	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A1A5R22	0757-0460	2	RESISTOR 61.9K 1% .125W F TC=0+-100	24546	C4-1/8-T0=6192-F
A1A5R23	0757-0460		RESISTOR 61.9K 1% .125W F TC=0+-100	24546	C4-1/8-T0=6192-F
A1A5R24	0698-3153	3	RESISTOR 3.83K 1% .125W F TC=0+-100	24546	C4-1/8-T0=3831-F
A1A5R25	0698-3153		RESISTOR 3.83K 1% .125W F TC=0+-100	24546	C4-1/8-T0=3831-F
A1A5R26	0757-0421	1	RESISTOR 825 1% .125W F TC=0+-100	24546	C4-1/8-T0=825R-F
A1A5R27	2100-3273	1	RESISTOR-TRMR 2K 10% C SIDE-ADJ 1-TRN	28480	2100-3273
A1A5R28	2100-3352	1	RESISTOR-TRMR 1K 10% C SIDE-ADJ 1-TRN	28480	2100-3352
A1A5R29	0698-3415	2	RESISTOR 19.6K 1% .5W F TC=0+-100	28480	0698-3415
A1A5R30	0698-3415		RESISTOR 19.6K 1% .5W F TC=0+-100	28480	0698-3415

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A5R31	0757-0439	2	RESISTOR 6.81K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6811-F
A1A5R32	0757-0439		RESISTOR 6.81K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6811-F
A1A5R33	0757-0439		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A1A5R34	0757-0439		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A1A5R35	0757-0851	2	RESISTOR 43.2K 1% .5W F TC=0+-100	28480	0757-0851
A1A5R36	0757-0851		RESISTOR 43.2K 1% .5W F TC=0+-100	28480	0757-0851
A1A5R37	0757-0346	4	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A5R38	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A5R39	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A5R40	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A5R41	0757-0873	2	RESISTOR 1.62K 1% .5W F TC=0+-100	28480	0757-0873
A1A5R42	0757-0873		RESISTOR 1.62K 1% .5W F TC=0+-100	28480	0757-0873
A1A5R43	0698-3153		RESISTOR 3.63K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3631-F
A1A5R44	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A1A5TP1	0360-0535	3	TERMINAL TEST POINT PCB	00000	ORDER BY DESCRIPTION
A1A5TP2	0360-0535		TERMINAL TEST POINT PCB	00000	ORDER BY DESCRIPTION
A1A5TP3	0360-0535		TERMINAL TEST POINT PCB	00000	ORDER BY DESCRIPTION
A1A5U1	1826-0021	1	IC OP AMP T0-99	27014	LM310H
			A1A5 MISCELLANEOUS PARTS		
	5000-9043	1	PIN:P.C. BOARD EXTRACTOR	28480	5000-9043
	5040-6843	1	EXTRACTOR, P.C. BOARD	28480	5040-6843

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A6	85662-60053	1	BOARD ASSEMBLY, +/-15V REGULATOR	28480	85662-60053
A1A6C1	0180-2205	1	CAPACITOR-FXD .33UF+-10% 35VDC TA	56289	150D334X9035A2
A1A6C2	0180-0116	1	CAPACITOR-FXD .8UF+-10% 35VDC TA	56289	150D685X9035B2
A1A6C3	0160-2199	2	CAPACITOR-FXD 30PF +-5% 300VDC MICA	28480	0160-2199
A1A6C4	0180-1746	3	CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X9020B2
A1A6C5	0180-0228	1	CAPACITOR-FXD 22UF+-10% 15VDC TA	56289	150D225X9015B2
A1A6C6	0180-1746	1	CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X9020B2
A1A6C7	0180-0197	1	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A1A6C8	0160-3456	1	CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A1A6C9	0160-2199	1	CAPACITOR-FXD 30PF +-5% 300VDC MICA	28480	0160-2199
A1A6C10	0180-0291	1	CAPACITOR-FXD 1UF+-10% 35VDC TA	56289	150D105X9035A2
A1A6C11	0180-1746	1	CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X9020B2
A1A6C12	0180-0141	1	CAPACITOR-FXD 50UF+75-10% 50VDC AL	56289	30D506G0500D2
A1A6C13	0160-0164	1	CAPACITOR-FXD .039UF +-10% 200VDC POLYE	28480	0160-0164
A1A6C14	0160-4084	3	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A6C15	0160-0166	1	CAPACITOR-FXD .068UF +-10% 200VDC POLYE	28480	0160-0166
A1A6C16	0160-4084	1	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A6C17	0160-4084	1	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A6CR1			NOT ASSIGNED		
A1A6CR2	1901-0033	5	DIODE-GEN PRP 180V 200MA DO-7	28480	1901-0033
A1A6CR3	1902-3224	2	DIODE-ZNR 17.8V 5% DO-7 PD=.4W TC=+.067X	28480	1902-3224
A1A6CR4	1884-0018	2	THYRISTOR-SCR 2N4186 VRRM=200	04713	2N4186
A1A6CR5			NOT ASSIGNED		
A1A6CR6	1901-0033	1	DIODE-GEN PRP 180V 200MA DO-7	28480	1901-0033
A1A6CR7	1902-3224	1	DIODE-ZNR 17.8V 5% DO-7 PD=.4W TC=+.067X	28480	1902-3224
A1A6CR8	1901-0033	1	DIODE-GEN PRP 180V 200MA DO-7	28480	1901-0033
A1A6CR9	1884-0018	1	THYRISTOR-SCR 2N4186 VRRM=200	04713	2N4186
A1A6CR10	1901-0033	1	DIODE-GEN PRP 180V 200MA DO-7	28480	1901-0033
A1A6CR11	1901-0200	1	DIODE-PWR RECT 100V 1.5A	28480	1901-0200
A1A6CR12			NOT ASSIGNED		
A1A6CR13	1901-0028	2	DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A6CR14	1901-0028	1	DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A1A6CR15	1901-0040	2	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A1A6CR16	1901-0040	1	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A1A6CR17	1902-0556	1	DIODE-ZNR 20V 5% DO-15 PD=1W TC=+.073X	28480	1902-0556
A1A6CR18	1901-0033	1	DIODE-GEN PRP 180V 200MA DO-7	28480	1901-0033
A1A6DB1	1990-0487	2	LED-VISIBLE LUM-INTRIMCD IF=20MA-MAX	28480	5082-4584
A1A6DB2	1990-0487	2	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A1A6F1	2110-0083	1	FUSE 2.5A 250V FAST-BLO 1.25X.25 UL IEC	28480	2110-0083
A1A6F2	2110-0002	1	FUSE 2A 250V FAST-BLO 1.25X.25 UL IEC	75915	312002
A1A6F3	2110-0007	1	FUSE 1A 250V BLO-BLO 1.25X.25 UL IEC	75915	313001
A1A6L1	9140-0171	1	COIL-MLD 40UH 10% Q=20 .296DX.968LG-NOM	28480	9140-0171
A1A6L2	9100-1641	1	COIL-MLD 240UH 5% Q=65 .155DX.375LG-NOM	28480	9100-1641
A1A6Q1	1853-0281	3	TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A1A6Q2	1853-0281	1	TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A1A6Q3	1854-0477	2	TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A1A6Q4	1854-0019	2	TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A1A6Q5	1854-0611	2	TRANSISTOR NPN 2N6055 SI DART TO-3	04713	2N6055
A1A6Q6	1854-0019	1	TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A1A6Q7	1854-0518	1	TRANSISTOR NPN 2N5877 SI TO-3 PD=150W	04713	2N5877
A1A6Q8	1854-0477	1	TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A1A6Q9	1854-0611	1	TRANSISTOR NPN 2N6055 SI DART TO-3	04713	2N6055
A1A6Q10	1853-0281	1	TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A1A6R1	0757-0442	7	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4=1/8-T0=1002-F
A1A6R2	0698-3440	1	RESISTOR 196 1% .125W F TC=0+-100	24546	C4=1/8-T0=196R-F
A1A6R3	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4=1/8-T0=51R1-F
A1A6R4	0698-3150	1	RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4=1/8-T0=2371-F
A1A6R5	0698-3442	1	RESISTOR 237 1% .125W F TC=0+-100	24546	C4=1/8-T0=237R-F
A1A6R6	0757-1094	2	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4=1/8-T0=1471-F
A1A6R7	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4=1/8-T0=1002-F
A1A6R8	0698-3247	1	RESISTOR 4.93K .25% .125W F TC=0+-50	28480	0698-3247
A1A6R9	2100-3095	1	RESISTOR-TMR 200 10% C BIDE-ADJ 17-TRN	02111	43P201
A1A6R10	0698-6835	1	RESISTOR 3.16K .5% .125W F TC=0+-50	24546	NC55-1/8-T2-3161-D
A1A6R11	0811-1669	2	RESISTOR 1.8 5% 2W PW TC=0+-400	75042	BWH2-1R6-J
A1A6R12	0757-0280	2	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4=1/8-T0=1001-F
A1A6R13	0757-0424	1	RESISTOR 1.1K 1% .125W F TC=0+-100	24546	C4=1/8-T0=1101-F
A1A6R14	0683-0275	2	RESISTOR 2.7 5% .25W FC TC=400+-500	01121	C827G5
A1A6R15	0698-3444	2	RESISTOR 316 1% .125W F TC=0+-100	24546	C4=1/8-T0=316R-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A6R16	0757-0346	2	RESISTOR 10 1X .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A6R17	0757-0317	2	RESISTOR 1.33K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1331-F
A1A6R18	0811-1669		RESISTOR 1.8 5X 2W PW TC=0+-400	75042	BWH2-1R8=J
A1A6R19	0698-7794	2	RESISTOR 10K .25X .125W F TC=0+-100	19701	MF4C1/8-T0-1002-C
A1A6R20	0698-7794		RESISTOR 10K .25X .125W F TC=0+-100	19701	MF4C1/8-T0-1002-C
A1A6R21	0698-3444		RESISTOR 316 1X .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A1A6R22	0757-0418	2	RESISTOR 619 1X .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A1A6R23	0757-0346		RESISTOR 10 1X .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A1A6R24	0683-0276	1	RESISTOR 61.9 1X .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A1A6R25	0757-0418		RESISTOR 619 1X .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A1A6R26	0757-0442		RESISTOR 10K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A6R27	0757-0317		RESISTOR 1.33K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1331-F
A1A6R28	0811-1661	1	RESISTOR .39 5X 2W PW TC=0+-800	75042	BWH2-39/100-J
A1A6R29	0683-0275		RESISTOR 2.7 5X .25W FC TC=-400/+500	01121	CB2705
A1A6R30	0757-0280		RESISTOR 1K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A1A6R31	0698-3453	1	RESISTOR 196K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1963-F
A1A6R32	2100-3094	1	RESISTOR-TRMR 100K 10X C 8IDE=ADJ 17-TRN	02111	43P104
A1A6R33	0757-0465	2	RESISTOR 100K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A1A6R34	0757-0465		RESISTOR 100K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A1A6R35	0683-2265	1	RESISTOR 22K 5X .25W FC TC=-900/+1200	01121	CB2265
A1A6R36	0698-3459	1	RESISTOR 383K 1X .125W F TC=0+-100	26480	0698-3459
A1A6R37	0757-0403	1	RESISTOR 121 1X .125W F TC=0+-100	24546	C4-1/8-T0-121R-F
A1A6R38	0698-3446	2	RESISTOR 383 1X .125W F TC=0+-100	24546	C4-1/8-T0-383R-F
A1A6R39	0757-0442		RESISTOR 10K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A6R40	0757-0442		RESISTOR 10K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A6R41	0698-3446		RESISTOR 383 1X .125W F TC=0+-100	24546	C4-1/8-T0-383R-F
A1A6R42	0757-0290	2	RESISTOR 6.19K 1X .125W F TC=0+-100	19701	MF4C1/8-T0-6191-F
A1A6R43	0698-4405	1	RESISTOR 107 1X .125W F TC=0+-100	24546	C4-1/8-T0-107R-F
A1A6R44	0757-1094		RESISTOR 1.47K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A1A6R45	0757-0290		RESISTOR 6.19K 1X .125W F TC=0+-100	19701	MF4C1/8-T0-6191-F
A1A6R46	0837-0126	1	THERMISTOR DISC 1K=0HM TC=-4.4X/C=DEG	26480	0837-0126
A1A6R47			NOT ASSIGNED		
A1A6R48	0698-3154	1	RESISTOR 4.22K 1X .125W F TC=0+-100	24546	C4-1/8-T0-4221-F
A1A6R49	0757-0816	1	RESISTOR 681 1X .5W F TC=0+-100	26480	0757-0816
A1A6R50	0757-0482	1	RESISTOR 511K 1X .125W F TC=0+-100	26480	0757-0482
A1A6R51	0757-0442		RESISTOR 10K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A6R52	0757-0442		RESISTOR 10K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A6TP1	1251-0600	7	CONNECTOR=8GL CONT PIN 1.14-MM=88C-8Z 80	26480	1251-0600
A1A6TP2	1251-0600		CONNECTOR=8GL CONT PIN 1.14-MM=88C-8Z 80	26480	1251-0600
A1A6TP3	1251-0600		CONNECTOR=8GL CONT PIN 1.14-MM=88C-8Z 80	26480	1251-0600
A1A6TP4	1251-0600		CONNECTOR=8GL CONT PIN 1.14-MM=88C-8Z 80	26480	1251-0600
A1A6TP5	1251-0600		CONNECTOR=8GL CONT PIN 1.14-MM=88C-8Z 80	26480	1251-0600
A1A6TP6	1251-0600		CONNECTOR=8GL CONT PIN 1.14-MM=88C-8Z 80	26480	1251-0600
A1A6TP7	1251-0600		CONNECTOR=8GL CONT PIN 1.14-MM=88C-8Z 80	26480	1251-0600
A1A6U1	1820-0223	2	IC 301 OP AMP T0-99	18324	LM301A
A1A6U2	1820-0223		IC 301 OP AMP T0-99	18324	LM301A
A1A6U3	1826-0167	1	IC OP AMP T0-99	01928	CA3096AT
A1A6U4	1826-0026	1	IC 311 COMPARATOR T0-99	04713	MLM3116
A1A6VR1	1902-0686	1	DIODE-ZNR 1N625 6.2V 2X DO-7 PD=.4W	04713	1N625
A1A6VR2	1902-0554	1	DIODE-ZNR 10V 5X DO-15 PD=1W TC=+.06X	26480	1902-0554
			A1A6 MISCELLANEOUS PARTS		
	4040-0754	1	EXTRACTOR=PC BOARD BLU POLYC	26480	4040-0754
	1480-0073	1	PIN-ROLL .062-IN-DIA .25-IN-LG	26480	1480-0073

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A7	85662-60052	1	BOARD ASSEMBLY, +100V+5.2V REGULATOR	28480	85662-60052
A1A7C1	0180-0197	2	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A1A7C2	0160-3670	1	CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A1A7C3	0160-2199	2	CAPACITOR-FXD 30PF +-5% 300VDC MICA	28480	0160-2199
A1A7C4	0180-0228	2	CAPACITOR-FXD 22UF+-10% 15VDC TA	56289	150D226X9015B2
A1A7C5	0160-2199	2	CAPACITOR-FXD 30PF +-5% 300VDC MICA	28480	0160-2199
A1A7C6	0180-0291	1	CAPACITOR-FXD 1UF+-10% 35VDC TA	56289	150D105X9035A2
A1A7C7	0180-0228	1	CAPACITOR-FXD 22UF+-10% 15VDC TA	56289	150D226X9015B2
A1A7C8	0180-0197	1	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A1A7C9	0160-3449	1	CAPACITOR-FXD 2000PF +-10% 250VDC CER	28480	0160-3449
A1A7C10	0160-4084	1	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A1A7CR1	1901-0050	2	DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A1A7CR2	1901-0050	2	DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A1A7CR3	1901-0033	2	DIODE-GEN PRP 180V 200MA DO-7	28480	1901-0033
A1A7CR4	1902-0513	1	DIODE-ZNR 82.5V 2% DO-15 PD=1W TC=+.082X	28480	1902-0513
A1A7CR5	1902-3256	1	DIODE-ZNR 23.7V 5% DO-7 PD=.4W TC=+.076X	28480	1902-3256
A1A7CR6	1901-0033	1	DIODE-GEN PRP 180V 200MA DO-7	28480	1901-0033
A1A7CR7	1902-0049	1	DIODE-ZNR 6.19V 5% DO-7 PD=.4W TC=+.022X	28480	1902-0049
A1A7CR8	1884-0018	1	THYRISTOR-SCR 2N4186 VRRM=200	04713	2N4186
A1A7CR9	1901-0200	1	DIODE-PWR RECT 100V 1.5A	28480	1901-0200
A1A7D81	1990-0487	2	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A1A7D82	1990-0487	2	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A1A7F1	2110-0010	1	FUSE 5A 250V FA8T-BLO 1.25X.25 UL IEC	75915	312005
A1A7F2	2110-0004	1	FUSE .25A 250V FA8T-BLO 1.25X.25 UL IEC	28480	2110-0004
A1A7L1	9100-1641	1	COIL=MLD 240UH 5% Q=65 .155DX.375LG-NOM	28480	9100-1641
A1A7Q1	1854-0404	2	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A7Q2	1854-0404	2	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A1A7Q3	1854-0019	2	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A1A7Q4	1854-0523	1	TRANSISTOR NPN 8I TO-39 PD=1W FT=150MHZ	28480	1854-0523
A1A7Q5	1854-0019	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A1A7Q6	1854-0618	1	TRANSISTOR NPN 8I DARL TO-3 PD=150W	04713	MJ3000
A1A7Q7	1853-0414	1	TRANSISTOR PNP 2N6423 8I TO-66 PD=35W	28480	1853-0414
A1A7Q8	1854-0311	1	TRANSISTOR NPN 2N4240 8I TO-66 PD=35W	01928	2N4240
A1A7R1	0757-0466	1	RESISTOR 110K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1103-F
A1A7R2	0757-0442	5	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A7R3	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A7R4	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A7R5	0698-3440	2	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A1A7R6	0698-3440	2	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A1A7R7	0757-0317	2	RESISTOR 1.33K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1331-F
A1A7R8	0757-0438	2	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A1A7R9	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A7R10	0698-7794	1	RESISTOR 10K .25% .125W F TC=0+-100	19701	MF4C1/8-T0-1002-C
A1A7R11	0698-8417	1	RESISTOR 5.3K .25% .125W F TC=0+-50	19701	MF4C1/8-T2-5301-C
A1A7R12	0757-0418	2	RESISTOR 619 1% .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A1A7R13	0757-0276	1	RESISTOR 61.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A1A7R14	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A1A7R15	0757-0274	1	RESISTOR 1.21K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1213-F
A1A7R16	0698-3427	2	RESISTOR 13.3 1% .125W F TC=0+-100	03888	PME55-1/8-T0-13R3-F
A1A7R17	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A1A7R18	0812-0066	2	RESISTOR 33 5% 2W PW TC=0+-800	75042	BWH2-33/100-J
A1A7R19	0698-3444	1	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A1A7R20	0683-0275	1	RESISTOR 2.7 5% .25W FC TC=400/+500	01121	CB27G5
A1A7R21	0698-0085	1	RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2611-F
A1A7R22	0698-3453	1	RESISTOR 196K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1963-F
A1A7R23	0757-0464	1	RESISTOR 90.9K 1% .125W F TC=0+-100	24546	C4-1/8-T0-9092-F
A1A7R24	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A7R25	0698-3427	1	RESISTOR 13.3 1% .125W F TC=0+-100	03888	PME55-1/8-T0-13R3-F
A1A7R26	0757-0444	1	RESISTOR 12.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1212-F
A1A7R27	0757-0418	1	RESISTOR 619 1% .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A1A7R28	0757-0317	1	RESISTOR 1.33K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1331-F
A1A7R29	0812-0066	1	RESISTOR 33 5% 2W PW TC=0+-800	75042	BWH2-33/100-J
A1A7TP1	1251-0600	4	CONNECTOR-8GL CONT PIN 1.14-MM-B8C-SZ 8G	28480	1251-0600
A1A7TP2	1251-0600	4	CONNECTOR-8GL CONT PIN 1.14-MM-B8C-SZ 8G	28480	1251-0600
A1A7TP3	1251-0600	4	CONNECTOR-8GL CONT PIN 1.14-MM-B8C-SZ 8G	28480	1251-0600
A1A7TP4	1251-0600	4	CONNECTOR-8GL CONT PIN 1.14-MM-B8C-SZ 8G	28480	1251-0600
A1A7U1	1820-0223	2	IC 301 OP AMP TO-99	18324	LM301A
A1A7U2	1820-0223	2	IC 301 OP AMP TO-99	18324	LM301A
			A1A7 MISCELLANEOUS PARTS		
	4040-0755	1	EXTRACTOR-PC BOARD VIOLET POLYC	28480	4040-0755
	1480-0073	1	PIN-ROLL .062-IN-DIA .25-IN-LG	28480	1480-0073

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A8	85662-60051	1	BOARD ASSEMBLY, RECTIFIER	28480	85662-60051
A1A8C1	0160-2055	2	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A8C2	0160-4298	1	CAPACITOR-FXD 4700PF +-20% 250VDC CER	56289	C067F251H472M822-COM
A1A8C3	0160-2055	1	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A1A8C4	0160-0168	2	CAPACITOR-FXD .1UF +-10% 200VDC POLYE	28480	0160-0168
A1A8C5	0160-0168	1	CAPACITOR-FXD .1UF +-10% 200VDC POLYE	28480	0160-0168
A1A8C6	0160-0970	1	CAPACITOR-FXD .47UF +-10% 80VDC POLYE	28480	0160-0970
A1A8C7	0180-0197	1	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A1A8CR1	1901-0662	10	DIODE-PWR RECT 100V 6A	04713	MR751
A1A8CR2	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A1A8CR3	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A1A8CR4	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A1A8CR5	1884-0018	1	THYRISTOR-SCR 2N4186 VRRM=200	04713	2N4186
A1A8CR6	1902-0656	1	DIODE-ZNR 39.2V 5% DO-15 PD=1W TC=+.061X	28480	1902-0656
A1A8CR7	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A1A8CR8	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A1A8CR9	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A1A8CR10	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A1A8CR11	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A1A8CR12	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A1A8D81	1990-0486	1	LED-VISIBLE LUM=INT=1MCD IF=20MA-MAX	28480	5082-4684
A1A8R1	0757-0420	1	RESISTOR 750 1% .125W F TC=0+-100	24546	C4-1/8-T0-751-F
A1A8R2	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A1A8R3	0698-0085	1	RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2611-F
A1A8R4	0698-3152	1	RESISTOR 3.48K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3481-F
A1A8R5	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A1A8R6	0757-0367	1	RESISTOR 100K 1% .5W F TC=0+-100	28480	0757-0367
A1A8R7	0698-3407	1	RESISTOR 1.96K 1% .5W F TC=0+-100	28480	0698-3407
A1A8R8	0698-3447	1	RESISTOR 422 1% .125W F TC=0+-100	24546	C4-1/8-T0-422R-F
A1A8TP1	0360-1788	2	CONNECTOR-SGL CONT PIN .045-IN-B8C-8Z 8Q	28480	0360-1788
A1A8TP2	0360-1788	2	CONNECTOR-SGL CONT PIN .045-IN-B8C-8Z 8Q	28480	0360-1788
A1A8U1	1901-0367	1	DIODE-FW BRDG 600V 1A	28480	1901-0367
			A1A8 MISCELLANEOUS PARTS		
	4040-0747	1	EXTRACTOR-PC BOARD GRAY POLYC	28480	4040-0747
	1480-0073	1	PIN-ROLL .062-IN-DIA .25-IN-LG	28480	1480-0073

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A9	85662-60056	1	BOARD ASSEMBLY, BUS TRANSITION(INCL W5)	28480	85662-60056
A1A9CR1	1901-0033	2	DIODE-GEN PRP 180V 200MA DO-7	28480	1901-0033
A1A9CR2	1901-0033		DIODE-GEN PRP 180V 200MA DO-7	28480	1901-0033
A1A9E1	1251-0600	2	CONTACT-CONN U/W-POST-TYPE MALE	28480	1251-0600
A1A9E2	1251-0600		CONTACT-CONN U/W-POST-TYPE MALE	28480	1251-0600
A1A9J1	1251-4432	1	CONNECTOR 50-PIN M POST TYPE	0136J	2-87230-5
A1A9J2	1251-4432	1	CONNECTOR 50-PIN F D SUBMIN	28480	1251-4432
A1A9K1	0490-0618	1	RELAY 2C 24VDC-COIL 5A 115VAC	28480	0490-0618
A1A9Q1	1854-0477	2	TRANSISTOR NPN 2N2222A 8I TO-18 PD=500MW	02230	2N2222A
A1A9Q2	1854-0477		TRANSISTOR NPN 2N2222A 8I TO-18 PD=500MW	02230	2N2222A
A1A9R1	0698-3157	1	RESISTOR 19.0K 1% .125W F TC=0+-100	0329B	C4.1/8-T0-1962-F
A1A9R2	0757-0442	2	RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4.1/8-T0-1002-F
A1A9R3	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4.1/8-T0-1002-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1A10	85662-60050	1	BOARD ASSEMBLY, DISPLAY MOTHER BOARD (INCLUDES W3)	28480 28480	85662-60050 0
A1A10C1	0180-2808	1	CAPACITOR-FXD .022F+-20% 20VDC AL	28480	0180-2808
A1A10C2	0180-2642	1	CAPACITOR-FXD 250UF+50-10% 250VDC AL	56289	360X251F250AA2A
A1A10C3	0180-2641	1	CAPACITOR-FXD .018F+75-10% 40VDC AL	00853	500183U040EC2A
A1A10C4	0180-0453	1	CAPACITOR-FXD 8700UF+75-10% 40VDC AL	28480	0180-0453
A1A10E1	0360-1788	8	TERMINAL-STUD SINGLE CONTACT	28480	0360-1788
A1A10E3	1200-0508	2	SOCKET-IC 14-CONT DIP-8LDR	28480	1200-0508
A1A10J1	1200-0508	2	SOCKET-IC 14-CONT DIP-8LDR	28480	1200-0508
A1A10J2	1251-4798	1	CONNECTOR 6-PIN M POST TYPE	28480	1251-4798
A1A10J3	1251-4804	3	CONNECTOR 4-PIN M POST TYPE	28480	1251-4804
A1A10J4	1251-4804	3	CONNECTOR 4-PIN M POST TYPE	28480	1251-4804
A1A10J5	1251-4804	3	CONNECTOR 4-PIN M POST TYPE	28480	1251-4804
A1A10J6	1251-3195	1	CONNECTOR 4-PIN M POST TYPE	28480	1251-3195
A1A10J7	1251-4281	1	CONNECTOR 9-PIN M POST TYPE	28480	1251-4281
A1A10J8	1251-4990	1	CONNECTOR 2-PIN M POST TYPE	28480	1251-4990
A1A10J9	1251-4804	1	CONNECTOR 4-PIN M POST TYPE	28480	1251-4804
A1A10R1	0757-0367	1	RESISTOR-100K 1/8 .5W F TC=+-100	28480	0757-0367
A1A10W1	8150-2829	1.4FT	WIRE-18 GAUGE BLACK	28480	8150-2829
A1A10W2	8150-3246	1.4FT	WIRE-18 GAUGE WHITE/RED	28480	8150-3246
A1XA2	1251-2035	4	CONNECTOR-PC EDGE 15-CONT/ROW 2-ROWS	28480	1251-2035
A1XA3	1251-2034	1	CONNECTOR-PC EDGE 10-CONT/ROW 2-ROWS	28480	1251-2034
A1XA4	1251-2035	1	CONNECTOR-PC EDGE 15-CONT/ROW 2-ROWS	28480	1251-2035
A1XA5	1251-2035	1	CONNECTOR-PC EDGE 15-CONT/ROW 2-ROWS	28480	1251-2035
A1XA6	1251-2026	2	CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A1XA7	1251-2035	1	CONNECTOR-PC EDGE 15-CONT/ROW 2-ROWS	28480	1251-2035
A1XA8	1251-2026	1	CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A1A11	0960-0383	1	MULTIPLIER-HV 20KV	28480	0960-0383

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A1	85662-60014	1	BOARD ASSEMBLY, TRIGGER	28480	85662-60014
A3A1C1	0160-0174	3	CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A3A1C2	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A3A1C3	0160-2252	1	CAPACITOR-FXD 0.2PF +- .25PF 500VDC CER	28480	0160-2252
A3A1C4	0140-0233	1	CAPACITOR-FXD 480PF +-1% 300VDC MICA	72136	DM15F481F0300HV1C
A3A1C5	0160-4314	1	CAPACITOR-FXD .05UF +-1% 200VDC	28480	0160-4314
A3A1C6	0160-2307	1	CAPACITOR-FXD 47PF +-5% 300VDC MICA	28480	0160-2307
A3A1C7	0160-0155	1	CAPACITOR-FXD 3300PF +-10% 200VDC POLYE	28480	0160-0155
A3A1C8	0160-4084	2	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A1C9	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A1C10			NOT ASSIGNED		
A3A1C11	0160-3456	1	CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A3A1C12	0180-0197	7	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A3A1C13			NOT ASSIGNED		
A3A1C14	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A3A1C15	0180-0374	1	CAPACITOR-FXD 10UF+-10% 20VDC TA	56289	150D106X9020B2
A3A1C16	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A3A1C17	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A3A1C18	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A3A1C19	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A3A1C20	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A3A1C21			NOT ASSIGNED		
A3A1C22			NOT ASSIGNED		
A3A1C23	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A3A1C24			NOT ASSIGNED		
A3A1C25			NOT ASSIGNED		
A3A1C26			NOT ASSIGNED		
A3A1C27	0160-2055	3	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A1C28	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A1C29	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A1CR1	1901-0535	4	DIODE-8CHOTTKY	28480	1901-0535
A3A1CR2	1901-0535		DIODE-8CHOTTKY	28480	1901-0535
A3A1CR3	1901-0535		DIODE-8CHOTTKY	28480	1901-0535
A3A1CR4	1901-0535		DIODE-8CHOTTKY	28480	1901-0535
A3A1CR5	1901-0040	1	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A1CR6	1901-0179	1	DIODE-SWITCHING 15V 50MA 750PS DO-7	28480	1901-0179
A3A1L1	9140-0114	3	COIL-MLD 10UH 10% Q=55 .155DX,375LG-NOM	28480	9140-0114
A3A1L2	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG-NOM	28480	9140-0114
A3A1L3	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG-NOM	28480	9140-0114
A3A1R1	1854-0404	6	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A1R2	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A1R3	1853-0281	2	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	04713	2N2907A
A3A1R4	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A1R5	1853-0281		TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	04713	2N2907A
A3A1R6	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A1R7	1853-0020	3	TRANSISTOR J-FET N-CHAN D-MODE TO-18 8I	28480	1853-0020
A3A1R8	1853-0020		TRANSISTOR J-FET N-CHAN D-MODE TO-18 8I	28480	1853-0020
A3A1R9	1853-0020		TRANSISTOR J-FET N-CHAN D-MODE TO-18 8I	28480	1853-0020
A3A1R10	1853-0034	1	TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A3A1R11	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A1R12	1854-0546	1	TRANSISTOR NPN 8I TO-72 PD=200MW	28480	1854-0546
A3A1R13	1853-0451	1	TRANSISTOR PNP 2N3799 8I TO-18 PD=360MW	01295	2N3799
A3A1R14	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A1R15	1854-0039	1	TRANSISTOR NPN 2N3053 8I TO-39 PD=1W	04713	2N3053
A3A1R1	0698-6863	1	RESISTOR 1.537K .25% .125W F TC=0+-50	28480	0698-6863
A3A1R2	0698-6867	1	RESISTOR 7.35K .25% .125W F TC=0+-50	28480	0698-6867
A3A1R3	0698-7794	1	RESISTOR 10K .25% .125W F TC=0+-100	19701	MF4C1/8-T0-1002-C
A3A1R4	0757-0279	10	RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R5	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R6	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R7	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R8	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R9	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R10	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R11	0698-5573	1	RESISTOR 50K .5% .125W F TC=0+-100	24546	C4-1/8-T0-5002-D
A3A1R12	0698-8014	1	RESISTOR 22.3K .5% .125W F TC=0+-50	19701	MF4C1/8-T0-2232-D
A3A1R13	0698-6840	1	RESISTOR 4.07K .5% .125W F TC=0+-50	24546	NC55-1/8-T0-4071-F
A3A1R14	0698-6217	1	RESISTOR 200K .5% .125W F TC=0+-100	28480	0698-6217
A3A1R15	0757-0416	4	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A3A1R16	0757-0280	11	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R17	0698-0083	2	RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A3A1R18	0698-3440	2	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A3A1R19	0757-0443	1	RESISTOR 11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1102-F
A3A1R20	0757-1094	2	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A1R21	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R22	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R23	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R24	0757-0465	1	RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A3A1R25	0757-0444	1	RESISTOR 12.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1212-F
A3A1R26	0698-3156	4	RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1472-F
A3A1R27	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R28	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A3A1R29	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R30	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R31	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A3A1R32	0698-3156		RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1472-F
A3A1R33	0698-3440		RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A3A1R34	2100-1972	1	RESISTOR-TRMR 20K 10% HW SIDE-ADJ 20-TRN	02660	3810P-203
A3A1R35	0698-3156		RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1472-F
A3A1R36	0698-3441	1	RESISTOR 215 1% .125W F TC=0+-100	24546	C4-1/8-T0-215R-F
A3A1R37	0698-3445	1	RESISTOR 348 1% .125W F TC=0+-100	24546	C4-1/8-T0-348R-F
A3A1R38			NOT ASSIGNED		
A3A1R39			NOT ASSIGNED		
A3A1R40	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R41	0698-3156		RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1472-F
A3A1R42	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A3A1R43	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A3A1R44			NOT ASSIGNED		
A3A1R45	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R46	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A3A1R47	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A3A1R48	0757-0442	3	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A1R49	0757-0289	1	RESISTOR 13.3K 1% .125W F TC=0+-100	19701	MP4C1/8-T0-1332-F
A3A1R50	0683-1955	1	RESISTOR 1.5M 5% .25W FC TC=900/+1100	01121	CB1955
A3A1R51	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A1R52	0698-3260	1	RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A3A1R53	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A1R54	0757-0346	3	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A3A1R55	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A3A1R56	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A3A1R57			NOT ASSIGNED		
A3A1R58	0698-3160	2	RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A3A1R59	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R60	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R61	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R62	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A3A1R63			NOT ASSIGNED		
A3A1R64			NOT ASSIGNED		
A3A1R65	0698-0085	1	RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2611-F
A3A1R66	0698-3154	1	RESISTOR 4.22K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4221-F
A3A1R67	0757-0290	1	RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-6191-F
A3A1R68	0698-3160		RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A3A1R69	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A1R70			NOT ASSIGNED		
A3A1R71	0698-3447	1	RESISTOR 422 1% .125W F TC=0+-100	24546	C4-1/8-T0-422R-F
A3A1R72	0698-3450	1	RESISTOR 42.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4222-F
A3A1TP1	1251-0600	5	CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 80	28480	1251-0600
A3A1TP2	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 80	28480	1251-0600
A3A1TP3	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 80	28480	1251-0600
A3A1TP4	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 80	28480	1251-0600
A3A1TP5	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 80	28480	1251-0600
A3A1U1	1820-1423	2	IC MV TTL LS MONOSTBL RETRIG DUAL	01295	8N74L8123N
A3A1U2	1820-1417	1	IC GATE TTL LS NAND QUAD 2-INP	01295	8N74L826N
A3A1U3	1820-1281	1	IC DCDR TTL LS 2-TO-4-LINE DUAL 2-INP	01295	8N74L8139N
A3A1U4	1820-1112	2	IC FF TTL LS D-TYPE POS-EDGE-TRIG	01295	8N74L8174N
A3A1U5	1820-1196	2	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A3A1U6	1820-1196		IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A3A1U7	1820-0471	1	IC INV TTL HEX 1-INP	01295	8N7406N
A3A1U8	1826-0319	2	IC OP AMP TO-99	27014	LF356H
A3A1U9	1820-1423		IC MV TTL LS MONOSTBL RETRIG DUAL	01295	8N74L8123N
A3A1U10	1820-1212	1	IC FF TTL LS J-K NEG-EDGE-TRIG	01295	8N74L8112N
A3A1U11	1820-1201	1	IC GATE TTL LS AND QUAD 2-INP	01295	8N74L808N
A3A1U12	1820-1112		IC FF TTL LS D-TYPE POS-EDGE-TRIG	01295	8N74L8174N
A3A1U13	1820-0475	1	IC COMPARTOR TO-99	27014	LM306H
A3A1U14	1826-0319		IC OP AMP TO-99	27014	LF356H
A3A1U15	1820-1425	1	IC SCHMITT-TRIG TTL LS NAND QUAD 2-INP	01295	8N74L8132N
A3A1U16	1820-1298	1	IC MUXR/DATA=SEL TTL LS 8-TO-1-LINE	01295	8N74L8251N
A3A1U17	1820-1197	1	IC GATE TTL LS NAND QUAD 2-INP	01295	8N74L808N
A3A1U18	1820-1216	1	IC DCDR TTL LS 3-TO-8-LINE 3-INP	01295	8N74L8136N

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A1VR1	1902-3224	2	DIODE-ZNR 17.8V 5X DO-7 PD=.4W TC=+.067%	28480	1902-3224
A3A1VR2	1902-3224		DIODE-ZNR 17.8V 5X DO-7 PD=.4W TC=+.067%	28480	1902-3224
A3A1VR3	1902-3162	1	DIODE-ZNR 12.1V 5X DO-7 PD=.4W TC=+.064%	28480	1902-3162
A3A1VR4	1902-0041	2	DIODE-ZNR 5.11V 5X DO-7 PD=.4W TC=-.009%	28480	1902-0041
A3A1VR5	1902-0041		DIODE-ZNR 5.11V 5X DO-7 PD=.4W TC=-.009%	28480	1902-0041
			A3A1 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG 8E-CU	28480	1480-0073
	4040-0749	2	EXTRACTOR-PC BOARD BROWN POLYC	28480	4040-0749

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A2	85662-60025	1	BOARD ASSEMBLY, INTENSITY CONTROL	28480	85662-60025
A3A2C1	0160-2249	1	CAPACITOR-FXD 4.7PF +/-25PF 500VDC CER	28480	0160-2249
A3A2C2	0160-2264	2	CAPACITOR-FXD 20PF +/-5% 500VDC CER 0+-30	28480	0160-2264
A3A2C3	0140-0198	1	CAPACITOR-FXD 200PF +/-5% 300VDC MICA	72136	DM15F201J0300HV1CR
A3A2C4	0160-2202	1	CAPACITOR-FXD 75PF +/-5% 300VDC MICA	28480	0160-2202
A3A2C5	0160-4084	17	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C6	0180-0228	1	CAPACITOR-FXD 22UF +/-10% 15VDC TA	56289	150D226X9015B2
A3A2C7	0180-0374	3	CAPACITOR-FXD 10UF +/-10% 20VDC TA	56289	150D106X9020B2
A3A2C8	0180-0374	3	CAPACITOR-FXD 10UF +/-10% 20VDC TA	56289	150D106X9020B2
A3A2C9	0180-0374	3	CAPACITOR-FXD 10UF +/-10% 20VDC TA	56289	150D106X9020B2
A3A2C10	0160-2055	4	CAPACITOR-FXD .01UF +/-80-20% 100VDC CER	28480	0160-2055
A3A2C11	0160-2055	1	CAPACITOR-FXD .01UF +/-80-20% 100VDC CER	28480	0160-2055
A3A2C12	0160-2055	1	CAPACITOR-FXD .01UF +/-80-20% 100VDC CER	28480	0160-2055
A3A2C13	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C14	0160-2257	1	CAPACITOR-FXD 10PF +/-5% 500VDC CER 0+-60	28480	0160-2257
A3A2C15	0160-2264	1	CAPACITOR-FXD 20PF +/-5% 500VDC CER 0+-30	28480	0160-2264
A3A2C16	0140-0192	1	CAPACITOR-FXD 68PF +/-5% 300VDC MICA	72136	DM15E680J0300HV1CR
A3A2C17	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C18	0160-2204	1	CAPACITOR-FXD 100PF +/-5% 300VDC MICA	28480	0160-2204
A3A2C19	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C20	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C21	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C22	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C23	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C24	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C25	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C26	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C27	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C28	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C29	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C30	0140-0205	1	CAPACITOR-FXD 62PF +/-5% 300VDC MICA	72136	DM15E620J0300HV1CR
A3A2C31	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C32	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C33	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A2C34	0160-2055	1	CAPACITOR-FXD .01UF +/-80-20% 100VDC CER	28480	0160-2055
A3A2CR1	1901-0040	12	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR2	1901-0040	12	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR3	1901-0040	12	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR4	1901-0040	12	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR5	1901-0518	5	DIODE-SCHOTTKY	28480	1901-0518
A3A2CR6	1901-0518	5	DIODE-SCHOTTKY	28480	1901-0518
A3A2CR7	1901-0518	5	DIODE-SCHOTTKY	28480	1901-0518
A3A2CR8	1901-0040	5	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR9	1901-0040	5	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR10	1901-0040	5	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR11	1901-0040	5	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR12	1901-0040	5	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR13	1901-0040	5	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR14	1901-0040	5	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2CR15	1901-0518	5	DIODE-SCHOTTKY	28480	1901-0518
A3A2CR16	1901-0518	5	DIODE-SCHOTTKY	28480	1901-0518
A3A2CR17	1901-0040	5	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A3A2J1	1250-0543	2	CONNECTOR-RF 8M-8NP M PC 50-OHM	28480	1250-0543
A3A2J2	1250-0543	2	CONNECTOR-RF 8M-8NP M PC 50-OHM	28480	1250-0543
A3A2L1	9140-0210	2	COIL-MLD 100UH 5% Q=50 .155DX,375LG-NQM	28480	9140-0210
A3A2L2	08558-8001	1	FILTER, COIL, BLUE	28480	08558-80011
A3A2L3	9140-0237	1	COIL-MLD 200UH 5% Q=65 .155DX,375LG-NQM	28480	9140-0237
A3A2L4	9140-0210	1	NOT ASSIGNED	28480	9140-0210
A3A2L5	9140-0210	1	COIL-MLD 100UH 5% Q=50 .155DX,375LG-NQM	28480	9140-0210
A3A2Q1	1855-0081	4	TRANSISTOR J-FET N-CHAN D-MODE SI	01295	2N5245
A3A2Q2	1855-0081	4	TRANSISTOR J-FET N-CHAN D-MODE SI	01295	2N5245
A3A2Q3	1855-0081	4	TRANSISTOR J-FET N-CHAN D-MODE SI	01295	2N5245
A3A2Q4	1855-0081	4	TRANSISTOR J-FET N-CHAN D-MODE SI	01295	2N5245
A3A2Q5	1853-0007	6	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	04713	2N3251
A3A2Q6	1854-0404	3	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A2Q7	1853-0034	1	TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A3A2Q8	1853-0007	1	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	04713	2N3251
A3A2Q9	1853-0007	1	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	04713	2N3251
A3A2Q10	1854-0404	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A2Q11	1853-0007	1	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	04713	2N3251
A3A2Q12	1854-0404	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A2Q13	1853-0007	1	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	04713	2N3251
A3A2Q14	1853-0007	1	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	04713	2N3251

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A2R1	0757-0449	7	RESISTOR 20K 1% .125W F TC0+100	24546	C4-1/8-T0-2002-F
A3A2R2	0757-0449		RESISTOR 20K 1% .125W F TC0+100	24546	C4-1/8-T0-2002-F
A3A2R3	0757-0449		RESISTOR 20K 1% .125W F TC0+100	24546	C4-1/8-T0-2002-F
A3A2R4	0757-0449		RESISTOR 20K 1% .125W F TC0+100	24546	C4-1/8-T0-2002-F
A3A2R5	0757-0449		RESISTOR 20K 1% .125W F TC0+100	24546	C4-1/8-T0-2002-F
A3A2R6	0757-0449	8	RESISTOR 20K 1% .125W F TC0+100	24546	C4-1/8-T0-2002-F
A3A2R7	0757-0442		RESISTOR 10K 1% .125W F TC0+100	24546	C4-1/8-T0-1002-F
A3A2R8	0698-3153		RESISTOR 3.83K 1% .125W F TC0+100	24546	C4-1/8-T0-3831-F
A3A2R9	0698-3156		RESISTOR 14.7K 1% .125W F TC0+100	24546	C4-1/8-T0-1472-F
A3A2R10	0757-0442		RESISTOR 10K 1% .125W F TC0+100	24546	C4-1/8-T0-1002-F
A3A2R11	0757-0442	1	RESISTOR 10K 1% .125W F TC0+100	24546	C4-1/8-T0-1002-F
A3A2R12	2100-3354		RESISTOR-TRMR 50K 10% C SIDE-ADJ 1-TRN	28480	2100-3354
A3A2R13	0757-0442		RESISTOR 10K 1% .125W F TC0+100	24546	C4-1/8-T0-1002-F
A3A2R14	0757-0442		RESISTOR 10K 1% .125W F TC0+100	24546	C4-1/8-T0-1002-F
A3A2R15	0757-0449		RESISTOR 20K 1% .125W F TC0+100	24546	C4-1/8-T0-2002-F
A3A2R16	0757-0438	5	RESISTOR 5.11K 1% .125W F TC0+100	24546	C4-1/8-T0-5111-F
A3A2R17	0698-3455		RESISTOR 261K 1% .125W F TC0+100	24546	C4-1/8-T0-2613-F
A3A2R18	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	24546	C4-1/8-T0-5111-F
A3A2R19	0757-0280		RESISTOR 1K 1% .125W F TC0+100	24546	C4-1/8-T0-1001-F
A3A2R20	0757-0442		RESISTOR 10K 1% .125W F TC0+100	24546	C4-1/8-T0-1002-F
A3A2R21	0757-0447	1	RESISTOR 16.2K 1% .125W F TC0+100	24546	C4-1/8-T0-1622-F
A3A2R22	0757-0443		RESISTOR 11K 1% .125W F TC0+100	24546	C4-1/8-T0-1102-F
A3A2R23	0757-0421		RESISTOR 825 1% .125W F TC0+100	24546	C4-1/8-T0-825R-F
A3A2R24	0698-3157		RESISTOR 19.6K 1% .125W F TC0+100	24546	C4-1/8-T0-1962-F
A3A2R25	0757-0280		RESISTOR 1K 1% .125W F TC0+100	24546	C4-1/8-T0-1001-F
A3A2R26	0757-0442	3	RESISTOR 10K 1% .125W F TC0+100	24546	C4-1/8-T0-1002-F
A3A2R27	0757-0422		RESISTOR 909 1% .125W F TC0+100	24546	C4-1/8-T0-909R-F
A3A2R28	0757-0317		RESISTOR 1.33K 1% .125W F TC0+100	24546	C4-1/8-T0-1331-F
A3A2R29	0757-0422		RESISTOR 909 1% .125W F TC0+100	24546	C4-1/8-T0-909R-F
A3A2R30	0757-0317		RESISTOR 1.33K 1% .125W F TC0+100	24546	C4-1/8-T0-1331-F
A3A2R31	0757-0317	1	RESISTOR 1.33K 1% .125W F TC0+100	24546	C4-1/8-T0-1331-F
A3A2R32	0757-0422		RESISTOR 909 1% .125W F TC0+100	24546	C4-1/8-T0-909R-F
A3A2R33	0757-0280		RESISTOR 1K 1% .125W F TC0+100	24546	C4-1/8-T0-1001-F
A3A2R34	0698-0084		RESISTOR 2.15K 1% .125W F TC0+100	24546	C4-1/8-T0-2151-F
A3A2R35	0757-1094		RESISTOR 1.47K 1% .125W F TC0+100	24546	C4-1/8-T0-1471-F
A3A2R36	0698-3435	1	RESISTOR 38.3 1% .125W F TC0+100	24546	C4-1/8-T0-383R-F
A3A2R37	0698-3151		RESISTOR 2.87K 1% .125W F TC0+100	24546	C4-1/8-T0-2871-F
A3A2R38	0757-0398		RESISTOR 75 1% .125W F TC0+100	24546	C4-1/8-T0-75R0-F
A3A2R39	0757-0401		RESISTOR 100 1% .125W F TC0+100	24546	C4-1/8-T0-101-F
A3A2R40	0698-3446		RESISTOR 383 1% .125W F TC0+100	24546	C4-1/8-T0-383R-F
A3A2R41	0757-0438	2	RESISTOR 5.11K 1% .125W F TC0+100	24546	C4-1/8-T0-5111-F
A3A2R42	0757-0394		RESISTOR 51.1 1% .125W F TC0+100	24546	C4-1/8-T0-511R-F
A3A2R43	0757-0401		RESISTOR 100 1% .125W F TC0+100	24546	C4-1/8-T0-101-F
A3A2R44	0757-0460		RESISTOR 61.9K 1% .125W F TC0+100	24546	C4-1/8-T0-6192-F
A3A2R45	0757-0288		RESISTOR 9.09K 1% .125W F TC0+100	19701	MF4C1/8-T0-9091-F
A3A2R46	0757-0419	2	RESISTOR 681 1% .125W F TC0+100	24546	C4-1/8-T0-681R-F
A3A2R47	0757-0278		RESISTOR 1.78K 1% .125W F TC0+100	24546	C4-1/8-T0-1781-F
A3A2R48	0698-3155		RESISTOR 4.64K 1% .125W F TC0+100	24546	C4-1/8-T0-4641-F
A3A2R49	0757-0394		RESISTOR 51.1 1% .125W F TC0+100	24546	C4-1/8-T0-511R-F
A3A2R50	2100-3351		RESISTOR-TRMR 500 10% C SIDE-ADJ 1-TRN	28480	2100-3351
A3A2R51	2100-3351	1	RESISTOR-TRMR 500 10% C SIDE-ADJ 1-TRN	28480	2100-3351
A3A2R52	0698-3443		RESISTOR 287 1% .125W F TC0+100	24546	C4-1/8-T0-287R-F
A3A2R53	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	24546	C4-1/8-T0-5111-F
A3A2R54	0698-0082		RESISTOR 464 1% .125W F TC0+100	24546	C4-1/8-T0-4640-F
A3A2R55	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	24546	C4-1/8-T0-5111-F
A3A2R56	0698-3150	1	RESISTOR 2.37K 1% .125W F TC0+100	24546	C4-1/8-T0-2371-F
A3A2R57	0757-0428		RESISTOR 1.62K 1% .125W F TC0+100	24546	C4-1/8-T0-1621-F
A3A2R58	0757-0416		RESISTOR 511 1% .125W F TC0+100	24546	C4-1/8-T0-511R-F
A3A2R59	0698-3442		RESISTOR 237 1% .125W F TC0+100	24546	C4-1/8-T0-237R-F
A3A2R60	0698-3446		RESISTOR 383 1% .125W F TC0+100	24546	C4-1/8-T0-383R-F
A3A2R61	0757-0419	1	RESISTOR 681 1% .125W F TC0+100	24546	C4-1/8-T0-681R-F
A3A2R62	0698-3157		RESISTOR 19.6K 1% .125W F TC0+100	24546	C4-1/8-T0-1962-F
A3A2R63	0698-3153		RESISTOR 3.83K 1% .125W F TC0+100	24546	C4-1/8-T0-3831-F
A3A2R64	0757-0442		RESISTOR 10K 1% .125W F TC0+100	24546	C4-1/8-T0-1002-F
A3A2R65	0698-3157		RESISTOR 19.6K 1% .125W F TC0+100	24546	C4-1/8-T0-1962-F
A3A2R66	0757-0405	1	RESISTOR 162 1% .125W F TC0+100	24546	C4-1/8-T0-162R-F
A3A2TP1	0360-0535	13	TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP2	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP3	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP4	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP5	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP6	0360-0535	1	TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP7	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP8	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP9	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP10	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A2TP11	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP12	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2TP13	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A2U1	1820-1548	1	IC SN CMOS BILATL QUAD	01298	CD4060AY
A3A2U2	1820-1196	1	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A3A2U3	1820-1197	1	IC GATE TTL L8 NAND QUAD 2-INP	01295	8N74L800N
A3A2U4	1826-0026	1	IC 311 COMPARATOR TO-99	04713	LM311D
A3A2U5	1826-0081	5	IC 318 OP AMP TO-99	27014	LM318M
A3A2U6	1820-1415	1	IC SCHMITT-TRIG TTL L8 NAND DUAL 4-INP	01295	8N74L813N
A3A2U7	1820-1425	1	IC SCHMITT-TRIG TTL L8 NAND QUAD 2-INP	01295	8N74L8132N
A3A2U8	1826-0081		IC 318 OP AMP TO-99	27014	LM318M
A3A2U9	1826-0081		IC 318 OP AMP TO-99	27014	LM318M
A3A2U10	1820-1199	1	IC INV TTL L8 HEX 1-INP	01295	8N74L804N
A3A2U11	1820-0054	1	IC GATE TTL NAND QUAD 2-INP	01295	8N7400N
A3A2U12	1826-0180	1	IC 555 8-DIP-P	18324	NE555V
A3A2U13	1820-1432	1	IC CNTR TTL L8 BIN SYNCHRO POS-EDGE-TRIG	01295	8N74L8163N
A3A2U14	1826-0417	2	IC SWITCH 16-DIP-C	27014	NP13333D
A3A2U15	1826-0417		IC SWITCH 16-DIP-C	27014	NP13333D
A3A2U16	1826-0081		IC 318 OP AMP TO-99	27014	LM318M
A3A2U17	1826-0081		IC 318 OP AMP TO-99	27014	LM318M
A3A2U18	1820-1112	1	IC FF TTL L8 D-TYPE POS-EDGE-TRIG	01295	8N74L874N
A3A2U19	1820-1491	1	IC BFR TTL L8 NON-INV HEX 1-INP	01295	8N74L8367N
A3A2VR1	1902-0554	1	DIODE-ZNR 10V 5% DO-15 PD=1W TC=+.06%	28480	1902-0554
A3A2VR2	1902-0025	1	DIODE-ZNR 10V 5% DO-7 PD=.4W TC=+.06%	28480	1902-0025
A3A2VR3	1902-3092	1	DIODE-ZNR 4.99V 2% DO-7 PD=.4W TC=+.012%	28480	1902-3092
A3A2VR4	1902-3139	1	DIODE-ZNR 8.25V 5% DO-7 PD=.4W TC=+.053%	28480	1902-3139
			A3A2 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-L8 BE-CU	28480	1480-0073
	4040-0750	2	EXTRACTOR-PC BOARD RED POLYC	28480	4040-0750

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A3	85662-60026	1	BOARD ASSEMBLY, LINE GENERATOR	26480	85662-60026
A3A3C1	0180-0374	3	CAPACITOR-FXD 10UF +-10% 20VDC TA	56289	150D106X902082
A3A3C2	0180-0374		CAPACITOR-FXD 10UF +-10% 20VDC TA	56289	150D106X902082
A3A3C3	0180-0374		CAPACITOR-FXD 10UF +-10% 20VDC TA	56289	150D106X902082
A3A3C4	0160-2257	2	CAPACITOR-FXD 10PF +-5% 500VDC CER 0+-60	28480	0160-2257
A3A3C5	0160-2257		CAPACITOR-FXD 10PF +-5% 500VDC CER 0+-60	28480	0160-2257
A3A3C6	0160-4084	17	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C7	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C8	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C9	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C10	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C11	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C12	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C13	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C14	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C15	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C16	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C17	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C18	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C19	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C20	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C21	0160-2250	5	CAPACITOR-FXD 5.1PF +--.25PF 500VDC CER	28480	0160-2250
A3A3C22	0160-2250		CAPACITOR-FXD 5.1PF +--.25PF 500VDC CER	28480	0160-2250
A3A3C23	0140-0198	2	CAPACITOR-FXD 200PF +-5% 300VDC MICA	72136	DM15F201J0300MV1CR
A3A3C24	0160-2250		CAPACITOR-FXD 5.1PF +--.25PF 500VDC CER	28480	0160-2250
A3A3C25	0140-0198		CAPACITOR-FXD 200PF +-5% 300VDC MICA	72136	DM15F201J0300MV1CR
A3A3C26	0160-2675	2	CAPACITOR-FXD 3900PF +-1% 300VDC MICA *FACTORY SELECTED PART-NORMALLY OPEN	28480	0160-2675
A3A3C27*	0160-2250		CAPACITOR-FXD 5.1PF +--.25PF 500VDC CER	28480	0160-2250
A3A3C28	0160-3995	2	CAPACITOR-FXD 3900PF +-10% 250VDC CER	28480	0160-3995
A3A3C29	0160-3995		CAPACITOR-FXD 3900PF +-10% 250VDC CER	28480	0160-3995
A3A3C30	0160-3995		CAPACITOR-FXD 3900PF +-10% 250VDC CER	28480	0160-3995
A3A3C31	0160-2675		CAPACITOR-FXD 3900PF +-1% 300VDC MICA *FACTORY SELECTED PART-NORMALLY OPEN	28480	0160-2675
A3A3C32*	0160-2250		CAPACITOR-FXD 5.1PF +--.25PF 500VDC CER	28480	0160-2250
A3A3C33	0140-0191	2	CAPACITOR-FXD 56PF +-5% 300VDC MICA	72136	DM15E560J0300MV1CR
A3A3C34	0140-0199	2	CAPACITOR-FXD 240PF +-5% 300VDC MICA	72136	DM15F241J0300MV1CR
A3A3C35	0160-3536	2	CAPACITOR-FXD 620PF +-5% 100VDC MICA	28480	0160-3536
A3A3C36	0140-0191		CAPACITOR-FXD 56PF +-5% 300VDC MICA	72136	DM15E560J0300MV1CR
A3A3C37	0140-0199		CAPACITOR-FXD 240PF +-5% 300VDC MICA	72136	DM15F241J0300MV1CR
A3A3C38	0160-3536		CAPACITOR-FXD 620PF +-5% 100VDC MICA	28480	0160-3536
A3A3C39	0160-2055	3	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-2055
A3A3C40	0160-2055		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-2055
A3A3C41	0160-2055		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-2055
A3A3C42	0160-2241	2	CAPACITOR-FXD 2.2PF +--.25PF 500VDC CER	28480	0160-2241
A3A3C43	0160-2241		CAPACITOR-FXD 2.2PF +--.25PF 500VDC CER	28480	0160-2241
A3A3C44	0160-2264	2	CAPACITOR-FXD 20PF +-5% 500VDC CER 0+-30	28480	0160-2264
A3A3C45	0160-2264		CAPACITOR-FXD 20PF +-5% 500VDC CER 0+-30	28480	0160-2264
A3A3C46	0160-2264		CAPACITOR-FXD 20PF +-5% 500VDC CER 0+-30	28480	0160-2264
A3A3C47	0180-0197	1	CAPACITOR-FXD 2.2UF +-10% 20VDC TA	56289	150D225X9020A2
A3A3C48	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3C49	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A3CR1	1901-0535	21	DIODE-SCHOTTKY	28480	1901-0535
A3A3CR2	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR3	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR4	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR5	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR6	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR7	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR8	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR9	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR10	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR11	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR12	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR13	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR14	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR15	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR16	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR17	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR18	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR19	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR20	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A3CR21	1901-0040	5	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A3A3CR22	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A3A3CR23	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A3A3CR24	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A3A3CR25	1901-0535		DIODE-SCHOTTKY	28480	1901-0535

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A3CR26	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A3A3L1	9140-0210	2	COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A3A3L2	9140-0210		COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A3A3L3	9100-1618	3	COIL-MLD 5.6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
A3A3L4	9100-1620	2	COIL-MLD 15UH 10% Q=65 .155DX,375LG-NOM	28480	9100-1620
A3A3L5	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
A3A3L6	9100-1620		COIL-MLD 15UH 10% Q=65 .155DX,375LG-NOM	28480	9100-1620
A3A3L7	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
A3A3Q1	1855-0081	8	TRANSISTOR J-FET N-CHAN D-MODE 8I	01295	2N5245
A3A3Q2	1855-0081		TRANSISTOR J-FET N-CHAN D-MODE 8I	01295	2N5245
A3A3Q3	1855-0081		TRANSISTOR J-FET N-CHAN D-MODE 8I	01295	2N5245
A3A3Q4	1855-0081		TRANSISTOR J-FET N-CHAN D-MODE 8I	01295	2N5245
A3A3Q5	1855-0241	2	TRANSISTOR MOSFET N-CHAN E-MODE TO-72 8I	18324	80215
A3A3Q6	1855-0050	2	TRANSISTOR-JFET DUAL N-CHAN D-MODE 8I	28480	1855-0050
A3A3Q7	1855-0020	2	TRANSISTOR J-FET N-CHAN D-MODE TO-18 8I	28480	1855-0020
A3A3Q8	1855-0020		TRANSISTOR J-FET N-CHAN D-MODE TO-18 8I	28480	1855-0020
A3A3Q9	1853-0034	3	TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A3A3Q10	1855-0241		TRANSISTOR MOSFET N-CHAN E-MODE TO-72 8I	18324	80215
A3A3Q11	1855-0050		TRANSISTOR-JFET DUAL N-CHAN D-MODE 8I	28480	1855-0050
A3A3Q12	1855-0081		TRANSISTOR J-FET N-CHAN D-MODE 8I	01295	2N5245
A3A3Q13	1855-0081		TRANSISTOR J-FET N-CHAN D-MODE 8I	01295	2N5245
A3A3Q14	1855-0081		TRANSISTOR J-FET N-CHAN D-MODE 8I	01295	2N5245
A3A3Q15	1855-0081		TRANSISTOR J-FET N-CHAN D-MODE 8I	01295	2N5245
A3A3Q16	1853-0034		TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A3A3Q17	1853-0034		TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A3A3R1	2100-3356	1	RESISTOR-TRMR 200K 10% C SIDE=ADJ 1-TRN	28480	2100-3356
A3A3R2	2100-3357	1	RESISTOR-TRMR 500K 10% C SIDE=ADJ 1-TRN	28480	2100-3357
A3A3R3	0698-3440	3	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A3A3R4	2100-3207	2	RESISTOR-TRMR 5K 10% C SIDE=ADJ 1-TRN	28480	2100-3207
A3A3R5	2100-3207		RESISTOR-TRMR 5K 10% C SIDE=ADJ 1-TRN	28480	2100-3207
A3A3R6	2100-3274	2	RESISTOR-TRMR 10K 10% C SIDE=ADJ 1-TRN	28480	2100-3274
A3A3R7	2100-3351	2	RESISTOR-TRMR 500 10% C SIDE=ADJ 1-TRN	28480	2100-3351
A3A3R8	2100-3351		RESISTOR-TRMR 500 10% C SIDE=ADJ 1-TRN	28480	2100-3351
A3A3R9	2100-3274		RESISTOR-TRMR 10K 10% C SIDE=ADJ 1-TRN	28480	2100-3274
A3A3R10	0698-5350	8	RESISTOR 2.613K 1% .125W F TC=0+-25	28480	0698-5350
A3A3R11	0698-5350		RESISTOR 2.613K 1% .125W F TC=0+-25	28480	0698-5350
A3A3R12	0698-3157	6	RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A3A3R13	0698-5350		RESISTOR 2.613K 1% .125W F TC=0+-25	28480	0698-5350
A3A3R14	0698-5350		RESISTOR 2.613K 1% .125W F TC=0+-25	28480	0698-5350
A3A3R15	0698-7095	2	RESISTOR 11K .25% .125W F TC=0+-50	28480	0698-7095
A3A3R16	0698-3428	2	RESISTOR 14.7 1% .125W F TC=0+-100	03888	PME55-1/8-T0-147R-F
A3A3R17	0698-0085	2	RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2611-F
A3A3R18	0698-5350		RESISTOR 2.613K 1% .125W F TC=0+-25	28480	0698-5350
A3A3R19	0757-0442	4	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A3R20	0757-0438	3	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A3A3R21	0757-0462	1	RESISTOR 75K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7502-F
A3A3R22	0698-3440	2	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A3A3R23	0698-0084	3	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A3A3R24	0757-0424	2	RESISTOR 1.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1101-F
A3A3R25	0698-3161	1	RESISTOR 38.3K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3832-F
A3A3R26	0757-0444	1	RESISTOR 12.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1212-F
A3A3R27	0698-5350		RESISTOR 2.613K 1% .125W F TC=0+-25	28480	0698-5350
A3A3R28	0698-5350		RESISTOR 2.613K 1% .125W F TC=0+-25	28480	0698-5350
A3A3R29	0698-5350		RESISTOR 2.613K 1% .125W F TC=0+-25	28480	0698-5350
A3A3R30	0698-7095		RESISTOR 11K .25% .125W F TC=0+-50	28480	0698-7095
A3A3R31	0698-3428		RESISTOR 14.7 1% .125W F TC=0+-100	03888	PME55-1/8-T0-147R-F
A3A3R32	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A3R33	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2611-F
A3A3R34	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A3R35	0698-3136	1	RESISTOR 17.8K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1782-F
A3A3R36	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A3A3R37	0698-3440		RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A3A3R38	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A3A3R39	0698-3157		RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A3A3R40	0698-3157		RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A3A3R41	0698-3157		RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A3A3R42	0698-3157		RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A3A3R43	2100-3354	1	RESISTOR-TRMR 50K 10% C SIDE=ADJ 1-TRN	28480	2100-3354
A3A3R44	0698-3157		RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A3A3R45	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A3A3R46	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A3R47	0698-6963	2	RESISTOR 5.55K 1% .125W F TC=0+-25	28480	0698-6963
A3A3R48	0698-6963		RESISTOR 5.55K 1% .125W F TC=0+-25	28480	0698-6963
A3A3R49	0698-3150	1	RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2371-F
A3A3R50	0757-0424		RESISTOR 1.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1101-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A3RS1	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A3A3RS2	0757-0421		RESISTOR 825 1% .125W F TC=0+-100	24546	C4-1/8-T0-825R-F
A3A3RS3	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A3A3TP1	0360-0535	12	TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP2	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP3	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP4	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP5	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP6	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP7	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP8	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP9	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP10	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP11	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3TP12	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A3U1	1826-0079	4	IC 2625 OP AMP T0-99	29832	1321
A3A3U2	1826-0089		IC 2525 OP AMP T0-99	29832	1322
A3A3U3	1826-0079	2	IC 2625 OP AMP T0-99	29832	1321
A3A3U4	1826-0448		IC DIGITAL-ANALOG CONV 7520	28480	1826-0448
A3A3U5	1820-1444	2	IC MUXR/DATA-SEL TTL LS 2-T0-1-LINE QUAD	01295	8N74LS298N
A3A3U6	1820-1196	2	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74LS174N
A3A3U7	1826-0079		IC 2625 OP AMP T0-99	29832	1321
A3A3U8	1826-0448		IC DIGITAL-ANALOG CONV 7520	28480	1826-0448
A3A3U9	1820-1444		IC MUXR/DATA-SEL TTL LS 2-T0-1-LINE QUAD	01295	8N74LS298N
A3A3U10	1820-1196		IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74LS174N
A3A3U11	1826-0079		IC 2625 OP AMP T0-99	29832	1321
A3A3U12	1826-0089		IC 2525 OP AMP T0-99	29832	1322
A3A3U13	1826-0081	1	IC 318 OP AMP T0-99	27014	LM318M
A3A3U14	1820-1195	1	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74LS175N
A3A3U15	1820-1197	1	IC GATE TTL LS NAND QUAD 2-INP	01295	8N74LS00N
A3A3VR1	1902-3036	1	DIODE-ZNR 3.16V 5% DO-7 PD=.4W TC=-.064X	28480	1902-3036
A3A3VR2	1902-0686	1	DIODE-ZNR 1N825 6.2V 2% DO-7 PD=.4W	04713	1N825
			A3A3 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG BE-CU	28480	1480-0073
	4040-0751	2	EXTRACTOR-PC BOARD ORN POLYC	28480	4040-0751

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A4	85662-60023	1	BOARD ASSEMBLY, MEMORY	28480	85662-60023
A3A4C1	0160-4084	16	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C2	0180-2144	1	CAPACITOR-FXD 200UF+75-10% 25VDC AL	0420J	30D2078025DH9
A3A4C3	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C4	0160-0127	10	CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4C5	0180-1746	5	CAPACITOR-FXD 15UF+-10% 20VDC TA	0420J	150D156X9020B2
A3A4C6	0180-0374	1	CAPACITOR-FXD 10UF+-10% 20VDC TA	0420J	150D106X9020B2
A3A4C7	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C8	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C9	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C10	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	0420J	150D156X9020B2
A3A4C11	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4C12	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	0420J	150D156X9020B2
A3A4C13	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4C14	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4C15	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C16	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4C17	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C18	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C19	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C20	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4C21	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	0420J	150D156X9020B2
A3A4C22	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4C23	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C24	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C25	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C26	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C27	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4C28	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	0420J	150D156X9020B2
A3A4C29	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4C30	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C31	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C32	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A4C33	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A4L1	9140-0171	1	COIL-MLD 40UH 10% Q=20 .296DX,968LG	28480	9140-0171
A3A4L2	9140-0210	1	COIL-MLD 100UH 5% Q=50 .155DX,375LG	0217B	15-1315-12J
A3A4R1	0757-0280	1	RESISTOR 1K 1% .125W F TC=+100	0329B	C4-1/8-T0-1001-F
A3A4U1	1818-0156	12	IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U2	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U3	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U4	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U5	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U6	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U7	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U8	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U9	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U10	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U11	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U12	1818-0156		IC TMS4060N 4K RAM NMOS	28480	1818-0156
A3A4U13	1818-0293	1		28480	1818-0293
A3A4U14	1820-1492	2	IC BFR TTL L8 INV HEX 1-INP	0169H	8N74L8368N
A3A4U15	1820-1196	4	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74LS174N
A3A4U16	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74LS174N
A3A4U17	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74LS174N
A3A4U18	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74LS174N
A3A4U19	1820-1492		IC BFR TTL L8 INV HEX 1-INP	0169H	8N74L8368N
A3A4U20	1820-1982	1	IC DRVR TTL* DUAL	0169H	8N75363N
A3A4U21	1826-0147	1	IC 7812 V RGLTR	0223B	7812UC
A3A4U22	1820-1278	1	IC CNTR TTL L8 BIN UP/DOWN SYNCHRO	0169H	8N74L8191N
A3A4VR1	1902-0041	1	DIODE-ZNR 5.11V 5% DO-7 PD=.4W TC=-.009%	0203B	8Z 10939-98
			A3A4 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-DRIVE 0.250" LG .062" DIA	28480	1480-0073
	4040-0752	2	EXTRACTOR-PC BOARD YEL POLYC	28480	4040-0752

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A5	85662-60024	1	BOARD ASSEMBLY, DATA MANIPULATOR	28480	85662-60024
A3A5C1	0160-4084	11	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C2	0180-0228	2	CAPACITOR-FXD 22UF +/-10% 15VDC TA	56289	1500228X901582
A3A5C3	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C4	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C5	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C6	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C7	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C8	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C9	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C10	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C11	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C12	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A3A5C13	0180-0228		CAPACITOR-FXD 22UF +/-10% 15VDC TA	56289	1500228X901582
A3A5L1	08558-80011	1	FILTER, COIL, BLUE	28480	08558-80011
A3A5R1	0698-3155	14	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R2	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R3	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R4	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R5	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R6	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R7	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R8	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R9	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R10	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R11	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R12	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R13	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R14	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A5R15	0698-3132	2	RESISTOR 261 1% .125W F TC=0+-100	2454A	C4-1/8-T0-2610-F
A3A5R16	0698-3132		RESISTOR 261 1% .125W F TC=0+-100	24546	C4-1/8-T0-2610-F
A3ASTP1	0360-0535	4	TERMINAL TEST POINT PCB	28480	0360-0535
A3ASTP2	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3ASTP3	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3ASTP4	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3ASU1			NOT ASSIGNED		
A3ASU2	1820-1974	3	IC ARITH=LGC=UN TTL 8	01295	8N748181J
A3ASU3	1820-1974		IC ARITH=LGC=UN TTL 8	01295	8N748181J
A3ASU4	1820-1974		IC ARITH=LGC=UN TTL 8	01295	8N748181J
A3ASU5	1820-1491	2	IC BFR TTL L8 NON=INV HEX 1-INP	01295	8N74L8367N
A3ASU6	1820-1439	3	IC MUXR/DATA=SEL TTL L8 2=TO=1-LINE	01295	8N74L8258N
A3ASU7	1820-1196	2	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A3ASU8	1820-1439		IC MUXR/DATA=SEL TTL L8 2=TO=1-LINE	01295	8N74L8258N
A3ASU9	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A3ASU10	1820-1439		IC MUXR/DATA=SEL TTL L8 2=TO=1-LINE	01295	8N74L8258N
A3ASU11	1820-1491		IC BFR TTL L8 NON=INV HEX 1-INP	01295	8N74L8367N
A3ASU12	1820-1076	1	IC FF TTL 8 D-TYPE POS-EDGE-TRIG CLEAR	01295	8N748174N
A3ASU13	1816-0724	3	IC 8N748189N 64-BIT RAM TTL	01295	8N748189N
A3ASU14	1820-1130	1	IC GATE TTL 8 NAND 13-INP	01295	8N748133N
A3ASU15	1816-0724		IC 8N748189N 64-BIT RAM TTL	01295	8N748189N
A3ASU16	1820-1305	1	IC GEN TTL 8 LOOK=AMD=CRY	01295	8N748182N
A3ASU17	1816-0724		IC 8N748189N 64-BIT RAM TTL	01295	8N748189N
A3ASU18			NOT ASSIGNED		
A3ASU19	1820-0681	1	IC GATE TTL 8 NAND QUAD 2-INP	01295	8N74800N
A3ASU20	1820-0685	1	IC GATE TTL 8 NAND TPL 3-INP	01295	8N74810N
A3ASU21	1820-1202	1	IC GATE TTL L8 NAND TPL 3-INP	01295	8N74L810N
A3ASU22	1820-1197	1	IC GATE TTL L8 NAND QUAD 2-INP	01295	8N74L800N
A3ASU23	1820-1287	1	IC BFR TTL L8 NAND QUAD 2-INP	01295	8N74L837N
A3ASU24	1820-1195	1	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8175N
			A3AS MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG BE=CU	28480	1480-0073
	4040-0753	2	EXTRACTOR-PC BOARD GRN POLYC	28480	4040-0753

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A6	85662-60022	1	BOARD ASSEMBLY, MAIN CONTROL	28480	85662-60022
A3A6C1	0160-4084	12	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C2	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C3	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C4	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C5	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C6	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C7	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C8	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C9	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C10	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C11	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6C12	0160-0573	1	CAPACITOR-FXD 4700PF +-20% 100VDC CER	28480	0160-0573
A3A6C13	0180-0197	1	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A3A6C14	0180-0228	1	CAPACITOR-FXD 22UF+-10% 15VDC TA	56289	150D226X0015B2
A3A6C15	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A6E1	1251-4787	1	SHUNT-DIP 8 POSITION	28480	1251-4787
A3A6J1	1200-0507	1	SOCKET-IC 16-CONT DIP-8LDR	28480	1200-0507
A3A6L1	08558-80011	1	FILTER COIL BLUE	28480	08558-80011
A3A6R1	0698-3155	3	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A6R2	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A6R3	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A3A6R4	0698-3157	1	RESISTOR 19.0K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1968-F
A3A6R5	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A6R6	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A3A6TP1	0360-0535	11	TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP2	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP3	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP4	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP5	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP6	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP7	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP8	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP9	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP10	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6TP11	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A6U1	1820-1871	2	IC ADDR TTL 8 BIN FULL ADDR 4-BIT	01295	8N748283N
A3A6U2	1820-1871		IC ADDR TTL 8 BIN FULL ADDR 4-BIT	01295	8N748283N
A3A6U3	1810-0205	1	NETWORK-RES 8-PIN-8IP .1-PIN-8PC8	11236	750-81-R4.7K
A3A6U4	1816-1008	8	IC TTL 4K PROM 55-NS 3-8	01295	8N748472J
A3A6U5	1816-1008		IC TTL 4K PROM 55-NS 3-8	01295	8N748472J
A3A6U6	1816-1008		IC TTL 4K PROM 55-NS 3-8	01295	8N748472J
A3A6U7	1816-1008		IC TTL 4K PROM 55-NS 3-8	01295	8N748472J
A3A6U8	1816-1008		IC TTL 4K PROM 55-NS 3-8	01295	8N748472J
A3A6U9	1816-1008		IC TTL 4K PROM 55-NS 3-8	01295	8N748472J
A3A6U10	1816-1008		IC TTL 4K PROM 55-NS 3-8	01295	8N748472J
A3A6U11	1816-1008		IC TTL 4K PROM 55-NS 3-8	01295	8N748472J
A3A6U12	1820-1076	3	IC FF TTL 8 D-TYPE POS-EDGE-TRIG CLEAR	01295	8N748174N
A3A6U13	1820-1981	3	IC RGTR TTL 8 QUAD 2-INP	34335	AM25809PC
A3A6U14	1820-1981		IC RGTR TTL 8 QUAD 2-INP	34335	AM25809PC
A3A6U15	1820-1076		IC FF TTL 8 D-TYPE POS-EDGE-TRIG CLEAR	01295	8N748174N
A3A6U16	1820-1981		IC RGTR TTL 8 QUAD 2-INP	34335	AM25809PC
A3A6U17	1820-0685	2	IC GATE TTL 8 NAND TPL 3-INP	01295	8N74810N
A3A6U18	1820-0681	2	IC GATE TTL 8 NAND QUAD 2-INP	01295	8N74800N
A3A6U19	1820-0685		IC GATE TTL 8 NAND TPL 3-INP	01295	8N74810N
A3A6U20	1820-1423	1	IC MV TTL L8 MONOSTBL RETRIG DUAL	01295	8N74L8123N
A3A6U21	1820-1729	2	IC LCH TTL L8 COM CLEAR 8-BIT	01295	8N74L8259N
A3A6U22	1820-0693	1	IC FF TTL 8 D-TYPE POS-EDGE-TRIG	01295	8N748174N
A3A6U23	1820-1729		IC LCH TTL L8 COM CLEAR 8-BIT	01295	8N74L8259N
A3A6U24	1820-1196	1	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A3A6U25	1820-1112	1	IC FF TTL L8 D-TYPE POS-EDGE-TRIG	01295	8N74L8174N
A3A6U26	1820-1216	1	IC DCDR TTL L8 3-TO-8-LINE 3-INP	01295	8N74L8138N
A3A6U27	1820-0681		IC GATE TTL 8 NAND QUAD 2-INP	01295	8N74800N
A3A6U28	1820-1076		IC FF TTL 8 D-TYPE POS-EDGE-TRIG CLEAR	01295	8N748174N
A3A6U29	1820-1491	1	IC BFR TTL L8 NON-INV HEX 1-INP	01295	8N74L8367N
			A3A6 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG BE-CU	28480	1480-0073
	4040-0754	2	EXTRACTOR-PC BOARD BLU POLYC	28480	4040-0754

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A7	85662-60021	1	BOARD ASSEMBLY, INTERFACE	28480	85662-60021
A3A7C1	0160-4084	12	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C2	0180-0228	1	CAPACITOR-FXD 22UF+-10% 15VDC TA	56289	150D224X901582
A3A7C3	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C4	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C5	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C6	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C7	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C8	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C9	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C10	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C11	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C12	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C13	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A3A7C14	0160-2264	1	CAPACITOR-FXD 20PF +-5% 500VDC CER 0+-30	28480	0160-2264
A3A7CR1	1901-0535	1	DIODE-8CHOTTKY	28480	1901-0535
A3A7E1	1460-1489	1	SPRING, WIREFORM (TEST JUMPER)	28480	1460-1489
A3A7E2	1258-0124	1	JUMPER-SINGLE POSITION (FOR IC SOCKET J1)	28480	1258-0124
A3A7J1	1200-0508	1	SOCKET-IC 14-CONT DIP-8LDR	28480	1200-0508
A3A7L1	08558-8001	1	FILTER, COIL, BLUE	28480	08558-80011
A3A7Q1	1854-0404	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A7R1	0698-7232	2	RESISTOR 681 1% .05W F TC=0+-100	24546	C3-1/8-T0-681R-G
A3A7R2	0698-7242	6	RESISTOR 1.78K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1781-G
A3A7R3	0698-7232		RESISTOR 681 1% .05W F TC=0+-100	24546	C3-1/8-T0-681R-G
A3A7R4	0698-7242		RESISTOR 1.78K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1781-G
A3A7R5	0698-7242		RESISTOR 1.78K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1781-G
A3A7R6	0698-7242		RESISTOR 1.78K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1781-G
A3A7R7	0698-7242		RESISTOR 1.78K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1781-G
A3A7R8	0698-7228	1	RESISTOR 464 1% .05W F TC=0+-100	24546	C3-1/8-T0-464R-G
A3A7R9	0698-7242		RESISTOR 1.78K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1781-G
A3A781	3101-2170	1	SWITCH, PUSHBUTTON SPDT MOM	28480	3101-2170
A3A7TP1	0360-0535	10	TERMINAL TEST POINT PCB	28480	0360-0535
A3A7TP2	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A7TP3	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A7TP4	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A7TP5	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A7TP6	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A7TP7	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A7TP8	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A7TP9	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A7TP10	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A7U1	1820-1444	4	IC MUXR/DATA=8EL TTL L8 2-T0=1-LINE QUAD	01295	8N74L8298N
A3A7U2	1820-1491	5	IC BFR TTL L8 NON-INV HEX 1-INP	01295	8N74L8367N
A3A7U3	1820-1444		IC MUXR/DATA=8EL TTL L8 2-T0=1-LINE QUAD	01295	8N74L8298N
A3A7U4	1820-1444		IC MUXR/DATA=8EL TTL L8 2-T0=1-LINE QUAD	01295	8N74L8298N
A3A7U5	1820-1491		IC BFR TTL L8 NON-INV HEX 1-INP	01295	8N74L8367N
A3A7U6	1820-1491		IC BFR TTL L8 NON-INV HEX 1-INP	01295	8N74L8367N
A3A7U7	1820-1491		IC BFR TTL L8 NON-INV HEX 1-INP	01295	8N74L8367N
A3A7U8	1820-1444		IC MUXR/DATA=8EL TTL L8 2-T0=1-LINE QUAD	01295	8N74L8298N
A3A7U9	1820-1491		IC BFR TTL L8 NON-INV HEX 1-INP	01295	8N74L8367N
A3A7U10	1820-1199	1	IC INV TTL L8 HEX 1-INP	01295	8N74L804N
A3A7U11	1820-1202	2	IC GATE TTL L8 NAND TPL 3-INP	01295	8N74L810N
A3A7U12	1820-1202		IC GATE TTL L8 NAND TPL 3-INP	01295	8N74L810N
A3A7U13	1820-1416	1	IC 8CHMITT-TRIG TTL L8 INV HEX 1-INP	01295	8N74L814N
A3A7U14	1820-1980	2	IC MUXR/DATA=8EL TTL 8 8-INP	18324	N628318
A3A7U15	1820-1980		IC MUXR/DATA=8EL TTL 8 8-INP	18324	N628318
A3A7U16	1820-1240	2	IC DCDR TTL 8 3-T0=8-LINE 3-INP	01295	8N748138N
A3A7U17	1820-1240		IC DCDR TTL 8 3-T0=8-LINE 3-INP	01295	8N748138N
A3A7U18	1820-0693	1	IC FF TTL 8 0-TYPE POS-EDGE-TRIG	01295	8N74874N
A3A7U19	1810-0208	1	NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	11236	750-81-R10K
A3A7U20	1820-1431	1	IC CNTR TTL L8 DECD SYNCHRO	01295	8N74L8162N
A3A7U21	1820-1432	1	IC CNTR TTL L8 BIN SYNCHRO POS-EDGE-TRIG	01295	8N74L8163N
A3A7VR1	1902-3036	1	DIODE-ZNR 3.16V 5% DO-7 PD=.4W TC=-.064%	02036	SZ 10939-38
A3A7Y1	0410-1034	1	CRYSTAL, 16.00 MHZ	28480	0410-1034
			A3A7 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG BE-CU	28480	1480-0073
	4040-0755	2	EXTRACTOR-PC BOARD VID POLYC	28480	4040-0755

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A0	85662-60013	1	BOARD ASSEMBLY, ANALOG-DIGITAL CONVERTER	28480	85662-60013
A3A0C1	0180-0229	2	CAPACITOR-FXD 33UF+-10% 10VDC TA	56289	150D336X901082
A3A0C2	0180-1746	5	CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X902082
A3A0C3	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X902082
A3A0C4	0180-0229		CAPACITOR-FXD 33UF+-10% 10VDC TA	56289	150D336X901082
A3A0C5	0160-2055	12	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C6	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X902082
A3A0C7	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X902082
A3A0C8	0160-2260		CAPACITOR-FXD 13PF +-5% 500VDC CER 0+-30	28480	0160-2260
A3A0C9	0160-2199	1	CAPACITOR-FXD 30PF +-5% 300VDC MICA	28480	0160-2199
A3A0C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C15	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C17	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C18	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X902082
A3A0C19	0160-0174	2	CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A3A0C20	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A3A0C21	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C22	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C24	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A0C25	0160-2201	1	CAPACITOR-FXD 31PF +-5% 300VDC MICA	28480	0160-2201
A3A0C26	0160-0127	1	CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A0CR1	1901-0535	4	DIODE-SCHOTTKY	28480	1901-0535
A3A0CR2	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A0CR3	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A0CR4	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A3A0E1	1460-1489	1	WIREFORM-BE CU AG	28480	1460-1489
A3A0J1	1250-0543	1	CONNECTOR-RF 8M-SNP M PC 50-OHM	28480	1250-0543
A3A0L1	9140-0114	4	COIL-MLD 10UH 10% Q=55 .155DX,375LG-NOM	28480	9140-0114
A3A0L2	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG-NOM	28480	9140-0114
A3A0L3	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG-NOM	28480	9140-0114
A3A0L4	9140-0210	2	COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A3A0L5	9140-0210		COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A3A0L6	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG-NOM	28480	9140-0114
A3A0R1	0698-3432	1	RESISTOR 26.1 1% .125W F TC=0+-100	03888	PME55-1/8-T0-26R1-F
A3A0R2	0757-0401	2	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A3A0R3	0698-3440	1	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A3A0R4	0757-0439	3	RESISTOR 6.81K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6811-F
A3A0R5	0698-3136	2	RESISTOR 17.8K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1782-F
A3A0R6	0757-0279	2	RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A0R7	0757-0442	3	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A0R8	0698-3136		RESISTOR 17.8K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1782-F
A3A0R9	2100-2850	1	RESISTOR-TRMR 10K 10% WW 8IDE-ADJ 20-TRN	02600	3810P=103
A3A0R10	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A3A0R11	0757-0439		RESISTOR 6.81K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6811-F
A3A0R12	0698-3429	1	RESISTOR 19.6 1% .125W F TC=0+-100	03888	PME55-1/8-T0-19R6-F
A3A0R13	0698-3160	1	RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A3A0R14	2100-3054	1	RESISTOR-TRMR 50K 10% C 8IDE-ADJ 17-TRN	02111	43P503
A3A0R15			NOT ASSIGNED		
A3A0R16	0757-0439		RESISTOR 6.81K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6811-F
A3A0R17	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A3A0R18	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A0R19	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A3A0R20	0698-3430	1	RESISTOR 21.5 1% .125W F TC=0+-100	03888	PME55-1/8-T0-21R5-F
A3A0TP1	0360-0535	7	TERMINAL TEST POINT PCB	28480	0360-0535
A3A0TP2	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A0TP3	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A0TP4	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A0TP5	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A0TP6	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A0TP7	0360-0535		TERMINAL TEST POINT PCB	28480	0360-0535
A3A0U1	1820-1491	3	IC BFR TTL LS NON-INV HEX 1-INP	01295	8N74L8367N
A3A0U2	1820-1196	2	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A3A0U3	1820-0223	2	IC 301 OP AMP T0-99	18324	LM301A
A3A0U4	1820-0475	1	IC COMPARATOR T0-99	27014	LM306M
A3A0U5	1826-0448	1	IC DIGITAL-ANALOG CONV 7520	28480	1826-0448

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A8U6	1820-0223		IC 301 OP AMP T0-99	18324	LM301A
A3A8U7	1820-1282	1	IC FF TTL L8 J-K BAR POS-EDGE-TRIG	01295	SN74LS109N
A3A8U8	1820-1978	1	IC RGTR TTL L 12-BIT	34335	AM25LD4PC
A3A8U9	1820-1491		IC BFR TTL L8 NON-INV HEX 1-INP	01295	SN74LS367N
A3A8U10	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A3A8U11	1906-0202	1	DIODE-ARRAY 40V 400MA	01295	YD130
A3A8U12	1820-0116	1	IC COMPARATOR T0-99	06665	CMP-01-CJ
A3A8U13	1820-1984	1	IC CONV TTL* D/A 10-BIT	24355	ADS61KD
A3A8U14	1820-1491		IC BFR TTL L8 NON-INV HEX 1-INP	01295	SN74LS367N
A3A8U15	1902-0908	1	DIODE-ZNR 6.95V 5% TC=+.0002%	27014	LM399H
A3A8VR1	1902-3036	1	DIODE-ZNR 3.16V 5% DO-7 PD=.4W TC=-.064%	28480	1902-3036
			A3A8 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG BE-CU	28480	1480-0073
	4040-0747	2	EXTRACTOR-PC BOARD GRA POLYC	28480	4040-0747

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A9	85662-60012	1	BOARD ASSEMBLY, TRACK AND HOLD	28480	85662-60012
A3A9C1	0160-0127	4	CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A9C2	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A9C3	0180-1746	2	CAPACITOR-FXD 15UF+-10% 20VDC TA	0420J	150D156X9020B2
A3A9C4	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	0420J	150D156X9020B2
A3A9C5	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A9C6	0160-0127		CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A3A9C7	0180-0229	1	CAPACITOR-FXD 33UF+-10% 10VDC TA	0420J	150D336X9010B2
A3A9C8	0160-2055	22	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C9	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C11	0180-0197	1	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A3A9C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C13	0160-3456	2	CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A3A9C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C15	0160-0945	3	CAPACITOR-FXD 910PF +-5% 100VDC MICA0+70	28480	0160-0945
A3A9C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C17	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C18	0160-2204	2	CAPACITOR-FXD 100PF +-5% 300VDC MICA0+70	28480	0160-2204
A3A9C19	0160-2204		CAPACITOR-FXD 100PF +-5% 300VDC MICA0+70	28480	0160-2204
A3A9C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C21	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C22	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C23	0160-3456		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A3A9C24	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C25	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C26	0160-0945		CAPACITOR-FXD 910PF +-5% 100VDC MICA0+70	28480	0160-0945
A3A9C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C28			NOT ASSIGNED		
A3A9C29			NOT ASSIGNED		
A3A9C30	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C31	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C32	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C33	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C34	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C35	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C36	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C37	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9C38	0160-0945		CAPACITOR-FXD 910PF +-5% 100VDC MICA0+70	28480	0160-0945
A3A9C39	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A3A9CR1	1901-0376	2	DIODE-GEN PRP 35V 50MA DO-7	28480	1901-0376
A3A9CR2	1901-0376		DIODE-GEN PRP 35V 50MA DO-7	28480	1901-0376
A3A9CR3	1901-0535	1	DIODE-SCHOTTKY	28480	1901-0535
A3A9J1	1250-0543	2	CONNECTOR-RF 8M-8NP M PC 50-OHM	0576I	51-053-0000
A3A9J2	1250-0543		CONNECTOR-RF 8M-8NP M PC 50-OHM	0576I	51-053-0000
A3A9L1	9180-0096	1	COIL-MLD 1UH 10% Q=50 .155DX,375LG	0217B	15-4425-6K
A3A9L2	9100-1629	2	COIL-MLD 47UH 5% Q=55 .155DX,375LG	0217B	15-1315-4J
A3A9L3	9100-1629		COIL-MLD 47UH 5% Q=55 .155DX,375LG	0217B	15-1315-4J
A3A9L4	9180-0210	1	COIL-MLD 100UH 5% Q=50 .155DX,375LG	0217B	15-1315-12J
A3A9Q1	1853-0075	2	TRANSISTOR-DUAL PNP PD=400MW	28480	1853-0075
A3A9Q2	1854-0475	4	TRANSISTOR-DUAL NPN PD=750MW	28480	1854-0475
A3A9Q3	1854-0475		TRANSISTOR-DUAL NPN PD=750MW	28480	1854-0475
A3A9Q4	1855-0050	3	TRANSISTOR-JFET DUAL N-CHAN D-MODE 8I	28480	1855-0050
A3A9Q5	1854-0019	2	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A3A9Q6	1855-0241	2	TRANSISTOR MOSFET N-CHAN E-MODE TO-72 8I	0291J	80215
A3A9Q7	1853-0316	1	TRANSISTOR-DUAL PNP PD=500MW	28480	1853-0316
A3A9Q8	1853-0075		TRANSISTOR-DUAL PNP PD=400MW	28480	1853-0075
A3A9Q9	1853-0034	1	TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A3A9Q10	1854-0475		TRANSISTOR-DUAL NPN PD=750MW	28480	1854-0475
A3A9Q11	1855-0050		TRANSISTOR-JFET DUAL N-CHAN D-MODE 8I	28480	1855-0050
A3A9Q12	1853-0322	1	TRANSISTOR PNP 2N2946A 8I TO-46 PD=400MW	0169H	2N2946A
A3A9Q13	1855-0050		TRANSISTOR-JFET DUAL N-CHAN D-MODE 8I	28480	1855-0050
A3A9Q14	1855-0241		TRANSISTOR MOSFET N-CHAN E-MODE TO-72 8I	0291J	80215
A3A9Q15	1854-0404	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A3A9Q16	1854-0475		TRANSISTOR-DUAL NPN PD=750MW	28480	1854-0475
A3A9R1	0698-3441	3	RESISTOR 215 1% .125W F TC=0+-100	0329B	C4-1/8-T0-215R-F
A3A9R2	0698-3440	7	RESISTOR 196 1% .125W F TC=0+-100	0329B	C4-1/8-T0-196R-F
A3A9R3	0757-0442	4	RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
A3A9R4	0757-0438		RESISTOR 9.1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-9111-F
A3A9R5	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A9R6	0757-0280	6	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
A3A9R7	0757-0274	2	RESISTOR 1.21K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1213-F
A3A9R8	0698-0083	1	RESISTOR 1.96K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1961-F
A3A9R9	0698-3440	1	RESISTOR 196 1% .125W F TC=0+-100	03298	C4-1/8-T0-196R-F
A3A9R10	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A3A9R11	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A3A9R12	0757-0346	1	RESISTOR 10 1% .125W F TC=0+-100	03298	C4-1/8-T0-10R0-F
A3A9R13	0757-0465	2	RESISTOR 100K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1003-F
A3A9R14	0757-0279	4	RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3161-F
A3A9R15	0698-3157	7	RESISTOR 19.6K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1962-F
A3A9R16	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1962-F
A3A9R17	0698-3439	1	RESISTOR 178 1% .125W F TC=0+-100	03298	C4-1/8-T0-178R-F
A3A9R18	0698-3440	1	RESISTOR 196 1% .125W F TC=0+-100	03298	C4-1/8-T0-196R-F
A3A9R19	2100-3083	1	RESISTOR-TMR 20 20X C SIDE-ADJ 17-TRN	73138	89PR20
A3A9R20	0698-3441	1	RESISTOR 215 1% .125W F TC=0+-100	03298	C4-1/8-T0-215R-F
A3A9R21	0698-3440	1	RESISTOR 196 1% .125W F TC=0+-100	03298	C4-1/8-T0-196R-F
A3A9R22	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A3A9R23	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5111-F
A3A9R24	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A3A9R25	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
A3A9R26	0757-0274	1	RESISTOR 1.21K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1213-F
A3A9R27	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5111-F
A3A9R28	0757-0416	2	RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A3A9R29	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1962-F
A3A9R30	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1962-F
A3A9R31	0757-0401	5	RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A3A9R32	0757-0279	1	RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3161-F
A3A9R33	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1962-F
A3A9R34	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	03298	C4-1/8-T0-2151-F
A3A9R35	0757-0279	1	RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3161-F
A3A9R36	2100-3161	3	RESISTOR-TMR 20K 10X C SIDE-ADJ 17-TRN	73138	89PR20K
A3A9R37	0698-3160	2	RESISTOR 31.6K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3162-F
A3A9R38	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A3A9R39	2100-3082	2	RESISTOR-TMR 90 20X C SIDE-ADJ 17-TRN	73138	89PR50
A3A9R40	0698-3136	2	RESISTOR 17.8K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1782-F
A3A9R41	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A3A9R42	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A3A9R43	0698-3160	1	RESISTOR 31.6K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3162-F
A3A9R44	2100-3161	1	RESISTOR-TMR 20K 10X C SIDE-ADJ 17-TRN	73138	89PR20K
A3A9R45	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A3A9R46	0698-3136	1	RESISTOR 17.8K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1782-F
A3A9R47	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5111-F
A3A9R48	0757-0289	1	RESISTOR 13.3K 1% .125W F TC=0+-100	0299E	MFC1/8-T0-1332-F
A3A9R49	0757-0440	1	RESISTOR 7.5K 1% .125W F TC=0+-100	03298	C4-1/8-T0-7501-F
A3A9R50	0757-1094	1	RESISTOR 1.47K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1471-F
A3A9R51	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
A3A9R52	2100-3052	1	RESISTOR-TMR 90 20X C SIDE-ADJ 17-TRN	73138	89PR50
A3A9R53	0698-0085	1	RESISTOR 2.61K 1% .125W F TC=0+-100	03298	C4-1/8-T0-2611-F
A3A9R54	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1962-F
A3A9R55	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1962-F
A3A9R56	0757-0422	1	RESISTOR 909 1% .125W F TC=0+-100	03298	C4-1/8-T0-909R-F
A3A9R57	2100-3095	1	RESISTOR-TMR 200 10X C SIDE-ADJ 17-TRN	73138	89PR200
A3A9R58	0757-0465	1	RESISTOR 100K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1003-F
A3A9R59	2100-3161	1	RESISTOR-TMR 20K 10X C SIDE-ADJ 17-TRN	73138	89PR20K
A3A9R60	0757-0288	1	RESISTOR 9.09K 1% .125W F TC=0+-100	0299E	MFC1/8-T0-9091-F
A3A9R61	0757-0441	1	RESISTOR 8.25K 1% .125W F TC=0+-100	03298	C4-1/8-T0-8251-F
A3A9R62			NOT ASSIGNED		
A3A9R63			NOT ASSIGNED		
A3A9R64	0757-0279	1	RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3161-F
A3A9R65	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
A3A9R66	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
A3A9R67	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A3A9R68	0757-0417	1	RESISTOR 562 1% .125W F TC=0+-100	03298	C4-1/8-T0-562R-F
A3A9R69	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A3A9R70	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
A3A9R71	0698-3441	1	RESISTOR 215 1% .125W F TC=0+-100	03298	C4-1/8-T0-215R-F
A3A9TP1	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535
A3A9TP2	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535
A3A9TP3	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535
A3A9TP4	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535
A3A9TP5	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535
A3A9TP6	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535
A3A9TP7	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535
A3A9TP8	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535
A3A9TP9	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535
A3A9TP10	0360-0535	10	TERMINAL, TEST POINT	28480	0360-0535

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
ASA9U1	1826-0415	1	IC SWITCH	0291J	8D50005
ASA9U2	1810-0207	1	NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	0248C	750-81-R22K
ASA9U3	1810-0037	1	NETWORK-RES 16-PIN-DIP .1-PIN-SPCG	0248C	760 SERIES/16 PIN
ASA9U4	1826-0026	2	IC COMPARATOR	0340F	LM311H
ASA9U5	1826-0026		IC COMPARATOR	0340F	LM311H
ASA9U6	1826-0089	1	IC 2525 OP AMP	0379I	HA2-2525-5
ASA9U7	1810-0205	1	NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	0248C	750-81-R4.7K
ASA9U8	1820-0471	1	IC INV TTL HEX 1-INP	0223G	7406PC
ASA9U9	1820-1281	1	IC DCDR TTL LS 2-TO-4-LINE DUAL 2-INP	0379D	AM74L0139
ASA9U10	1820-1202	1	IC GATE TTL LS NAND TPL 3-INP	0223G	9L610PC
ASA9U11	1820-1197	1	IC GATE TTL LS NAND QUAD 2-INP	0169H	SN74L800N
ASA9U12	1820-1423	1	IC MV TTL LS MONOSTBL RETRIG DUAL	0169H	SN74L8123N
ASA9U13	1820-1112	1	IC FF TTL LS D-TYPE POS-EDGE-TRIG	0169H	SN74L874N
			ASA9 MISCELLANEOUS PARTS		
	1480-0073	2	PIN:DRIVE 0.250" LG .062" DIA	28480	1480-0073
	4040-0756	2	EXTRACTOR-PC BOARD WHT POLYC	28480	4040-0756

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3A10	85662-60015	1	BOARD ASSEMBLY,DIGITAL STORAGE MOTHER BD (INCLUDES W2 AND W3)	28480	85662-60015
A3A10J1	1200-0508	1	SOCKET-IC 14-CONT DIP-SLDR	28480	1200-0508
A3A10J2	1251-4827	1	CONNECTOR 50-PIN M POST TYPE	28480	1251-4827
A3A10J3	1251-4804	1	CONNECTOR 4-PIN M POST TYPE	28480	1251-4804
A3XA1P1	1251-2026	14	CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA1P2	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA2P1	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA2P2	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA3P1	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA3P2	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA4P1	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA5P1	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA6P1	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA6P2	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA7P1	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA7P2	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA8P1	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A3XA9P1	1251-2026		CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A1	85662-60011	1	BOARD ASSEMBLY, VIDEO PROCESSOR	28480	85662-60011
A4A1C1	0180-0197	2	CAPACITOR-FXD 2.2UF+10% 20VDC TA	56289	150D225X9020A2
A4A1C2	0160-2055	9	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A1C3	0180-0197		CAPACITOR-FXD 2.2UF+10% 20VDC TA	56289	150D225X9020A2
A4A1C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A1C5	0160-0945	1	CAPACITOR-FXD 910PF +-5% 100VDC MICA	28480	0160-0945
A4A1C6	0160-0155	1	CAPACITOR-FXD 3300PF +-10% 200VDC POLYE	28480	0160-0155
A4A1C7	0160-0161	1	CAPACITOR-FXD .01UF +-10% 200VDC POLYE	28480	0160-0161
A4A1C8	0160-0163	1	CAPACITOR-FXD .033UF +-10% 200VDC POLYE	28480	0160-0163
A4A1C9	0160-0168	1	CAPACITOR-FXD .1UF +-10% 200VDC POLYE	28480	0160-0168
A4A1C10	0180-2205	1	CAPACITOR-FXD .33UF+-10% 35VDC TA	56289	150D334X9035A2
A4A1C11	0180-0291	1	CAPACITOR-FXD 1UF+-10% 35VDC TA	56289	150D105X9035A2
A4A1C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A1C13			NOT ASSIGNED		
A4A1C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A1C15	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A1C16	0180-0228	2	CAPACITOR-FXD 22UF+-10% 15VDC TA	56289	150D226X9015B2
A4A1C17	0180-0229	1	CAPACITOR-FXD 33UF+-10% 10VDC TA	56289	150D336X9010B2
A4A1C18	0180-0228		CAPACITOR-FXD 22UF+-10% 15VDC TA	56289	150D226X9015B2
A4A1C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A1C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A1C21	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A1C22	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A1C23	0160-0195	1	CAPACITOR-FXD 130PF +-5% 300VDC MICA	72136	DM15F131J0300MV1CR
A4A1CR1	1901-0535	1	DIODE-SCHOTTKY	28480	1901-0535
A4A1CR2	1901-0179	2	DIODE-SWITCHING 15V 50MA 750PS DO-7	28480	1901-0179
A4A1CR3	1901-0179		DIODE-SWITCHING 15V 50MA 750PS DO-7	28480	1901-0179
A4A1J1	1250-0690	4	CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A4A1J2	1250-0690		CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A4A1J3	1250-0690		CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A4A1J4	1250-0690		CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A4A1L1	9140-0114	2	COIL-MLD 10UH 10% Q=55 .155DX.375LG-NOM	28480	9140-0114
A4A1L2	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX.375LG-NOM	28480	9140-0114
A4A1L3	9100-1618	3	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A1L4	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A1L5	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A1Q1	1853-0281	5	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	04713	2N2907A
A4A1Q2	1854-0404	12	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q3	1855-0050	1	TRANSISTOR-JFET DUAL N-CHAN D-MODE 8I	28480	1855-0050
A4A1Q4	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q5	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q6	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q7	1855-0213	1	TRANSISTOR-JFET DUAL 2N5912 N-CHAN	17856	2N5912
A4A1Q8	1853-0316	1	TRANSISTOR-DUAL PNP PD=500MW	28480	1853-0316
A4A1Q9	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q10	1853-0281		TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	04713	2N2907A
A4A1Q11	1853-0281		TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	04713	2N2907A
A4A1Q12	1853-0281		TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	04713	2N2907A
A4A1Q13	1853-0281		TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	04713	2N2907A
A4A1Q14	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q15	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q16	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q17	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q18	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q19	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1Q20	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A1R1	0698-3155	9	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A4A1R2	2100-3109	1	RESISTOR-TRMR 2K 10% C SIDE-ADJ 17-TRN	02111	43P202
A4A1R3	0698-3151	1	RESISTOR 2.87K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2871-F
A4A1R4	0757-0442	6	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A1R5	0698-6880	1	RESISTOR 16K .5% .125W F TC=0+-50	28480	0698-6880
A4A1R6	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A1R7	0698-6755	2	RESISTOR 8K .5% .125W F TC=0+-50	24546	NC4-1/8-T2-8001-D
A4A1R8	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A1R9	0698-6755		RESISTOR 8K .5% .125W F TC=0+-50	24546	NC4-1/8-T2-8001-D
A4A1R10	0757-0290	2	RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-6191-F
A4A1R11	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A1R12	0757-0418	1	RESISTOR 619 1% .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A4A1R13	0757-0280	2	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4A1R14	2100-3123	1	RESISTOR-TRMR 500 10% C SIDE-ADJ 17-TRN	02111	43P501
A4A1R15	0698-0084	7	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A1R16	0757-0394	3	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A4A1R17	0698-3452	1	RESISTOR 147K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1473-F
A4A1R18	0698-3155	1	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A4A1R19	0698-3158	5	RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A4A1R20	0698-3158	1	RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A4A1R21	0698-3240	2	RESISTOR 500 .25% .125W F TC=0+-50	28480	0698-3240
A4A1R22	0698-7799	3	RESISTOR 2K .25% .125W F TC=0+-100	19701	MF4C1/8-T0-2001-C
A4A1R23	0698-7799	1	RESISTOR 2K .25% .125W F TC=0+-100	19701	MF4C1/8-T0-2001-C
A4A1R24	0698-7839	1	RESISTOR 222 .5% .125W F TC=0+-50	19701	MF4C1/8-T2-222R-D
A4A1R25	0698-3240	1	RESISTOR 500 .25% .125W F TC=0+-50	28480	0698-3240
A4A1R26	0698-7799	1	RESISTOR 2K .25% .125W F TC=0+-100	19701	MF4C1/8-T0-2001-C
A4A1R27	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A1R28	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A1R29	0757-0200	1	RESISTOR 5.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5621-F
A4A1R30	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A1R31	0698-3444	1	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A4A1R32	2100-3122	1	RESISTOR-TRMR 100 10% C 8IDE-ADJ 17-TRN	02111	43P101
A4A1R33	0698-3150	1	RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2371-F
A4A1R34	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4A1R35	0698-3155	1	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A4A1R36	2100-3154	1	RESISTOR-TRMR 1K 10% C 8IDE-ADJ 17-TRN	02111	43P102
A4A1R37	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A1R38	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A1R39	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A1R40	0698-0085	2	RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2611-F
A4A1R41	0698-0085	1	RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2611-F
A4A1R42	0757-0290	1	RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-6191-F
A4A1R43	0698-3155	1	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A4A1R44	0698-3158	1	RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A4A1R45	0698-3155	1	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A4A1R46	0698-3158	1	RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A4A1R47	0698-3155	1	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A4A1R48	0698-3158	1	RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A4A1R49	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A1R50	0698-5577	1	RESISTOR 2.5K .5% .125W F TC=0+-100	24546	C4-1/8-T0-2501-D
A4A1R51	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A4A1R52	0698-3155	1	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A4A1R53	0698-3155	1	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A4A1R54	0698-3445	1	RESISTOR 348 1% .125W F TC=0+-100	24546	C4-1/8-T0-348R-F
A4A1R55	0698-3155	1	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A4A1R56	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A1R57	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A4A1R58	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A1TP1	1251-0600	3	CONNECTOR-SGL CONT PIN 1.14-MM-88C-8Z 8Q	28480	1251-0600
A4A1TP2	1251-0600	1	CONNECTOR-SGL CONT PIN 1.14-MM-88C-8Z 8Q	28480	1251-0600
A4A1TP3	1251-0600	1	CONNECTOR-SGL CONT PIN 1.14-MM-88C-8Z 8Q	28480	1251-0600
A4A1U1	1826-0092	1	IC OP AMP T0-99	28480	1826-0092
A4A1U2	1826-0089	1	IC 2525 OP AMP T0-99	29832	1322
A4A1U3	1826-0021	1	IC OP AMP T0-99	27014	LM310M
A4A1U4	1826-0417	1	IC SWITCH 16-DIP-C	27014	NP13333D
A4A1U5	1810-0215	1	NETWORK-RES 8-PIN-81P .1-PIN-SPCG	11236	750-81-R75K
A4A1U6	1826-0261	1	IC 741 OP AMP T0-99	28480	1826-0261
A4A1U7	1826-0154	1	IC SW CMOS 2-CHAN ANAL	17856	D62008A
A4A1U8	1820-1216	1	IC DCDR TTL LS 3-TO-8-LINE 3-INP	01295	8N74LS33N
A4A1U9	1810-0231	1	NETWORK-RES 8-PIN-81P .1-PIN-SPCG	11236	750-81-R2.2K
A4A1U10	1820-1200	1	IC INV TTL LS HEX	01295	8N74LS05N
A4A1U11	1820-1272	1	IC BFR TTL LS NOR QUAD 2-INP	01295	8N74LS33N
A4A1VR1	1902-0686	1	DIODE-ZNR 1N825 6.2V 2% D0-7 PD=.4W	04713	1N825
			A4A1 MISCELLANEOUS PARTS		
	86701-4000	2	EXTRACTOR, PC BOARD	28480	86701-40001

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A2	85662-60096	1	LOG AMPLIFIER (INCLUDES A4A2 AND A4A3)	28480	85662-60096
A4A2	85662-60097		RESTORED 85662-60096	28480	85662-60097
A4A2	85662-60010	1	BOARD ASSEMBLY, LOG AMPLIFIER-DETECTOR	28480	85662-60010
A4A2C1			NOT ASSIGNED		
A4A2C2			NOT ASSIGNED		
A4A2C3	0160-2055	50	CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C4	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C5	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C6	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C7	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C8	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C9	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C10	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C11	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C12	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C13	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C14	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C15	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C16	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C17	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C18	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C19	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C20	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C21	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C22	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C23	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C24	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C25	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C26	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C27	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C28	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C29	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C30	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C31			NOT ASSIGNED		
A4A2C32	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C33	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C34	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C35			NOT ASSIGNED		
A4A2C36	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C37	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C38	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C39	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C40	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C41	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C42	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C43	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C44	0160-4084	1	CAPACITOR-FXD .1UF +-20X 50VDC CER	28480	0160-4084
A4A2C45			NOT ASSIGNED		
A4A2C46	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C47			NOT ASSIGNED		
A4A2C48	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C49	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C50	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C51	0160-2262	1	CAPACITOR-FXD 16PF +-5X 500VDC CER0+-30	28480	0160-2262
A4A2C52	0160-2200	1	CAPACITOR-FXD 43PF +-5X 300VDC	28480	0160-2200
A4A2C53	0160-2307	1	CAPACITOR-FXD 47PF +-5X 300VDC	28480	0160-2307
A4A2C54	0160-2205	1	CAPACITOR-FXD 120PF +-5X 300VDC MICA0+70	28480	0160-2205
A4A2C55	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C56			NOT ASSIGNED		
A4A2C57			NOT ASSIGNED		
A4A2C58			NOT ASSIGNED		
A4A2C59	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C60			NOT ASSIGNED		
A4A2C61			NOT ASSIGNED		
A4A2C62	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C63	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C64	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C65	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A2C66	0180-0228	1	CAPACITOR-FXD 22UF+-10X 15VDC TA	0420J	150D226X9015B2
A4A2C67			NOT ASSIGNED		
A4A2C68	0160-4297	7	CAPACITOR-FXD .022UF +80-20X 100VDC CER	0420J	C023F101H223Z822-CDH
A4A2C69	0160-4297		CAPACITOR-FXD .022UF +80-20X 100VDC CER	0420J	C023F101H223Z822-CDH
A4A2C70	0160-4297		CAPACITOR-FXD .022UF +80-20X 100VDC CER	0420J	C023F101H223Z822-CDH
A4A2C71	0160-4297		CAPACITOR-FXD .022UF +80-20X 100VDC CER	0420J	C023F101H223Z822-CDH

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
AAA2C72	0160-4297		CAPACITOR-PXD .022UF +80-20X 100VDC CER	0420J	C023F101H223Z022-CDM
AAA2C73	0160-4297		CAPACITOR-PXD .022UF +80-20X 100VDC CER	0420J	C023F101H223Z022-CDM
AAA2C74	0160-2055		CAPACITOR-PXD .01UF +80-20X 100VDC CER	28480	0160-2055
AAA2C75	0160-4297		CAPACITOR-PXD .022UF +80-20X 100VDC CER	0420J	C023F101H223Z022-CDM
AAA2CR1			NOT ASSIGNED		
AAA2CR2			NOT ASSIGNED		
AAA2CR3			NOT ASSIGNED		
AAA2CR4	1901-1085	8	DIODE-SCHOTTKY	28480	1901-1085
AAA2CR5	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AAA2CR6	1901-1070	8	DIODE:PIN	28480	1901-1070
AAA2CR7	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AAA2CR8	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AAA2CR9	1901-1070		DIODE:PIN	28480	1901-1070
AAA2CR10	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AAA2CR11	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AAA2CR12	1901-1070		DIODE:PIN	28480	1901-1070
AAA2CR13	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AAA2CR14	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AAA2CR15	1901-1070		DIODE:PIN	28480	1901-1070
AAA2CR16	1901-0047	11	DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2CR17	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2CR18	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2CR19	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2CR20	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2CR21	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2CR22			NOT ASSIGNED		
AAA2CR23			NOT ASSIGNED		
AAA2CR24			NOT ASSIGNED		
AAA2CR25			NOT ASSIGNED		
AAA2CR26	1901-1070		DIODE:PIN	28480	1901-1070
AAA2CR27	1901-1070		DIODE:PIN	28480	1901-1070
AAA2CR28	1901-1070		DIODE:PIN	28480	1901-1070
AAA2CR29	1901-1070		DIODE:PIN	28480	1901-1070
AAA2CR30	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2CR31	1910-0016	3	DIODE-GE 60V 60MA 1US DO-7	28480	1910-0016
AAA2CR32	1910-0016		DIODE-GE 60V 60MA 1US DO-7	28480	1910-0016
AAA2CR33	1910-0016		DIODE-GE 60V 60MA 1US DO-7	28480	1910-0016
A4A2CR34			NOT ASSIGNED		
A4A2CR35	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
A4A2CR36	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2CR37	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2CR38	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AAA2E1	9170-0029	8	CORE-SHIELDING BEAD	01888	56-590-65A2/4A
AAA2E2	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
AAA2E3	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
AAA2E4	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
AAA2E5	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
AAA2E6	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
AAA2E7	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
AAA2E8	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
AAA2J1	1250-0690	2	CONNECTOR-RF SMB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
AAA2J2	1250-0690		CONNECTOR-RF SMB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
AAA2L1	9140-0105	4	COIL-MLD 5.6UH 10X Q=45 .155DX,375LG	02178	15-4435-1K
AAA2L2	9140-0105	5	COIL-MLD 8.2UH 10X Q=50 .155DX,375LG	28480	9140-0105
AAA2L3	9140-0105		COIL-MLD 8.2UH 10X Q=50 .155DX,375LG	28480	9140-0105
AAA2L4	9140-0105		COIL-MLD 8.2UH 10X Q=50 .155DX,375LG	28480	9140-0105
AAA2L5	9140-0105		COIL-MLD 8.2UH 10X Q=50 .155DX,375LG	28480	9140-0105
AAA2L6	9100-1623	2	COIL-MLD 27UH 5X Q=60 .155DX,375LG	02178	15-4435-2J
AAA2L7	9100-1623		COIL-MLD 27UH 5X Q=60 .155DX,375LG	02178	15-4435-2J
AAA2L8	9100-1618		COIL-MLD 5.6UH 10X Q=45 .155DX,375LG	02178	15-4435-1K
AAA2L9	9100-1618		COIL-MLD 5.6UH 10X Q=45 .155DX,375LG	02178	15-4435-1K
AAA2L10	9100-1618		COIL-MLD 5.6UH 10X Q=45 .155DX,375LG	02178	15-4435-1K
AAA2L11			NOT ASSIGNED		
AAA2L12	9140-0105		COIL-MLD 8.2UH 10X Q=50 .155DX,375LG	28480	9140-0105
AAA2L13	9140-0114	1	COIL-MLD 10UH 10X Q=55 .155DX,375LG	02178	15-4445-2K
AAA2L14	9140-0178	1	COIL-MLD 12UH 10X Q=65 .155DX,375LG	02178	15-4445-3K
AAA2Q1	1853-0075	1	TRANSISTOR-DUAL PNP PD=400MW	28480	1853-0075
AAA2Q2	1854-0345	2	TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	02038	2N5179
AAA2Q3	1853-0015	1	TRANSISTOR PNP 8I PD=200MW FT=500MHZ	28480	1853-0015
AAA2Q4	1854-0345		TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	02038	2N5179
AAA2Q5	1853-0405	1	TRANSISTOR PNP 2N4209 8I TO-18 PD=300MW	28480	1853-0405
AAA2Q6	1854-0019	10	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
AAA2Q7	1853-0281	1	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	02038	2N2907A
AAA2Q8	1854-0404	4	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
AAA2Q9	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
AAA2Q10	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A2011	1854-0637	1	TRANSISTOR NPN 2N2219A SI TO-5 PD=800MW	28480	1854-0637
A4A2012	1854-0475	1	TRANSISTOR=DUAL NPN PD=750MW	28480	1854-0475
A4A2013	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A2014	1854-0019		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A4A2015	1854-0019		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A4A2016	1854-0019		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A4A2017	1854-0019		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A4A2018	1854-0019		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A4A2019	1854-0019		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A4A2020	1854-0019		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A4A2021	1854-0019		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A4A2022	1854-0019		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A4A2R1	0757-0346	9	RESISTOR 10 1X .125W F TC0+100	03298	C4-1/8-T0-10R0-F
A4A2R2	0757-0346		RESISTOR 10 1X .125W F TC0+100	03298	C4-1/8-T0-10R0-F
A4A2R3	0757-0346		RESISTOR 10 1X .125W F TC0+100	03298	C4-1/8-T0-10R0-F
A4A2R4	0757-0346		RESISTOR 10 1X .125W F TC0+100	03298	C4-1/8-T0-10R0-F
A4A2R5	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R6	0757-0279	14	RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R7	0757-0402		RESISTOR 110 1X .125W F TC0+100	03298	C4-1/8-T0-111-F
A4A2R8	0698-3136	8	RESISTOR 17.8K 1X .125W F TC0+100	03298	C4-1/8-T0-1782-F
A4A2R9	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	03298	C4-1/8-T0-1782-F
A4A2R10	0698-3444	5	RESISTOR 316 1X .125W F TC0+100	03298	C4-1/8-T0-316R-F
A4A2R11	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R12	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R13	0757-0280	6	RESISTOR 1K 1X .125W F TC0+100	03298	C4-1/8-T0-1001-F
A4A2R14	2100-3161	1	RESISTOR=TRMR 20K 10X C SIDE=ADJ 17-TRN	73130	899R20K
A4A2R15	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R16	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R17	0698-3444		RESISTOR 316 1X .125W F TC0+100	03298	C4-1/8-T0-316R-F
A4A2R18*	0757-0402	2	RESISTOR 110 1X .125W F TC0+100	03298	C4-1/8-T0-111-F
A4A2R19	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R20	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	03298	C4-1/8-T0-1782-F
A4A2R21	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	03298	C4-1/8-T0-1782-F
A4A2R22	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R23	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R24	0757-0439	11	RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R25	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R26	0698-3438	1	RESISTOR 147 1X .125W F TC0+100	03298	C4-1/8-T0-147R-F
A4A2R27	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	03298	C4-1/8-T0-1782-F
A4A2R28	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	03298	C4-1/8-T0-1782-F
A4A2R29	0698-3444		RESISTOR 316 1X .125W F TC0+100	03298	C4-1/8-T0-316R-F
A4A2R30	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R31	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R32	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R33			NOT ASSIGNED		
A4A2R34	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R35	0757-1094	1	RESISTOR 1.47K 1X .125W F TC0+100	03298	C4-1/8-T0-1471-F
A4A2R36*	0757-0405	1	RESISTOR 162 1X .125W F TC0+100	03298	C4-1/8-T0-162R-F
A4A2R37	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R38	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	03298	C4-1/8-T0-1782-F
A4A2R39	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	03298	C4-1/8-T0-1782-F
A4A2R40	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R41	0698-3444		RESISTOR 316 1X .125W F TC0+100	03298	C4-1/8-T0-316R-F
A4A2R42	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R43	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R44	0698-3444		RESISTOR 316 1X .125W F TC0+100	03298	C4-1/8-T0-316R-F
A4A2R45	0757-0280		RESISTOR 1K 1X .125W F TC0+100	03298	C4-1/8-T0-1001-F
A4A2R46	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	03298	C4-1/8-T0-6811-F
A4A2R47	0757-0346		RESISTOR 10 1X .125W F TC0+100	03298	C4-1/8-T0-10R0-F
A4A2R48	0757-0346		RESISTOR 10 1X .125W F TC0+100	03298	C4-1/8-T0-10R0-F
A4A2R49	0757-0346		RESISTOR 10 1X .125W F TC0+100	03298	C4-1/8-T0-10R0-F
A4A2R50	0757-0442	14	RESISTOR 10K 1X .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A2R51			NOT ASSIGNED		
A4A2R52			NOT ASSIGNED		
A4A2R53			NOT ASSIGNED		
A4A2R54			NOT ASSIGNED		
A4A2R55			NOT ASSIGNED		
A4A2R56	0757-0438	1	RESISTOR 5.11K 1X .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A2R57	0757-0458	2	RESISTOR 51.1K 1X .125W F TC0+100	03298	C4-1/8-T0-5112-F
A4A2R58	0757-0402		RESISTOR 10K 1X .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A2R59	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A2R60	0757-0442		RESISTOR 10K 1X .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A2R61	2100-1972	1	RESISTOR=TRMR 20K 10X HW SIDE=ADJ 20-TRN	03740	300SP-1-203
A4A2R62*	0698-3449	1	RESISTOR 28.7K 1X .125W F TC0+100	03298	C4-1/8-T0-2872-F
A4A2R63	0757-0442		RESISTOR 10K 1X .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A2R64	0757-0394	2	RESISTOR 51.1 1X .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A2R65	0757-0280		RESISTOR 1K 1X .125W F TC0+100	03298	C4-1/8-T0-1001-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A2R66	0757-0442	3	RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R67	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A2R68		1	NOT ASSIGNED		
A4A2R69	0698-3437		RESISTOR 133 1% .125W F TC=0+-100	03298	C4-1/8-T0-133R-F
A4A2R70	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
A4A2R71	0698-3446	1	RESISTOR 383 1% .125W F TC=0+-100	03298	C4-1/8-T0-383R-F
A4A2R72	0757-0442	4	RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R73	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A4A2R74	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A4A2R75	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A2R76	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A2R77	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R78	0757-0444	1	RESISTOR 12.1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1212-F
A4A2R79	2100-3103	1	RESISTOR-TRMR 10K 10% C SIDE-ADJ 17-TRN	73138	89PR10K
A4A2R80	0757-0440	1	RESISTOR 7.5K 1% .125W F TC=0+-100	03298	C4-1/8-T0-7501-F
A4A2R81	0757-0279	1	RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3161-F
A4A2R82	0698-3442		RESISTOR 237 1% .125W F TC=0+-100	03298	C4-1/8-T0-237R-F
A4A2R83	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A4A2R84	0757-0439		RESISTOR 6.81K 1% .125W F TC=0+-100	03298	C4-1/8-T0-6811-F
A4A2R85	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	03298	C4-1/8-T0-10R0-F
A4A2R86*	0698-3155	1	RESISTOR 4.64K 1% .125W F TC=0+-100	03298	C4-1/8-T0-4641-F
A4A2R87	0698-3152	1	RESISTOR 3.48K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3481-F
A4A2R88*	0698-3158	1	RESISTOR 23.7K 1% .125W F TC=0+-100	03298	C4-1/8-T0-2372-F
A4A2R89*	0698-3454	1	RESISTOR 215K 1% .125W F TC=0+-100	03298	C4-1/8-T0-2153-F
A4A2R90	0757-0458	1	RESISTOR 51.1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5112-F
A4A2R91	2100-2852	1	RESISTOR-TRMR 1K 10% HW SIDE-ADJ 20-TRN	0374D	305SP-1102
A4A2R92	0698-3154	1	RESISTOR 4.22K 1% .125W F TC=0+-100	03298	C4-1/8-T0-4221-F
A4A2R93	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
A4A2R94	0683-0275	1	RESISTOR 2.7 5% .25W FC TC=400/+500	28480	0683-0275
A4A2R95	0698-3153	2	RESISTOR 3.83K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3831-F
A4A2R96*	0698-3161	1	RESISTOR 38.3K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3832-F
A4A2R97*	0698-3260	1	RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A4A2R98	0698-3153	1	RESISTOR 3.83K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3831-F
A4A2R99*	0757-0442	1	RESISTOR 75K 1% .125W F TC=0+-100	03298	C4-1/8-T0-7502-F
A4A2R100	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R101	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
A4A2R102	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R103	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1003-F
A4A2R104	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R105	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3161-F
A4A2R106	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A2R107	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R108	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R109	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R110	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
A4A2R111	0757-0123	1	RESISTOR 34.8K 1% .125W F TC=0+-100	28480	0757-0123
A4A2R112	0757-0395	1	RESISTOR 56.2 1% .125W F TC=0+-100	03298	C4-1/8-T0-56R2-F
A4A2R113	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A4A2R114	0757-0346	1	RESISTOR 10 1% .125W F TC=0+-100	03298	C4-1/8-T0-10R0-F
A4A2R115	0757-0279	1	RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3161-F
A4A2TP1	1251-0600	8	CONTACT-CONV V/W-POST-TYPE MALE DP5LDR	28480	1251-0600
A4A2TP2	1251-0600		CONTACT-CONV V/W-POST-TYPE MALE DP5LDR	28480	1251-0600
A4A2TP3	1251-0600		CONTACT-CONV V/W-POST-TYPE MALE DP5LDR	28480	1251-0600
A4A2TP4	1251-0600		CONTACT-CONV V/W-POST-TYPE MALE DP5LDR	28480	1251-0600
A4A2TP5	1251-0600		CONTACT-CONV V/W-POST-TYPE MALE DP5LDR	28480	1251-0600
A4A2TP6	1251-0600	1	CONTACT-CONV V/W-POST-TYPE MALE DP5LDR	28480	1251-0600
A4A2TP7	1251-0600		CONTACT-CONV V/W-POST-TYPE MALE DP5LDR	28480	1251-0600
A4A2TP8	1251-0600		CONTACT-CONV V/W-POST-TYPE MALE DP5LDR	28480	1251-0600
A4A2U1	1826-0092	1	IC OP AMP	28480	1826-0092
A4A2VR1	1902-0126	2	DIODE-ZNR 2.61V 5% DO-7 PD=.4W TC=-.073X	02038	82 10939-14
A4A2VR2	1902-0041	1	DIODE-ZNR 5.11V 5% DO-7 PD=.4W TC=-.009X	02038	82 10939-98
A4A2VR3	1902-0126	1	DIODE-ZNR 2.61V 5% DO-7 PD=.4W TC=-.073X	02038	82 10939-14
			A4A2 MISCELLANEOUS PARTS		
	86701-40001	1	EXTRACTOR-PC BOARD	28480	86701-40001

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A3	85662-60096		LOG AMPLIFIER (INCLUDES A4A2 AND A4A3)	28480	85662-60096
A4A3	85662-60097	1	RESTORED 85662-60096	28480	85662-60097
A4A3C1	0160-2055	46	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C2	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C3	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C6	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C7	0160-2244	1	CAPACITOR-FXD 3PF +/- .25PF 500VDC CER	28480	0160-2244
A4A3C8	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C9	0160-2236	2	CAPACITOR-FXD 1PF +/- .25PF 500VDC CER	28480	0160-2236
A4A3C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C15	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C17	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C18	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C21			NOT ASSIGNED		
A4A3C22			NOT ASSIGNED		
A4A3C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C24	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C25	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C26	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C28	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C29	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C30			NOT ASSIGNED		
A4A3C31	0160-4297	6	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101H223Z822-CDM
A4A3C32	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101H223Z822-CDM
A4A3C33	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C34	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C35			NOT ASSIGNED		
A4A3C36			NOT ASSIGNED		
A4A3C37	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101H223Z822-CDM
A4A3C38	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C39	0160-2255	1	CAPACITOR-FXD 8.2PF +/- .25PF 500VDC CER	28480	0160-2255
A4A3C40	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C41	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101H223Z822-CDM
A4A3C42	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C43	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C44	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C45	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C46	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C47	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C48	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C49	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C50	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C51*	0160-3534	1	CAPACITOR-FXD 510PF +/-5% 100VDC MICA	28480	0160-3534
A4A3C52*			FACTORY SELECTED PART-NORMALLY OPEN		
A4A3C53*	0160-0839	1	CAPACITOR FXD 110PF +/-1% 300VDC MICA	28480	0160-0839 I
A4A3C54	0160-0455	1	CAPACITOR-FXD 18PF +/-2% 600VDC CER	28480	0160-0455
A4A3C55	0121-0493	1	CAPACITOR-V AIR DIEL 1.7-11PF 250V	74970	187-0306-105
A4A3C56	0160-2251	1	CAPACITOR-FXD 5.6PF +/- .25PF 500VDC CER	28480	0160-2251
A4A3C57	0160-2236		CAPACITOR-FXD 1PF +/- .25PF 500VDC CER	28480	0160-2236
A4A3C58	0160-2262	1	CAPACITOR-FXD 16PF +/-5% 500VDC CER 0+-30	28480	0160-2262
A4A3C59	0160-2252	1	CAPACITOR-FXD 6.2PF +/- .25PF 500VDC CER	28480	0160-2252
A4A3C60			NOT ASSIGNED		
A4A3C61	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C62	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C63	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C64			NOT ASSIGNED		
A4A3C65	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C66	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101H223Z822-CDM
A4A3C67	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C68	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C69	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C70	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A3C71	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101H223Z822-CDM

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
AA3CR1	1901-0047	7	DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AA3CR2	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AA3CR3	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AA3CR4	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AA3CR5	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AA3CR6	1901-0047	20	DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AA3CR7	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR8	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR9	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR10	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR11	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR12	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR13	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR14	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR15	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR16	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR17	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR18	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR19	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR20	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR21	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR22	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR23	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR24	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR25	1901-1085		DIODE-SCHOTTKY	28480	1901-1085
AA3CR26	1901-1085	4	DIODE-SCHOTTKY	28480	1901-1085
AA3CR27	1901-1070		DIODE:PIN	28480	1901-1070
AA3CR28	1901-1070		DIODE:PIN	28480	1901-1070
AA3CR29	1901-1070		DIODE:PIN	28480	1901-1070
AA3CR30	1901-1070		DIODE:PIN	28480	1901-1070
AA3CR31	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
AA3E1	9170-0029	12	CORE-SHIELDING BEAD	28480	9170-0029
AA3E2	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E3	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E4	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E5	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E6	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E7	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E8	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E9	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E10	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E11	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3E12	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
AA3L1	9140-0105	6	COIL-MLD 8,2UH 10% Q=50 .155DX,375LG-NOM	28480	9140-0105
AA3L2	9140-0105		COIL-MLD 8,2UH 10% Q=50 .155DX,375LG-NOM	28480	9140-0105
AA3L3	9140-0105		COIL-MLD 8,2UH 10% Q=50 .155DX,375LG-NOM	28480	9140-0105
AA3L4	9140-0105		COIL-MLD 8,2UH 10% Q=50 .155DX,375LG-NOM	28480	9140-0105
AA3L5	9140-0105		COIL-MLD 8,2UH 10% Q=50 .155DX,375LG-NOM	28480	9140-0105
AA3L6	9100-1618	6	COIL-MLD 5,6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
AA3L7	9100-1618		COIL-MLD 5,6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
AA3L8	9100-1618		COIL-MLD 5,6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
AA3L9	9100-1618		COIL-MLD 5,6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
AA3L10	9100-1618		COIL-MLD 5,6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
AA3L11	9100-1618		COIL-MLD 5,6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
AA3L12	9100-1623	1	COIL-MLD 27UH 5% Q=60 .155DX,375LG-NOM	28480	9100-1623
AA3L13	9140-0105		COIL-MLD 8,2UH 10% Q=50 .155DX,375LG-NOM	28480	9140-0105
AA3L14	9100-3854		COIL 400NH 5% Q=150 .3DX1,016LG-NOM	28480	9100-3854
AA3L15	9140-0111		COIL-MLD 3,3UH 10% Q=33 .155DX,375LG-NOM	28480	9140-0111
AA3L16	9140-0098		1	COIL-MLD 2,2UH 10% Q=33 .155DX,375LG-NOM	28480	9140-0098
AA3Q1	1854-0345	1	TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	04713	2N5179
AA3Q2	1853-0007	3	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
AA3Q3	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
AA3Q4	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
AA3Q5	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
AA3Q6	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
AA3Q7	1854-0019	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019	
AA3Q8	1854-0019	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019	
AA3Q9	1854-0019	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019	
AA3Q10	1854-0019	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019	
AA3Q11	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
AA3Q12	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
AA3Q13	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
AA3Q14	1854-0546	1	TRANSISTOR NPN 8I TO-72 PD=200MW	28480	1854-0546
AA3Q15	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A3Q16	1854-0404	2	TRANSISTOR NPN 8I TO-18 PDM360MW	28480	1854-0404
A4A3Q17	1854-0404		TRANSISTOR NPN 8I TO-18 PDM360MW	28480	1854-0404
A4A3Q18	1854-0019		TRANSISTOR NPN 8I TO-18 PDM360MW	28480	1854-0019
A4A3Q19	1853-0405	1	TRANSISTOR PNP 2N4209 8I TO-18 PDM300MW	28480	1853-0405
A4A3R1			NOT ASSIGNED		
A4A3R2	0757-0346	6	RESISTOR 10 1X .125W F TC0+100	24546	C4-1/8-T0-10R0-F
A4A3R3			NOT ASSIGNED		
A4A3R4	0757-0346		RESISTOR 10 1X .125W F TC0+100	24546	C4-1/8-T0-10R0-F
A4A3R5	0757-0346		RESISTOR 10 1X .125W F TC0+100	24546	C4-1/8-T0-10R0-F
A4A3R6	0757-0346		RESISTOR 10 1X .125W F TC0+100	24546	C4-1/8-T0-10R0-F
A4A3R7	0757-0346		RESISTOR 10 1X .125W F TC0+100	24546	C4-1/8-T0-10R0-F
A4A3R8	0757-0401	1	RESISTOR 100 1X .125W F TC0+100	24546	C4-1/8-T0-101-F
A4A3R9	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	24546	C4-1/8-T0-6811-F
A4A3R10	0698-3444	7	RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A4A3R11	0698-3439	3	RESISTOR 178 1X .125W F TC0+100	24546	C4-1/8-T0-178R-F
A4A3R12	0698-3429	2	RESISTOR 19.6 1X .125W F TC0+100	03888	PME55-1/8-T0-19R6-F
A4A3R13	0757-0279	11	RESISTOR 3.16K 1X .125W F TC0+100	24546	C4-1/8-T0-3161-F
A4A3R14	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	24546	C4-1/8-T0-3161-F
A4A3R15*	0757-0316	1	RESISTOR 42.2 1X .125W F TC0+100	24546	C4-1/8-T0-42R2-F
A4A3R16	0698-0084	3	RESISTOR 2.15K 1X .125W F TC0+100	24546	C4-1/8-T0-2151-F
A4A3R17	0698-3151	2	RESISTOR 2.07K 1X .125W F TC0+100	24546	C4-1/8-T0-2871-F
A4A3R18			NOT ASSIGNED		
A4A3R19	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	24546	C4-1/8-T0-6811-F
A4A3R20	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A4A3R21	0698-3429		RESISTOR 19.6 1X .125W F TC0+100	03888	PME55-1/8-T0-19R6-F
A4A3R22	0698-3439		RESISTOR 178 1X .125W F TC0+100	24546	C4-1/8-T0-178R-F
A4A3R23	0757-0274	3	RESISTOR 1.21K 1X .125W F TC0+100	24546	C4-1/8-T0-1213-F
A4A3R24	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	24546	C4-1/8-T0-3161-F
A4A3R25*	0757-0394	1	RESISTOR 51.1 1X .125W F TC0+100	24546	C4-1/8-T0-51R1-F
A4A3R26	0698-3151		RESISTOR 2.07K 1X .125W F TC0+100	24546	C4-1/8-T0-2871-F
A4A3R27	0698-0084		RESISTOR 2.15K 1X .125W F TC0+100	24546	C4-1/8-T0-2151-F
A4A3R28			NOT ASSIGNED		
A4A3R29	0698-3440	1	RESISTOR 196 1X .125W F TC0+100	24546	C4-1/8-T0-196R-F
A4A3R30	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A4A3R31	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A4A3R32	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	24546	C4-1/8-T0-6811-F
A4A3R33	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	24546	C4-1/8-T0-3161-F
A4A3R34	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	24546	C4-1/8-T0-3161-F
A4A3R35*	0757-0180	1	RESISTOR 31.6 1X .125W F TC0+100	28480	0757-0180
A4A3R36	0757-0441	2	RESISTOR 8.25K 1X .125W F TC0+100	24546	C4-1/8-T0-8251-F
A4A3R37	0757-0441		RESISTOR 8.25K 1X .125W F TC0+100	24546	C4-1/8-T0-8251-F
A4A3R38	0698-3443	1	RESISTOR 287 1X .125W F TC0+100	24546	C4-1/8-T0-287R-F
A4A3R39	0698-3446	1	RESISTOR 383 1X .125W F TC0+100	24546	C4-1/8-T0-383R-F
A4A3R40	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A4A3R41	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	24546	C4-1/8-T0-6811-F
A4A3R42	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	24546	C4-1/8-T0-3161-F
A4A3R43	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	24546	C4-1/8-T0-3161-F
A4A3R44	0698-3136	4	RESISTOR 17.8K 1X .125W F TC0+100	24546	C4-1/8-T0-1782-F
A4A3R45	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	24546	C4-1/8-T0-1782-F
A4A3R46			NOT ASSIGNED		
A4A3R47*	0757-0439	8	RESISTOR 6.81K 1X .125W F TC0+100	24546	C4-1/8-T0-6811-F
A4A3R48	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A4A3R49	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	24546	C4-1/8-T0-6811-F
A4A3R50	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	24546	C4-1/8-T0-3161-F
A4A3R51	0757-0279		RESISTOR 3.16K 1X .125W F TC0+100	24546	C4-1/8-T0-3161-F
A4A3R52	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	24546	C4-1/8-T0-1782-F
A4A3R53	0698-3136		RESISTOR 17.8K 1X .125W F TC0+100	24546	C4-1/8-T0-1782-F
A4A3R54*	0757-0399	1	RESISTOR 82.5 1X .125W F TC0+100	24546	C4-1/8-T0-82R5-F
A4A3R55			NOT ASSIGNED		
A4A3R56			NOT ASSIGNED		
A4A3R57	0757-0442	6	RESISTOR 10K 1X .125W F TC0+100	24546	C4-1/8-T0-1002-F
A4A3R58			NOT ASSIGNED		
A4A3R59	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	24546	C4-1/8-T0-6811-F
A4A3R60	0698-0084		RESISTOR 2.15K 1X .125W F TC0+100	24546	C4-1/8-T0-2151-F
A4A3R61	0698-0082	2	RESISTOR 464 1X .125W F TC0+100	24546	C4-1/8-T0-4640-F
A4A3R62	0757-0274		RESISTOR 1.21K 1X .125W F TC0+100	24546	C4-1/8-T0-1213-F
A4A3R63	0757-0439		RESISTOR 6.81K 1X .125W F TC0+100	24546	C4-1/8-T0-6811-F
A4A3R64	0698-3439		RESISTOR 178 1X .125W F TC0+100	24546	C4-1/8-T0-178R-F
A4A3R65	0757-0274		RESISTOR 1.21K 1X .125W F TC0+100	24546	C4-1/8-T0-1213-F
A4A3R66*	0757-0462	1	RESISTOR 75K 1X .125W F TC0+100	24546	C4-1/8-T0-7502-F
A4A3R67	2100-3054	1	RESISTOR-TMR 50K 10X C SIDE-ADJ 17-TRN	02111	43P503
A4A3R68	0698-0082		RESISTOR 464 1X .125W F TC0+100	24546	C4-1/8-T0-4640-F
A4A3R69	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A4A3R70	0757-0416	1	RESISTOR 511 1X .125W F TC0+100	24546	C4-1/8-T0-511R-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A3R71	0757-0394		RESISTOR-51.1 1% .125W F TC=0+-100	0329B	C4-1/8-T0-51R1-F
A4A3R72	0757-0280	3	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A4A3R73	0757-0418	1	RESISTOR 619 1% .125W F TC=0+-100	24546	C4-1/8-T0=619R-F
A4A3R74*	0757-0290	1	RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MF4C1/8-T0=6191-F
A4A3R75			NOT ASSIGNED		
A4A3R76	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A4A3R77	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A4A3R78	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A4A3R79*	0698-3450	1	RESISTOR 42.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0=4222-F
A4A3R80*	0757-0278	1	RESISTOR 1.78K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1781-F
A4A3R81:			FACTORY SELECTED PART-NORMALLY OPEN		
A4A3R82	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0=3161-F
A4A3R83	2100-3161	1	RESISTOR-TRMR 20K 10% C SIDE-ADJ 17-TRN	02111	43P203
A4A3R84	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0=3161-F
A4A3R85	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A4A3R86			NOT ASSIGNED		
A4A3R87	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0=10R0-F
A4A3R88	0698-3160	1	RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0=3162-F
A4A3R89	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A4A3R90	0757-0465	1	RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1003-F
A4A3R91			NOT ASSIGNED		
A4A3R92	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A4A3R93	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A4A3TP1	1251-0600	11	CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP2	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP3	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP4	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP5	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP6	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP7	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP8	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP9	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP10	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3TP11	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A3U1	1826-0261	1	IC 741 OP AMP T0-99	28480	1826-0261
A4A3VR1	1902-0126	1	DIODE-ZNR 2.61V 5% DO-7 PD=.4W TC=-.072%	28480	1902-0126
A4A3VR2	1902-0579	1	DIODE-ZNR 5.11V 5% DO-15 PD=1W TC=-.009%	28480	1902-0579
A4A3VR3	1902-0041	1	DIODE-ZNR 5.11V 5% DO-7 PD=.4W TC=-.009%	28480	1902-0041
			A4A3 MISCELLANEOUS PARTS		
	6960-0016	1	PLUG-HOLE .125" DIA	28480	6960-0016

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A4	85662-60008	1	BOARD ASSEMBLY, BANDWIDTH FILTER	28480	85662-60008
A4A4C1	0160-2055	48	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C2	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C3	0160-2254	1	CAPACITOR-FXD 7.5PF +- .25PF 500VDC CER	28480	0160-2254
A4A4C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C6	0160-4297	3	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A4C7	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C8	0160-2257	3	CAPACITOR-FXD 10PF +-5% 500VDC CER 0+-60	28480	0160-2257
A4A4C9	0121-0059	3	CAPACITOR-V TRMR-CER 2-8PF 350V PC-MTG	52763	304324 2/8PF NPD
A4A4C10*	0160-2249	3	CAPACITOR-FXD 4.7PF +- .25PF 500VDC CER	28480	0160-2249
A4A4C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C15	0160-3456	2	CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A4A4C16	0160-3431	2	CAPACITOR-FXD 6.8PF +- .5PF 500VDC CER	28480	0160-3431
A4A4C17*	0140-0194	3	CAPACITOR-FXD 110PF +-5% 300VDC MICA	72136	DM15F111J0300WV1CR
A4A4C18	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C19	0121-0036	2	CAPACITOR-V TRMR-CER 5.5-18PF 350V	52763	304324 5.5/18PF NPD
A4A4C20	0121-0446	3	CAPACITOR-V TRMR-CER 4.5-20PF 160V	28480	0121-0446
A4A4C21	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C22	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C24	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C25	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C26	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C28	0140-0194		CAPACITOR-FXD 110PF +-5% 300VDC MICA	72136	DM15F111J0300WV1CR
A4A4C29	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C30	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C31	0160-2207	3	CAPACITOR-FXD 300PF +-5% 300VDC MICA	28480	0160-2207
A4A4C32	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C33	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A4C34	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C35	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C36	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C37	0160-2257		CAPACITOR-FXD 10PF +-5% 500VDC CER 0+-60	28480	0160-2257
A4A4C38*	0160-2249		CAPACITOR-FXD 4.7PF +- .25PF 500VDC CER	28480	0160-2249
A4A4C39	0121-0059		CAPACITOR-V TRMR-CER 2-8PF 350V PC-MTG	52763	304324 2/8PF NPD
A4A4C40	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C41	0121-0452	2	CAPACITOR-V TRMR-AIR 1.3-5.4PF 250V	74970	187-0103-005
A4A4C42			NOT ASSIGNED		
A4A4C43	0121-0452		CAPACITOR-V TRMR-AIR 1.3-5.4PF 250V	74970	187-0103-005
A4A4C44			NOT ASSIGNED		
A4A4C45			NOT ASSIGNED		
A4A4C46	0160-4084	3	CAPACITOR-FXD .01UF +-20% 50VDC CER	28480	0160-4084
A4A4C47	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C48	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C49	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C50	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C51			NOT ASSIGNED		
A4A4C52	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C53	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C54	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C55	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A4C56	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C57	0160-2207		CAPACITOR-FXD 300PF +-5% 300VDC MICA	28480	0160-2207
A4A4C58	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C59	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C60	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C61	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C62	0160-3456		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A4A4C63	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C64	0160-2257		CAPACITOR-FXD 10PF +-5% 500VDC CER 0+-60	28480	0160-2257
A4A4C65	0121-0059		CAPACITOR-V TRMR-CER 2-8PF 350V PC-MTG	52763	304324 2/8PF NPD
A4A4C66*	0160-2249		CAPACITOR-FXD 4.7PF +- .25PF 500VDC CER	28480	0160-2249
A4A4C67	0121-0036		CAPACITOR-V TRMR-CER 5.5-18PF 350V	52763	304324 5.5/18PF NPD
A4A4C68	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C69	0160-3431		CAPACITOR-FXD 6.8PF +- .5PF 500VDC CER	28480	0160-3431
A4A4C70*	0140-0194		CAPACITOR-FXD 110PF +-5% 300VDC MICA	72136	DM15F111J0300WV1CR

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A4C71	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C72	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C73	0121-0446		CAPACITOR-V TRMR-CER 4.5-20PF 160V	28480	0121-0446
A4A4C74	0121-0446		CAPACITOR-V TRMR-CER 4.5-20PF 160V	28480	0121-0446
A4A4C75			NOT ASSIGNED		
A4A4C76	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C77	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C78	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C79	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C80	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C81	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C82			NOT ASSIGNED		
A4A4C83			NOT ASSIGNED		
A4A4C84	0160-2207		CAPACITOR-FXD 300PF +-5% 300VDC MICA	28480	0160-2207
A4A4C85			NOT ASSIGNED		
A4A4C86	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4C87	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A4A4C88	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A4A4C89	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A4CR1	1901-0047	11	DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR2			NOT ASSIGNED		
A4A4CR3	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR4	1901-1070	6	DIODE:PIN	28480	1901-1070
A4A4CR5	1901-1070		DIODE:PIN	28480	1901-1070
A4A4CR6	1901-0535	8	DIODE-SCHOTTKY	28480	1901-0535
A4A4CR7	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR8	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A4A4CR9			NOT ASSIGNED		
A4A4CR10	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR11			NOT ASSIGNED		
A4A4CR12	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR13	1901-1070		DIODE:PIN	28480	1901-1070
A4A4CR14	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A4A4CR15	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR16	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A4A4CR17			NOT ASSIGNED		
A4A4CR18	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR19	1901-1070		DIODE:PIN	28480	1901-1070
A4A4CR20	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR21	1901-1070		DIODE:PIN	28480	1901-1070
A4A4CR22	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A4A4CR23	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR24	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A4A4CR25	1901-1070		DIODE:PIN	28480	1901-1070
A4A4CR26			NOT ASSIGNED		
A4A4CR27	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A4A4CR28	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A4A4CR29	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4CR30	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A4A4E1	9170-0029	15	CORE-SHIELDING BEAD	28480	9170-0029
A4A4E2	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E3	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E4	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E5	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E6	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E7	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E8	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E9	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E10	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E11	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E12	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E13	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E14	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4E15	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A4L1	9100-1641	3	COIL-MLD 240UH 5% Q#65 .155DX.375LG-NOM	28480	9100-1641
A4A4L2	9140-0114	4	COIL-MLD 10UH 10% Q#55 .155DX.375LG-NOM	28480	9140-0114
A4A4L3	9100-1620	4	COIL-MLD 15UH 10% Q#65 .155DX.375LG-NOM	28480	9100-1620
A4A4L4	9100-3854	2	COIL 400NH 5% Q#150 .3DX1.016LG-NOM	28480	9100-3854
A4A4L5	9140-0098	3	COIL-MLD 2.2UH 10% Q#33 .155DX.375LG-NOM	28480	9140-0098
A4A4L6	9100-1620		COIL-MLD 15UH 10% Q#65 .155DX.375LG-NOM	28480	9100-1620
A4A4L7	9100-1641		COIL-MLD 240UH 5% Q#65 .155DX.375LG-NOM	28480	9100-1641
A4A4L8	9140-0098		COIL-MLD 2.2UH 10% Q#33 .155DX.375LG-NOM	28480	9140-0098
A4A4L9	9100-1618	7	COIL-MLD 5.6UH 10% Q#45 .155DX.375LG-NOM	28480	9100-1618
A4A4L10	9100-1618		COIL-MLD 5.6UH 10% Q#45 .155DX.375LG-NOM	28480	9100-1618

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A4L11			NOT ASSIGNED		
A4A4L12	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG	02178	15-4435-1K
A4A4L13	9100-1620		COIL-MLD 15UH 10% Q=65 .155DX,375LG	02178	15-4445-4K
A4A4L14	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG	02178	15-4435-1K
A4A4L15	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG	02178	15-4445-2K
A4A4L16	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG	02178	15-4445-2K
A4A4L17	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG	02178	15-4445-2K
A4A4L18	9100-3854		COIL 400MH 5% Q=150 .3DX1,016LB	28480	9100-3854
A4A4L19	9140-0098		COIL-MLD 2.2UH 10% Q=33 .155DX,375LG	02178	15-4425-10K
A4A4L20	9100-1641		COIL-MLD 240UH 10% Q=50 .155DX,375LG	02178	15-1315-21J
A4A4L21			NOT ASSIGNED		
A4A4L22	9100-1620		COIL-MLD 15UH 10% Q=65 .155DX,375LG	02178	15-4445-4K
A4A4L23			NOT ASSIGNED		
A4A4L24	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG	02178	15-4435-1K
A4A4L25	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG	02178	15-4435-1K
A4A4L26	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG	02178	15-4435-1K
A4A4Q1	1855-0267		TRANSISTOR J-FET N-CHAN D-MODE SI	0169H	SKA 3807
A4A4Q2	1853-0007	7	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MH	02038	2N3251
A4A4Q3	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MH	02038	2N3251
A4A4Q4	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MH	02038	2N3251
A4A4Q5	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MH	02038	2N3251
A4A4Q6	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MH	02038	2N3251
A4A4Q7	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MH	02038	2N3251
A4A4Q8	1854-0404	3	TRANSISTOR NPN SI TO-18 PD=360MH	28480	1854-0404
A4A4Q9	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MH	02038	2N3251
A4A4Q10	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MH	28480	1854-0404
A4A4Q11	1855-0267		TRANSISTOR J-FET N-CHAN D-MODE SI	0169H	SKA 3807
A4A4Q12	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MH	28480	1854-0404
A4A4Q13	1855-0267		TRANSISTOR J-FET N-CHAN D-MODE SI	0169H	SKA 3807
A4A4Q14	1854-0345	1	TRANSISTOR NPN 2N5179 SI TO-72 PD=200MH	02038	2N5179
A4A4R1	0757-0441		RESISTOR 8.25K 1% .125W F TC=0+-100	24546	C4-1/8-TO-8251-F
A4A4R2	0698-3431	2	RESISTOR 23.7 1% .125W F TC=0+-100	03888	PME55-1/8-TO-23R7-F
A4A4R3*	0698-8819	1	RESISTOR 3.85 1% .125W F TC=0+-100	28480	0698-8819
A4A4R4	0757-0401	4	RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-TO-101-F
A4A4R5	0757-0442	4	RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-TO-1002-F
A4A4R6	0757-0397	1	RESISTOR 68.1 1% .125W F TC=0+-100	03298	C4-1/8-TO-68R1-F
A4A4R7	0698-3155	3	RESISTOR 4.64K 1% .125W F TC=0+-100	03298	C4-1/8-TO-4641-F
A4A4R8	0757-0280	8	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-TO-1001-F
A4A4R9	0757-0438	6	RESISTOR 5.11K 1% .125W F TC=0+-100	03298	C4-1/8-TO-5111-F
A4A4R10	0698-3441	3	RESISTOR 215 1% .125W F TC=0+-100	03298	C4-1/8-TO-215R-F
A4A4R11	0757-0443	3	RESISTOR 11K 1% .125W F TC=0+-100	03298	C4-1/8-TO-1102-F
A4A4R12	0698-0082	4	RESISTOR 464 1% .125W F TC=0+-100	03298	C4-1/8-TO-4640-F
A4A4R13	0698-3444	3	RESISTOR 316 1% .125W F TC=0+-100	03298	C4-1/8-TO-316R-F
A4A4R14	0698-3442	3	RESISTOR 237 1% .125W F TC=0+-100	03298	C4-1/8-TO-237R-F
A4A4R15	0757-0279	3	RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-TO-3161-F
A4A4R16*	0757-0290	8	RESISTOR 6.19K 1% .125W F TC=0+-100	0299E	MF4C1/8-TO-6191-F
A4A4R17	0698-3156	4	RESISTOR 14.7K 1% .125W F TC=0+-100	03298	C4-1/8-TO-1472-F
A4A4R18	0698-3156		RESISTOR 14.7K 1% .125W F TC=0+-100	03298	C4-1/8-TO-1472-F
A4A4R19	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-TO-1001-F
A4A4R20*	0757-0441	4	RESISTOR 8.25K 1% .125W F TC=0+-100	03298	C4-1/8-TO-8251-F
A4A4R21	0757-0290		RESISTOR 6.19K 1% .125W F TC=0+-100	0299E	MF4C1/8-TO-6191-F
A4A4R22	0757-0290		RESISTOR 6.19K 1% .125W F TC=0+-100	0299E	MF4C1/8-TO-6191-F
A4A4R23			NOT ASSIGNED		
A4A4R24	0698-3431		RESISTOR 23.7 1% .125 F TC=0+-100	03888	PME55-1/8-TO-23R7-F
A4A4R25	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-TO-101-F
A4A4R26	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-TO-1001-F
A4A4R27	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	03298	C4-1/8-TO-4641-F
A4A4R28	0698-0082		RESISTOR 464 1% .125W F TC=0+-100	03298	C4-1/8-TO-4640-F
A4A4R29	0757-0443		RESISTOR 11K 1% .125W F TC=0+-100	03298	C4-1/8-TO-1102-F
A4A4R30	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	03298	C4-1/8-TO-5111-F
A4A4R31	0698-3441		RESISTOR 215 1% .125W F TC=0+-100	03298	C4-1/8-TO-215R-F
A4A4R32	0698-3444		RESISTOR 316 1% .125W F TC=0+-100	03298	C4-1/8-TO-316R-F
A4A4R33	0698-3442		RESISTOR 237 1% .125W F TC=0+-100	03298	C4-1/8-TO-237R-F
A4A4R34	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-TO-3161-F
A4A4R35*	0698-3132	1	RESISTOR 261 1% .125W F TC=0+-100	03298	C4-1/8-TO-2610-F
A4A4R36			NOT ASSIGNED		
A4A4R37	0757-0458	1	RESISTOR 51.1K 1% .125W F TC=0+-100	03298	C4-1/8-TO-5112-F
A4A4R38			NOT ASSIGNED		
A4A4R39	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-TO-1001-F
A4A4R40*	0757-0441		RESISTOR 8.25K 1% .125W F TC=0+-100	03298	C4-1/8-TO-8251-F
A4A4R41	0757-0290		RESISTOR 6.19K 1% .125W F TC=0+-100	0299E	MF4C1/8-TO-6191-F
A4A4R42*			FACTORY SELECTED PART-NORMALLY OPEN		
A4A4R43	2100-3165	1	RESISTOR-TRMR 2M 20% C SIDE-ADJ 17-TRN	02111	43P205
A4A4R44*			FACTORY SELECTED PART-NORMALLY OPEN		
A4A4R45*	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-TO-10R0-F
A4A4R46	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-TO-1001-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A4R47			NOT ASSIGNED		
A4A4R48	0757-0290	1	RESISTOR 6.19K 1% .125W F TC=0+-100	0299Z	MF4C1/8-T0-6191-F
A4A4R49	2100-3092		RESISTOR-TRMR 50 20% C SIDE-ADJ 17-TRN	73138	89PR50
A4A4R50	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	0329B	C4-1/8-T0-101-F
A4A4R51	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1001-F
A4A4R52	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-4641-F
A4A4R53	0698-0082	RESISTOR 464 1% .125W F TC=0+-100	0329B	C4-1/8-T0-4640-F	
A4A4R54	0757-0443	RESISTOR 11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1102-F	
A4A4R55	0757-0438	RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F	
A4A4R56	0698-3441	RESISTOR 215 1% .125W F TC=0+-100	0329B	C4-1/8-T0-215R-F	
A4A4R57	0698-3444	RESISTOR 316 1% .125W F TC=0+-100	0329B	C4-1/8-T0-316R-F	
A4A4R58	0698-3442	RESISTOR 237 1% .125W F TC=0+-100	0329B	C4-1/8-T0-237R-F	
A4A4R59	0757-0279	RESISTOR 3.16K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-3161-F	
A4A4R60*	0757-0290	RESISTOR 6.19K 1% .125W F TC=0+-100	0299Z	MF4C1/8-T0-6191-F	
A4A4R61	0698-3156	RESISTOR 14.7K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1472-F	
A4A4R62	0698-3156	RESISTOR 14.7K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1472-F	
A4A4R63	0757-0280	RESISTOR 1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1001-F	
A4A4R64*	0757-0441	RESISTOR 8.25K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-8251-F	
A4A4R65*	0757-1094	RESISTOR 1.47K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1471-F	
A4A4R66	0757-0290	RESISTOR 6.19K 1% .125W F TC=0+-100	0299Z	MF4C1/8-T0-6191-F	
A4A4R67	0757-0290	RESISTOR 6.19K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1001-F	
A4A4R68	0757-0280	RESISTOR 1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1001-F	
A4A4R69		NOT ASSIGNED			
A4A4R70	0698-3440	RESISTOR 196 1% .125W F TC=0+-100	0329B	C4-1/8-T0-196R-F	
A4A4R71		NOT ASSIGNED			
A4A4R72	0698-3438	RESISTOR 147 1% .125W F TC=0+-100	0329B	C4-1/8-T0-147R-F	
A4A4R73	0698-0082	RESISTOR 464 1% .125W F TC=0+-100	0329B	C4-1/8-T0-4640-F	
A4A4R74	0757-0438	RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F	
A4A4R75	0757-0438	RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F	
A4A4R76	0757-0438	RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F	
A4A4R77*		NOT ASSIGNED			
A4A4R81		RESISTOR 100 1% .125W F TC=0+-100	0329B	C4-1/8-T0-101-F	
A4A4R82	0757-0401	RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F	
A4A4R83	0757-0442	RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F	
A4A4R84	0757-0442	RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F	
A4A4R85	0757-0442	RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F	
A4A4R86		NOT ASSIGNED			
A4A4R87		NOT ASSIGNED			
A4A4R88	0698-3154	RESISTOR 4.22K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-4221-F	
A4A4R89	0698-3154	RESISTOR 4.22K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-4221-F	
A4A4R90	0698-3154	RESISTOR 4.22K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-4221-F	
A4A4R91	0757-0180	RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180	
A4A4R92	0757-0180	RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180	
A4A4R93	0757-0180	RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180	
A4A4R94	0757-0465	RESISTOR 100K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1003-F	
A4A4TP1	0360-1788	CONNECTOR-89L CONT PIN .045-IN-B8C-8Z 80	28480	0360-1788	
A4A4TP2	0360-1788	CONNECTOR-89L CONT PIN .045-IN-B8C-8Z 80	28480	0360-1788	
A4A4TP3	0360-1514	TERMINAL-8TUD 89L-PIN PRESS-MTG	28480	0360-1514	
A4A4TP4	0360-1788	CONNECTOR-89L CONT PIN .045-IN-B8C-8Z 80	28480	0360-1788	
A4A4TP5	0360-1788	CONNECTOR-89L CONT PIN .045-IN-B8C-8Z 80	28480	0360-1788	
A4A4TP6	0360-1788	CONNECTOR-89L CONT PIN .045-IN-B8C-8Z 80	28480	0360-1788	
A4A4TP7	0360-1788	CONNECTOR-89L CONT PIN .045-IN-B8C-8Z 80	28480	0360-1788	
A4A4TP8	0360-1514	TERMINAL-8TUD 89L-PIN PRESS-MTG	28480	0360-1514	
A4A4VR1	1902-0048	1	DIODE-ZNR 6.81V 5% DO-7 PD=.4W TC=+.043X	02236	FZ7244
A4A4Y1-	0410-1029	3	CRYSTAL, 21.4 MHZ (SET OF SIX) (INCLUDES A4A8Y1-2, A4A6A1Y1)	28480	0410-1029
A4A4Y3			A4A4 MISCELLANEOUS PARTS		
	6960-0016	1	PLUG-HOLE .125" DIA	28480	6960-0016

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A5	85662-60007	1	BOARD ASSEMBLY, 8STEP GAIN	28480	85662-60007
A4A5C1	0160-4297	3	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101H232822-CDM
A4A5C2			NOT ASSIGNED		
A4A5C3	0160-2055	41	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C4	0180-0197	1	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	190D225X9020A7
A4A5C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C6			NOT ASSIGNED		
A4A5C7			FACTORY SELECTED PART-NORMALLY OPEN		
A4A5C8	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C10	0121-0451	1	CAPACITOR-V TRMR-AIR 1.7-11PF 250V	74970	187-0106-005
A4A5C11	0160-0127	1	CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A4A5C9	0160-4633		CAPACITOR-FXD 12PF 500V	28480	0160-4633
A4A5C12			NOT ASSIGNED		
A4A5C13	0140-0193	1	CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300WV1CR
A4A5C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C15	0140-0200	1	CAPACITOR-FXD 390PF +-5% 300VDC MICA	72136	DM15F391J0300WV1CR
A4A5C16			NOT ASSIGNED		
A4A5C17	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C18	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C21	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C22	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C24	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101H232822-CDM
A4A5C25	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101H232822-CDM
A4A5C26	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C28	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C29	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C30			NOT ASSIGNED		
A4A5C31	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C32	0160-2250	1	CAPACITOR-FXD 5.1PF +-25PF 500VDC CER	28480	0160-2250
A4A5C33	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C34	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C35	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C36	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C37	0160-2244	2	CAPACITOR-FXD 3PF +-25PF 500VDC CER	28480	0160-2244
A4A5C38	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C39	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C40	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C41	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C42	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C43			NOT ASSIGNED		
A4A5C44	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C45	0160-2244		CAPACITOR-FXD 3PF +-25PF 500VDC CER	28480	0160-2244
A4A5C46	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C47	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C48	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C49	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C50	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C51	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C52	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C53	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C54	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C55	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C56	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C57	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C58	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C59	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C60			NOT ASSIGNED		
A4A5C61			NOT ASSIGNED		
A4A5C62			NOT ASSIGNED		
A4A5C63	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A5C64	0180-2216	1	CAPACITOR-FXD 350UF+75-10% 16VDC AL	56289	30D357G016DH2
A4A5CR1	0122-0255	1	DIODE-VVC 1N5144 22PF 10X C4/C00-MIN#3,2	04713	1N5144
A4A5CR2	1901-0040	8	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A4A5CR3	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A4A5CR4	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A4A5CR5	1901-1070	4	DIODE:PIN	28480	1901-1070
A4A5CR6	1901-1070		DIODE:PIN	28480	1901-1070
A4A5CR7	1901-1070		DIODE:PIN	28480	1901-1070
A4A5CR8	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A4A5CR9	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A4A5CR10	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A5CR11	1901-1070		DIODE:PIN	28480	1901-1070
A4A5CR12	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A4A5CR13	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A4A5E1	9170-0029	13	CORE-SHIELDING BEAD	28480	9170-0029
A4A5E2	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E3	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E4	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E5	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E6	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E7	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E8	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E9	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E10	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E11	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E12	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5E13	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A5L1	9140-0096	1	COIL-MLD 1UH 10% Q#50 .155DX,375LG-NOM NOT ASSIGNED	28480	9140-0096
A4A5L2					
A4A5L3	9100-1618	3	COIL-MLD 5.6UH 10% Q#45 .155DX,375LG-NOM	28480	9100-1618
A4A5L4	9100-1618		COIL-MLD 5.6UH 10% Q#45 .155DX,375LG-NOM	28480	9100-1618
A4A5L5	9100-1624	6	COIL-MLD 30UH 5% Q#65 .155DX,375LG-NOM	28480	9100-1624
A4A5L6	9100-1618		COIL-MLD 5.6UH 10% Q#45 .155DX,375LG-NOM	28480	9100-1618
A4A5L7			NOT ASSIGNED		
A4A5L8			NOT ASSIGNED		
A4A5L9			NOT ASSIGNED		
A4A5L10	9100-1624		COIL-MLD 30UH 5% Q#65 .155DX,375LG-NOM	28480	9100-1624
A4A5L11	9100-1624		COIL-MLD 30UH 5% Q#65 .155DX,375LG-NOM	28480	9100-1624
A4A5L12	9100-1624		COIL-MLD 30UH 5% Q#65 .155DX,375LG-NOM	28480	9100-1624
A4A5L13	9100-1624		COIL-MLD 30UH 5% Q#65 .155DX,375LG-NOM	28480	9100-1624
A4A5L14	9100-1624		COIL-MLD 30UH 5% Q#65 .155DX,375LG-NOM	28480	9100-1624
A4A5Q1	1854-0345	3	TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	04713	2N5179
A4A5Q2	1853-0015	3	TRANSISTOR PNP 8I PD=200MW FT=500MHZ	28480	1853-0015
A4A5Q3	1854-0345		TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	04713	2N5179
A4A5Q4	1853-0015		TRANSISTOR PNP 8I PD=200MW FT=500MHZ	28480	1853-0015
A4A5Q5	1854-0345		TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	04713	2N5179
A4A5Q6	1853-0015		TRANSISTOR PNP 8I PD=200MW FT=500MHZ	28480	1853-0015
A4A5Q7	1854-0404	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A5Q8	1854-0019	9	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A4A5Q9	1853-0281	1	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	04713	2N2907A
A4A5Q10	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A4A5Q11	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A4A5Q12	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A4A5Q13	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A4A5Q14	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A4A5Q15	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A4A5Q16	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A4A5Q17	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A4A5R1	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A5R2	2100-3103	1	RESISTOR-TRMR 10K 10% C 8IDE-ADJ 17-TRN	02111	43P103
A4A5R3	0757-0440	1	RESISTOR 7.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7501-F
A4A5R4	0757-0458	1	RESISTOR 51.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5112-F
A4A5R5	0757-0288	1	RESISTOR 9.09K 1% .125W F TC=0+-100	19701	MP4C1/8-T0-9091-F
A4A5R6	0757-0442	9	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A5R7	0757-0465	3	RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A4A5R8	0698-3156	1	RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1472-F
A4A5R9	0698-3153	1	RESISTOR 3.83K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3831-F
A4A5R10	0698-3153	2	RESISTOR 3.83K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3831-F
A4A5R11	0757-1094	1	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A4A5R12	0698-3260	8	RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A4A5R13	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A4A5R14	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A5R15	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A5R16	0757-0403	2	RESISTOR 121 1% .125W F TC=0+-100	24546	C4-1/8-T0-121R-F
A4A5R17	0757-0346	3	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A5R18	0698-3444	5	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A4A5R19	0757-0399	2	RESISTOR 82.5 1% .125W F TC=0+-100	24546	C4-1/8-T0-82R5-F
A4A5R20	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A5R21	0698-3444		RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A4A5R22	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A5R23	0757-0399		RESISTOR 82.5 1% .125W F TC=0+-100	24546	C4-1/8-T0-82R5-F
A4A5R24	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A5R25	0757-0279	2	RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A4A5R26	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A4A5R27	0757-0290	3	RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MP4C1/8-T0-6191-F
A4A5R28	0698-3444		RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A4A5R29	0757-0276	3	RESISTOR 61.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A4A5R30	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4ASR31	0757-0280	3	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR32	2100-3056		RESISTOR-TMR 5K 10% C SIDE-ADJ 17-TRN	02111	43P502
A4ASR33	2100-3163		RESISTOR-TMR 1M 20% C SIDE-ADJ 17-TRN	02111	43P105
A4ASR34	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A4ASR35	0698-3132		RESISTOR 261 1% .125W F TC=0+-100	24546	C4-1/8-T0-2610-F
A4ASR36	0757-0280	2	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR37	0757-0276		RESISTOR 61.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A4ASR38	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A4ASR39	0757-0290		RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MFAC1/8-T0-6191-F
A4ASR40	0698-3444		RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A4ASR41	0757-0394	2	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A4ASR42	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A4ASR43	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR44	2100-3056		RESISTOR-TMR 5K 10% C SIDE-ADJ 17-TRN	02111	43P502
A4ASR45	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR46	0757-0420	2	RESISTOR 750 1% .125W F TC=0+-100	24546	C4-1/8-T0-751-F
A4ASR47	0757-0276		RESISTOR 61.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A4ASR48	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A4ASR49	0757-0290		RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MFAC1/8-T0-6191-F
A4ASR50	0698-3444		RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A4ASR51	2100-3161	1	RESISTOR-TMR 20K 10% C SIDE-ADJ 17-TRN	02111	43P203
A4ASR52	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A4ASR53	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR54	2100-3056		RESISTOR-TMR 5K 10% C SIDE-ADJ 17-TRN	02111	43P502
A4ASR55	0757-0420		RESISTOR 750 1% .125W F TC=0+-100	24546	C4-1/8-T0-751-F
A4ASR56	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR57	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A4ASR58	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4ASR59	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4ASR60	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A4ASR61	0757-0403	7	RESISTOR 121 1% .125W F TC=0+-100	24546	C4-1/8-T0-121R-F
A4ASR62*	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4ASR63	0757-0397		RESISTOR 68.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-68R1-F
A4ASR64	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR65	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4ASR66	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4ASR67	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4ASR68	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A4ASR69	0757-0395		RESISTOR 56.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-56R2-F
A4ASR70*	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR71	0757-0400	1	RESISTOR 90.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-909R-F
A4ASR72-			NOT ASSIGNED		
A4ASR79			NOT ASSIGNED		
A4ASR80	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR81	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4ASR82	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4ASR83	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4ASR84	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A4ASR85	0757-0316		RESISTOR 42.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-42R2-F
A4ASR86*			FACTORY SELECTED PART-NORMALLY OPEN		
A4ASR87	0698-3438	1	RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0-147R-F
A4ASR88	0757-0317		RESISTOR 1.33K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1331-F
A4ASR89	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR90	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4ASR91	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4ASR92	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A4ASR93	0757-0180		RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180
A4ASR94		1	NOT ASSIGNED		
A4ASR95			NOT ASSIGNED		
A4ASR96	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A4ASR97	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A5TP1	1251-0600		3	TERMINAL-TEST POINT	28480	1251-0600
A4A5TP2	1251-0600	TERMINAL-TEST POINT		28480	1251-0600
A4A5TP3	1251-0600	TERMINAL-TEST POINT		28480	1251-0600
A4A5U1	1826-0261	1	IC 741 OP AMP T0-99	28480	1826-0261
A4A5VR1	1902-3104	1	DIODE-ZNR 5.62V 5% DO-7 PD=.4W TC=+.016%	28480	1902-3104
A4A5Y1	0410-0671	1	CRYSTAL, 1, .4MHZ	28480	0410-0671
	86701-40001		A4A5 MISCELLANEOUS PARTS		
	6960-0016		EXTRACTOR, PC BOARD PLUG-HOLE .125" DIA	28480 28480	86701-40001 6960-0016

See introduction to this section for ordering information

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A6	8562-60018	1	DOWN/UP CONVERTER ASSEMBLY (INCLUDES A4A6A1 UP CONVERTER & A4A6A2 DOWN CONVERTER)	28480	8562-60018
A4A6J1 A4A6J2	1250-0690 1250-0690	2	CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480 28480	1250-0690 1250-0690
A4A6 MISCELLANEOUS PARTS					
A4A6A1	86701-40001	1	EXTRACTOR, PC BOARD BOARD ASSY, UP CONVERTER (P/O A4A6)	28480	86701-40001
A4A6A1C1			NOT ASSIGNED		
A4A6A1C2	0160-2055	18	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C3			NOT ASSIGNED		
A4A6A1C4	0160-4084	2	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A4A6A1C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C6			CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C7			NOT ASSIGNED		
A4A6A1C8			NOT ASSIGNED		
A4A6A1C9	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A4A6A1C10			NOT ASSIGNED		
A4A6A1C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C14			NOT ASSIGNED		
A4A6A1C15			NOT ASSIGNED		
A4A6A1C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C17	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C18	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C21	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C22	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C24	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C25	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C26	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C27	0160-2244	1	CAPACITOR-FXD 3PF +-25PF 500VDC CER	28480	0160-2244
A4A6A1C28			NOT ASSIGNED		
A4A6A1C29			NOT ASSIGNED		
A4A6A1C30	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A1C31	0121-0453	1	CAPACITOR-V TRMR-AIR 1.3-5.4PF 250V	74970	187-0103-195
A4A6A1C32	0140-0199	1	CAPACITOR-FXD 240PF +-5% 300VDC MICA	72136	DM15F241J0300MV1CR
A4A6A1CR1			NOT ASSIGNED		
A4A6A1CR2	1901-0047	3	DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
A4A6A1CR3	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
A4A6A1CR4	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
A4A6A1E1	9170-0029	7	CORE-SHIELDING BEAD	28480	9170-0029
A4A6A1E2	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A6A1E3	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A6A1E4	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A6A1E5	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A6A1E6	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A6A1E7	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A6A1L1	9140-0112	2	COIL-MLD 4.7UH 10% Q=33 .155DX.375LG-NOM	28480	9140-0112
A4A6A1L2	9100-1611	1	COIL-MLD 220NH 20% Q=50 .155DX.375LG-NOM	28480	9100-1611
A4A6A1L3			NOT ASSIGNED		
A4A6A1L4	9100-1624	1	COIL-MLD 30UH 5% Q=65 .155DX.375LG-NOM	28480	9100-1624
A4A6A1L5	9100-1620	1	COIL-MLD 15UH 10% Q=65 .155DX.375LG-NOM	28480	9100-1620
A4A6A1L6			NOT ASSIGNED		
A4A6A1L7	9140-0112	1	COIL-MLD 4.7UH 10% Q=33 .155DX.375LG-NOM	28480	9140-0112
A4A6A1L8	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A6A1Q1	1854-0019	5	TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0019
A4A6A1Q2	1853-0007	2	TRANSISTOR-PNP SI TO-18 PD=360MW	0203G	2N3251
A4A6A1Q3	1854-0345	1	TRANSISTOR-NPN SI TO-72 PD=200MW	0203G	2N5179
A4A6A1Q4	1854-0019		TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0019
A4A6A1Q5	1854-0247	1	TRANSISTOR-NPN SI TO-39 PD=1W	28480	1854-0247
A4A6A1Q6	1853-0007		TRANSISTOR-PNP SI TO-18 PD=360MW	0203G	2N3251
A4A6A1Q7	1854-0019		TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0019
A4A6A1Q8	1854-0019		TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0019
A4A6A1Q9	1854-0019		TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0019

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A6A1R1	0757-0401	2	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A4A6A1R2			NOT ASSIGNED		
A4A6A1R3			NOT ASSIGNED		
A4A6A1R4	0757-1094	1	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A4A6A1R5	0757-0465	2	RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A4A6A1R6	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A4A6A1R7			NOT ASSIGNED		
A4A6A1R8			NOT ASSIGNED		
A4A6A1R9	0698-3442	1	RESISTOR 237 1% .125W F TC=0+-100	24546	C4-1/8-T0-237R-F
A4A6A1R10	0757-0400	1	RESISTOR 90.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-909R-F
A4A6A1R11			NOT ASSIGNED		
A4A6A1R12	0757-0279	2	RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A4A6A1R13	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A4A6A1R14	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A4A6A1R15	0757-0280	4	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4A6A1R16	0757-0317	1	RESISTOR 1.33K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1331-F
A4A6A1R17	0757-0442	5	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A6A1R18	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A6A1R19	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4A6A1R20	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4A6A1R21	0757-0180	2	RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180
A4A6A1R22	0757-0180		RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180
A4A6A1R23	0757-0346	2	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A6A1R24	0757-0416	2	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A4A6A1R25	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4A6A1R26	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A4A6A1R27	0757-0439	1	RESISTOR 6.81K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6811-F
A4A6A1R28	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A6A1R29	2100-3154	1	RESISTOR-TRMR 1K 10% C SIDE-ADJ 17-TRN	02111	43P102
A4A6A1R30	0698-3439	1	RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0-178R-F
A4A6A1R31			NOT ASSIGNED		
A4A6A1R32	0757-0419	1	RESISTOR 681 1% .125W F TC=0+-100	24546	C4-1/8-T0-681R-F
A4A6A1R33	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A6A1R34	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A6A1R35	0698-3444	1	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A4A6A1R36-			NOT ASSIGNED		
A4A6A1R49	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A6A1R50	0757-0447	1	RESISTOR 16.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1622-F
A4A6A1R51			NOT ASSIGNED		
A4A6A1R52-			NOT ASSIGNED		
A4A6A1R59			NOT ASSIGNED		
A4A6A1R60	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A4A6A1R61	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A4A6A1T1	85662-800C	1	COIL ASSEMBLY, TRANSFORMER	28480	85662-80002
A4A6A1TP1			NOT ASSIGNED		
A4A6A1TP2	1251-0600	2	CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A6A1TP3	1251-0600		CONNECTOR-SGL CONT PIN 1.14-MM-B8C-8Z 8Q	28480	1251-0600
A4A6A1U1	0955-0084	1	MIXER, DOUBLE-BALANCED, 200MW	28480	0955-0084
A4A6A1Y1	0410-1029	1	CRYSTAL, 21.4 MHZ (SET OF SIX) (INCLUDES A4A8Y1-Y2, A4A4Y1-Y3)	28480	0410-1029
			A4A6A1 MISCELLANEOUS PARTS		
	6960-0016	1	PLUG-HOLE .125" DIA	28480	6960-0016

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A6A2			BOARD ASSY, DOWN CONVERTER (P/O A4A6)		
A4A6A2C1	0160-2055	19	NOT ASSIGNED	28480	0160-2055
A4A6A2C2			CAPACITOR-FXD .01UF +80-20% 100VDC CER		
A4A6A2C3	0160-2055		NOT ASSIGNED	28480	0160-2055
A4A6A2C4			CAPACITOR-FXD .01UF +80-20% 100VDC CER		
A4A6A2C5			NOT ASSIGNED		
A4A6A2C6			NOT ASSIGNED		
A4A6A2C7	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C8	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C9	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C14	0140-0196	1	CAPACITOR-FXD 150PF +-5% 300VDC MICA	28480	0140-0196
A4A6A2C15	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C17	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C18	0160-4084	2	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A4A6A2C19	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A4A6A2C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C21	0160-2207	1	CAPACITOR-FXD 300PF +-5% 300VDC MICA	28480	0160-2207
A4A6A2C22	0140-0193	1	CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300MV1CR
A4A6A2C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C24	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C25			NOT ASSIGNED		
A4A6A2C26	0160-2055		NOT ASSIGNED		
A4A6A2C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C28	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C29	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A6A2C30	0140-0210		CAPACITOR-FXD 270PF +-5% 300VDC MICA	28480	0140-0210
A4A6A2CR1	1901-0040	1	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A6A2CR2			NOT ASSIGNED		
A4A6A2CR3	1901-0047	2	DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
A4A6A2CR4			NOT ASSIGNED		
A4A6A2CR5	1901-0047		DIODE-SWITCHING 20V 75MA 10NS	28480	1901-0047
A4A6A2E1	9170-0029	4	CORE-SHIELDING BEAD	28480	9170-0029
A4A6A2E2	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A6A2E3	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A6A2E4	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A4A6A2L1	9140-0111	1	COIL-MLD 3.3UH 10% Q=33 .155DX,375LG-NOM	28480	9140-0111
A4A6A2L2			NOT ASSIGNED		
A4A6A2L3			NOT ASSIGNED		
A4A6A2L4	9140-0112	3	COIL-MLD 4.7UH 10% Q=33 .155DX,375LG-NOM	28480	9140-0112
A4A6A2L5	9100-1625	1	COIL-MLD 33UH 5% Q=65 .155DX,375LG-NOM	28480	9100-1625
A4A6A2L6			NOT ASSIGNED		
A4A6A2L7			NOT ASSIGNED		
A4A6A2L8	9140-0112		COIL-MLD 4.7UH 10% Q=33 .155DX,375LG-NOM	28480	9140-0112
A4A6A2L9	9140-0112		COIL-MLD 4.7UH 10% Q=33 .155DX,375LG-NOM	28480	9140-0112
A4A6A2L10	9140-0114	1	COIL-MLD 10UH 10% Q=55 .155DX,375LG-NOM	28480	9140-0114
A4A6A2L11	9100-1611	1	COIL-MLD 220UH 20% Q=50 .155DX,375LG-NOM	28480	9100-1611
A4A6A2L12	9100-2232	1	COIL-MLD 560NH 10% Q=50 .156DX,375LG-NOM	28480	9100-2232
A4A6A2Q1	1854-0019	4	TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0019
A4A6A2Q2	1853-0034	2	TRANSISTOR-PNP SI TO-18 PD=360MW	28480	1853-0034
A4A6A2Q3	1854-0019		TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0019
A4A6A2Q4	1854-0345	1	TRANSISTOR-NPN SI TO-72 PD=200MW	02036	2N5179
A4A6A2Q5	1854-0019		TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0019
A4A6A2Q6	1854-0019		TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0019
A4A6A2Q7	1853-0007	1	TRANSISTOR-PNP SI TO-18 PD=360MW	02036	2N3251
A4A6A2Q8	1853-0034		TRANSISTOR-PNP SI TO-18 PD=360MW	28480	1853-0034
A4A6A2R1-			NOT ASSIGNED		
A4A6A2R3			RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A4A6A2R4	0698-0083	1	RESISTOR 1.96K 1% .125W F TC=0+-100		
A4A6A2R5-			NOT ASSIGNED		
A4A6A2R10			NOT ASSIGNED		
A4A6A2R11	0757-0346	4	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A6A2R12	0757-0279	5	RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A4A6A2R13	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A4A6A2R14	0757-0394	5	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A4A6A2R15	0757-0465	1	RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A4A6A2R16	0757-0442	4	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A6A2R17	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A4A6A2R18	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A6A2R19	0757-0418	2	RESISTOR 619 1% .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A4A6A2R20	0698-0084	2	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A6A2R21			NOT ASSIGNED		

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A6A2R22	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A6A2R23	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A4A6A2R24	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A6A2R25	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A4A6A2R26	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A4A6A2R27	0698-0082	2	RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0-4640-F
A4A6A2R28	0757-0180	1	RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180
A4A6A2R29	0698-0082		RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0-4640-F
A4A6A2R30	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A4A6A2R31	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A4A6A2R32	0698-3447	1	RESISTOR 422 1% .125W F TC=0+-100	24546	C4-1/8-T0-422R-F
A4A6A2R33*	0757-0395	1	RESISTOR 56.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-56R2-F
A4A6A2R34			NOT ASSIGNED		
A4A6A2R35	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A6A2R36			NOT ASSIGNED		
A4A6A2R37			NOT ASSIGNED		
A4A6A2R38	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A4A6A2R39	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A4A6A2R40	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A4A6A2R41	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A4A6A2R42	0757-0418		RESISTOR 619 1% .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A4A6A2R43-			NOT ASSIGNED		
A4A6A2R49			RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A6A2R50	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A4A6A2R51			NOT ASSIGNED		
A4A6A2R52	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A4A6A2T1	85662-80001	1	COIL ASSEMBLY, TRANSFORMER	28480	85662-80001
A4A6A2U1	0955-0084	1	MIXER, DOUBLE-BALANCED, 200MW	28480	0955-0084
A4A6A2VR1	1902-0049	1	DIODE, ZNR 6.19V 5% DO-7 PD=.4W	0223G	FZ7240
			A4A6A2 MISCELLANEOUS PARTS		
	6960-0016		PLUG-HOLE .125" DIA	28480	6960-0016

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A7	85662-60004	1	BOARD ASSEMBLY, 3 MHZ BANDWIDTH FILTER	28480	85662-60004
A4A7C1	0160-2055	37	CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C2	0160-2261	1	CAPACITOR-PXD 15PF +-5% 500VDC CER0+-30	28480	0160-2261
A4A7C3	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C4	0160-2250		CAPACITOR-PXD 5.1PF +-25PF 500VDC	28480	0160-2250
A4A7C5*	0160-4611	5	CAPACITOR-FXD 68 PF 300VDC	28480	0160-4611
A4A7C6	0121-0444	5	CAPACITOR-V TRMR-CER 3-9PF 160V PC-MTG	0146H	78-TRIKO-19 3-9 PF, N075
A4A7C7	0121-0105	5	CAPACITOR-V TRMR-CER 9-35PF 200V PC-MTG	73899	DV11PR35D
A4A7C8	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C9	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C10	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C11	0160-2250		CAPACITOR-PXD 5.1PF +-25PF 500VDC	28480	0160-2250
A4A7C12*	0160-4611		CAPACITOR-FXD 68 PF 300VDC	28480	0160-4611
A4A7C13	0121-0493	4	CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A4A7C14	0121-0444		CAPACITOR-V TRMR-CER 3-9PF 160V PC-MTG	0146H	78-TRIKO-19 3-9 PF, N075
A4A7C15	0121-0105		CAPACITOR-V TRMR-CER 9-35PF 200V PC-MTG	73899	DV11PR35D
A4A7C16	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C17	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C18	0160-2250		CAPACITOR-PXD 5.1PF +-25PF 500VDC	28480	0160-2250
A4A7C19	0160-2250		CAPACITOR-PXD 5.1PF +-25PF 500VDC	28480	0160-2250
A4A7C20	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C21*	0160-4611		CAPACITOR-FXD 68 PF 300VDC	28480	0160-4611
A4A7C22	0121-0493		CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A4A7C23	0121-0444		CAPACITOR-V TRMR-CER 3-9PF 160V PC-MTG	0146H	78-TRIKO-19 3-9 PF, N075
A4A7C24	0121-0105		CAPACITOR-V TRMR-CER 9-35PF 200V PC-MTG	73899	DV11PR35D
A4A7C25	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C26	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C27	0160-2250		CAPACITOR-PXD 5.1PF +-25PF 500VDC	28480	0160-2250
A4A7C28	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C29	0160-2250		CAPACITOR-PXD 5.1PF +-25PF 500VDC	28480	0160-2250
A4A7C30*	0160-4611		CAPACITOR-FXD 68 PF 300VDC	28480	0160-4611
A4A7C31	0121-0493		CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A4A7C32	0121-0444		CAPACITOR-V TRMR-CER 3-9PF 160V PC-MTG	0146H	78-TRIKO-19 3-9 PF, N075
A4A7C33	0121-0105		CAPACITOR-V TRMR-CER 9-35PF 200V PC-MTG	73899	DV11PR35D
A4A7C34	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C35	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C36	0160-2250		CAPACITOR-PXD 5.1PF +-25PF 500VDC	28480	0160-2250
A4A7C37	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C38	0160-2250		CAPACITOR-PXD 5.1PF +-25PF 500VDC	28480	0160-2250
A4A7C39*	0160-4611		CAPACITOR-FXD 68 PF 300VDC	28480	0160-4611
A4A7C40	0121-0493		CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A4A7C41	0121-0444		CAPACITOR-V TRMR-CER 3-9PF 160V PC-MTG	0146H	78-TRIKO-19 3-9 PF, N075
A4A7C42	0121-0105		CAPACITOR-V TRMR-CER 9-35PF 200V PC-MTG	73899	DV11PR35D
A4A7C43	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C44	0160-2244	2	CAPACITOR-PXD 3PF +-25PF 500VDC	28480	0160-2244
A4A7C45	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C46	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C47	0160-2244		CAPACITOR-PXD 3PF +-25PF 500VDC	28480	0160-2244
A4A7C48	0160-4300	14	CAPACITOR-PXD .047UF +80-20% 100VDC CER	0420J	C023F101L4732822-CDH
A4A7C49	0180-0197	6	CAPACITOR-PXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A7C50	0180-0197		CAPACITOR-PXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A7C51	0180-0197		CAPACITOR-PXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A7C52	0180-0197		CAPACITOR-PXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A7C53	0180-0197		CAPACITOR-PXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A7C54	0180-0197		CAPACITOR-PXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A7C55	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C56	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C57	0160-4300		CAPACITOR-PXD .047UF +80-20% 100VDC CER	0420J	C023F101L4732822-CDH
A4A7C58	0160-4297	5	CAPACITOR-PXD .022UF +80-20% 100VDC CER	0420J	C023F101H2232822-CDH
A4A7C59	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C60	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C61	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C62	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C63	0160-4300		CAPACITOR-PXD .047UF +80-20% 100VDC CER	0420J	C023F101L4732822-CDH
A4A7C64	0160-4297		CAPACITOR-PXD .022UF +80-20% 100VDC CER	0420J	C023F101H2232822-CDH
A4A7C65	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C66	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C67	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C68	0160-2055		CAPACITOR-PXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A7C69	0160-4300		CAPACITOR-PXD .047UF +80-20% 100VDC CER	0420J	C023F101L4732822-CDH
A4A7C70	0160-4297		CAPACITOR-PXD .022UF +80-20% 100VDC CER	0420J	C023F101H2232822-CDH

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A7C71	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C72	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C73	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C74	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C75	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C76	0160-4297		CAPACITOR-FXD .022UF +80-20X 100VDC CER	0420J	C023F101H2232822-CDM
A4A7C77	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C78	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C79	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C80	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C81	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C82	0160-4297		CAPACITOR-FXD .022UF +80-20X 100VDC CER	0420J	C023F101H2232822-CDM
A4A7C83	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C84	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A4A7C85	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C86	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C87	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C88	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C89	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C90	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C91	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C92	0160-4300		CAPACITOR-FXD .047UF +80-20X 100VDC CER	0420J	C023F101L4732822-CDM
A4A7C93*	0160-2250	9	CAPACITOR-FXD 5.1PF +/- .25PF 500VDC	28480	0160-2250
A4A7CR1- A4A7CR30	1901-0040	30	DIODE-SWITCHING 30V 50MA 2N8 DD-35	28480	1901-0040
A4A7E1- A4A7E17	9170-0029	17	CORE-SHIELDING BEAD	01868	56-590-65A2/4A
A4A7L1	9100-1643	6	COIL-MLD 300UH 5X Q=65 .19DX,44LG	0327C	19/303
A4A7L2	9100-1648	5	COIL-MLD 560UH 5X Q=65 .19DX,44LG	0217B	15-1331-29J
A4A7L3	9100-1629	5	COIL-MLD 47UH 5X Q=55 .155DX,375LG	0217B	15-1315-4J
A4A7L4	9100-1643		COIL-MLD 300UH 5X Q=65 .19DX,44LG	0327C	19/303
A4A7L5	9100-1648		COIL-MLD 560UH 5X Q=65 .19DX,44LG	0217B	15-1331-29J
A4A7L6	9100-1629		COIL-MLD 47UH 5X Q=55 .155DX,375LG	0217B	15-1315-4J
A4A7L7	9100-1643		COIL-MLD 300UH 5X Q=65 .19DX,44LG	0327C	19/303
A4A7L8	9100-1648		COIL-MLD 560UH 5X Q=65 .19DX,44LG	0217B	15-1331-29J
A4A7L9	9100-1629		COIL-MLD 47UH 5X Q=55 .155DX,375LG	0217B	15-1315-4J
A4A7L10	9100-1643		COIL-MLD 300UH 5X Q=65 .19DX,44LG	0327C	19/303
A4A7L11	9100-1648		COIL-MLD 560UH 5X Q=65 .19DX,44LG	0217B	15-1331-29J
A4A7L12	9100-1629		COIL-MLD 47UH 5X Q=55 .155DX,375LG	0217B	15-1315-4J
A4A7L13	9100-1643		COIL-MLD 300UH 5X Q=65 .19DX,44LG	0327C	19/303
A4A7L14	9100-1648		COIL-MLD 560UH 5X Q=65 .19DX,44LG	0217B	15-1331-29J
A4A7L15	9100-1629		COIL-MLD 47UH 5X Q=55 .155DX,375LG	0217B	15-1315-4J
A4A7L16	9100-1643		COIL-MLD 300UH 5X Q=65 .19DX,44LG	0327C	19/303
A4A7L17	9140-0114	6	COIL-MLD 10UH 10X Q=55 .155DX,375LG	0217B	15-4445-2K
A4A7L18	9140-0114		COIL-MLD 10UH 10X Q=55 .155DX,375LG	0217B	15-4445-2K
A4A7L19	9140-0114		COIL-MLD 10UH 10X Q=55 .155DX,375LG	0217B	15-4445-2K
A4A7L20	9140-0114		COIL-MLD 10UH 10X Q=55 .155DX,375LG	0217B	15-4445-2K
A4A7L21	9140-0114		COIL-MLD 10UH 10X Q=55 .155DX,375LG	0217B	15-4445-2K
A4A7L22	9140-0114		COIL-MLD 10UH 10X Q=55 .155DX,375LG	0217B	15-4445-2K
A4A7Q1	1853-0034	6	TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A4A7Q2	1855-0081	5	TRANSISTOR J-FET 2N5245 N-CHAN D-MODE 8I	0169H	2N5245
A4A7Q3	1854-0404	5	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A7Q4	1854-0023	5	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A4A7Q5	1853-0034	5	TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A4A7Q6	1855-0081		TRANSISTOR J-FET 2N5245 N-CHAN D-MODE 8I	0169H	2N5245
A4A7Q7	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A7Q8	1854-0023		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A4A7Q9	1853-0034		TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A4A7Q10	1855-0081		TRANSISTOR J-FET 2N5245 N-CHAN D-MODE 8I	0169H	2N5245
A4A7Q11	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A7Q12	1854-0023		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A4A7Q13	1853-0034		TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A4A7Q14	1855-0081		TRANSISTOR J-FET 2N5245 N-CHAN D-MODE 8I	0169H	2N5245
A4A7Q15	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A7Q16	1854-0023		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A4A7Q17	1853-0034		TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A4A7Q18	1855-0081		TRANSISTOR J-FET 2N5245 N-CHAN D-MODE 8I	0169H	2N5245
A4A7Q19	1854-0023		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A4A7Q20	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A7Q21	1853-0034		TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0034
A4A7Q22	1854-0345	1	TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	0203G	2N5179
A4A7R1	0757-0441	1	RESISTOR 8.25K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-8251-F
A4A7R2	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
A4A7R3	0757-0346	1	RESISTOR 10 1% .125W F TC=0+-100	0329B	C4-1/8-T0-10R0-F
A4A7R4	0757-0401	9	RESISTOR 100 1% .125W F TC=0+-100	0329B	C4-1/8-T0-101-F
A4A7R5	0757-0394	9	RESISTOR 51.1 1% .125W F TC=0+-100	0329B	C4-1/8-T0-51R1-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
AAA7R6	0698-3154	5	RESISTOR 4.22K 1% .125W F TC0+/-100	03298	CA-1/8-T0-4221-F
AAA7R7	0757-0280	5	RESISTOR 1K 1% .125W F TC0+/-100	03298	CA-1/8-T0-1001-F
AAA7R8	0757-0379	3	RESISTOR 12.1 1% .125W F TC0+/-100	0299E	MF4C1/8-T0-12R1-F
AAA7R9	0757-0397	1	RESISTOR 68.1 1% .125W F TC0+/-100	03298	CA-1/8-T0-68R1-F
AAA7R10	0698-3447	6	RESISTOR 422 1% .125W F TC0+/-100	03298	CA-1/8-T0-422R-F
AAA7R11	0757-0420	5	RESISTOR 750 1% .125W F TC0+/-100	03298	CA-1/8-T0-751-F
AAA7R12*	0757-0444	4	RESISTOR 12.1K 1% .125W F TC0+/-100	0299E	MF 4C1/8-T0-1212-F
AAA7R13*	0757-0444		RESISTOR 12.1K 1% .125W F TC0+/-100	0299E	MF 4C1/8-T0-1212-F
AAA7R14	0757-0401		RESISTOR 100 1% .125W F TC0+/-100	03298	CA-1/8-T0-101-F
AAA7R15	0757-0405	5	RESISTOR 162 1% .125W F TC0+/-100	03298	CA-1/8-T0-162R-F
AAA7R16	0757-0394		RESISTOR 51.1 1% .125W F TC0+/-100	03298	CA-1/8-T0-51R1-F
AAA7R17	0698-3154		RESISTOR 4.22K 1% .125W F TC0+/-100	03298	CA-1/8-T0-4221-F
AAA7R18	0757-0280		RESISTOR 1K 1% .125W F TC0+/-100	03298	CA-1/8-T0-1001-F
AAA7R19	0757-0379		RESISTOR 12.1 1% .125W F TC0+/-100	0299E	MF4C1/8-T0-12R1-F
AAA7R20	0757-0401		RESISTOR 100 1% .125W F TC0+/-100	03298	CA-1/8-T0-101-F
AAA7R21	0698-3447		RESISTOR 422 1% .125W F TC0+/-100	03298	CA-1/8-T0-422R-F
AAA7R22	0757-0420		RESISTOR 750 1% .125W F TC0+/-100	03298	CA-1/8-T0-751-F
AAA7R23*	0757-0444		RESISTOR 12.1K 1% .125W F TC0+/-100	0299E	MF 4C1/8-T0-1212-F
AAA7R24*	0757-0444		RESISTOR 12.1K 1% .125W F TC0+/-100	0299E	MF 4C1/8-T0-1212-F
AAA7R25	0757-0416		RESISTOR 511 1% .125W F TC0+/-100	03298	CA-1/8-T0-511R-F
AAA7R26	0757-0405		RESISTOR 162 1% .125W F TC0+/-100	03298	CA-1/8-T0-162R-F
AAA7R27	0757-0394		RESISTOR 51.1 1% .125W F TC0+/-100	03298	CA-1/8-T0-51R1-F
AAA7R28	0698-3154		RESISTOR 4.22K 1% .125W F TC0+/-100	03298	CA-1/8-T0-4221-F
AAA7R29	0757-0280		RESISTOR 1K 1% .125W F TC0+/-100	03298	CA-1/8-T0-1001-F
AAA7R30	2100-3426		RESISTOR TRMR 20 10% C SIDE-ADJ 1-TRN	04568	72-1380
AAA7R31	0757-0401		RESISTOR 100 1% .125W F TC0+/-100	03298	CA-1/8-T0-101-F
AAA7R32	0698-3447		RESISTOR 422 1% .125W F TC0+/-100	03298	CA-1/8-T0-422R-F
AAA7R33	0757-0420		RESISTOR 750 1% .125W F TC0+/-100	03298	CA-1/8-T0-751-F
AAA7R34*	0757-0289	6	RESISTOR 13.3K 1% .125W F TC0+/-100	0299E	MF4C1/8-T0-1332-F
AAA7R35*	0757-0289		RESISTOR 13.3K 1% .125W F TC0+/-100	0299E	MF4C1/8-T0-1332-F
AAA7R36	0757-0416		RESISTOR 511 1% .125W F TC0+/-100	03298	CA-1/8-T0-511R-F
AAA7R37	0757-0405		RESISTOR 162 1% .125W F TC0+/-100	03298	CA-1/8-T0-162R-F
AAA7R38	0757-0394		RESISTOR 51.1 1% .125W F TC0+/-100	03298	CA-1/8-T0-51R1-F
AAA7R39	0698-3154		RESISTOR 4.22K 1% .125W F TC0+/-100	03298	CA-1/8-T0-4221-F
AAA7R40	0757-0280		RESISTOR 1K 1% .125W F TC0+/-100	03298	CA-1/8-T0-1001-F
AAA7R41	2100-3426		RESISTOR TRMR 20 10% C SIDE-ADJ 1-TRN	04568	72-138-0
AAA7R42	0757-0401		RESISTOR 100 1% .125W F TC0+/-100	03298	CA-1/8-T0-101-F
AAA7R43	0698-3447		RESISTOR 422 1% .125W F TC0+/-100	03298	CA-1/8-T0-422R-F
AAA7R44	0757-0420		RESISTOR 750 1% .125W F TC0+/-100	03298	CA-1/8-T0-751-F
AAA7R45*	0757-0289		RESISTOR 13.3K 1% .125W F TC0+/-100	0299E	MF4C1/8-T0-1332-F
AAA7R46*	0757-0289		RESISTOR 13.3K 1% .125W F TC0+/-100	0299E	MF4C1/8-T0-1332-F
AAA7R47	0757-0416		RESISTOR 511 1% .125W F TC0+/-100	03298	CA-1/8-T0-511R-F
AAA7R48	0757-0405		RESISTOR 162 1% .125W F TC0+/-100	03298	CA-1/8-T0-162R-F
AAA7R49	0757-0394		RESISTOR 51.1 1% .125W F TC0+/-100	03298	CA-1/8-T0-51R1-F
AAA7R50	0698-3154		RESISTOR 4.22K 1% .125W F TC0+/-100	03298	CA-1/8-T0-4221-F
AAA7R51	0757-0280		RESISTOR 1K 1% .125W F TC0+/-100	03298	CA-1/8-T0-1001-F
AAA7R52	0757-0379		RESISTOR 12.1 1% .125W F TC0+/-100	0299E	MF4C1/8-T0-12R1-F
AAA7R53	0757-0401		RESISTOR 100 1% .125W F TC0+/-100	03298	CA-1/8-T0-101-F
AAA7R54	0698-3447		RESISTOR 422 1% .125W F TC0+/-100	03298	CA-1/8-T0-422R-F
AAA7R55	0757-0420		RESISTOR 750 1% .125W F TC0+/-100	03298	CA-1/8-T0-751-F
AAA7R56*	0757-0289		RESISTOR 13.3K 1% .125W F TC0+/-100	0299E	MF4C1/8-T0-1332-F
AAA7R57*	0757-0289		RESISTOR 13.3K 1% .125W F TC0+/-100	0299E	MF4C1/8-T0-1332-F
AAA7R58	0757-0405		RESISTOR 162 1% .125W F TC0+/-100	03298	CA-1/8-T0-162R-F
AAA7R59	0698-3438	1	RESISTOR 147 1% .125W F TC0+/-100	03298	CA-1/8-T0-147R-F
AAA7R60*	0757-0276	1	RESISTOR 61.9 1% .125W F TC0+/-100	03298	CA-1/8-T0-61R9-F
AAA7R61	0698-3447		RESISTOR 422 1% .125W F TC0+/-100	03298	CA-1/8-T0-422R-F
AAA7R62	0698-3435	1	RESISTOR 36.3 1% .125W F TC0+/-100	03298	CA-1/8-T0-36R3-F
AAA7R63	0757-0401		RESISTOR 100 1% .125W F TC0+/-100	03298	CA-1/8-T0-101-F
AAA7R64	0757-0401		RESISTOR 100 1% .125W F TC0+/-100	03298	CA-1/8-T0-101-F
AAA7R65	0757-0401		RESISTOR 100 1% .125W F TC0+/-100	03298	CA-1/8-T0-101-F
AAA7R66*	0757-0394	11	RESISTOR 51.1 1% .125W F TC0+/-100	03298	CA-1/8-T0-51R1-F
AAA7R67	0698-3443	5	RESISTOR 287 1% .125W F TC0+/-100	03298	CA-1/8-T0-287R-F
AAA7R68*	0698-3437	5	RESISTOR 133 1% .125W F TC0+/-100	03298	CA-1/8-T0-133R-F
AAA7R69	0698-0082	5	RESISTOR 464 1% .125W F TC0+/-100	03298	CA-1/8-T0-4640-F
AAA7R70*	0757-0416	18	RESISTOR 511 1% .125W F TC0+/-100	03298	CA-1/8-T0-511R-F
AAA7R71	0757-0416		RESISTOR 511 1% .125W F TC0+/-100	03298	CA-1/8-T0-511R-F
AAA7R72*	0698-0083	5	RESISTOR 1.96K 1% .125W F TC0+/-100	03298	CA-1/8-T0-1961-F
AAA7R73	0757-0416		RESISTOR 511 1% .125W F TC0+/-100	03298	CA-1/8-T0-511R-F
AAA7R74*	0757-0394		RESISTOR 51.1 1% .125W F TC0+/-100	03298	CA-1/8-T0-51R1-F
AAA7R75	0698-3443		RESISTOR 287 1% .125W F TC0+/-100	03298	CA-1/8-T0-287R-F
AAA7R76*	0698-3437		RESISTOR 133 1% .125W F TC0+/-100	03298	CA-1/8-T0-133R-F
AAA7R77	0698-0082		RESISTOR 464 1% .125W F TC0+/-100	03298	CA-1/8-T0-4640-F
AAA7R78*	0757-0416		RESISTOR 511 1% .125W F TC0+/-100	03298	CA-1/8-T0-511R-F
AAA7R79	0757-0416		RESISTOR 511 1% .125W F TC0+/-100	03298	CA-1/8-T0-511R-F
AAA7R80*	0698-0083		RESISTOR 1.96K 1% .125W F TC0+/-100	03298	CA-1/8-T0-1961-F
AAA7R81	0757-0416		RESISTOR 511 1% .125W F TC0+/-100	03298	CA-1/8-T0-511R-F
AAA7R82*	0757-0394		RESISTOR 51.1 1% .125W F TC0+/-100	03298	CA-1/8-T0-51R1-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A7R83	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	03298	C4-1/8-T0-287R-F
A4A7R84*	0698-3437		RESISTOR 133 1% .125W F TC=0+-100	03298	C4-1/8-T0-133R-F
A4A7R85	0698-0082		RESISTOR 464 1% .125W F TC=0+-100	03298	C4-1/8-T0-4640-F
A4A7R86*	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R87	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R88*	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1961-F
A4A7R89	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R90*	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R91	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	03298	C4-1/8-T0-287R-F
A4A7R92*	0698-3437		RESISTOR 133 1% .125W F TC=0+-100	03298	C4-1/8-T0-133R-F
A4A7R93	0698-0082		RESISTOR 464 1% .125W F TC=0+-100	03298	C4-1/8-T0-4640-F
A4A7R94*	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R95	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R96*	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1961-F
A4A7R97	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R98*	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R99	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	03298	C4-1/8-T0-287R-F
A4A7R100*	0698-3437		RESISTOR 133 1% .125W F TC=0+-100	03298	C4-1/8-T0-133R-F
A4A7R101	0698-0082		RESISTOR 464 1% .125W F TC=0+-100	03298	C4-1/8-T0-4640-F
A4A7R102*	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R103	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R104*	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1961-F
A4A7R105	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
A4A7R106	0757-0465	4	RESISTOR 100K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1003-F
A4A7R107	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1003-F
A4A7R108	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1003-F
A4A7R109	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1003-F
A4A7TP1	0360-1788	10	CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7TP2	0360-1788		CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7TP3	0360-1788		CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7TP4	0360-1788		CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7TP5	0360-1788		CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7TP6	0360-1788		CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7TP7	0360-1788		CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7TP8	0360-1788		CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7TP9	0360-1788		CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7TP10	0360-1788		CONNECTOR=89L CONT PIN .045-IN-B8C-82 88	28480	0360-1788
A4A7Y1- A4A7Y5	0410-0404	1	CRYSTAL:QUARTZ,MATCHED SET OF FIVE	0013P	0410-0404
			A4A7 MISCELLANEOUS PARTS		
	6960-0016	1	PLUG-HOLE .125" DIA	28480	6960-0016

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A8	85662-60003	1	BOARD ASSEMBLY, ATTENUATOR-BANDWIDTH FLT	28480	85662-60003
A4A8C1	0140-0200	1	CAPACITOR-FXD 390PF +-5% 300VDC MICA0+70	72136	DM15F11J0300HV1CR
A4A8C2	0160-2055	46	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C3	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C6	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C7	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C8	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C9	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C10			NOT ASSIGNED		
A4A8C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C12	0160-2257	2	CAPACITOR-FXD 10PF +-5% 500VDC CER0+60	28480	0160-2257
A4A8C13	0121-0099	2	CAPACITOR-V TRMR-CER 2-8PF 350V PC-MTG	73899	DV11PR8A
A4A8C14*	0160-2249	2	CAPACITOR-FXD 4.7PF +-25PF 500VDC	28480	0160-2249
A4A8C15	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C17	0160-2207	2	CAPACITOR-FXD 300PF +-5% 300VDC MICA0+70	28480	0160-2207
A4A8C18	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C19	0160-4297	4	CAPACITOR-FXD .022UF +80-20% 100VDC CER	0420J	C023F101H223Z822-CDH
A4A8C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C21	0160-3456	2	CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A4A8C22	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C24	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C25	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C26	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	0420J	C023F101H223Z522-CDH
A4A8C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C28	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C29	0121-0446	2	CAPACITOR-V TRMR-CER 4.5-20PF 160V	0146H	78-TRIKO-19 4.5-20 PF, N750
A4A8C30	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C31	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C32	0121-0036	2	CAPACITOR-V TRMR-CER 5.5-18PF 350V	73899	DV11PR18A
A4A8C33	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C34	0160-3431	2	CAPACITOR-FXD 6.8PF +-5PF 500VDC	28480	0160-3431
A4A8C35*	0140-0194	4	CAPACITOR-FXD 110PF +-5% 300VDC MICA	72136	DM15F111J0300HV1CR
A4A8C36	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C37	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C38	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C39	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	0420J	C023F101H223Z822-CDH
A4A8C40	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C41	0160-2257		CAPACITOR-FXD 10PF +-5% 500VDC CER0+60	28480	0160-2257
A4A8C42	0121-0099		CAPACITOR-V TRMR-CER 2-8PF 350V PC-MTG	73899	DV11PR8A
A4A8C43*	0160-2249		CAPACITOR-FXD 4.7PF +-25PF 500VDC	28480	0160-2249
A4A8C44	0121-0446		CAPACITOR-V TRMR-CER 4.5-20PF 160V	0146H	78-TRIKO-19 4.5-20 PF, N750
A4A8C45	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C46	0121-0036		CAPACITOR-V TRMR-CER 5.5-18PF 350V	73899	DV11PR18A
A4A8C47	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C48	0160-3431		CAPACITOR-FXD 6.8PF +-5PF 500VDC	28480	0160-3431
A4A8C49*	0140-0194		CAPACITOR-FXD 110PF +-5% 300VDC MICA	72136	DM15F111J0300HV1CR
A4A8C50	0160-3456		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A4A8C51	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C52	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C53	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C54	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C55	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C56	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C57	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C58	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C59	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C60	0160-4297		CAPACITOR-FXD .022UF +80-20% 100VDC CER	0420J	C023F101H223Z522-CDH
A4A8C61	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C62	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C63*	0140-0194		CAPACITOR-FXD 110PF +-5% 300VDC MICA	72136	DM15F111J0300HV1CR
A4A8C64	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C65	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C66	0121-0452	2	CAPACITOR-V TRMR-AIR 1.3-5.4PF 250V	74970	187-0103-005
A4A8C67	0121-0452		CAPACITOR-V TRMR-AIR 1.3-5.4PF 250V	74970	187-0103-005
A4A8C68	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A8C69	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A448C70	0160-2207		CAPACITOR-FXD 300PF +/-5% 300VDC MICA0+70	28480	0160-2207
A448C71	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A448C72	0160-4084	2	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A448C73	0160-4084		CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A448C74	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A448C75	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A448CR1			NOT ASSIGNED		
A448CR2	1901-0050	2	DIODE-SWITCHING 80V 200MA 2N8 DO-7	28480	1901-0050
A448CR3	1901-0050		DIODE-SWITCHING 80V 200MA 2N8 DO-7	28480	1901-0050
A448CR4	1901-0047	10	DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A448CR5	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A448CR6	1901-1070	5	DIODE:PIN	28480	1901-1070
A448CR7	1901-1070		DIODE:PIN	28480	1901-1070
A448CR8	1901-0535	5	DIODE-SCHOTTKY	28480	1901-0535
A448CR9	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A448CR10	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A448CR11	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A448CR12	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A448CR13	1901-1070		DIODE:PIN	28480	1901-1070
A448CR14	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A448CR15	1901-0047		DIODE-SWITCHING 20V 75MA 10N8	28480	1901-0047
A448CR16	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A448CR17	1901-1070		DIODE:PIN	28480	1901-1070
A448CR18	1901-1070		DIODE:PIN	28480	1901-1070
A448CR19	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A448E1	9170-0029	12	CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E2	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E3	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E4	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E5	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E6	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E7	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E8	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E9	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E10	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E11	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448E12	9170-0029		CORE-SHIELDING BEAD	01888	56-590-65A2/4A
A448J1	1250-0690	1	CONNECTOR-RF 8MB M 86L-MOLE-FR 50-OHM	28480	1250-0690
A448L1	9100-1610	1	COIL-MLD 150NH 20% Q=50 .155DX,375LG	02178	15-4415-1M
A448L2	9140-0179	2	COIL-MLD 22UH 10% Q=75 .155DX,375LG	02178	15-4445-7J
A448L3	9100-1641	2	COIL-MLD 240UH 5% Q=65 .155DX,375LG	02178	15-1315-21J
A448L4	9100-1618	4	COIL-MLD 5.6UH 10% Q=45 .155DX,375LG	02178	15-4435-1K
A448L5	9140-0114	3	COIL-MLD 10UH 10% Q=55 .155DX,375LG	02178	15-4445-2K
A448L6	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG	02178	15-4445-2K
A448L7	9100-3854	2	COIL 400NH 5% Q=150 .3DX1,016LG	28480	9100-3854
A448L8	9140-0098	2	COIL-MLD 2.2UH 10% Q=33 .155DX,375LG	02178	15-4425-10K
A448L9	9100-1620	3	COIL-MLD 15UH 10% Q=65 .155DX,375LG	02178	15-4445-4K
A448L10	9100-1641		COIL-MLD 240UH 5% Q=65 .155DX,375LG	02178	15-1315-21J
A448L11	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG	02178	15-4435-1K
A448L12	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG	02178	15-4435-1K
A448L13	9140-0114		COIL-MLD 10UH 10% Q=55 .155DX,375LG	02178	15-4445-2K
A448L14	9100-3854		COIL 400NH 5% Q=150 .3DX1,016LG	28480	9100-3854
A448L15	9100-1620		COIL-MLD 15UH 10% Q=65 .155DX,375LG	02178	15-4445-4K
A448L16	9100-1620		COIL-MLD 15UH 10% Q=65 .155DX,375LG	02178	15-4445-4K
A448L17	9140-0098		COIL-MLD 2.2UH 10% Q=33 .155DX,375LG	02178	15-4425-10K
A448L18			NOT ASSIGNED		
A448L19	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX,375LG	02178	15-4435-1K
A448L20	9140-0179		COIL-MLD 22UH 10% Q=75 .155DX,375LG	02178	15-4445-7J
A448L21-			NOT ASSIGNED		
A448L32			COIL-MLD 1UH 10% Q=32 .095DX,25LG	02178	09-4426-6K
A448L33	9140-0158	1			
A448Q1	1854-0345	1	TRANSISTOR NPN 2N5179 SI TO-72 PD=200MW	02030	2N5179
A448Q2	1853-0007	5	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	02030	2N3251
A448Q3	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	02030	2N3251
A448Q4	1855-0267		TRANSISTOR J-FET N-CHAN D-MODE SI	0169H	SKA 3807
A448Q5	1854-0404	2	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A448Q6	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	02030	2N3251
A448Q7	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	02030	2N3251
A448Q8	1855-0267		TRANSISTOR J-FET N-CHAN D-MODE SI	0169H	SKA 3807
A448Q9	1853-0007		TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	02030	2N3251
A448Q10	1855-0267		TRANSISTOR J-FET N-CHAN D-MODE SI	0169H	SKA 3807
A448Q11	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A448R1	0757-0395	1	RESISTOR 56.2 1% .125W F TC=0+-100	03298	C4-1/8-T0-56R2-F
A448R2	0698-0083	1	RESISTOR 1.96K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1961-F
A448R3	0757-0401	5	RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
A448R4	0757-0294	1	RESISTOR 17.8 1% .125W F TC=0+-100	0299E	MF4C1/8-T0-17R8-F
A448R5	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
AAADR6	2100-3053	1	RESISTOR-TMR 20 20X C SIDE-ADJ 17-TRN	73138	89PR20
AAADR7	2100-3052	2	RESISTOR-TMR 50 20X C SIDE-ADJ 17-TRN	73138	89PR50
AAADR8	0757-0416	1	RESISTOR 311 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F
AAADR9	0698-3260	2	RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
AAADR10	0698-3260	2	RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
AAADR11	0757-0280	8	RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
AAADR12	0757-0401		RESISTOR 100 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
AAADR13	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
AAADR14	0698-3155	2	RESISTOR 4.64K 1% .125W F TC=0+-100	03298	C4-1/8-T0-4641-F
AAADR15	0698-0082	3	RESISTOR 464 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-4640-F
AAADR16	0698-3429	1	RESISTOR 19.6 1K 1% .125W F TC=0+-100	03888	PM255-1/8-T0-196-F
AAADR17	0757-0443	2	RESISTOR 11K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1102-F
AAADR18	0757-0443	4	RESISTOR 5.11K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5111-F
AAADR19	0757-0465	1	RESISTOR 100K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1003-F
AAADR20	0698-3441	2	RESISTOR 215 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-215R-F
AAADR21	0698-3444	2	RESISTOR 316 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-316R-F
AAADR22	0698-3442	2	RESISTOR 237 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-237R-F
AAADR23	0757-0279	2	RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3161-F
AAADR24	0757-0346	1	RESISTOR 10 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-10R0-F
AAADR25	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
AAADR26	0757-0440	3	RESISTOR 7.5K 1% .125W F TC=0+-100	03298	C4-1/8-T0-7501-F
AAADR27	0757-0290	4	RESISTOR 6.19K 1% .125W F TC=0+-100	0299E	MF4C1/8-T0-6191-F
AAADR28	0757-0290		RESISTOR 6.19K 1% .125W F TC=0+-100	0299E	MF4C1/8-T0-6191-F
AAADR29	0757-1094	2	RESISTOR 1.47K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1471-F
AAADR30	0698-3152	1	RESISTOR 3.48K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3481-F
AAADR31	0698-3156	4	RESISTOR 14.7K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1472-F
AAADR32	0698-3156		RESISTOR 14.7K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1472-F
AAADR33	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
AAADR34			FACTORY SELECTED PART-NORMALLY OPEN		
AAADR35	2100-3165	1	RESISTOR-TMR 2M 10% C SIDE-ADJ 17-TRN	01885	43P205
AAADR36			FACTORY SELECTED PART NORMALLY OPEN		
AAADR37			NOT ASSIGNED		
AAADR38	0757-1094	3	RESISTOR 1.47K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1471-F
AAADR39	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
AAADR40	2100-3052		RESISTOR-TMR 50 20X C SIDE-ADJ 17-TRN	73138	89PR50
AAADR41	0757-0401		RESISTOR 100 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
AAADR42	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
AAADR43	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	03298	C4-1/8-T0-4641-F
AAADR44	0698-0082		RESISTOR 464 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-4640-F
AAADR45	0757-0443		RESISTOR 11K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1102-F
AAADR46	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5111-F
AAADR47	0698-3441		RESISTOR 215 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-215R-F
AAADR48	0698-3444		RESISTOR 316 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-316R-F
AAADR49	0698-3442		RESISTOR 237 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-237R-F
AAADR50	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
AAADR51	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	03298	C4-1/8-T0-3161-F
AAADR52	0757-0440		RESISTOR 7.5K 1% .125W F TC=0+-100	03298	C4-1/8-T0-7501-F
AAADR53	0757-0290		RESISTOR 6.19K 1% .125W F TC=0+-100	0299E	MF4C1/8-T0-6191-F
AAADR54	0757-0290		RESISTOR 6.19K 1% .125W F TC=0+-100	0299E	MF4C1/8-T0-6191-F
AAADR55	0757-0440		RESISTOR 7.5K 1% .125W F TC=0+-100	03298	C4-1/8-T0-7501-F
AAADR56	0698-3156		RESISTOR 14.7K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1472-F
AAADR57	0698-3156		RESISTOR 14.7K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1472-F
AAADR58	0698-3440	1	RESISTOR 196 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-196R-F
AAADR59	0698-0082		RESISTOR 464 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-4640-F
AAADR60	0698-3154	2	RESISTOR 4.22K 1% .125W F TC=0+-100	03298	C4-1/8-T0-4221-F
AAADR61	0698-3154		RESISTOR 4.22K 1% .125W F TC=0+-100	03298	C4-1/8-T0-4221-F
AAADR62	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
AAADR63	0698-3443	1	RESISTOR 287 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-287R-F
AAADR64	0757-0401		RESISTOR 100 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-101-F
AAADR65			NOT ASSIGNED		
AAADR66	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5111-F
AAADR67	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5111-F
AAADR68	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1001-F
AAADR69	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
AAADR70	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	03298	C4-1/8-T0-1002-F
AAADTP1	0360-1788	4	CONNECTOR-88L CONT PIN .045-IN-88C-8Z 88	28480	0360-1788
AAADTP2	0360-1788		CONNECTOR-88L CONT PIN .045-IN-88C-8Z 88	28480	0360-1788
AAADTP3	1251-0600	5	TERMINAL-STUD 88L-PIN PRESS-MTG	28480	1251-0600
AAADTP4	0360-1788		CONNECTOR-88L CONT PIN .045-IN-88C-8Z 88	28480	0360-1788
AAADTP5	0360-1788		CONNECTOR-88L CONT PIN .045-IN-88C-8Z 88	28480	0360-1788
AAADTP6	1251-0600		TERMINAL-STUD 88L-PIN PRESS-MTG	28480	1251-0600
AAADTP7	1251-0600		TERMINAL-STUD 88L-PIN PRESS-MTG	28480	1251-0600
AAADTP8	1251-0600		TERMINAL-STUD 88L-PIN PRESS-MTG	28480	1251-0600
AAADTP9	1251-0600		TERMINAL-STUD 88L-PIN PRESS-MTG	28480	1251-0600

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A48BVR1	1902-3139	1	DIODE-ZNR 0.25V SK DO-7 PD=4W TC=+.053K	02230	FZ7252
A48BY1-Y2	0410-1026	1	CRYSTAL, 21.4 MHZ, SET OF SIX INCLUDES A48BY1-Y2, A48A1Y1)	28480	0410-1026
	86701-40001	1	EXTRACTOR, PC BOARD	28480	86701-40001
	6960-0016	1	PLUG-HOLE .125" DIA	28480	6960-0016

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A9	85662-60089	1	BOARD ASSY: IF CONTROL	28480	85662-60089
A4A9C1	0180-0197	5	CAPACITOR:F XD 2.2 UF \pm 10% 20VDC	04200	150D225X9020A2
A4A9C2	0180-0197		CAPACITOR:F XD 2.2 UF \pm 10% 20VDC	04200	150D225X9020A2
A4A9C3	0180-0197		CAPACITOR:F XD 2.2 UF \pm 10% 20VDC	04200	150D225X9020A2
A4A9C4	0180-0197		CAPACITOR:F XD 2.2 UF \pm 10% 20VDC	04200	150D225X9020A2
A4A9C5	0180-0197		CAPACITOR:F XD 2.2 UF \pm 10% 20VDC	04200	150D225X9020A2
A4A9C6	0160-2055	1	CAPACITOR:F XD .01UF +80 -20% 100VDC	28480	0160-2055
A4A9C7	0160-3878	4	CAPACITOR:F XD 1000PF \pm 20% 100VDC	28480	0160-3878
A4A9C8	0160-3878		CAPACITOR:F XD 1000PF \pm 20% 100VDC	28480	0160-3878
A4A9C9	0160-3878		CAPACITOR:F XD 1000PF \pm 20% 100VDC	28480	0160-3878
A4A9C10	0160-3878		CAPACITOR:F XD 1000PF \pm 20% 100VDC	28480	0160-3878
A4A9CR1	1901-0040	12	DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR2	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR3			NOT ASSIGNED		
A4A9CR4	1901-0050	6	DIODE:SWITCHING 80V 200MA 2NS	28480	1901-0050
A4A9CR5	1901-0050		DIODE:SWITCHING 80V 200MA 2NS	28480	1901-0050
A4A9CR6	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR7	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR8	1901-0050		DIODE:SWITCHING 80V 200MA 2NS	28480	1901-0050
A4A9CR9	1901-0050		DIODE:SWITCHING 80V 200MA 2NS	28480	1901-0050
A4A9CR10	1901-0050		DIODE:SWITCHING 80V 200MA 2NS	28480	1901-0050
A4A9CR11	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR12	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR13	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR14	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR15	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR16	1910-0016	2	DIODE:GE 60V 60MA 1US	28480	1910-0016
A4A9CR17	1910-0016		DIODE:GE 60V 60MA 1US	28480	1910-0016
A4A9CR18	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR19	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR20	1901-0040		DIODE:SWITCHING 30V 50MA 2NS	28480	1901-0040
A4A9CR21	1901-0050		DIODE:SWITCHING 80V 200MA 2NS	28480	1901-0050
A4A9L1	9100-1618	1	COIL:MOLDED 5.6UH 10% Q=45	02172	15-4435-1K
A4A9Q1	1854-0477	1	TRANSISTOR:NPN SI PD=500MW	02237	2N2222A
A4A9Q2	1853-0281	9	TRANSISTOR:PNP SI PD=400MW	02037	2N2907A
A4A9Q3	1853-0281		TRANSISTOR:PNP SI PD=400MW	02037	2N2907A
A4A9Q4	1854-0404	19	TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q5	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q6	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q7	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q8	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A9Q9	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q10	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q11	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q12	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q13	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q14	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q15	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q16	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q17	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q18	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q19	1954-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q20	1853-0281		TRANSISTOR:PNP SI PD=400MW	02037	2N2907A
A4A9Q21	1853-0281		TRANSISTOR:PNP SI PD=400MW	02037	2N2907A
A4A9Q22	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q23	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q24	1854-0404		TRANSISTOR:NPN SI PD=360MW	28480	1854-0404
A4A9Q25	1853-0281		TRANSISTOR:PNP SI PD=400MW	02037	2N2907A
A4A9Q26	1853-0281		TRANSISTOR:PNP SI PD=400MW	02037	2N2907A
A4A9Q27	1853-0281		TRANSISTOR:PNP SI PD=400MW	02037	2N2907A
A4A9Q28	1853-0281		TRANSISTOR:PNP SI PD=400MW	02037	2N2907A
A4A9Q29	1853-0281		TRANSISTOR:PNP SI PD=400MW	02037	2N2907A
A4A9R1	0698-0085	17	RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R2	0698-0085		RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R3	0698-0085		RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R4	0698-0085		RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R5	0698-0085		RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R6	0698-0085		RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R7	0698-0085		RESISTOR:2.16K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R8	0698-0085		RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R9	0698-0085		RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R10	0698-0085		RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R11	0698-0085		RESISTOR:2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R12	0757-0442	10	RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1002-F
A4A9R13	0757-0280	2	RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1001-F
A4A9R14	0757-0442		RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1002-F
A4A9R15	0757-0442		RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1002-F
A4A9R16	0757-0317	1	RESISTOR:1.33K 1% .125W	03292	C4-1/8-TO-1331-F
A4A9R17	0757-0442		RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1002-F
A4A9R18	0757-0442		RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1002-F
A4A9R19	0757-0442		RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1002-F
A4A9R20	0757-0442		RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1002-F
A4A9R21	0757-0442		RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1002-F
A4A9R22	0698-3160	1	RESISTOR:31.6K 1% .125W	03292	C4-1/8-TO-3162-F
A4A9R23	0757-0467	1	RESISTOR:121K 1% .125W	03292	C4-1/8-TO-1213-F
A4A9R24	0698-3158	1	RESISTOR:23.7K 1% .125W	03292	C4-1/8-TO-2372-F
A4A9R25	0757-0459	1	RESISTOR:56.2K 1% .125W	03292	C4-1/8-TO-5622-F
A4A9R26	0757-0458	2	RESISTOR:51.1K 1% .125W	03292	C4-1/8-TO-5112-F
A4A9R27	0757-0442		RESISTOR:10K 1% .125W	03292	C4-1/8-TO-1002-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A9R28	0757-0458		RESISTOR: 51.1K 1% .125W	03292	C4-1/8-TO-5112-F
A4A9R29	0757-0420	1	RESISTOR: 750 1% .125W	03292	C4-1/8-TO-751-F
A4A9R30	0757-0438	9	RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R31	0757-0438		RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R31	0757-0438		RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R32	0757-0438		RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R33	0757-0438		RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R34	0757-0438		RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R35	0757-0438		RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R36	0757-0438		RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R37	0698-0085		RESISTOR: 2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R38	0698-0085		RESISTOR: 2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R39	0698-0085		RESISTOR: 2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R40			NOT ASSIGNED		
A4A9R41	0698-8824	1	RESISTOR: 562K 1% .125W	02995	MF4C
A4A9R42	0698-3455	2	RESISTOR: 261K 1% .125W	03282	C4-1/8-TO-2613-F
A4A9R43	0698-0085		RESISTOR: 2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R44	0757-0428	1	RESISTOR: 1.62K 1% .125W	03292	C4-1/8-TO-1621-F
A4A9R45	0757-0280		RESISTOR: 1K 1% .125W	03292	C4-1/8-TO-1001-F
A4A9R46	0757-0419	2	RESISTOR: 681 1% .125W	03292	C4-1/8-TO-681R-F
A4A9R47	0757-0438		RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R48	0698-0083	2	RESISTOR: 1.96K 1% .125W	03292	C4-1/8-TO-1961-F
A4A9R49	0698-3260	3	RESISTOR: 464K 1% .125W	02995	MF4C-1
A4A9R50	0698-3260		RESISTOR: 464K 1% .125W	02995	MF4C-1
A4A9R51	0698-0083		RESISTOR: 1.96K 1% .125W	03292	C4-1/8-TO-1961-F
A4A9R52	0698-3150	1	RESISTOR: 2.37K 1% .125W	03292	C4-1/8-TO-2371-F
A4A9R53	0698-3158		RESISTOR: 23.7K 1% .125W	03292	C4-1/8-TO-2372-F
A4A9R54	0698-3260		RESISTOR: 464K 1% .125W	02995	MF4C-1
A4A9R55	0757-0442		RESISTOR: 10K 1% .125W	03292	C4-1/8-TO-1002-F
A4A9R56	0757-0279	2	RESISTOR: 3.16K 1% .125W	03292	C4-1/8-TO-3161-F
A4A9R57	0698-3153	1	RESISTOR: 3.83K 1% .125W	03292	C4-1/8-TO-3831-F
A4A9R58	0698-0085		RESISTOR: 2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R59	0698-0085		RESISTOR: 2.61K 1% .125W	03292	C4-1/8-TO-2611-F
A4A9R60	2100-3109	1	RESISTOR: TRMR 2K 10% 17-TRN	03744	3006P-1-202
A4A9R61	2100-3103	1	RESISTOR: TRMR 10K 10% 17-TRN	03744	3006P-1-103
A4A9R62	2100-3054	1	RESISTOR: TRMR 50K 10% 17-TRN	03744	3006P-1-503
A4A9R63	0757-0419		RESISTOR: 681 1% .125W	03292	C4-1/8-TO-681R-F
A4A9R64	0757-0438		RESISTOR: 5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A4A9R65	2100-3094	1	RESISTOR: TRMR 100K 10% 17-TRN	03744	3006P-1-104
A4A9R66	2100-3161	1	RESISTOR: TRMR 20K 10% 17-TRN	03744	3006P-1-203
A4A9R67	0757-0465	1	RESISTOR: 100K 1% .125W	03292	C4-1/8-TO-1003-F
A4A9R68	0757-0279		RESISTOR: 3.16K 1% .125W	03292	C4-1/8-TO-3161-F
A4A9R69	0698-3455		RESISTOR: 261K 1% .125W	03292	C4-1/8-TO-2613-F
A4A9R70	0698-3456	1	RESISTOR: 287K 1% .125W	03292	C4-1/8-2873-F
A4A9R71	0698-3453	1	RESISTOR: 196K 1% .125W	03292	C4-1/8-TO-1963-F
A4A9TP1	1251-0600	2	CONTACT: CONNECTOR POST MALE	28480	1251-0600
A4A9TP2	1251-0600		CONTACT: CONNECTOR POST MALE	28480	1251-0600
A4A9U1	1826-0092	1	IC: OP AMP	28480	1826-0092

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A9U2	1820-1418	3	IC: 4-TO-10 LINE DECODER	01698	SN74LS42N
A4A9U3	1820-1195	1	IC: TTL D-TYPE FF	01698	SN74LS175N
A4A9U4	8120-1418		IC: 4-TO-10 LINE DECOEER	01698	SN74LS42N
A4A9U5	1810-0206	1	NETWORK: RESISTOR 8-PIN-SIP 10K	02483	750-81-R10K
A4A9U6	1820-1196	5	IC: TTL D-TYPE FF	01698	SN74LS174N
A4A9U7	1820-1216	1	IC: TTL 3-TO-8 LINE DECODER	01698	SN74LS138N
A4A9U8	1820-1196		IC: TTL D-TYPE FF	01698	SN74LS174N
A4A9U9	1820-1196		IC: TTL D-TYPE FF	01698	SN74LS174N
A4A9U10	1820-1196		IC: TTL D-TYPE FF	01698	SN74LS174N
A4A9U11	1820-1196		IC: TTL D-TYPE FF	01698	SN74LS174N
A4A9U12	1820-1418		IC: 4-TO-10 LINE DECODER	01698	SN74LS42N
A4A9U13	1820-0668	1	IC: TTL NON-INV HEX BFR	01698	SN7407N
A4A9VR1	1902-0041	1	DIODE: ZENER 5.11V 5% PD=.4W	02763	CD 35622
A4A9VR2	1902-3203	1	DIODE: ZENER 14.7V 5% PD=.4W	02237	FZ7206

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A10	85662-60020	1	BOARD ASSEMBLY, IF-VIDEO MOTHER BOARD	28480	85662-60020
A4A10C1	0180-1746	2	CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X902082
A4A10C2	0180-0229	1	CAPACITOR-FXD 33UF+-10% 10VDC TA	56289	150D336X901082
A4A10C3	0180-1746	1	CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X902082
A4A10C4	0160-4297	13	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C5	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C6	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C7	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C8	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C9	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C10	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C11	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C12	0160-4297	2	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C13	0160-2055	1	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A10C14	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C15	0160-2055	1	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A10C16	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C17	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C18	0160-4297	1	CAPACITOR-FXD .022UF +80-20% 100VDC CER	56289	C023F101M223Z822-CDM
A4A10C19	0160-3878	4	CAPACITOR-FXD 1000PF 100V CER	28480	0160-3878
A4A10C20	0160-3878	1	CAPACITOR-FXD 1000PF 100V CER	28480	0160-3878
A4A10C21	0160-3878	1	CAPACITOR-FXD 1000PF 100V CER	28480	0160-3878
A4A10C22	0160-3878	1	CAPACITOR-FXD 1000PF 100V CER	28480	0160-3878
A4A10C23	0160-3879	1	CAPACITOR-FXD .01UF ± 20% 100VDC CER	28480	0160-3879
A4A10J1	1251-4828	1	CONNECTOR 50-PIN M POST TYPE	28480	1251-4828
A4A10J2	1251-3276	1	CONNECTOR 6-PIN M POST TYPE	28480	1251-3276
A4A10L1	9100-1618	11	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L2	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L3	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L4	08558-8001	3	FILTER, COIL, BLUE	28480	08558-80011
A4A10L5	08558-8001	1	FILTER, COIL, BLUE	28480	08558-80011
A4A10L6	08558-8001	1	FILTER, COIL, BLUE	28480	08558-80011
A4A10L7	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L8	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L9	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L10	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L11	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L12	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L13	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10L14	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A4A10R1	0757-0401	4	RESISTOR 100 1% .125W F TC=0+/-100	24546	C4-1/8-T0-101-F
A4A10R2	0757-0401	1	RESISTOR 100 1% .125W F TC=0+/-100	24546	C4-1/8-T0-101-F
A4A10R3	0757-0401	1	RESISTOR 100 1% .125W F TC=0+/-100	24546	C4-1/8-T0-101-F
A4A10R4	0757-0401	1	RESISTOR 100 1% .125W F TC=0+/-100	24546	C4-1/8-T0-101-F
A4XA1P1	1251-0472	15	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA1P2	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA2P1	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA2P2	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA3P1	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA3P2	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA5P2	1251-2034	1	CONNECTOR-PC EDGE 10-CONT/ROW 2-ROWS	28480	1251-2034
A4XA9P1	1251-2026	2	CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A4XA9P2	1251-2026	1	CONNECTOR-PC EDGE 18-CONT/ROW 2-ROWS	28480	1251-2026
A4XA4P1	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA4P2	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA5P1	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA6A1P1	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA6A2P1	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA7P1	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA7P2	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA8P1	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472
A4XA8P2	1251-0472	1	CONNECTOR-PC EDGE 6-CONT/ROW 2-ROWS	28480	1251-0472

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5	85680-60051	1	FRONT PANEL(INCLUDES A5A1 KEYBOARD, A5A3 CONNECTOR ASSY,DC INPUT, A5A4 BLOCKING CAPACITOR, W1-W3, AND W31)	28480	85680-60051
A5	85680-60050		75-OHM VERSION OF 85680-60051	28480	85680-60050
A5A1	08568-60117	1	INPUT ATTENUATOR/ERROR CORRECTION ROM REPLACEMENT ASSEMBLY (INCLUDES W42 AND A12U17)	28480	08568-60117
A5D91	1990-0487	1	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5D92	1990-0486	2	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4684
A5D93	1990-0486		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4684
A5J1			P/O W31-NOT SEPARATELY REPLACEABLE		
A5J2	5060-0467	1	CONNECTOR, MALE, PROBE POWER	28480	5060-0467
A5J3			P/O A5A3-NOT SEPARATELY REPLACEABLE		
A5J4			P/O A5A4-NOT SEPARATELY REPLACEABLE		
A5J5			P/O A5A1-NOT SEPARATELY REPLACEABLE		
A5J6			P/O A5A1-NOT SEPARATELY REPLACEABLE		
A5J7			P/O A5A1-NOT SEPARATELY REPLACEABLE		
A5J8			P/O A5K1-NOT SEPARATELY REPLACEABLE		
A5J9			P/O A5K1-NOT SEPARATELY REPLACEABLE		
A5J10			P/O A5K1-NOT SEPARATELY REPLACEABLE		
A5K1	3106-0024	1	SWITCH, COAX SMA 0-2G	28480	3106-0024
A5R1	2100-2488	1	RESISTOR-VAR CONTROL CCP 10K 10% LIN	28480	2100-2488
A5RPG1	5060-0329	1	ROTARY PULSE GENERATOR	28480	5060-0329
A5S1	3101-2193	1	SWITCH, ROCKER SPDT	28480	3101-2193
A5A1	85680-60019	1	BOARD ASSEMBLY, KEYBOARD	28480	85680-60019
A5A1D81	1990-0487	10	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1D82	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1D83	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1D84	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1D85	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1D86	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1D87	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1D88	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1D89	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1D810	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A1J1	1251-4828	1	CONNECTOR 50-PIN M POST TYPE	28480	1251-4828
A5A181- A5A1849	5060-9436	49	SWITCH, PC BOARD (SEE FIGURE 6-7 FOR KEYS)	28480	5060-9436
A5A1U1	1810-0203	2	NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	11236	750-81-R470
A5A1U2	1810-0203		NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	11236	750-81-R470
A5A1XD81	1200-0010	10	SOCKET-TUBE 2-CONT	28480	1200-0010
A5A1XD82	1200-0010		SOCKET-TUBE 2-CONT	28480	1200-0010
A5A1XD83	1200-0010		SOCKET-TUBE 2-CONT	28480	1200-0010
A5A1XD84	1200-0010		SOCKET-TUBE 2-CONT	28480	1200-0010
A5A1XD85	1200-0010		SOCKET-TUBE 2-CONT	28480	1200-0010
A5A1XD86	1200-0010		SOCKET-TUBE 2-CONT	28480	1200-0010
A5A1XD87	1200-0010		SOCKET-TUBE 2-CONT	28480	1200-0010
A5A1XD88	1200-0010		SOCKET-TUBE 2-CONT	28480	1200-0010
A5A1XD89	1200-0010		SOCKET-TUBE 2-CONT	28480	1200-0010
A5A1XD810	1200-0010		SOCKET-TUBE 2-CONT	28480	1200-0010
A5A2	5060-0329		ROTARY PULSE GENERATOR (RPG)	28480	5060-0329
A5A3	85680-60059		CONNECTOR ASSEMBLY, DC INPUT	28480	85680-60059
A5A3	85680-60116		CONNECTOR ASSEMBLY, DC INPUT 75Ω (OPTION 001)	28480	85680-60116
A5A3F1	1535-3716	1	FUSE, 1/8AMP	28480	1535-3716
A5A3J1	1250-1557	1	CONNECTOR, BNC FEMALE TO SMC FEMALE	28480	1250-1557
A5A4	85680-60053	1	BLOCKING CAPACITOR ASSEMBLY (REFER TO FIGURE 6-11)	28480	85680-60053
A5A5	85680-60117	1	BOARD ASSEMBLY, INPUT SELECT	28480	85680-60117
A5A5D91	1990-0487	2	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A5D92	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A5A5R1	0757-1094	2	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A5A5R2	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A5A581	5060-9436	2	SWITCH, PC BOARD (SEE FIGURE 6-7 FOR KEYS)	28480	5060-9436
A5A582	5060-9436		SWITCH, PC BOARD (SEE FIGURE 6-7 FOR KEYS)	28480	5060-9436

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6	85680-60011	1	BOARD ASSEMBLY, YIG-TUNED OSCILLATOR PHASE LOCK (INCLUDES #22)	28480	85680-60011
A6C1	0160-2055	19	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C2	0160-2203	1	CAPACITOR-FXD 91PF +-5% 300VDC MICA 0+70	28480	0160-2203
A6C3	0160-2202	1	CAPACITOR-FXD 75PF +-5% 300VDC MICA	28480	0160-2202
A6C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C6	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C7	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C8	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C9	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C11	0140-0193	4	CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300MV1CR
A6C12	0160-2255	1	CAPACITOR-FXD 8.2PF +--.25PF 500VDC CER	28480	0160-2255
A6C13	0140-0193		CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300MV1CR
A6C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C15	0160-4084	2	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A6C16	0140-0196	1	CAPACITOR-FXD 150PF +-5% 300VDC MICA	72136	DM15F151J0300MV1CR
A6C17	0140-0194	2	CAPACITOR-FXD 110PF +-5% 300VDC MICA	72136	DM15F111J0300MV1CR
A6C18	0140-0194		CAPACITOR-FXD 110PF +-5% 300VDC MICA	72136	DM15F111J0300MV1CR
A6C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C21			NOT ASSIGNED		
A6C22	0160-0301	1	CAPACITOR-FXD .012UF +-10% 200VDC POLYE	28480	0160-0301
A6C23			NOT ASSIGNED		
A6C24	0160-0163	1	CAPACITOR-FXD .033UF +-10% 200VDC POLYE	28480	0160-0163
A6C25	0160-0127	1	CAPACITOR-FXD 1UF +-20% 25VDC CER	28480	0160-0127
A6C26	0160-0945	2	CAPACITOR-FXD 910PF +-5% 100VDC MICA	28480	0160-0945
A6C27	0140-0193		CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300MV1CR
A6C28	0140-0192	2	CAPACITOR-FXD 68PF +-5% 300VDC MICA	72136	DM15E680J0300MV1CR
A6C29	0160-2264	1	CAPACITOR-FXD 20PF +-5% 500VDC CER 0+-30	28480	0160-2264
A6C30	0160-2254	1	CAPACITOR-FXD 7.5PF +--.25PF 500VDC CER	28480	0160-2254
A6C31	0140-0193		CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300MV1CR
A6C32	0140-0192		CAPACITOR-FXD 68PF +-5% 300VDC MICA	72136	DM15E680J0300MV1CR
A6C33	0160-0945		CAPACITOR-FXD 910PF +-5% 100VDC MICA	28480	0160-0945
A6C34	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C35	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C36	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C37	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A6C38	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C39	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C40	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C41	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C42	0160-3456	1	CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A6C43	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A6C44			NOT ASSIGNED		
A6C45			NOT ASSIGNED		
A6C46	0160-2437	1	CAPACITOR-FDTHRU 5000PF +80 -20% 200V	28480	0160-2437
A6C47	0160-2199	1	CAPACITOR-FXD 30PF +-5% 300VDC MICA	28480	0160-2199
A6CR1	1901-0040	7	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A6CR2	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A6CR3	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A6CR4-					
A6CR13			NOT ASSIGNED		
A6CR14	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A6CR15	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A6CR16	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A6CR17	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A6D81	1990-0487	3	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A6D82	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A6D83	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A6J1			PART OF #22		
A6J2	1250-0690	2	CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A6J3	1250-0690		CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A6L1			NOT ASSIGNED		
A6L2	9100-2257	1	COIL-MLD 820NH 10% Q=32 .095DX,25LG-NOM	28480	9100-2257
A6L3	9100-3319	2	COIL-MLD 740NH 2% .155DX,375LG-NOM	28480	9100-3319
A6L4	9100-1619	2	COIL-MLD 6.8UH 10% Q=50 .155DX,375LG-NOM	28480	9100-1619
A6L5	9100-3319	2	COIL-MLD 740NH 2% .155DX,375LG-NOM	28480	9100-3319
A6L6	9100-2259	2	COIL-MLD 1.5UH 10% Q=32 .095DX,25LG-NOM	28480	9100-2259
A6L7	9100-2256	2	COIL-MLD 560NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2256
A6L8	9100-1619		COIL-MLD 6.8UH 10% Q=50 .155DX,375LG-NOM	28480	9100-1619
A6L9	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX,375LG-NOM	28480	9100-1618
A6L10	9100-2259		COIL-MLD 1.5UH 10% Q=32 .095DX,25LG-NOM	28480	9100-2259

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6L11	9100-2256		COIL-MLD 560NH 10X Q#34 .095DX,25LG-NOM	28480	9100-2256
A6L12	9100-1620	2	COIL-MLD 15UH 10X Q#65 .155DX,375LG-NOM	28480	9100-1620
A6L13	9100-1620		COIL-MLD 15UH 10X Q#65 .155DX,375LG-NOM	28480	9100-1620
A6L14	9140-0096	3	COIL-MLD 1UH 10X Q#50 .155DX,375LG-NOM	28480	9140-0096
A6L15	9140-0096		COIL-MLD 1UH 10X Q#50 .155DX,375LG-NOM	28480	9140-0096
A6L16	9140-0096		COIL-MLD 1UH 10X Q#50 .155DX,375LG-NOM	28480	9140-0096
A6Q1	1854-0019	2	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A6Q2	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A6Q3	1853-0007	4	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A6Q4	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A6Q5	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A6Q6	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A6Q7	1854-0404	2	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A6Q8	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A6Q9	1854-0345	1	TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	04713	2N5179
A6Q10	1854-0009	1	TRANSISTOR NPN 2N709 8I TO-18 PD=300MW	28480	1854-0009
A6Q11	1853-0050	1	TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0050
A6Q12	1853-0020	1	TRANSISTOR J-PET N-CHAN D-MODE TO-18 8I	28480	1853-0020
A6Q13	1853-0049	1	TRANSISTOR-JPET DUAL N-CHAN D-MODE 8I	28480	1853-0049
A6R1	0757-1094	13	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R2	0698-3437	2	RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0=133R-F
A6R3	0698-3444	2	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0=316R-F
A6R4	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R5	0698-3132	4	RESISTOR 261 1% .125W F TC=0+-100	24546	C4-1/8-T0=2610-F
A6R6	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R7	0698-3441	4	RESISTOR 215 1% .125W F TC=0+-100	24546	C4-1/8-T0=215R-F
A6R8	0757-0316	2	RESISTOR 42.2 1% .125W F TC=0+-100	24546	C4-1/8-T0=42R2-F
A6R9	0757-0418	1	RESISTOR 619 1% .125W F TC=0+-100	24546	C4-1/8-T0=619R-F
A6R10	0757-0420	2	RESISTOR 750 1% .125W F TC=0+-100	24546	C4-1/8-T0=751-F
A6R11	0698-3441		RESISTOR 215 1% .125W F TC=0+-100	24546	C4-1/8-T0=215R-F
A6R12	0698-3441		RESISTOR 215 1% .125W F TC=0+-100	24546	C4-1/8-T0=215R-F
A6R13	0757-0398	1	RESISTOR 75 1% .125W F TC=0+-100	24546	C4-1/8-T0=75R0-F
A6R14	0698-3446	2	RESISTOR 383 1% .125W F TC=0+-100	24546	C4-1/8-T0=383R-F
A6R15	0757-0316		RESISTOR 42.2 1% .125W F TC=0+-100	24546	C4-1/8-T0=42R2-F
A6R16	0698-3439	1	RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0=178R-F
A6R17	0698-3437		RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0=133R-F
A6R18	0698-3444		RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0=316R-F
A6R19	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R20	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R21	0757-0442	8	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A6R22	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A6R23	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R24	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R25	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R26	0757-0280	2	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A6R27	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R28	0757-0424	1	RESISTOR 1.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1101-F
A6R29	0757-0447	1	RESISTOR 16.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1622-F
A6R30	0698-3152	1	RESISTOR 3.48K 1% .125W F TC=0+-100	24546	C4-1/8-T0=3481-F
A6R31	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R32	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R33	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R34	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A6R35	0757-0444	1	RESISTOR 12.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1212-F
A6R36	0698-3151	1	RESISTOR 2.87K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2871-F
A6R37			NOT ASSIGNED		
A6R38			NOT ASSIGNED		
A6R39	0698-0085	1	RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2611-F
A6R40	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A6R41	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A6R42	0698-0084	3	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2151-F
A6R43	0757-0289	1	RESISTOR 13.3K 1% .125W F TC=0+-100	19701	MF4C1/8-T0=1332-F
A6R44	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0=511R-F
A6R45	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A6R46			NOT ASSIGNED		
A6R47			NOT ASSIGNED		
A6R48	0698-3162	1	RESISTOR 46.4K 1% .125W F TC=0+-100	24546	C4-1/8-T0=4642-F
A6R49	0698-3154	1	RESISTOR 4.22K 1% .125W F TC=0+-100	24546	C4-1/8-T0=4221-F
A6R50			NOT ASSIGNED		
A6R51	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A6R52	0698-3132		RESISTOR 261 1% .125W F TC=0+-100	24546	C4-1/8-T0=2610-F
A6R53	0698-0084		RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0=2151-F
A6R54	0683-1055	1	RESISTOR 1M 5% .25W FC TC=800/+900	01121	CB1055
A6R55	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F

See introduction to this section for ordering information

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6R56	0698-3132	1	RESISTOR 261 1X .125W F TC0+-100	24546	C4-1/8-T0=2610-F
A6R57	0757-0294		RESISTOR 17.8 1X .125W F TC0+-100	19701	MF4C1/8-T0=1788-F
A6R58	0698-3132		RESISTOR 261 1X .125W F TC0+-100	24546	C4-1/8-T0=2610-F
A6R59	0757-0420		RESISTOR 750 1X .125W F TC0+-100	24546	C4-1/8-T0=751-F
A6R60	0757-0274		RESISTOR 1.21K 1X .125W F TC0+-100	24546	C4-1/8-T0=1213-F
A6R61			NOT ASSIGNED		
A6R62	0757-0290	2	RESISTOR 6.19K 1X .125W F TC0+-100	19701	MF4C1/8-T0=6191-F
A6R63	0757-0290		RESISTOR 6.19K 1X .125W F TC0+-100	19701	MF4C1/8-T0=6191-F
A6R64	0698-3440	1	RESISTOR 196 1X .125W F TC0+-100	24546	C4-1/8-T0=196R-F
A6R65	0698-0084		RESISTOR 2.15K 1X .125W F TC0+-100	24546	C4-1/8-T0=2151-F
A6R66	0698-3150	1	RESISTOR 2.37K 1X .125W F TC0+-100	24546	C4-1/8-T0=2371-F
A6R67	0757-0428		RESISTOR 1.62K 1X .125W F TC0+-100	24546	C4-1/8-T0=1621-F
A6R68	0698-3441	1	RESISTOR 215 1X .125W F TC0+-100	24546	C4-1/8-T0=215R-F
A6R69	0698-3446		RESISTOR 383 1X .125W F TC0+-100	24546	C4-1/8-T0=383R-F
A6R70	0757-0123	1	RESISTOR 34.8K 1X .125W F TC0+-100	28480	0757-0123
A6R71	0757-0280	1	RESISTOR 1K 1X .125W F TC0+-100	24546	C4-1/8-T0=1001-F
A6R72	0757-0442		RESISTOR 10K 1X .125W F TC0+-100	24546	C4-1/8-T0=1002-F
A6R73	0757-0458	1	RESISTOR 51.1K 1X .125W F TC0+-100	24546	C4-1/8-T0=5112-F
A6R74	0698-3447		RESISTOR 422 1X .125W F TC0+-100	24546	C4-1/8-T0=422R-F
A6R75	0757-0438	1	RESISTOR 5.11K 1X .125W F TC0+-100	24546	C4-1/8-T0=5111-F
A6TP1	0360-1514	7	TERMINAL-STUD 8GL-PIN PRESS-MTG	28480	0360-1514
A6TP2	0360-1514		TERMINAL-STUD 8GL-PIN PRESS-MTG	28480	0360-1514
A6TP3	0360-1514		TERMINAL-STUD 8GL-PIN PRESS-MTG	28480	0360-1514
A6TP4			PART OF C46		
A6TP5	0360-1514		TERMINAL-STUD 8GL-PIN PRESS-MTG	28480	0360-1514
A6TP6	0360-1514	1	TERMINAL-STUD 8GL-PIN PRESS-MTG	28480	0360-1514
A6TP7	0360-1514		TERMINAL-STUD 8GL-PIN PRESS-MTG	28480	0360-1514
A6TP8	0360-1514		TERMINAL-STUD 8GL-PIN PRESS-MTG	28480	0360-1514
A6U1	1820-0817	1	IC FF ECL D-M/8 DUAL	04713	MC10131P
A6U2	1820-0802		IC GATE ECL NOR QUAD 2-INP	04713	MC10102P
A6U3	1826-0416		IC SWITCH 16-DIP=C	27014	LF13331D
A6U4	1826-0089		IC 2525 OP AMP T0-99	29832	1322
A6U5			NOT ASSIGNED		
A6U6	1826-0161	1	IC 324 OP AMP 14-DIP-P	18324	LM324-A
A6U7	1820-1212		IC FF TTL L8 J-K NEG-EDGE-TRIG	01295	SN74LS12N
A6VR1	1902-3234	1	DIODE-ZNR 19.6V 5X DO-7 PD=.4W TC=+.073X	28480	1902-3234
A6VR2	1902-0049		DIODE-ZNR 6.19V 5X DO-7 PD=.4W TC=+.022X	28480	1902-0049
A6VR3	1902-3059	1	DIODE-ZNR 3.83V 5X DO-7 PD=.4W TC=-.051X	28480	1902-3059
A6VR4			NOT ASSIGNED		
A6VR5	1902-0126	1	DIODE-ZNR 2.61V 5X DO-7 PD=.4W TC=-.072X	28480	1902-0126
A6VR6		1	NOT ASSIGNED		
A6VR7	1902-3082		DIODE-ZNR 4.64V 5X DO-7 PD=.4W TC=-.023X	28480	1902-3082
			A6 MISCELLANEOUS		
	86701-40001	1	EXTRACTOR, PC BOARD	28480	86701-40001

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7	85680-60013	1	BOARD ASSEMBLY, 249MHZ PHASE LOCK OSC.	28480	85680-60013
A7C1	0160-3466	1	CAPACITOR-FXD 100PF +-10% 1KVDC CER	28480	0160-3466
A7C2	0160-2262	1	CAPACITOR-FXD 16PF +-5% 500VDC CER 0+-30	28480	0160-2262
A7C3	0121-0457	1	CAPACITOR-V TRMR-PSTN .8-8.5PF 750V	18736	TP9
A7C4			NOT ASSIGNED		
A7C5	0160-2055	4	CAPACITOR-FXD .01UF +-80-20% 100VDC CER	28480	0160-2055
A7C6	0160-2259	1	CAPACITOR-FXD 12PF +-5% 500VDC CER 0+-30	28480	0160-2259
A7C7			NOT ASSIGNED		
A7C8	0160-2055	1	CAPACITOR-FXD .01UF +-80-20% 100VDC CER	28480	0160-2055
A7C9	0160-4084	4	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A7C10	0160-3879	4	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A7C11	0160-2055		CAPACITOR-FXD .01UF +-80-20% 100VDC CER	28480	0160-2055
A7C12	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A7C13	0160-3879		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A7C14	0160-3879		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A7C15	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A7C16	0160-2055		CAPACITOR-FXD .01UF +-80-20% 100VDC CER	28480	0160-2055
A7C17	0160-3879		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A7C18	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A7C19	0180-0116	3	CAPACITOR-FXD 6.8UF+-10% 35VDC TA	56289	150D685X903582
A7C20	0180-0116		CAPACITOR-FXD 6.8UF+-10% 35VDC TA	56289	150D685X903582
A7C21	0160-2266	1	CAPACITOR-FXD 24PF +-5% 500VDC CER 0+-30	28480	0160-2266
A7C22	0160-2247	1	CAPACITOR-FXD 3.9PF +-25PF 500VDC CER	28480	0160-2247
A7C23	0150-0059	1	CAPACITOR-FXD 3.3PF +-25PF 500VDC CER	28480	0150-0059
A7C24	0180-0116		CAPACITOR-FXD 6.8UF+-10% 35VDC TA	56289	150D685X903582
A7C25	0160-2224	1	CAPACITOR-FXD 1800PF +-5% 300VDC MICA	28480	0160-2224
A7C26	0160-0945	1	CAPACITOR-FXD 910PF +-5% 100VDC MICA	28480	0160-0945
A7C27	0160-2227	1	CAPACITOR-FXD 2400PF +-5% 300VDC MICA	28480	0160-2227
A7C28	0160-2437	1	CAPACITOR-FDTHRU 5000PF +-80-20% 200V	28480	0160-2437
A7CR1	0122-0072	1	DIODE-VVC 2.2PF 5% C3/C25=MIN#4,5	04713	BB105B
A7J1	1250-0690	2	CONNECTOR-RF SMB M 9GL-HOLE-FR 50-OHM	28480	1250-0690
A7J2	1250-0690		CONNECTOR-RF SMB M 9GL-HOLE-FR 50-OHM	28480	1250-0690
A7L1	9140-0158	3	COIL-MLD 1UH 10% Q=32 .095DX,25LG-NOM	28480	9140-0158
A7L2	85680-8000	1	OSCILLATOR COIL	28480	85680-80005
A7L3	9140-0158		COIL-MLD 1UH 10% Q=32 .095DX,25LG-NOM	28480	9140-0158
A7L4	9140-0158		COIL-MLD 1UH 10% Q=32 .095DX,25LG-NOM	28480	9140-0158
A7L5	9100-0346	2	COIL-MLD 50NH 20% Q=40 .095DX,25LG-NOM	28480	9100-0346
A7L6	9100-2247	2	COIL-MLD 100NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2247
A7L7	9100-0346		COIL-MLD 50NH 20% Q=40 .095DX,25LG-NOM	28480	9100-0346
A7L8	9100-2247		COIL-MLD 100NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2247
A7L9	9140-0129	2	COIL-MLD 220UH 5% Q=65 .155DX,375LG-NOM	28480	9140-0129
A7L10	9140-0129		COIL-MLD 220UH 5% Q=65 .155DX,375LG-NOM	28480	9140-0129
A7L11	9100-2251	1	COIL-MLD 220NH 10% Q=32 .095DX,25LG-NOM	28480	9100-2251
A7L12	9100-1634	1	COIL-MLD 75UH 5% Q=55 .155DX,375LG-NOM	28480	9100-1634
A7L13	9100-1620	1	COIL-MLD 15UH 10% Q=65 .155DX,375LG-NOM	28480	9100-1620
A7L14	9100-1635	2	COIL-MLD 91UH 5% Q=50 .155DX,375LG-NOM	28480	9100-1635
A7L15	85680-8000	1	INDUCTOR, 68 UH	28480	85680-80007
A7L16	9140-0210	1	COIL-MLD 100UH 5% Q=50 .155DX,375LG-NOM	28480	9140-0210
A7L17	85680-8000	1	INDUCTOR, 42 UH	28480	85680-80006
A7L18	9100-1635		COIL-MLD 91UH 5% Q=50 .155DX,375LG-NOM	28480	9100-1635
A7Q1	1854-0345	3	TRANSISTOR NPN 2N5179 SI TO-72 PD=200MW	04713	2N5179
A7Q2	1854-0345		TRANSISTOR NPN 2N5179 SI TO-72 PD=200MW	04713	2N5179
A7Q3	1854-0345		TRANSISTOR NPN 2N5179 SI TO-72 PD=200MW	04713	2N5179
A7R1	0757-0424	1	RESISTOR 1.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1101-F
A7R2	0698-3447	5	RESISTOR 422 1% .125W F TC=0+-100	24546	C4-1/8-T0-422R-F
A7R3			NOT ASSIGNED		
A7R4			NOT ASSIGNED		
A7R5	0698-3439	4	RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0-178R-F
A7R6	0757-0180	2	RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180
A7R7	0698-3439	2	RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0-178R-F
A7R8	0757-0401	3	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101R-F
A7R9	0757-1094	2	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471R-F
A7R10	0698-3439		RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0-178R-F
A7R11	0757-0180		RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180
A7R12	0698-3439		RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0-178R-F
A7R13	0757-0416	2	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A7R14	0698-3447		RESISTOR 422 1% .125W F TC=0+-100	24546	C4-1/8-T0-422R-F
A7R15	0757-0378	2	RESISTOR 11 1% .125W F TC=0+-100	19701	MF4C1/8-T0-11R0-F
A7R16	0698-3447		RESISTOR 422 1% .125W F TC=0+-100	24546	C4-1/8-T0-422R-F
A7R17	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101R-F
A7R18	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471R-F
A7R19	0698-3447		RESISTOR 422 1% .125W F TC=0+-100	24546	C4-1/8-T0-422R-F
A7R20	0757-0378		RESISTOR 11 1% .125W F TC=0+-100	19701	MF4C1/8-T0-11R0-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7R21 A7R22 A7R23 A7R24 A7R25	0698-3447 0757-0394 0757-0401 0757-0442 0757-0416	1	RESISTOR 422 1% .125W F TC=0+-100 RESISTOR 51.1 1% .125W F TC=0+-100 RESISTOR 100 1% .125W F TC=0+-100 RESISTOR 10K 1% .125W F TC=0+-100 RESISTOR 511 1% .125W F TC=0+-100	24546 24546 24546 24546 24546	C4-1/8-T0-422H-F C4-1/8-T0-51R1-F C4-1/8-T0-101-F C4-1/8-T0-1002-F C4-1/8-T0-511R-F
A7TP1			PART OF C28		
			A7 MISCELLANEOUS PARTS		
	86701-40001	1	EXTRACTOR, PC BOARD	28480	86701-40001

See introduction to this section for ordering information

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number	
A8	85680-60014	1	BOARD ASSEMBLY, 249MHZ PHASE LOCK (INCLUDES W24)	28480	85680-60014	
A8C1	0160-2055	10	CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C2	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C3	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C4	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C5	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C6	0160-2055	1	CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C7	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C8	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C9	0160-0127		CAPACITOR-FXD 1UF +-20X 25VDC CER	28480	0160-0127	
A8C10	0140-0198		4	CAPACITOR-FXD 200PF +-5X 300VDC MICA	72136	DM15F201J0300NV1CR
A8C11	0140-0198	4	CAPACITOR-FXD 200PF +-5X 300VDC MICA	72136	DM15F201J0300NV1CR	
A8C12	0140-0198		CAPACITOR-FXD 200PF +-5X 300VDC MICA	72136	DM15F201J0300NV1CR	
A8C13	0140-0198		CAPACITOR-FXD 200PF +-5X 300VDC MICA	72136	DM15F201J0300NV1CR	
A8C14	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C15	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055	
A8C16	0160-2201	4	CAPACITOR-FXD 51PF +-5X 300VDC MICA	28480	0160-2201	
A8C17	0160-0161		2	CAPACITOR-FXD .01UF +-10X 200VDC POLYE	28480	0160-0161
A8C18	0180-0100	2	CAPACITOR-FXD 4.7UF +-10X 35VDC TA	56289	150D475X903582	
A8C19	0180-0229		2	CAPACITOR-FXD 33UF +-10X 10VDC TA	56289	150D336X901082
A8C20	0180-0229	2	CAPACITOR-FXD 33UF +-10X 10VDC TA	56289	150D336X901082	
A8C21	0180-0100	2	CAPACITOR-FXD 4.7UF +-10X 35VDC TA	56289	150D475X903582	
A8C22	0160-2201		CAPACITOR-FXD 51PF +-5X 300VDC MICA	28480	0160-2201	
A8C23	0160-0161		CAPACITOR-FXD .01UF +-10X 200VDC POLYE	28480	0160-0161	
A8C24	0160-2201		CAPACITOR-FXD 51PF +-5X 300VDC MICA	28480	0160-2201	
A8C25	0160-2201		CAPACITOR-FXD 51PF +-5X 300VDC MICA	28480	0160-2201	
A8CR1	1901-0040	1	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040	
A8D81	1990-0486	1	LED-VISIBLE LUM=INT=1MCD IF=20MA=MAX	28480	5082-4684	
A8J1	1250-0690	1	CONNECTOR-RF SMB M SGL-HOLE=FR 50-OHM	28480	1250-0690	
A8J2			PART OF W24			
A8L1	9100-2247	1	COIL-MLD 100NH 10X Q=34 .095DX.25LG-NOM	28480	9100-2247	
A8L2			NOT ASSIGNED			
A8L3	9100-1618	2	COIL-MLD 5.6UH 10X Q=45 .155DX.375LG-NOM	28480	9100-1618	
A8L4	08558-80011		2	FILTER, COIL, BLUE	28480	08558-80011
A8L5	08558-80011	2	FILTER, COIL, BLUE	28480	08558-80011	
A8L6	9100-1618		COIL-MLD 5.6UH 10X Q=45 .155DX.375LG-NOM	28480	9100-1618	
A8Q1	1853-0007	2	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	04713	2N3251	
A8Q2	1853-0007		2	TRANSISTOR PNP 2N3251 SI TO-18 PD=360MW	04713	2N3251
A8Q3	1853-0018	2	TRANSISTOR PNP 8I TO-72 PD=200MW FT=1GHZ	28480	1853-0018	
A8Q4	1853-0018		2	TRANSISTOR PNP 8I TO-72 PD=200MW FT=1GHZ	28480	1853-0018
A8Q5	1854-0404	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A8Q6	1854-0023	2	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023	
A8Q7	1854-0023		2	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A8R1	0757-0405	1	RESISTOR 162 1X .125W F TC=0+-100	24546	C4-1/8-T0=162R-F	
A8R2	0757-0401	3	RESISTOR 100 1X .125W F TC=0+-100	24546	C4-1/8-T0=101-F	
A8R3	0757-0280	12	RESISTOR 1K 1X .125W F TC=0+-100	24546	C4-1/8-T0=1001-F	
A8R4	0757-0280		RESISTOR 1K 1X .125W F TC=0+-100	24546	C4-1/8-T0=1001-F	
A8R5	0757-0288	3	RESISTOR 9.09K 1X .125W F TC=0+-100	19701	MF4C1/8-T0=9091-F	
A8R6	0757-0288	3	RESISTOR 9.09K 1X .125W F TC=0+-100	19701	MF4C1/8-T0=9091-F	
A8R7	0757-0288		RESISTOR 9.09K 1X .125W F TC=0+-100	19701	MF4C1/8-T0=9091-F	
A8R8	0757-0289		RESISTOR 13.3K 1X .125W F TC=0+-100	19701	MF4C1/8-T0=1332-F	
A8R9	0757-0289		RESISTOR 13.3K 1X .125W F TC=0+-100	19701	MF4C1/8-T0=1332-F	
A8R10	0757-0289		RESISTOR 13.3K 1X .125W F TC=0+-100	19701	MF4C1/8-T0=1332-F	
A8R11	0698-3437	2	RESISTOR 133 1X .125W F TC=0+-100	24546	C4-1/8-T0=133R-F	
A8R12	0757-0399		5	RESISTOR 82.5 1X .125W F TC=0+-100	24546	C4-1/8-T0=82R5-F
A8R13	0698-3443		3	RESISTOR 287 1X .125W F TC=0+-100	24546	C4-1/8-T0=287R-F
A8R14	0757-0418		2	RESISTOR 619 1X .125W F TC=0+-100	24546	C4-1/8-T0=619R-F
A8R15	0757-0418		2	RESISTOR 619 1X .125W F TC=0+-100	24546	C4-1/8-T0=619R-F
A8R16	0757-0422	1	RESISTOR 909 1X .125W F TC=0+-100	24546	C4-1/8-T0=909R-F	
A8R17	0757-0402	1	RESISTOR 110 1X .125W F TC=0+-100	24546	C4-1/8-T0=111-F	
A8R18	0698-3441	1	RESISTOR 215 1X .125W F TC=0+-100	24546	C4-1/8-T0=215R-F	
A8R19	0757-0424	1	RESISTOR 1.1K 1X .125W F TC=0+-100	24546	C4-1/8-T0=1101-F	
A8R20	0757-0280		RESISTOR 1K 1X .125W F TC=0+-100	24546	C4-1/8-T0=1001-F	
A8R21	0757-0438	1	RESISTOR 5.11K 1X .125W F TC=0+-100	24546	C4-1/8-T0=5111-F	
A8R22	0757-0401		RESISTOR 100 1X .125W F TC=0+-100	24546	C4-1/8-T0=101-F	
A8R23	0757-0280		RESISTOR 1K 1X .125W F TC=0+-100	24546	C4-1/8-T0=1001-F	
A8R24	0698-3444		1	RESISTOR 316 1X .125W F TC=0+-100	24546	C4-1/8-T0=316R-F
A8R25	0698-3443		1	RESISTOR 287 1X .125W F TC=0+-100	24546	C4-1/8-T0=287R-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8R26	0757-0274	1	RESISTOR 1.21K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1213-F
A8R27	0698-3437		RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0=133R-F
A8R28	0757-0399		RESISTOR 82.5 1% .125W F TC=0+-100	24546	C4-1/8-T0=82R5-F
A8R29	0698-3443		RESISTOR 267 1% .125W F TC=0+-100	24546	C4-1/8-T0=267R-F
A8R30	0757-0399		RESISTOR 82.5 1% .125W F TC=0+-100	24546	C4-1/8-T0=82R5-F
A8R31	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A8R32	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A8R33	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A8R34	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A8R35	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A8R36	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A8R37	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A8R38	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A8R39	0757-0442	2	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A8R40	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A8R41	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0=101-F
A8R42	0698-3156	1	RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1472-F
A8R43	0698-3154	2	RESISTOR 4.22K 1% .125W F TC=0+-100	24546	C4-1/8-T0=4221-F
A8R44	0698-3154		RESISTOR 4.22K 1% .125W F TC=0+-100	24546	C4-1/8-T0=4221-F
A8R45	0698-3438	1	RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0=147R-F
A8R46	0757-0399		RESISTOR 82.5 1% .125W F TC=0+-100	24546	C4-1/8-T0=82R5-F
A8TP1	0360-0124	7	CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A8TP2	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A8TP3	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A8TP4	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A8TP5	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A8TP6	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A8TP7	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A8U1	1820-0802	3	IC GATE ECL NOR QUAD 2-INP	04713	MC10102P
A8U2	1810-0204	3	NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	11236	750-81-R1K
A8U3	1820-0817	2	IC FF ECL D-M/S DUAL	04713	MC10131P
A8U4	1820-1383	1	IC CNTR ECL BCD POS-EDGE-TRIG	04713	MC10136L
A8U5	1820-0821	1	IC CNTR ECL BIN UP/DOWN SYNCHRO	04713	MC10136L
A8U6	1820-0807	1	IC GATE ECL OR DUAL 3-INP	04713	MC10110P
A8U7	1826-0319	1	IC OP AMP T0-99	27014	LF356H
A8U8	1820-0817		IC FF ECL D-M/S DUAL	04713	MC10131P
A8U9	1810-0204		NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	11236	750-81-R1K
A8U10	1820-0802		IC GATE ECL NOR QUAD 2-INP	04713	MC10102P
A8U11	1820-0801	1	IC GATE ECL OR-NOR QUAD 2-INP	04713	MC10101P
A8U12	1810-0204		NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	11236	750-81-R1K
A8U13	1820-0802		IC GATE ECL NOR QUAD 2-INP	04713	MC10102P
A8U14	1820-0744	1	IC CNTR TTL BIN SYNCHRO POS-EDGE-TRIG	01295	8N7497N
A8U15	1820-1196	1	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74LS174N
			A8 MISCELLANEOUS PARTS		
	86701-40001	1	EXTRACTOR, PC BOARD	28480	86701-40001

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9	85680-60009	1	BOARD ASSEMBLY, PILOT SECOND IF AMPL	28480	85680-60009
A9C1	0160-3873	3	CAPACITOR-FXD 4.7PF +/-5PF 200VDC	28480	0160-3873
A9C2	0160-3874	1	CAPACITOR-FXD 10PF +/-5PF 200VDC	28480	0160-3874
A9C3	0160-3873		CAPACITOR-FXD 4.7PF +/-5PF 200VDC	28480	0160-3873
A9C4	0160-3873		CAPACITOR-FXD 4.7PF +/-5PF 200VDC	28480	0160-3873
A9C5	0160-3466	2	CAPACITOR-FXD 100PF +/-10% 1KVDC CER	28480	0160-3466
A9C6	0160-2055	2	CAPACITOR-FXD .01UF +/-80-20% 100VDC CER	28480	0160-2055
A9C7	0160-2261	1	CAPACITOR-FXD 15PF +/-5% 500VDC CER0+-30	28480	0160-2261
A9C8	0160-3466		CAPACITOR-FXD 100PF +/-10% 1KVDC CER	28480	0160-3466
A9C9	0121-0493	4	CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A9C10	0121-0493		CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A9C11	0121-0493		CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A9C12	0121-0493		CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A9C13	0160-2055		CAPACITOR-FXD .01UF +/-80-20% 100VDC CER	28480	0160-2055
A9C14	0160-3466	1	CAPACITOR-FXD 1000PF +/-10% 1KVDC CER	28480	0160-3466
A9J1	1250-0690	2	CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A9J2	1250-0690		CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A9L1	85680-80009	2	INDUCTOR, 35 NH	28480	85680-80009
A9L2	85680-80009		INDUCTOR, 35 NH	28480	85680-80009
A9L3	9100-0346	1	COIL-MLD 50NH 20% G=40 .095DX.25LG	28480	9100-0346
A9L4	85680-80015	2	TRANSFORMER	28480	85680-80015
A9L5	85680-80008	2	INDUCTOR, 50 NH	28480	85680-80008
A9L6	85680-80008		INDUCTOR, 50 NH	28480	85680-80008
A9L7	85680-80015		TRANSFORMER	28480	85680-80015
A9L8	9100-2247	1	COIL-MLD 100NH 10% G=34 .095DX.25LG	02178	09-4418-1K
A9G1	1854-0686	1	TRANSISTOR NPN 8I TO-72 PD=200MW FT=40HZ	28480	1854-0686
A9G2	1853-0050	1	TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0050
A9R1	0757-0200	2	RESISTOR 5.62K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5621-F
A9R2	0757-0288	1	RESISTOR 9.09K 1% .125W F TC=0+-100	0299E	MPAC1/8-T0-9091-F
A9R3	0757-0200		RESISTOR 5.62K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5621-F
A9R4	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10	85680-00010	1	BOARD ASSEMBLY, PILOT THIRD CONVERTER	28480	85680-00010
A10C1	0160-3456	2	CAPACITOR-FXD 1000PF +/-10% 1KVDC CER	28480	0160-3456
A10C2	0160-2055	6	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A10C3	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A10C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A10C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A10C6	0160-3456		CAPACITOR-FXD 1000PF +/-10% 1KVDC CER	28480	0160-3456
A10C7	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A10C8	0140-0190	1	CAPACITOR-FXD 39PF +/-5% 300VDC MICA	72136	DM15E190J0300HV1CR
A10C9	0140-0195	1	CAPACITOR-FXD 130PF +/-5% 300VDC MICA	72136	DM15F130J0300HV1CR
A10C10			NOT ASSIGNED		
A10C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A10C12	0180-0197	1	CAPACITOR-FXD 2.2UF +/-10% 20VDC TA	56289	1500225X9020A2
A10J1			PART OF W20		
A10J2			PART OF W21		
A10J3	1250-0690	1	CONNECTOR-RF 3MB M 3GL-HOLE-FR 50-OHM	28480	1250-0690
A10L1	9100-2252	2	COIL-MLD 270NH 10% Q=30 .095DX,25LG-NOM	28480	9100-2252
A10L2	9100-2252		COIL-MLD 270NH 10% Q=30 .095DX,25LG-NOM	28480	9100-2252
A10L3	9100-2250	1	COIL-MLD 180NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2250
A10L4	9140-0179	1	COIL-MLD 22UH 10% Q=75 .155DX,375LG-NOM	28480	9140-0179
A10Q1	1854-0247	1	TRANSISTOR NPN 8I TO-39 PD=1W FT=800MHZ	28480	1854-0247
A10Q2	1854-0345	1	TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	04713	2N5179
A10R1	0757-0416	2	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A10R2	0757-0280	3	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A10R3	0698-3439	1	RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0-178R-F
A10R4	0757-0346	2	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A10R5	0698-3438	1	RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0-147R-F
A10R6	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A10R7	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A10R8	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A10R9	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A10R10	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A10U1	0955-0063	1	MIXER, DOUBLE BALANCE 200 MW	28480	0955-0063

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A11	85680-60017	1	BOARD ASSEMBLY, 50 MHZ VOLTAGE-TUNED OSC (INCLUDES W18)	28480	85680-60017
A11C1	0160-2055	17	CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C2	0180-0116	1	CAPACITOR-FXD 8.8UF+-10X 35VDC TA	56289	150D68X903582
A11C3	0180-0229	4	CAPACITOR-FXD 33UF+-10X 10VDC TA	56289	150D336X901082
A11C4	0160-2055	1	CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C5	0180-1746	3	CAPACITOR-FXD 15UF+-10X 20VDC TA	56289	150D156X902082
A11C6	0180-1746		CAPACITOR-FXD 15UF+-10X 20VDC TA	56289	150D156X902082
A11C7	0180-0229		CAPACITOR-FXD 33UF+-10X 10VDC TA	56289	150D336X901082
A11C8	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C9	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C10	0180-1746		CAPACITOR-FXD 15UF+-10X 20VDC TA	56289	150D156X902082
A11C11	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C12	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C13	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C14	0180-0229		CAPACITOR-FXD 33UF+-10X 10VDC TA	56289	150D336X901082
A11C15	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C16	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C17	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C18	0160-2261	1	CAPACITOR-FXD 15PF +-5X 500VDC CER 0+-30	28480	0160-2261
A11C19	0160-0949	1	CAPACITOR-FXD 68PF +-5X 300VDC MICA	28480	0160-0949
A11C20	0160-2016	1	CAPACITOR-FXD 62PF +-5X 500VDC MICA	28480	0160-2016
A11C21	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C22	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C23	0160-3456	1	CAPACITOR-FXD 1000PF +-10X 1KVDC CER	28480	0160-3456
A11C24	0160-3402	1	CAPACITOR-FXD 1UF +-5X 50VDC MET-POLYC	28480	0160-3402
A11C25	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C26	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C27	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C28	0160-4084	2	CAPACITOR-FXD .1UF +-20X 50VDC CER	28480	0160-4084
A11C29	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C30	0160-4084		CAPACITOR-FXD .1UF +-20X 50VDC CER	28480	0160-4084
A11C31	0180-0229		CAPACITOR-FXD 33UF+-10X 10VDC TA	56289	150D336X901082
A11C32	0160-2055		CAPACITOR-FXD .01UF +80-20X 100VDC CER	28480	0160-2055
A11C33	0160-2437	2	CAPACITOR-FDTHRU 5000PF +80 -20X 200V	28480	0160-2437
A11C34	0160-2437		CAPACITOR-FDTHRU 5000PF +80 -20X 200V	28480	0160-2437
A11CR1	1901-0040	16	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR2	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR3	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR4	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR5	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR6	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR7	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR8	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR9	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR10	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR11	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR12	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR13	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR14	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR15	0122-0300	2	DIODE-VVC 100PF 5X C2/C20-MIN=2 BYR=20V	28480	0122-0300
A11CR16	0122-0300		DIODE-VVC 100PF 5X C2/C20-MIN=2 BYR=20V	28480	0122-0300
A11CR17	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11CR18	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A11J1	1250-0690	2	CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A11J2			PART OF W18		
A11J3	1250-0690		CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A11L1	9100-1618	3	COIL-MLD 5.6UH 10X Q=45 .155DX,375LG-NOM	28480	9100-1618
A11L2	9100-1618		COIL-MLD 5.6UH 10X Q=45 .155DX,375LG-NOM	28480	9100-1618
A11L3	9100-1621	1	COIL-MLD 18UH 10X Q=75 .155DX,375LG-NOM	28480	9100-1621
A11L4	9100-2811	1	COIL 200NH 5X Q=100 .312DX,875LG-NOM	28480	9100-2811
A11L5	9100-1618		COIL-MLD 5.6UH 10X Q=45 .155DX,375LG-NOM	28480	9100-1618
A11L6	9140-0114	1	COIL-MLD 10UH 10X Q=55 .155DX,375LG-NOM	28480	9140-0114
A11Q1	1854-0477	2	TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A11Q2	1854-0404	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A11Q3	1853-0018	1	TRANSISTOR PNP 8I TO-72 PD=200MW FT=1GHZ	28480	1853-0018
A11Q4	1855-0020	1	TRANSISTOR J-FET N-CHAN D-MODE TO-18 SI	28480	1855-0020
A11Q5	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A11Q6	1854-0023	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A11Q7	1853-0451	1	TRANSISTOR PNP 2N3799 SI TO-18 PD=360MW	01295	2N3799

See introduction to this section for ordering information

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A11R1	0757-0276	1	RESISTOR 1.78K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1781-F
A11R2	0757-0436	2	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A11R3	0757-0316	1	RESISTOR 42.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-422-F
A11R4	0757-0280	5	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A11R5	0757-0442	2	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A11R6	2100-1739	1	RESISTOR-TRMR 5K 10% HW SIDE-ADJ 20-TRN	02660	3810P-502
A11R7	0757-0288	2	RESISTOR 9.09K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-9091-F
A11R8	0757-0317	1	RESISTOR 1.33K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1331-F
A11R9	2100-1972	1	RESISTOR-TRMR 20K 10% HW SIDE-ADJ 20-TRN	02660	3810P-203
A11R10	2100-2850	1	RESISTOR-TRMR 10K 10% HW SIDE-ADJ 20-TRN	02660	3810P-103
A11R11	0757-0439	1	RESISTOR 6.81K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6811-F
A11R12	0698-0083	2	RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A11R13	0698-0083	1	RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A11R14	0698-3160	3	RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A11R15	0757-0442	2	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A11R16	0698-3160	1	RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A11R17	2100-3123	1	RESISTOR-TRMR 500 10% C SIDE-ADJ 17-TRN	02111	43P501
A11R18	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A11R19	0757-0395	1	RESISTOR 56.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-562-F
A11R20	0757-0276	1	RESISTOR 61.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A11R21	0757-0397	1	RESISTOR 66.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-6611-F
A11R22	0757-0398	1	RESISTOR 75 1% .125W F TC=0+-100	24546	C4-1/8-T0-750-F
A11R23	0757-0399	1	RESISTOR 82.5 1% .125W F TC=0+-100	24546	C4-1/8-T0-825-F
A11R24	0757-0400	1	RESISTOR 90.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-909-F
A11R25	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A11R26	0757-0402	2	RESISTOR 110 1% .125W F TC=0+-100	24546	C4-1/8-T0-111-F
A11R27	0757-0403	1	RESISTOR 121 1% .125W F TC=0+-100	24546	C4-1/8-T0-121-F
A11R28	0698-3437	1	RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0-133-F
A11R29	0757-0443	2	RESISTOR 11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1102-F
A11R30	0757-0289	1	RESISTOR 13.3K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-1332-F
A11R31	0698-3136	1	RESISTOR 17.8K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1782-F
A11R32	0757-0199	2	RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A11R33	0698-3159	1	RESISTOR 26.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2612-F
A11R34	0698-3160	1	RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A11R35	0698-3161	1	RESISTOR 38.3K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3832-F
A11R36	0698-3162	1	RESISTOR 46.4K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4642-F
A11R37	0757-0458	3	RESISTOR 51.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5112-F
A11R38	0757-0460	1	RESISTOR 61.9K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A11R39	0757-0461	1	RESISTOR 68.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6812-F
A11R40	0757-0462	1	RESISTOR 75K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7502-F
A11R41	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A11R42	2100-3103	1	RESISTOR-TRMR 10K 10% C SIDE-ADJ 17-TRN	02111	43P103
A11R43	0698-6630	1	RESISTOR 20K 1% .125W F TC=0+-25	28480	0698-6630
A11R44	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A11R45	0698-3450	1	RESISTOR 42.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4222-F
A11R46	0698-6977	1	RESISTOR 30K .1% .125W F TC=0+-25	28480	0698-6977
A11R47	0698-3158	1	RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A11R48	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A11R49	0698-7236	1	RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A11R50	0698-7205	2	RESISTOR 51.1 1% .05W F TC=0+-100	24546	C3-1/8-T0-5111-G
A11R51	0698-3151	4	RESISTOR 2.87K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2871-F
A11R52	0698-7239	1	RESISTOR 1.33K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1331-G
A11R53	0698-7188	1	RESISTOR 10 1% .05W F TC=0+-100	24546	C3-1/8-T0-10R-G
A11R54	0698-7204	1	RESISTOR 46.4 .05W F TC=0+-100	03292	C3-1/8-T0-4644-G
A11R55	0698-7252	1	RESISTOR 4.64K 1% .05W F TC=0+-100	24546	C3-1/8-T0-4641-G
A11R56	0757-0443	1	RESISTOR 11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1102-F
A11R57	0698-3151	1	RESISTOR 2.87K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2871-F
A11R58	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A11R59	0698-3260	1	RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A11R60	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A11R61	0757-0458	1	RESISTOR 51.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5112-F
A11R62	0757-0199	1	RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A11R63	0698-0084	2	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A11R64	0757-0458	1	RESISTOR 51.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5112-F
A11R65	0698-3441	2	RESISTOR 215 1% .125W F TC=0+-100	24546	C4-1/8-T0-215R-F
A11R66	0698-3441	1	RESISTOR 215 1% .125W F TC=0+-100	24546	C4-1/8-T0-215R-F
A11R67	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A11R68	0698-0082	2	RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0-4640-F
A11R69	0698-0082	1	RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0-4640-F
A11R70	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A11R71	0698-4037	1	RESISTOR 46.4 1% .125W F TC=0+-100	24546	C4-1/8-T0-4644-F
A11R72	0757-0288	1	RESISTOR 9.09K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-9091-F
A11R73	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A11R74	0757-0402	1	RESISTOR 110 1% .125W F TC=0+-100	24546	C4-1/8-T0-111-F
A11R75	0698-3151	1	RESISTOR 2.87K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2871-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A11R76	0698-3151		RESISTOR 2.87K 1% .125W F TC=0+/-100	24546	C4-1/8-TQ-2871-F
A11TP1			PART OF C33		
A11TP2			PART OF C34		
A11TP3	0360-0124	8	CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A11TP4	0360-0124		CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A11TP5	0360-0124		CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A11TP6	0360-0124		CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A11TP7	0360-0124		CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A11TP8	0360-0124		CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A11TP9	0360-0124		CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A11TP10	0360-0124		CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A11U1	1820-1383	1	IC CNTR ECL BCD POS-EDGE-TRIG	04713	MC10138L
A11U2	1820-0802	1	IC GATE ECL NOR QUAD 2-INP	04713	MC10102P
A11U3	1820-0820	1	IC FF ECL J-BAR K-BAR COM CLOCK DUAL	04713	MC10135L
A11U4	1826-0261	1	IC 741 OP AMP TO-99	28480	1826-0261
A11U5	1826-0229	2	IC OP AMP TO-99	06665	OP-05CJ
A11U6	1826-0229		IC OP AMP TO-99	06665	OP-05CJ
A11VR1	1902-0680	1	DIODE-ZNR 1N827 6.2V 5% DO-7 PD=,25W	24046	1N827
			A11 MISCELLANEOUS PARTS		
	86701-40001	1	EXTRACTOR, PC BOARD	28480	86701-40001

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12	85680-60038	1	BOARD ASSEMBLY, RF SECTION INTERFACE	28480	85680-60038
A12C1	0160-0100	1	CAPACITOR-FXD 4.7UF+-10% 35VDC TA	56289	150D475X903582
A12C2	0160-0161	1	CAPACITOR-FXD .01UF +-10% 200VDC POLYE	28480	0160-0161
A12C3	0160-2291	1	CAPACITOR-FXD .18UF +-10% 80VDC POLYE	28480	0160-2291
A12C4	0160-0153	2	CAPACITOR-FXD 1000PF +-10% 200VDC POLYE	28480	0160-0153
A12C5	0160-0153	2	CAPACITOR-FXD 1000PF +-10% 200VDC POLYE	28480	0160-0153
A12C6	0180-0116	1	CAPACITOR-FXD 6.8UF+-10% 35VDC TA	56289	150D685X903582
A12C7			NOT ASSIGNED		
A12C8	0160-2055	6	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A12C9	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A12C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A12C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A12C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A12C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A12C14			NOT ASSIGNED		
A12C15	0180-0229	1	CAPACITOR-FXD 33UF+-10% 10VDC TA	56289	150D336X901082
A12C16	0160-3454	1	CAPACITOR-FXD 220PF +-10% 1KVDC CER	28480	0160-3454
A12CR1	1901-0039	1	DIODE-SWITCHING 50V 300MA 8NS	28480	1901-0039
A12L1	08558-8001	2	FILTER, COIL, BLUE	28480	08558-80011
A12L2	08558-8001	2	FILTER, COIL, BLUE	28480	08558-80011
A12R1	1854-0404	4	TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A12R2	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A12R3	1854-0232	2	TRANSISTOR NPN SI TO-18 PD=1W FT=15MHZ	28480	1854-0232
A12R4	1854-0232		TRANSISTOR NPN SI TO-18 PD=1W FT=15MHZ	28480	1854-0232
A12R5	1854-0477	6	TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A12R6	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A12R7	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A12R8	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A12R9	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A12R10	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A12R11	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A12R12	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A12R1			NOT ASSIGNED		
A12R2	0698-0083	14	RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R3	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R4	0698-3157	1	RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A12R5	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R6	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R7	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R8	0698-3260	1	RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A12R9	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R10	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R11	0757-0442	10	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R12	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R13	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R14	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R15	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R16	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R17	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R18	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R19	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A12R20	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R21-			NOT ASSIGNED		
A12R24			NOT ASSIGNED		
A12R25	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R26	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R27-			NOT ASSIGNED		
A12R31			NOT ASSIGNED		
A12R32	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R33	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R34	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R35	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R36	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12R37	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A12TP1	1251-5177	4	CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A12TP2	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A12TP3	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A12TP4	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A12U1	1820-0987	1	IC ENCDR TTL L 8-INP	07263	93L18PC
A12U2	1820-1440	1	IC LCH TTL LS QUAD	01295	SN74LS279N
A12U3	1820-1211	1	IC GATE TTL LS EXCL-OR QUAD 2-INP	01295	SN74LS66N
A12U4	1820-1112	3	IC FF TTL LS D-TYPE POS-EDGE-TRIG	01295	SN74LS74N
A12U5	1820-1425	1	IC SCHMITT-TRIG TTL LS NAND QUAD 2-INP	01295	SN74LS132N

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12U6	1820-1112		IC FF TTL L8 D-TYPE POS-EDGE-TRIG	01295	8N74L874N
A12U7	1820-1195	1	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8175N
A12U8	1820-1438	1	IC MUXR/DATA-SEL TTL L8 2-TO-1-LINE QUAD	01295	8N74L8257N
A12U9	1820-1216	2	IC DCDR TTL L8 3-TO-8-LINE 3-INP	01295	8N74L8138N
A12U10	1820-1112		IC FF TTL L8 D-TYPE POS-EDGE-TRIG	01295	8N74L874N
A12U11	1820-1492	1	IC BFR TTL L8 INV HEX 1-INP	01295	8N74L8368N
A12U12	1820-1291	2	IC CNTR TTL BIN SYNCHRO 4-BIT	27014	DM8554N
A12U13	1820-1291		IC CNTR TTL BIN SYNCHRO 4-BIT	27014	DM8554N
A12U14	1820-0180	1	IC 555 8-DIP-P	18324	NE355V
A12U15	1810-0206	3	NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	11236	750-81-R10K
A12U16	1820-1491	2	IC BFR TTL L8 NON-INV HEX 1-INP	01295	8N74L8367N
A12U17			PART OF ASAT1		
A12U18	1820-1216		IC DCDR TTL L8 3-TO-8-LINE 3-INP	01295	8N74L8138N
A12U19	1820-1196	5	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A12U20	1820-1199	1	IC INV TTL L8 HEX 1-INP	01295	8N74L804N
A12U21	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A12U22	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A12U23	1820-1207	1	IC GATE TTL L8 NAND 8-INP	01295	8N74L810N
A12U24	1901-0364	3	DIODE-FW BRDG 200V 1A	28480	1901-0364
A12U25	1901-0364		DIODE-FW BRDG 200V 1A	28480	1901-0364
A12U26	1901-0364		DIODE-FW BRDG 200V 1A	28480	1901-0364
A12U27	1810-0206		NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	11236	750-81-R10K
A12U28	1810-0206		NETWORK-RES 8-PIN-SIP .1-PIN-SPCG	11236	750-81-R10K
A12U29	1820-1202	1	IC GATE TTL L8 NAND TPL 3-INP	01295	8N74L810N
A12U30	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A12U31	1820-1210	2	IC GATE TTL L8 AND-OR-INV DUAL 2-INP	01295	8N74L851N
A12U32	1820-1210		IC GATE TTL L8 AND-OR-INV DUAL 2-INP	01295	8N74L851N
A12U33	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	8N74L8174N
A12U34	1820-1491		IC BFR TTL L8 NON-INV HEX 1-INP	01295	8N74L8367N
			A12 MISCELLANEOUS PARTS		
	4040-0749	1	EXTRACTOR-PC BOARD BRN POLYC	28480	4040-0749
	4040-0750	1	EXTRACTOR-PC BOARD RED POLYC	28480	4040-0750
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG 8E-CU	28480	1480-0073

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13	85680-60118	1	BOARD ASSY: HP-IB INTERFACE	28480	85680-60118
A13C1	0180-0229	4	CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C2	0160-2055	13	CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C3	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C6	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C7			NOT ASSIGNED		
A13C8	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C9	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C11	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C15	0180-0116	1	CAPACITOR-FXD 6.8UF ±10% 35VDC	04200	150D685X9035B2
A13C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C17	0160-4298	1	CAPACITOR-FXD 4700PF ±20% 250VDC	04200	C067F251H472M522-CDH
A13C18	0180-0228	1	CAPACITOR-FXD 22UF ±10% 15VDC	04200	150D226X9015B2
A13C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C21			NOT ASSIGNED		
A13C22	0160-0945	1	CAPACITOR-FXD 910PF ±5% 300VDC	28480	0160-0945
A13C23	0160-2055		CAPACITOR-RXD .01UF +80-20% 100VDC	28480	0160-2055
A13CR1			NOT ASSIGNED		
A13CR2			NOT ASSIGNED		
A13CR3			NOT ASSIGNED		
A13CR4			NOT ASSIGNED		
A13CR5	1901-0040	1	DIODE-SWITCHING 30V 50MA 2NS	28480	1901-0040
A13CR6			NOT ASSIGNED		
A13CR7			NOT ASSIGNED		
A13CR8	1901-0518	1	DIODE-SCHOTTKY	28480	1901-0518
A13E1	1251-4832	1	JUMPER-PROGRAMMING	28480	1251-4832
A13J1	1251-3283	1	CONNECTOR-24-PIN F MICRORIBBON	28480	1251-3283
A13J2	1200-0655	1	SOCKET-18-CONTACT	28480	1200-0655
A13L1	08558-80011	3	COIL-FILTER BLUE	28480	08558-80011
A13L2	08558-80011		COIL-FILTER BLUE	28480	08558-80011
A13L3	08558-80011		COIL-FILTER BLUE	28480	08558-80011
MP1	85680-60115	2	STANDOFF-METRIC THREAD	28480	85680-60115
MP2	2190-0034	2	WASHER-LOCK HLCL NO. 10 .194 IN ID	28480	2190-0034
MP3	1530-1098	2	CLEVIS-.070 IN SLIT. .454 IN PIN CTR	28480	1530-1098
MP4	2200-0143	2	SCREW-MACH 4-40 .375 IN LG PAN HD-POZI-DRIV	28480	2200-0143
MP5	2260-0002	2	NUT-HEX DBL CHAM 4-40 .062 IN THK	28480	2260-0002
MP6	2190-0004	2	WASHER-LOCK INT T NO. 6 .115 IN ID	28480	2190-0004
MP7	85680-00053	1	GROUND SPRING-HP-IB	28480	85680-00053
A13Q1	1854-0477	4	TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13Q2	1854-0477		TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13Q3	1854-0477		TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13Q4	1854-0477		TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13R1			NOT ASSIGNED		
A13R2			NOT ASSIGNED		
A13R3	0698-3150	1	RESISTOR-2.37K 1% .125W	03292	C4-1/8-TO-2371-F
A13R4	0757-0420	1	RESISTOR-750 1% .125W	03292	C4-1/8-TO-750R-F
A13R5	0757-0394	1	RESISTOR-51.1 1% .125W	03292	C4-1/8-TO-51R1-F
A13R6	0757-0428	1	RESISTOR-1.62K 1% .125W	03292	C4-1/8-TO-1621-F
A13R7*	0757-0280	1	RESISTOR-FXD 1.0K VBG=-2.0V	03292	C4-1/8-TO-1001-F
A13R7*	0757-1094		RESISTOR-FXD 1.47K VBG=-2.5V	03292	C4-1/8-TO-1471-F
A13R7*	0698-0084		RESISTOR-FXD 2.15K VBG=-3.0V	03292	C4-1/8-TO-2151-F
A13R7*	0698-3152		RESISTOR-FXD 3.48K VBG=-3.5V	03292	C4-1/8-TO-3481-F
A13R7*	0757-0200		RESISTOR-FXD 5.62K VBG=-4.0V	03292	C4-1/8-TO-5621-F
A13R7*	0757-0443		RESISTOR-FXD 11K VBG=-4.5V	03292	C4-1/8-TO-1102-F
A13R7*	0698-3450		RESISTOR-FXD 42.2K VBG=-5.0V	03292	C4-1/8-TO-4222-F
A13R8			NOT ASSIGNED		
A13R9	0698-3159	2	RESISTOR-26.1K 1% .125W	03292	C4-1/8-TO-2612-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13R10	0757-0442	1	RESISTOR-10K 1% .125W	03292	C4-1/8-TO-1002-F
A13R11			NOT ASSIGNED		
A13R12			NOT ASSIGNED		
A13R13	0698-3334		RESISTOR-178 1% .5W	05524	MFF-1/2-10
A13R14	0757-0280	1	RESISTOR-1K 1% .125W	03292	C4-1/8-TO-1001-F
A13R15	0757-0438	2	RESISTOR-5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A13R16	0757-0438		RESISTOR-5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A13R17	0757-0417	1	RESISTOR-562 1% .125W F TC=0±100	03292	C4-1/8-TO-562R-F
A13R18	0698-0083	1	RESISTOR-1.96K 1% .125W	03292	C4-1/8-TO-1961-F
A13R19	0757-0418	1	RESISTOR-619 1% .125W	03292	C4-1/8-TO-619R-F
A13R20	0698-3159		RESISTOR-26.1K 1% .125W	03292	C4-1/8-2612-F
A13S1	3101-2206		SWITCH-TGL DIP 5 SWITCH	28480	3101-2206
A13TP1-					
A13TP10			NOT ASSIGNED		
A13TP11	1251-5177	9	CONNECTOR-SGL CONT .031 IN	28480	1251-5177
A13TP12	1251-5177		CONNECTOR-SGL CONT .031 IN	28480	1251-5177
A13TP13	1251-5177		CONNECTOR-SGL CONT .031 IN	28480	1251-5177
A13TP14	1460-1489	2	WIREFORM	28480	1460-1489
A13TP15	1460-1489		WIREFORM	28480	1460-1489
A13TP16	1251-5177		CONNECTOR-SGL CONT .031 IN	28480	1251-5177
A13TP17			NOT ASSIGNED		
A13TP18			NOT ASSIGNED		
A13TP19	1251-5177		CONNECTOR-SGL CONT .031 IN	28480	1251-5177
A13TP20			NOT ASSIGNED		
A13TP21	1251-5177		CONNECTOR-SGL CONT .031 IN	28480	1251-5177
A13TP22			NOT ASSIGNED		
A13TP23			NOT ASSIGNED		
A13TP24	1251-5177		CONNECTOR-SGL CONT .031 IN	28480	1251-5177
A13TP25			NOT ASSIGNED		
A13TP26			NOT ASSIGNED		
A13TP27			NOT ASSIGNED		
A13TP28	1251-5177		CONNECTOR-SGL CONT .031 IN	28480	1251-5177
A13TP29	1251-5177		CONNECTOR-SGL CONT .031 IN	28480	1251-5177
A13U1	1820-1201	1	IC-TTL 2 INPUT QUAD AND GATE	01698	SN74LS08N
A13U2	1820-1216	2	IC-TTL 3 INPUT 3-TO-8 DECODER	01698	SN74LS138N
A13U3	1816-1172	1	IC-TTL ROM 2048 x 4	28480	1816-1172
A13U4	1820-1197	1	IC-TTL 2 INPUT QUAD NAND GATE	01698	SN74LS00N
A13U5	1820-1558	3	IC-TTL QUAD TRANSCEIVER	02037	MC3441P
A13U6	1820-1112	3	IC-TTL D-TYPE FF POS EDGE TRIG	01698	SN74LS74N
A13U7	1810-0326	1	DIODE ARRAY-CLAMP	28480	1810-0326
A13U8	1820-1558		IC-TTL QUAD TRANSCEIVER	02037	MC3441P
A13U9	1820-1730	2	IC-TTL D-TYPE FF POS-EDGE TRIG	01698	SN74LS273
A13U10	1820-1917	2	IC-TTL BFR LINE DRVR OCTAL	01698	SN74LS240N
A13U11	1820-1691	1	IC-MOS MICROPROCESSOR	28480	1820-1691
A13U12	1816-1173	1	IC-TTL ROM 2048 x 4	28480	1816-1173
A13U13	1820-1416	1	IC-TTL SCHEMITT-TRIG HEX INV	01698	SN74LS14N
A13U14	1820-1199	1	IC-TTL HEX INV	01698	SN74LS04N
A13U15	1820-1558		IC-TTL QUAD TRANSCEIVER	02037	MC3441P
A13U16	1820-1522	1	IC-TTL QUAD TRANSCEIVER	02037	MC3440P
A13U17	1820-1730		IC-TTL D-TYPE FF POS-EDGE-TRIG	01698	SN74LS273
A13U18	1820-1917		IC-TTL BFR LINE DRVR OCTAL	01698	SN74LS240N
A13U19	1820-1491	1	IC-BFR TTL LS NON-INV HEX 1-INP	01698	SN74LS367N
A13U20	1820-1423	1	IC-TTL RETRIG DUAL MONOSTBL MV	01698	SN74LS123N
A13U21	1820-1997	2	IC-TTL 8 SEGMENT FF	28480	1820-1997
A13U22	1820-1997		IC-TTL 8 SEGMENT FF	28480	1820-1997
A13U23	1820-1216		IC-TTL 3-INPUT 3-TO-8 DECODER	01698	SN74LS138N
A13U24	1820-1112		IC-TTL D-TYPE FF POS-EDGE TRIG	01698	SN74LS74N
A13U25	1820-1112		IC-TTL D-TYPE FF POS-EDGE TRIG	01698	SN74LS74N
A13VR1	1902-3158	1	DIODE-BREAKDOWN 9.76V 2% .4W	02237	FZ7459
A13XU11	1200-0694	1	SKT-DIL 40-CONTACT MISCELLANEOUS PARTS	28480	1200-0694
	1480-0073	2	PIN-RLL .062 IN DIA	28480	1480-0073
	4040-0749	1	EXTRACTOR-PC BOARD BROWN	28480	4040-0749
	4040-0751	1	EXTRACTOR-PC BOARD ORANGE	28480	4040-0751

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14	85680-60119	1	BOARD ASSEMBLY, MEMORY	28480	85680-60119
A14C1	0160-4084	1	CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A14C2	0180-0229	2	CAPACITOR-FXD 33UF ±10% 10VDC TA	04200	150D336X9010B2
A14C3	0160-3879	15	CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C4	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C5	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C6	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C7	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C8	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C9	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C10	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C11	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C12	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C13	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C14	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC TA	04200	150336X9010B2
A14C15	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C16	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C17	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14C18	0160-3879		CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A14CR1	1901-0050	3	DIODE-SWITCHING 80V 200MA 2NS	28480	1901-0050
A14CR2	1901-0050		DIODE-SWITCHING 80V 200MA 2NS	28480	1901-0050
A14CR3	1901-0535	1	DIODE-SCHOTTKY	28480	1901-0535
A14CR4	1901-0050		DIODE-SWITCHING 80V 200MA 2NS	28480	1901-0050
A14L1	08558-80011	1	FILTER-COIL, CODE BLUE	28480	08558-80011
A14R1	0757-0401	1	RESISTOR 100 1% .125W F TC=0±100	03292	C4-1/8-TO-101-F
A14R2	0757-0416	1	RESISTOR 511 1% .125W F TC=0±100	03292	C4-1/8-TO-511R-F
A14R3	0698-0083	3	RESISTOR 1.96K 1% .125W F TC=0±100	03292	C4-1/8-TO-1961-F
A14R4	0698-0083		RESISTOR 1.96K 1% .125W F TC=0±100	03292	C4-1/8-TO-1961-F
A14R5	0698-0083		RESISTOR 1.96K 1% .125W F TC=0±100	03292	C4-1/8-TO-1961-F
A14TP1	1251-5177	12	CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP2	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP3	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP4	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP5	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP6	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP7	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP8	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP9	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP10	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP11	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14TP12	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A14U1	1818-0712	1	IC: ROM	28480	1818-0712
A14U2	1818-0713	1	IC: ROM	28480	1818-0713
A14U3	1818-0714	1	IC: ROM	28480	1818-0714
A14U4	1818-0715	1	IC: ROM	28480	1818-0715
A14U5	1818-0716	1	IC: ROM	28480	1818-0716
A14U6	1818-0717	1	IC: ROM	28480	1818-0717
A14U7	1818-0718	1	IC: ROM	28480	1818-0718
A14U8	1818-0719	1	IC: ROM	28480	1818-0719
A14U9	1820-1195	4	IC: FF TTL LS D-TYPE POS-EDGE-TRIG	01698	SN74LS175N
A14U10	1820-1195		IC: FF TTL LS D-TYPE POS-EDGE-TRIG	01698	SN74LS175N
A14U11	1820-2024	2	IC: DRVR TTL LS LINE DRVR OCTAL	01698	SN74LS244N
A14U12	1820-1446	1	IC: SHFT RGTR TTL LS R-S PRL-IN PRL-OUT	01698	SN74LS395N
A14U13	1818-0390	16	IC: 1K RAM CMOS	03714	IM6508IDE
A14U14	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U15	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U16	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U17	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14U18	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U19	1820-1195		IC: FF TTL LS D-TYPE POS-EDGE-TRIG	01698	SN74LS175N
A14U20	1920-1195		IC: FF TTL LS D-TYPE POS-EDGE-TRIG	01698	SN74LS175N
A14U21	1820-2024		IC: DRVR TTL LS LINE DRVR OCTAL	01698	SN74LS244N
A14U22	1820-1197	2	IC: GATE TTL LS NAND QUAD 2-INP	01698	SN74LS00N
A14U23	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U24	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U25	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U26	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U27	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U28	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U29	1818-0720	1	IC: ROM	28480	1818-0720
A14U30	1818-0721	1	IC: ROM	28480	1818-0721
A14U31	1818-0722	1	IC: ROM	28480	1818-0722
A14U32	1818-0723	1	IC: ROM	28480	1818-0723
A14U33	1818-0724	1	IC: ROM	28480	1818-0724
A14U34	1818-0725	1	IC: ROM	28480	1818-0725
A14U35	1818-0726	1	IC: ROM	28480	1818-0726
A14U36	1818-0727	1	IC: ROM	28480	1818-0727
A14U37	1820-1216	1	IC: DC DR TTL 3-TO-8 LINE 3-INP	01698	SN74LS138N
A14U38	1820-1197		IC: GATE TTL LS NAND QUAD 2-INP	01698	SN74LS00N
A14U39	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U40	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U41	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14U42	1818-0390		IC: 1K RAM CMOS	03714	IM6508IDE
A14VR1	1902-0041	1	DIODE: ZNR 5.11V 5% PD=.4W TC=.009%	28480	1902-0041
	1480-0073	2	A14 MISCELLANEOUS PARTS		
	4040-0749	1	PIN RLL .062 IN DIA .25 IN LG	28480	1480-0073
	4040-0752	1	EXTRACTOR: PC BOARD BROWN	28480	4040-0749
		1	EXTRACTOR: PC BOARD YELLOW	28480	4040-0752

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15	85680-60037	1	BOARD ASSEMBLY, PROCESSOR	28480	85680-60037
A15C1	0160-4084	13	CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C2	0180-0197	4	CAPACITOR-FXD 2.2UF ±10% 20VDC TA	04200	150D225X9020A2
A15C3	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C4	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C5	0180-0197		CAPACITOR-FXD 2.2UF ±10% 20VDC TA	04200	150D225X90A0A2
A15C6	0180-0197		CAPACITOR-FXD 2.2UF ±10% 20VDC TA	04200	150D225X90A0A2
A15C7	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C8	0180-0197		CAPACITOR-FXD 2.2UF ±10% 20VDC TA	04200	150D225X90A0A2
A15C9	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C10*	0160-2202	1	CAPACITOR-FXD 75PF ±5% 300VDC MICA	28480	0160-2202
A15C11	0140-0197	2	CAPACITOR-FXD 180PF ±5% 300VDC MICA	04522	DM15F18W0300WV ICR
A15C12	0140-0197		CAPACITOR-FXD 180PF ±5% 300VDC MICA	04522	DM15F18W0300WV ICR
A15C13	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C14	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C15	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C16	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C17	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C18	0180-2214	1	CAPACITOR-FXD 90UF +75-10% 16VDC AL	04200	30D906G016CC2
A15C19	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C20	0160-3879	1	CAPACITOR-FXD .01UF ±20% 100VDC CER	28480	0160-3879
A15C21	0160-2209	1	CAPACITOR-FXD 360PF ±5% 300VDC MICA	28480	0160-2209
A15C22	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C23	0160-0127	2	CAPACITOR-FXD 1UF ±20% 25VDC CER	28480	0160-0127
A15C24	0160-4084		CAPACITOR-FXD .1UF ±20% 50VDC CER	28480	0160-4084
A15C25	0160-0127		CAPACITOR-FXD 1UF ±20% 25VDC CER	28480	0160-0127
A15CR1	1901-0535	7	DIODE-SCHOTTKY	28480	1901-0535
A15CR2	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A15CR3	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A15CR4	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A15CR5	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A15CR6	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A15CR7	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A15J1	1251-4222	1	CONNECTOR-50PIN F MICRO RIBBON	28480	1251-4222
A15MP1	85680-60114	2	STANDOFF-SAE THREAD	28480	85680-60114
A15MP2	2190-0034	2	WASHER-LOCK NO. 10	28480	2190-0034
A15MP3	1530-1098	2	CLEVIS-.070" SLIT .454" PIN CTR	28480	1530-1098
A15MP4	2200-0143	2	SCREW-MACH 4-40 PAN HD POZI	28480	2200-0143
A15MP5	2260-0002	2	NUT-HEX 4-40 .062" THK	28480	2260-0002
A15MP6	2190-0004	2	WASHER-LOCK INT T NO. 6	28480	2190-0004
A15Q1	1854-0404	1	TRANSISTOR-NPN SI TO-18 PD=360MW	28480	1854-0404
A15Q2	1854-0637	1	TRANSISTOR-NPN SI TO-5 PD=800MW	28480	1854-0637
A15Q3	1853-0007	1	TRANSISTOR-PNP SI TO-18 PD=360MW	02037	2N3251
A15R1	0698-7225	5	RESISTOR 348 1% .05WF TC=0±100	0329B	C3-1/8-TO-348R-G
A15R2	0698-3601	1	RESISTOR 10 5% 2W MO TC=0±200	0341B	FP42-2-TOO-10R0-J
A15R3	0698-7260	7	RESISTOR 10K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1002-G
A15R4	0698-7260		RESISTOR 10K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1002-G
A15R5	0757-0442	6	RESISTOR 10K 1% .125W F TC=0±100	0329B	C4-1/8-TO-1002-F
A15R6	0698-7260		RESISTOR 10K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1002-G
A15R7	0757-0442		RESISTOR 10K 1% .125W F TC=0±100	0329B	C4-1/8-TO-1002-F
A15R8	0698-7264	2	RESISTOR 14.7K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1472-G
A15R9	0698-7260		RESISTOR 10K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1002-G
A15R10	0757-0442		RESISTOR 10K 1% .125W F TC=0±100	0329B	C4-1/8-TO-1002-F
A15R11	0698-3437	1	RESISTOR 133 1% .125W F TC=0±100	0329B	C4-1/8-TO-133R-F
A15R12	0698-7264		RESISTOR 14.7K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1472-G
A15R13	0698-7268	2	RESISTOR 21.5K 1% .05W F TC=0±100	0329B	C3-1/8-TO-2152-G
A15R14	0698-7236	10	RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G
A15R15	0698-7225		RESISTOR 348 1% .05W F TC=0±100	0329B	C3-1/8-TO-348R-G
A15R16	0698-7236		RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15R17	0698-7236		RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G
A15R18	0698-7225		RESISTOR 348 1% .05W F TC=0±100	0329B	C3-1/8-TO-348R-G
A15R19	0698-7236		RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G
A15R20	0757-0442		RESISTOR 10K 1% .125W F TC=0±100	0329B	C4-1/8-TO-1002-F
A15R21	0698-7260		RESISTOR 10K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1002-G
A15R22	0698-7239	1	RESISTOR 1.33K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1331-G
A15R23	0698-7260		RESISTOR 10K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1002-G
A15R24	0757-0442		RESISTOR 10K 1% .125W F TC=0±100	0329B	C4-1/8-TO-1002-F
A15R25	0698-7236		RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G
A15R26	0698-7193	2	RESISTOR 16.21% .05W F TC=0±100	0329B	C3-1/8-TO-16R2-G
A15R27	0698-7193		RESISTOR 16.21% .05W F TC=0±100	0329B	C3-1/8-TO-16R2-G
A15R28	0757-0442		RESISTOR 10K 1% .125W F TC=0±100	0329B	C4-1/8-TO-1002-F
A15R29	0698-7268		RESISTOR 21.5K 1% .05W F TC=0±100	0329B	C3-1/8-TO-2152-G
A15R30	0757-0280	2	RESISTOR 1K 1% .125W F TC=0±100	0329B	C4-1/8-TO-1001-F
A15R31	0698-7236		RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G
A15R32	0698-7236		RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G
A15R33	0698-7225		RESISTOR 348 1% .05W F TC=0±100	0329B	C3-1/8-TO-348R-G
A15R34	0757-0280		RESISTOR 1K 1% .125W F TC=0±100	0329B	C4-1/8-TO-1001-F
A15R35	0698-7225		RESISTOR 348 1% .05W F TC=0±100	0329B	C3-1/8-TO-348R-G
A15R36	0698-7236		RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G
A15R37	0698-7236		RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G
A15R38	0698-7236		RESISTOR 1K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1001-G
A15R39	0698-7229	2	RESISTOR 511 1% .05W F TC=0±100	0329B	C3-1/8-TO-511R-G
A15R40	0698-7229		RESISTOR 511 1% .05W F TC=0±100	0329B	C3-1/8-TO-511R-G
A15R41	0698-7246	1	RESISTOR 2.61K 1% .05W F TC=0±100	0329B	C3-1/8-TO-2611-G
A15R42	0698-7234	1	RESISTOR 825 1% .05W F TC=0±100	0329B	C3-1/8-TO-825R-G
A15R43	0698-7245	1	RESISTOR 2.37K 1% .05W F TC=0±100	0329B	C3-1/8-TO-2371-G
A15R44	0698-7260		RESISTOR 10K 1% .05W F TC=0±100	0329B	C3-1/8-TO-1002-G
A15TP1	1251-5177	12	CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP2	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP3	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP4	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP5	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP6	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP7	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP8	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP9	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP10	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP11	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15TP12	1251-5177		CONNECTOR-SGL CONT PIN	28480	1251-5177
A15U1	1820-1144	1	IC-GATE TTL LS NOR QUAD 2-INP	0223G	9LS02PC
A15U2	1820-1492	2	IC-BFR TTL LS INV HEX 1-INP	0169H	SN74LS368N
A15U3	1820-1492		IC-BFR TTL LS INV HEX 1-INP	0169H	SN74LS368N
A15U4	1820-1288	1	IC-DRVR TTL/MOS CLOCK DRVR 1-INP	0203G	MMH0026CL
A15U5	1826-0180	1	IC-555	0291J	NE555V
A15U6	1820-1277	1	IC-CNTR TTL LS DECD UP/DOWN	0169H	SN74LS192N
A15U7	1820-1195	1	IC-FF TTL LS D-TYPE POS-EDGE-TRIG	0379D	AM74LS175A
A15U8	1820-1199	1	IC-INV TTL LS HEX 1-INP	0169H	SN74LS04N
A15U9	1820-1198	1	IC-GATE TTL LS NAND QUAD 2-INP	0169H	SN74LS03N
A15U10	1820-1416	1	IC-SCHMITT-TRIG TTL LS INV HEX 1-INP	0169H	SN74LS14N
A15U11	1820-1204	1	IC-GATE TTL LS NAND DUAL 4-INP	0169H	SN74LS20N
A15U12	1820-0681	1	IC-GATE TTL S NAND QUAD 2-INP	0223G	74S00PC
A15U13	85680-60100	1	MICRO PROCESSOR	28480	85680-60100
A15U14	1906-0075	2	DIODE-ARRAY 40V 400MA	28480	1906-0075
A15U15	1810-0338	2	NETWORK-RES 16-PIN DIP	02483	761-3-R100
A15U16	1906-0075		DIODE-ARRAY 40V 400MA	28480	1906-0075
A15U17	1810-0338		NETWORK-RES 16-PIN DIP	02483	761-3-R100
A15VR1	1902-0072	1	DIODE-ZNR 7.87V 2% PD=.4W TC=+.051%	28480	1902-0072
A15VR2	1902-3048	1	DIODE-ZNR 3.48V 5% PD=.4W TC=-.058%	0203G	SZ 10939-50
A15VR3	1902-0551	1	DIODE-ZNR 6.19V 5% PD=1W TC=+.022%	28480	1902-0551

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16	85680-60005	1	20 MHZ REFERENCE (INCL W26 & W22)	28480	85680-60005
A16C1	0160-2055	28	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C2	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C3	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C4	0140-0193	2	CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300WV1CR
A16C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C6	0140-0193		CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300WV1CR
A16C7	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C8	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C9	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C10	0160-2264	1	CAPACITOR-FXD 20PF +-5% 500VDC CER U+-30	28480	0160-2264
A16C11	0121-0457	1	CAPACITOR-V TRMR-PSTN .8-8.5PF 750V	18736	TP9
A16C12	0121-0451	1	CAPACITOR-V TRMR-AJR 1.7-11PF 250V	74970	187-0106-005
A16C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C15	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C16	0160-2201	1	CAPACITOR-FXD 51PF +-5% 300VDC MICA	28480	0160-2201
A16C17	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C18	0160-2260	1	CAPACITOR-FXD 13PF +-5% 500VDC CER 0+-30	28480	0160-2260
A16C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C20	0180-0197	4	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A16C21	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A16C22	0140-0196	1	CAPACITOR-FXD 200PF +-5% 300VDC MICA	72136	DM15F201J0300WV1CR
A16C23	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A16C24	0140-0210	1	CAPACITOR-FXD 270PF +-5% 300VDC MICA	72136	DM15F271J0300WV1CR
A16C25	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C26	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C28	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C29	0160-2204	2	CAPACITOR-FXD 100PF +-5% 300VDC MICA	28480	0160-2204
A16C30	0160-2204		CAPACITOR-FXD 100PF +-5% 300VDC MICA	28480	0160-2204
A16C31	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C32	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C33	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C34	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C35	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C36	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C37	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C38	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C39	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A16C40	0160-3879	3	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A16C41	0160-3879		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A16C42	0160-3879		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A16C43	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C44	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C45	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C46	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A16C47	0160-2247	1	CAPACITOR-FXD 3.9PF +-25PF 500VDC CER	28480	0160-2247
A16CR1	1901-0639	1	DIODE-P1N 110V	28480	1901-0639
A16CR2	1901-0535	1	DIODE-SCHOTTKY	28480	1901-0535
A16CR3	1901-0040	2	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A16CR4	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A16DB1	1990-0486	1	LED-VISIBLE LUM-INT-IMCD IF=20MA-MAX	28480	1990-0486
A16E1	9170-0029	2	CORE-SHIELDING BEAD	28480	9170-0029
A16E2	9170-0029		CORE-SHIELDING BEAD	28480	9170-0029
A16J1	1250-0690	4	CONNECTOR-RF SMB M SGL-HOLE-FR 50-OHM	28480	1250-0690
A16J2	1250-0690		CONNECTOR-RF SMB M SGL-HOLE-FR 50-OHM	28480	1250-0690
A16J3	1250-0690		CONNECTOR-RF SMB M SGL-HOLE-FR 50-OHM	28480	1250-0690
A16J4			PART OF W26		
A16J5			PART OF W23		
A16J6	1250-0690		CONNECTOR-RF SMB M SGL-HOLE-FR 50-OHM	28480	1250-0690
A16L1	9140-0143	1	COIL-MLD 3.3UH 10% Q=45 .095DX,25LG-NOM	28480	9140-0143
A16L2	9140-0179	8	COIL-MLD 22UH 10% Q=75 .155DX,375LG-NOM	28480	9140-0179
A16L3	9140-0142	1	COIL-MLD 2.2UH 10% Q=32 .095DX,25LG-NOM	28480	9140-0142
A16L4	9140-0114	1	COIL-MLD 10UH 10% Q=55 .155DX,375LG-NOM	28480	9140-0114
A16L5	9100-2250	1	COIL-MLD 180NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2250
A16L6	9140-0179		COIL-MLD 22UH 10% Q=75 .155DX,375LG-NOM	28480	9140-0179
A16L7	9140-0179		COIL-MLD 22UH 10% Q=75 .155DX,375LG-NOM	28480	9140-0179
A16L8	9100-2256	2	COIL-MLD 560NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2256
A16L9	9100-2259	1	COIL-MLD 1.5UH 10% Q=32 .095DX,25LG-NOM	28480	9100-2259
A16L10	9100-2256		COIL-MLD 560NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2256

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16L11	9140-0179		COIL-MLD 22UH 10% Q=75 .155DX.375LG-NOM	26480	9140-0179
A16L12	9140-0179		COIL-MLD 22UH 10% Q=75 .155DX.375LG-NOM	26480	9140-0179
A16L13	9140-0179		COIL-MLD 22UH 10% Q=75 .155DX.375LG-NOM	26480	9140-0179
A16L14	9140-0179		COIL-MLD 22UH 10% Q=75 .155DX.375LG-NOM	26480	9140-0179
A16L15	9140-0179		COIL-MLD 22UH 10% Q=75 .155DX.375LG-NOM	26480	9140-0179
A16L16	9100-2258	1	COIL-MLD 1.2UH 10% Q=32 .095DX.25LG-NOM	26480	9100-2258
A16Q1	1854-0023	3	TRANSISTOR NPN 8I T0-18 PD=360MW	26480	1854-0023
A16Q2	1854-0023		TRANSISTOR NPN 8I T0-18 PD=360MW	26480	1854-0023
A16Q3	1854-0023		TRANSISTOR NPN 8I T0-18 PD=360MW	26480	1854-0023
A16Q4	1854-0247	3	TRANSISTOR NPN 8I T0-39 PD=1W FT=800MHZ	26480	1854-0247
A16Q5	1854-0247		TRANSISTOR NPN 8I T0-39 PD=1W FT=800MHZ	26480	1854-0247
A16Q6	1854-0247		TRANSISTOR NPN 8I T0-39 PD=1W FT=800MHZ	26480	1854-0247
A16Q7	1854-0019	1	TRANSISTOR NPN 8I T0-18 PD=360MW	26480	1854-0019
A16Q8	1853-0007	1	TRANSISTOR PNP 2N3251 SI T0-18 PD=360MW	04713	2N3251
A16R1	0757-0398	3	RESISTOR 75 1% .125W F TC=0+-100	24546	C4-1/8-T0-75R0-F
A16R2	0757-0378	3	RESISTOR 11 1% .125W F TC=0+-100	19701	MP4C1/8-T0-11R0-F
A16R3	0757-0378		RESISTOR 11 1% .125W F TC=0+-100	19701	MP4C1/8-T0-11R0-F
A16R4	0698-3443	5	RESISTOR 287 1% .125W F TC=0+-100	24546	C4-1/8-T0-287R-F
A16R5	0757-0422	6	RESISTOR 909 1% .125W F TC=0+-100	24546	C4-1/8-T0-909R-F
A16R6	0698-3157	4	RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A16R7	0757-0442	3	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R8	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	24546	C4-1/8-T0-287R-F
A16R9	0757-0422		RESISTOR 909 1% .125W F TC=0+-100	24546	C4-1/8-T0-909R-F
A16R10	0757-0398		RESISTOR 75 1% .125W F TC=0+-100	24546	C4-1/8-T0-75R0-F
A16R11	0698-3430	1	RESISTOR 21.5 1% .125W F TC=0+-100	03888	PHE55-1/8-T0-21R5-F
A16R12	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	24546	C4-1/8-T0-287R-F
A16R13	0698-3404	1	RESISTOR 383 1% .05W F TC=0+-100	26480	0698-3404
A16R14	0698-3439	1	RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0-178R-F
A16R15	0757-0395	1	RESISTOR 56.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-5622-F
A16R16	0757-0200	1	RESISTOR 5.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5621-F
A16R17	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R18	0757-0422		RESISTOR 909 1% .125W F TC=0+-100	24546	C4-1/8-T0-909R-F
A16R19	0698-3438	1	RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0-147R-F
A16R20	0757-0418	1	RESISTOR 619 1% .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A16R21	0757-0346	1	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A16R22	0757-0378		RESISTOR 11 1% .125W F TC=0+-100	19701	MP4C1/8-T0-11R0-F
A16R23	0698-0082	1	RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0-4640-F
A16R24	0757-0274	3	RESISTOR 1.21K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1213-F
A16R25	0757-0465	1	RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R26	0698-3157		RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A16R27	0698-3260	1	RESISTOR 464K 1% .125W F TC=0+-100	26480	0698-3260
A16R28	0698-3150	1	RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2371-F
A16R29	0757-0274		RESISTOR 1.21K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1213-F
A16R30	0757-0459	1	RESISTOR 56.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5622-F
A16R31	2100-3161	1	RESISTOR-TRMR 20K 10% C SIDE-ADJ 17-TRN	02111	43P203
A16R32	0757-0462	1	RESISTOR 75K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7502-F
A16R33	0698-3157		RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A16R34	0757-0274		RESISTOR 1.21K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1213-F
A16R35	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	24546	C4-1/8-T0-287R-F
A16R36	0757-0398		RESISTOR 75 1% .125W F TC=0+-100	24546	C4-1/8-T0-75R0-F
A16R37	0757-0422		RESISTOR 909 1% .125W F TC=0+-100	24546	C4-1/8-T0-909R-F
A16R38	0757-0401	4	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A16R39	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A16R40	0698-7196	3	RESISTOR 21.5 1% .05W F TC=0+-100	24546	C3-1/8-T00-21R5-G
A16R41	0698-7207	1	RESISTOR 61.9 1% .05W F TC=0+-100	24546	C3-1/8-T00-61R9-G
A16R42	0698-7201	2	RESISTOR 34.8 1% .05W F TC=0+-100	24546	C3-1/8-T00-34R8-G
A16R43	0698-7196		RESISTOR 21.5 1% .05W F TC=0+-100	24546	C3-1/8-T00-21R5-G
A16R44	0698-7203	1	RESISTOR 42.2 1% .05W F TC=0+-100	24546	C3-1/8-T00-42R2-G
A16R45	0698-7201		RESISTOR 34.8 1% .05W F TC=0+-100	24546	C3-1/8-T00-34R8-G
A16R46	0698-7196		RESISTOR 21.5 1% .05W F TC=0+-100	24546	C3-1/8-T00-21R5-G
A16R47	0757-0397	1	RESISTOR 68.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-681R-F
A16R48	0698-3151	1	RESISTOR 2.87K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2871-F
A16R49	0698-3441	1	RESISTOR 215 1% .125W F TC=0+-100	24546	C4-1/8-T0-215R-F
A16R50	0698-3437	2	RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0-133R-F
A16R51	2100-3123	1	RESISTOR-TRMR 500 10% C SIDE-ADJ 17-TRN	02111	43P501
A16R52	0757-0419	1	RESISTOR 681 1% .125W F TC=0+-100	24546	C4-1/8-T0-681R-F
A16R53	0698-3437		RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0-133R-F
A16R54	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A16R55	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A16R56	0757-0276	1	RESISTOR 61.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A16R57	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R58	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	24546	C4-1/8-T0-287R-F
A16R59	0757-0422		RESISTOR 909 1% .125W F TC=0+-100	24546	C4-1/8-T0-909R-F
A16R60	0698-3157		RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16R1 A16R2	0698-3160 0757-0422	1	RESISTOR 31.6K 1% .125W F TC=0+-100 RESISTOR 909 1% .125W F TC=0+-100	24546 24546	C4-1/8-T0-3162-F C4-1/8-T0-909R-F
A16T1 A16T2	85680-80004 85662-80002	1 1	TRANSFORMER, RF COIL ASSEMBLY, TRANSFORMER	28480 28480	85680-80004 85662-80002
A16TP1 A16TP2 A16TP3 A16TP4	0360-0124 0360-0124 0360-0124 0360-0124	4	TERMINAL-STUD 8GL-PIN PRESS-MTG TERMINAL-STUD 8GL-PIN PRESS-MTG TERMINAL-STUD 8GL-PIN PRESS-MTG TERMINAL-STUD 8GL-PIN PRESS-MTG	28480 28480 28480 28480	0360-0124 0360-0124 0360-0124 0360-0124
A16U1 A16U2 A16U3	1858-0032 1820-1144 1826-0092	1 1 1	TRANSISTOR ARRAY IC GATE TTL LS NOR QUAD 2-INP IC OP AMP T0-99	01928 01295 28480	CA3146E SN74LS02N 1826-0092
A16VR1	1902-0048	1	DIODE-ZNR 6.81V 5% DO-7 PD=.4W TC=+.043X	28480	1902-0048
A16Y1	0410-1103	1	CRYSTAL 20.0 MHZ A16 MISCELLANEOUS PARTS	28480	0410-1103
	86701-40001	1	EXTRACTOR, PC BOARD	28480	86701-40001

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A17	85680-60018	1	BOARD ASSEMBLY, FREQUENCY COUNTER (INCLUDES W27)	28480	85680-60018
A17C1	0160-2055	23	CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C2	0160-2199	1	CAPACITOR-FXD 30PF +-5X 300VDC MICA	28480	0160-2199
A17C3	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C4	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C5	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C6	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C7	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C8	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C9	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C10	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C11	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C12	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C13	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C14	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C15	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C16	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C17	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C18	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C19	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C20	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C21	0160-0945	1	CAPACITOR-FXD 010PF +-5X 100VDC MICA	28480	0160-0945
A17C22	0160-4084	1	CAPACITOR-FXD .1UF +-20X 50VDC CER	28480	0160-4084
A17C23	0160-0197	1	CAPACITOR-FXD 2.2UF+-10X 20VDC TA	56289	150D225X9020A2
A17C24	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C25	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C26	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C27			NOT ASSIGNED		
A17C28	0160-2055		CAPACITOR-FXD .01UF +80=20X 100VDC CER	28480	0160-2055
A17C29	0160-2308	1	CAPACITOR-FXD 36PF +-5X 300VDC MICA	28480	0160-2308
A17C30	0160-2257	1	CAPACITOR-FXD 10PF +-5X 500VDC CER 0+-60	28480	0160-2257
A17C31	0140-0205	1	CAPACITOR-FXD 62PF +-5X 300VDC MICA	72136	DM15E620J0300W1CR
A17CR1	1901-0535	4	DIODE-SCMOTTKY	28480	1901-0535
A17CR2	1901-0535		DIODE-SCMOTTKY	28480	1901-0535
A17CR3	1901-0535		DIODE-SCMOTTKY	28480	1901-0535
A17CR4	1901-0535		DIODE-SCMOTTKY	28480	1901-0535
A17J1			PART OF W27		
A17J2	1250-0690	2	CONNECTOR-RF SMB M SGL-HOLE-FR 50-OHM	28480	1250-0690
A17J3	1250-0690		CONNECTOR-RF SMB M SGL-HOLE-FR 50-OHM	28480	1250-0690
A17L1	9100-2261	2	COIL-MLD 2.7UH 10X Q=40 .095DX,25LG-NOM	28480	9100-2261
A17L2	9100-2258	2	COIL-MLD 1.2UH 10X Q=32 .095DX,25LG-NOM	28480	9100-2258
A17L3			NOT ASSIGNED		
A17L4	9100-1617	1	COIL-MLD 3.9UH 10X Q=33 .155DX,375LG-NOM	28480	9100-1617
A17L5	9100-2261		COIL-MLD 2.7UH 10X Q=40 .095DX,25LG-NOM	28480	9100-2261
A17L6	9100-2258		COIL-MLD 1.2UH 10X Q=32 .095DX,25LG-NOM	28480	9100-2258
A17L7	9140-0114	2	COIL-MLD 10UH 10X Q=55 .155DX,375LG-NOM	28480	9140-0114
A17L8	9140-0114		COIL-MLD 10UH 10X Q=55 .155DX,375LG-NOM	28480	9140-0114
A17Q1	1854-0023	4	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A17Q2	1854-0023		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A17Q3	1854-0019	8	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A17Q4	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A17Q5	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A17Q6	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A17Q7	1854-0023		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A17Q8	1854-0023		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A17Q9	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A17Q10	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A17Q11	1853-0007	1	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A17Q12	1854-0404	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A17Q13	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A17Q14	1854-0019		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A17R1	0757-0346	5	RESISTOR 10 1X .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A17R2	0757-0395	2	RESISTOR 56.2 1X .125W F TC=0+-100	24546	C4-1/8-T0-56R2-F
A17R3	0698-3152	2	RESISTOR 3.48K 1X .125W F TC=0+-100	24546	C4-1/8-T0-3481-F
A17R4	0757-0276	2	RESISTOR 61.9 1X .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A17R5	0757-0416	2	RESISTOR 511 1X .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A17R6			NOT ASSIGNED		
A17R7	0757-0280	4	RESISTOR 1K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A17R8	0757-1094		RESISTOR 1.47K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A17R9	0757-0346	3	RESISTOR 10 1X .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A17R10	0757-0280		RESISTOR 1K 1X .125W F TC=0+-100	24546	C4-1/8-T0-1001-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A17R11	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A17R12	0757-0418	1	RESISTOR 619 1% .125W F TC=0+-100	24546	C4-1/8-T0-619R-F
A17R13	0698-3152	1	RESISTOR 3.48K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3481-F
A17R14	0698-3440	2	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A17R15	0698-3445	2	RESISTOR 348 1% .125W F TC=0+-100	24546	C4-1/8-T0-348R-F
A17R16	0757-0346	1	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A17R17	0757-1094	1	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A17R18	0698-3440	1	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A17R19	0698-3445	1	RESISTOR 348 1% .125W F TC=0+-100	24546	C4-1/8-T0-348R-F
A17R20	0757-0395	1	RESISTOR 56.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-56R2-F
A17R21	0757-1094	1	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A17R22	0757-0346	1	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A17R23	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A17R24	0698-3157	3	RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A17R25	0698-3447	1	RESISTOR 422 1% .125W F TC=0+-100	24546	C4-1/8-T0-422R-F
A17R26	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A17R27	0698-3457	1	RESISTOR 316K 1% .125W F TC=0+-100	26480	0698-3457
A17R28	0757-0278	1	RESISTOR 1.78K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1781-F
A17R29	0757-0346	1	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A17R30	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A17R31	0757-0294	2	RESISTOR 17.8 1% .125W F TC=0+-100	19701	MF4C1/8-T0-17R8-F
A17R32	0757-0294	1	RESISTOR 17.8 1% .125W F TC=0+-100	19701	MF4C1/8-T0-17R8-F
A17R33			NOT ASSIGNED		
A17R34	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A17R35	0757-0276	1	RESISTOR 61.9 1% .125W F TC=0+-100	24546	C4-1/8-T0-6192-F
A17R36	0757-0442	2	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A17R37	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A17R38	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A17TP1	0360-0124	4	CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A17TP2	0360-0124	1	CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A17TP3	0360-0124	1	CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A17TP4	0360-0124	1	CONNECTOR-8GL CONT PIN .04-IN-88C-8Z RND	28480	0360-0124
A17U1	1820-1244	1	IC MUXR/DATA-SEL TTL LS 4-T0-1-LINE	01295	8N74LS153N
A17U2	1820-1183	1	IC MISC MOB	30088	MK5009N
A17U3	1820-1122	3	IC CNTR CMOS BCD SYNCHRO DUAL	04713	MC145188CP
A17U4	1820-1212	1	IC FF TTL LS J-K NEG-EDGE-TRIG	01295	8N74LS112N
A17U5	1820-1122	1	IC CNTR CMOS BCD SYNCHRO DUAL	04713	MC145188CP
A17U6	1820-1196	1	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74LS174N
A17U7	1820-1144	1	IC GATE TTL LS NOR QUAD 2-INP	01295	8N74LS02N
A17U8	1820-1759	4	IC BFR TTL LS NON-INV OCTL	27014	DM81LS97N
A17U9	1820-1122	1	IC CNTR CMOS BCD SYNCHRO DUAL	04713	MC145188CP
A17U10	1820-1251	3	IC CNTR TTL LS DECD ASYNCHRO	01295	8N74LS196N
A17U11	1820-1251	1	IC CNTR TTL LS DECD ASYNCHRO	01295	8N74LS196N
A17U12	1820-1251	1	IC CNTR TTL LS DECD ASYNCHRO	01295	8N74LS196N
A17U13	1820-1759	1	IC BFR TTL LS NON-INV OCTL	27014	DM81LS97N
A17U14	1820-1759	1	IC BFR TTL LS NON-INV OCTL	27014	DM81LS97N
A17U15	1820-1759	1	IC BFR TTL LS NON-INV OCTL	27014	DM81LS97N
A17U16	1820-1216	1	IC DCDR TTL LS 3-T0-8-LINE 3-INP	01295	8N74LS138N
A17VR1	1902-3036	1	DIODE-ZNR 3.16V 5% DO-7 PW=.4W TC=-.064%	28480	1902-3036
			A17 MISCELLANEOUS PARTS		
	86701-40001	1	EXTRACTOR, PC BOARD	28480	86701-40001

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18	85680-60015	1	BOARD ASSEMBLY, 275MHZ PHASE LOCK OSC, (INCLUDES W25)	28480	85680-60015
A18C1	0140-0199	1	CAPACITOR-FXD 240PF +-5% 300VDC MICA	72136	DM15F241J0300MV1CR
A18C2	0140-0191	1	CAPACITOR-FXD 56PF +-5% 300VDC MICA	72136	DM15E560J0300MV1CR
A18C3	0160-2207	1	CAPACITOR-FXD 300PF +-5% 300VDC MICA	28480	0160-2207
A18C4	0160-2206	1	CAPACITOR-FXD 160PF +-5% 300VDC MICA	28480	0160-2206
A18C5	0140-0196	1	CAPACITOR-FXD 150PF +-5% 300VDC MICA	72136	DM15F151J0300MV1CR
A18C6	0160-3466	1	CAPACITOR-FXD 100PF +-10% 1KVDC CER	28480	0160-3466
A18C7	0160-2248	1	CAPACITOR-FXD 4.3PF +- .25PF 500VDC CER	28480	0160-2248
A18C8	0121-0457	1	CAPACITOR-V TRMR-P8TN, 6-8.5PF 750V	18736	TP9
A18C9	0160-2266	1	CAPACITOR-FXD 24PF +-5% 500VDC CER 0+-30	28480	0160-2266
A18C10	0160-2247	1	CAPACITOR-FXD 3.9PF +- .25PF 500VDC CER	28480	0160-2247
A18C11	0150-0059	1	CAPACITOR-FXD 3.3PF +- .25PF 500VDC CER	28480	0150-0059
A18C12	0160-2055	16	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C13			NOT ASSIGNED		
A18C14	0160-2259	1	CAPACITOR-FXD 12PF +-5% 500VDC CER 0+-30	28480	0160-2259
A18C15	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C17	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C18	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C19	0160-2261	2	CAPACITOR-FXD 15PF +-5% 500VDC CER 0+-30	28480	0160-2261
A18C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C21	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C22	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C24	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C25	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C26	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C28	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C29	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C30	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A18C31	0160-2261	2	CAPACITOR-FXD 15PF +-5% 500VDC CER 0+-30	28480	0160-2261
A18C32	0180-0116		CAPACITOR-FXD 6.8UF+-10% 35VDC TA	56289	150D68X9035B2
A18C33	0180-0116		CAPACITOR-FXD 6.8UF+-10% 35VDC TA	56289	150D68X9035B2
A18C34	0160-3876	1	CAPACITOR-FXD 47PF +-20% 200VDC CER	28480	0160-3876
A18C35	0140-0193	2	CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300MV1CR
A18C36	0140-0193		CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300MV1CR
A18C37			NOT ASSIGNED		
A18C38	0160-2437	1	CAPACITOR-PDTHRU 5000PF +80 -20% 200V	28480	0160-2437
A18CR1	0122-0072	1	DIODE-VVC 2.2PF 5% C3/C25-MIN=4.5	04713	881058
A18J1	1250-0690	2	CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A18J2			PART OF W25		
A18J3	1250-0690		CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A18L1	9140-0129	3	COIL-MLD 220UH 5% Q=65 .155DX,375LG-NOM	28480	9140-0129
A18L2	9100-1639	1	COIL-MLD 150UH 5% Q=65 .155DX,375LG-NOM	28480	9100-1639
A18L3	9140-0158	5	COIL-MLD 1UH 10% Q=32 .095DX,25LG-NOM	28480	9140-0158
A18L4	85680-80005	1	OSCILLATOR COIL	28480	85680-80005
A18L5	9140-0158		COIL-MLD 1UH 10% Q=32 .095DX,25LG-NOM	28480	9140-0158
A18L6	9140-0158		COIL-MLD 1UH 10% Q=32 .095DX,25LG-NOM	28480	9140-0158
A18L7	9100-2252	1	COIL-MLD 270NH 10% Q=30 .095DX,25LG-NOM	28480	9100-2252
A18L8	9100-0346	2	COIL-MLD 50NH 20% Q=40 .095DX,25LG-NOM	28480	9100-0346
A18L9	9140-0158		COIL-MLD 1UH 10% Q=32 .095DX,25LG-NOM	28480	9140-0158
A18L10	9100-2251	1	COIL-MLD 220NH 10% Q=32 .095DX,25LG-NOM	28480	9100-2251
A18L11	9100-2249	3	COIL-MLD 150NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2249
A18L12	9100-2249		COIL-MLD 150NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2249
A18L13	9100-2249		COIL-MLD 150NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2249
A18L14	9100-0346		COIL-MLD 50NH 20% Q=40 .095DX,25LG-NOM	28480	9100-0346
A18L15	9140-0158		COIL-MLD 1UH 10% Q=32 .095DX,25LG-NOM	28480	9140-0158
A18L16	9140-0129		COIL-MLD 220UH 5% Q=65 .155DX,375LG-NOM	28480	9140-0129
A18L17	9140-0129		COIL-MLD 220UH 5% Q=65 .155DX,375LG-NOM	28480	9140-0129
A18L18	9100-2256	1	COIL-MLD 560NH 10% Q=34 .095DX,25LG-NOM	28480	9100-2256
A18Q1	1854-0345	4	TRANSISTOR NPN 2N5179 SI TO-72 PD=200MW	04713	2N5179
A18Q2	1854-0345		TRANSISTOR NPN 2N5179 SI TO-72 PD=200MW	04713	2N5179
A18Q3	1854-0345		TRANSISTOR NPN 2N5179 SI TO-72 PD=200MW	04713	2N5179
A18Q4	1854-0247	1	TRANSISTOR NPN 8I TO-39 PD=1W FT=800MHZ	28480	1854-0247
A18Q5	1854-0345		TRANSISTOR NPN 2N5179 SI TO-72 PD=200MW	04713	2N5179
A18R1	0757-0280	4	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A18R2	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A18R3	0757-0394	2	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A18R4	0757-0424	1	RESISTOR 1.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1101-F
A18R5	0698-3446	1	RESISTOR 383 1% .125W F TC=0+-100	24546	C4-1/8-T0-383R-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18R6			NOT ASSIGNED		
A18R7			NOT ASSIGNED		
A18R8	0698-3438	6	RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0=147R-F
A18R9	0757-0180	1	RESISTOR 31.6 1% .125W F TC=0+-100	28480	0757-0180
A18R10	0698-3438		RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0=147R-F
A18R11	0757-1094	2	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A18R12	0698-0082	2	RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0=4640-F
A18R13	0757-0416	2	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0=511R-F
A18R14	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A18R15	0698-3438		RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0=147R-F
A18R16	0757-0346	1	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0=10R0-F
A18R17	0698-3439	1	RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0=178R-F
A18R18			NOT ASSIGNED		
A18R19			NOT ASSIGNED		
A18R20	0757-0398	2	RESISTOR 75 1% .125W F TC=0+-100	24546	C4-1/8-T0=75R0-F
A18R21	0698-3438		RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0=147R-F
A18R22	0698-3434	1	RESISTOR 34.8 1% .125W F TC=0+-100	24546	C4-1/8-T0=348R-F
A18R23	0698-3438		RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0=147R-F
A18R24	0757-0398		RESISTOR 75 1% .125W F TC=0+-100	24546	C4-1/8-T0=75R0-F
A18R25	0698-3443	4	RESISTOR 287 1% .125W F TC=0+-100	24546	C4-1/8-T0=287R-F
A18R26	0757-0294	2	RESISTOR 17.8 1% .125W F TC=0+-100	19701	MF4C1/8-T0=17R8-F
A18R27	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	24546	C4-1/8-T0=287R-F
A18R28	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A18R29	0698-0082		RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0=4640-F
A18R30	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	24546	C4-1/8-T0=287R-F
A18R31	0757-0294		RESISTOR 17.8 1% .125W F TC=0+-100	19701	MF4C1/8-T0=17R8-F
A18R32	0698-3443		RESISTOR 287 1% .125W F TC=0+-100	24546	C4-1/8-T0=287R-F
A18R33	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A18R34	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A18R35	0698-3438		RESISTOR 147 1% .125W F TC=0+-100	24546	C4-1/8-T0=147R-F
A18R36	0757-0394		RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0=51R1-F
A18R37	0698-8822	1	RESISTOR 6.81 1% .125W F TC=0+-100	28480	0698-8822
A18R38	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0=511R-F
A18TP1			PART OF C38		
A18U1	0955-0063	1	MIXER, DOUBLE BALANCE 200 MW	28480	0955-0063
			A18 MISCELLANEOUS PARTS		
	86701-40001	1	EXTRACTOR, PC BOARD	28480	86701-40001

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A19	85680-60007	1	BOARD ASSEMBLY, SECOND IF AMPLIFIER	28480	85680-60007
A19C1	0160-3873	3	CAPACITOR-FXD 4.7PF +/-5PF 200VDC	28480	0160-3873
A19C2	0160-3874	1	CAPACITOR-FXD 10PF +/-5PF 200VDC	28480	0160-3874
A19C3	0160-3873		CAPACITOR-FXD 4.7PF +/-5PF 200VDC	28480	0160-3873
A19C4	0160-3873		CAPACITOR-FXD 4.7PF +/-5PF 200VDC	28480	0160-3873
A19C5	0160-3466	2	CAPACITOR-FXD 100PF +/-10% 1KVDC CER	28480	0160-3466
A19C6	0160-2055	2	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A19C7	0160-2261	1	CAPACITOR-FXD 15PF +/-5% 500VDC CER0+-30	28480	0160-2261
A19C8	0160-3466		CAPACITOR-FXD 100PF +/-10% 1KVDC CER	28480	0160-3466
A19C9	0121-0493	4	CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A19C10	0121-0493		CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A19C11	0121-0493		CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A19C12	0121-0493		CAPACITOR-V AIR DIEI 1.7-11PF 250V	74970	187-0306-105
A19C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A19C14	0160-3466	1	CAPACITOR-FXD 1000PF +/-10% 1KVDC CER	28480	0160-3466
A19J1	1250-0690	2	CONNECTOR-RF 8MB M 86L-HOLE-FR 50-OHM	28480	1250-0690
A19J2	1250-0690		CONNECTOR-RF 8MB M 86L-HOLE-FR 50-OHM	28480	1250-0690
A19L1	85680-80009	2	INDUCTOR, 35 NH	28480	85680-80009
A19L2	85680-80009		INDUCTOR, 35 NH	28480	85680-80009
A19L3	9100-0346	1	COIL-MLD 50NH 20X G=40 .095DX,25LG	28480	9100-0346
A19L4	85680-80014	1	TRANSFORMER	28480	85680-80014
A19L5	85680-80008		INDUCTOR, 50 NH	28480	85680-80008
A19L6	85680-80008		INDUCTOR, 50 NH	28480	85680-80008
A19L7	85680-80015	1	TRANSFORMER	28480	85680-80015
A19L8	9100-2247	1	COIL-MLD 100NH 10X G=34 .095DX,25LG	02178	09-4410-1K
A19Q1	1854-0686	1	TRANSISTOR NPN 8I TO-72 PD=200MW FT=40HZ	28480	1854-0686
A19Q2	1853-0451	1	TRANSISTOR PNP 8I TO-18 PD=360MW	28480	1853-0451
A19R1	0757-0200	2	RESISTOR 5.62K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5621-F
A19R2	0757-0268	1	RESISTOR 9.09K 1% .125W F TC=0+-100	0299E	MF4C1/8-T0-9091-F
A19R3	0757-0200		RESISTOR 5.62K 1% .125W F TC=0+-100	03298	C4-1/8-T0-5621-F
A19R4	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	03298	C4-1/8-T0-511R-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20	85680-80008	1	BOARD ASSEMBLY, THIRD CONVERTER	28480	85680-80008
A20C1	0160-3456	5	CAPACITOR-FXD 1000PF +/-10% 1KVDC CER	28480	0160-3456
A20C2	0160-2055	16	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C3	0160-2251	1	CAPACITOR-FXD 5.6PF +/-25PF 500VDC CER	28480	0160-2251
A20C4	0160-2244	1	CAPACITOR-FXD 3PF +/-25PF 500VDC CER	28480	0160-2244
A20C5	0160-3456	1	CAPACITOR-FXD 1000PF +/-10% 1KVDC CER	28480	0160-3456
A20C6	0160-3456		CAPACITOR-FXD 1000PF +/-10% 1KVDC CER	28480	0160-3456
A20C7	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C8	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C9	0160-3456		CAPACITOR-FXD 1000PF +/-10% 1KVDC CER	28480	0160-3456
A20C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C13	0160-3456		CAPACITOR-FXD 1000PF +/-10% 1KVDC CER	28480	0160-3456
A20C14	0160-3874	2	CAPACITOR-FXD 10PF +/-5PF 200VDC CER	28480	0160-3874
A20C15	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C16			NOT ASSIGNED		
A20C17	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C18	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C21	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C22	0180-0116	1	CAPACITOR-FXD 6.8UF +/-10% 35VDC TA	56289	1500685X903582
A20C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C24	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C25	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C26	0160-3874		CAPACITOR-FXD 10PF +/-5PF 200VDC CER	28480	0160-3874
A20C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A20C28	0160-4084	1	CAPACITOR-FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A20CR1	1901-1070	1	DIODE-PI/N	28480	1901-1070
A20CR2	1901-0040	3	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A20CR3	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A20CR4	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A20J1			PART OF #30		
A20J2	1250-0690	2	CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A20J3	1250-0690		CONNECTOR-RF 8MB M 8GL-HOLE-FR 50-OHM	28480	1250-0690
A20L1	85680-80013	1	COIL, AMPTD ADJUST	28480	85680-80013
A20L2	08558-80002	1	COIL, NEUTRALIZING	28480	08558-80002
A20L3	9100-2250	1	COIL-MLD 180NH 10X Q=34 .095DX,25LG-NOM	28480	9100-2250
A20L4	9100-2252	1	COIL-MLD 270NH 10X Q=30 .095DX,25LG-NOM	28480	9100-2252
A20L5	9100-2255	1	COIL-MLD 470NH 10X Q=35 .095DX,25LG-NOM	28480	9100-2255
A20L6	9100-0368	1	COIL-MLD 330NH 10X Q=28 .095DX,25LG-NOM	28480	9100-0368
A20L7	9100-2255		COIL-MLD 470NH 10X Q=35 .095DX,25LG-NOM	28480	9100-2255
A20L8			NOT ASSIGNED		
A20L9			NOT ASSIGNED		
A20L10	9140-0178	3	COIL-MLD 12UH 10X Q=65 .155DX,375LG-NOM	28480	9140-0178
A20L11	9140-0178		COIL-MLD 12UH 10X Q=65 .155DX,375LG-NOM	28480	9140-0178
A20L12	9140-0178		COIL-MLD 12UH 10X Q=65 .155DX,375LG-NOM	28480	9140-0178
A20L13	9140-0129	1	COIL-MLD 220UH 5X Q=65 .155DX,375LG-NOM	28480	9140-0129
A20L14	9140-0158	1	COIL-MLD 1UH 10X Q=32 .095DX,25LG-NOM	28480	9140-0158
A20L15	9140-0114	1	COIL-MLD 10UH 10X Q=55 .155DX,375LG-NOM	28480	9140-0114
A20Q1	1854-0686	1	TRANSISTOR NPN 8I TO-72 PD=200MW FT=4GHZ	28480	1854-0686
A20Q2	1854-0345	2	TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	04713	2N5179
A20Q3	1854-0247	2	TRANSISTOR NPN 8I TO-39 PD=1W FT=800MHZ	28480	1854-0247
A20Q4	1854-0247		TRANSISTOR NPN 8I TO-39 PD=1W FT=800MHZ	28480	1854-0247
A20Q5	1854-0345		TRANSISTOR NPN 2N5179 8I TO-72 PD=200MW	04713	2N5179
A20Q6	1854-0210	1	TRANSISTOR NPN 2N2222 8I TO-18 PD=500MW	04713	2N2222
A20R1	0757-0428	1	RESISTOR 1.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1621-F
A20R2	0757-0346	2	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A20R3	0757-0280	1	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A20R4	0757-0401	1	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A20R5	0757-0422	1	RESISTOR 909 1% .125W F TC=0+-100	24546	C4-1/8-T0-909R-F
A20R6	0757-0279	2	RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A20R7	0757-1094	2	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A20R8	0698-3445	1	RESISTOR 348 1% .125W F TC=0+-100	24546	C4-1/8-T0-348R-F
A20R9	0757-0382	2	RESISTOR 16.2 1% .125W F TC=0+-100	19701	MF4C1/8-T0-16R2-F
A20R10	0757-0397	1	RESISTOR 68.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-68R1-F
A20R11	0757-0382		RESISTOR 16.2 1% .125W F TC=0+-100	19701	MF4C1/8-T0-16R2-F
A20R12	0757-1094		RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1471-F
A20R13	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A20R14	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A20R15	0698-3444	3	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20R16	0698-0085	1	RESISTOR 2.61K 1% .125W F TC=0+/-100	24546	C4-1/8-T0-2611-F
A20R17	0757-0438	1	RESISTOR 5.11K 1% .125W F TC=0+/-100	24546	C4-1/8-T0-5111-F
A20R18	0698-3439	1	RESISTOR 178 1% .125W F TC=0+/-100	24546	C4-1/8-T0-178R-F
A20R19*	0698-3441	2	RESISTOR 215 1% .125W F TC=0+/-100 *FACTORY SELECTED PART	24546	C4-1/8-T0-215R-F
A20R20	0698-3441		RESISTOR 215 1% .125W F TC=0+/-100	24546	C4-1/8-T0-215R-F
A20R21	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+/-100	24546	C4-1/8-T0-5111-F
A20R22	0698-3447	1	RESISTOR 422 1% .125W F TC=0+/-100	24546	C4-1/8-T0-422R-F
A20R23	0698-3156	1	RESISTOR 14.7K 1% .125W F TC=0+/-100	24546	C4-1/8-T0-1472-F
A20R24	0757-0420	1	RESISTOR 750 1% .125W F TC=0+/-100	24546	C4-1/8-T0-751-F
A20R25	0698-3438	1	RESISTOR 147 1% .125W F TC=0+/-100	24546	C4-1/8-T0-147R-F
A20R26	0698-3444		RESISTOR 316 1% .125W F TC=0+/-100	24546	C4-1/8-T0-316R-F
A20R27	0698-3444		RESISTOR 316 1% .125W F TC=0+/-100	24546	C4-1/8-T0-316R-F
A20R28	0698-3154	1	RESISTOR 4.22K 1% .125W F TC=0+/-100	24546	C4-1/8-T0-4221-F
A20R29	0757-0290	1	RESISTOR 6.19K 1% .125W F TC=0+/-100	19701	MF4C1/8-T0-6191-F
A20R30	0698-3152	1	RESISTOR 3.48K 1% .125W F TC=0+/-100	24546	C4-1/8-T0-3481-F
A20R31	0757-0317	1	RESISTOR 1.33K 1% .125W F TC=0+/-100	24546	C4-1/8-T0-1331-F
A20R32	0757-0458	1	RESISTOR 51.1K 1% .125W F TC=0+/-100	24546	C4-1/8-T0-5112-F
A20R33	0683-0275	1	RESISTOR 2.7 5% .25W FC TC=-400/+500	01121	CB27G5
A20TP1	0360-0124	1	CONNECTOR-8GL CONT PIN .04-IN=88C-8Z RND	28480	0360-0124
A20U1	0955-0063	1	MIXER, DOUBLE BALANCE 200 MH	28480	0955-0063
A20Y1	0410-0447	1	CRYSTAL, 280 MHZ	00809	0410-0447-1

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A21	85680-60016	1	BOARD ASSEMBLY, 275 MHZ PHASE LOCK (INCLUDES A21A1, 275 MHZ MIXER, W28, W29, W19)	28480	85680-60016
A21C1	0180-1746	3	CAPACITOR-FXD 15UF +-10% 20VDC TA	56289	150D156X902082
A21C2	0160-2055	4	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A21C3	0180-1746		CAPACITOR-FXD 15UF +-10% 20VDC TA	56289	150D156X902082
A21C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A21C5	0180-1746		CAPACITOR-FXD 15UF +-10% 20VDC TA	56289	150D156X902082
A21C6	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A21C7	0160-0174	8	CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A21C8	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A21C9	0160-4084	3	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A21C10	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A21C11	0160-2307	1	CAPACITOR-FXD 47PF +-5% 300VDC MICA	28480	0160-2307
A21C12	0140-0193	1	CAPACITOR-FXD 82PF +-5% 300VDC MICA	72136	DM15E820J0300MV1CR
A21C13	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A21C14	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A21C15	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A21C16	0160-3536	2	CAPACITOR-FXD 620PF +-5% 100VDC MICA	28480	0160-3536
A21C17	0160-3536		CAPACITOR-FXD 620PF +-5% 100VDC MICA	28480	0160-3536
A21C18	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A21C19	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A21C20	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A21C21	0140-0196	1	CAPACITOR-FXD 150PF +-5% 300VDC MICA	72136	DM15F151J0300MV1CR
A21C22	0160-0174		CAPACITOR-FXD .47UF +80-20% 25VDC CER	28480	0160-0174
A21C23			NOT ASSIGNED		
A21C24			NOT ASSIGNED		
A21C25			NOT ASSIGNED		
A21C26	0160-0194	1	CAPACITOR-FXD .015UF +-10% 200VDC POLYE	28480	0160-0194
A21C27	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A21CR1	1901-0050	3	DIODE-SWITCHING 80V 200MA 2N8 00-35	28480	1901-0050
A21CR2	1901-0050		DIODE-SWITCHING 80V 200MA 2N8 00-35	28480	1901-0050
A21CR3	1901-0050		DIODE-SWITCHING 80V 200MA 2N8 00-35	28480	1901-0050
A21D81	1990-0486	1	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4684
A21J1			PART OF W19		
A21J2			PART OF W28		
A21J3			PART OF W29		
A21L1	9140-0111	1	COIL-MLD 3.3UH 10% Q=33 .155DX.375LG-NOM	28480	9140-0111
A21L2	9100-1644	1	COIL-MLD 330UH 5% Q=65 .19DX.44LG-NOM	28480	9100-1644
A21L3	9100-1618	3	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A21L4	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A21L5	9100-1618		COIL-MLD 5.6UH 10% Q=45 .155DX.375LG-NOM	28480	9100-1618
A21Q1	1854-0019	1	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0019
A21Q2	1853-0007	2	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A21Q3	1853-0451	2	TRANSISTOR PNP 2N3799 8I TO-18 PD=360MW	01295	2N3799
A21Q4	1853-0451		TRANSISTOR PNP 2N3799 8I TO-18 PD=360MW	01295	2N3799
A21Q5	1854-0247	1	TRANSISTOR NPN 8I TO-39 PD=1W FT=800MHZ	28480	1854-0247
A21Q6	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A21R1	0757-0399	1	RESISTOR 82.5 1% .125W F TC=0+-100	24546	C4-1/8-T0=82R5-F
A21R2	0698-3437	1	RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0=133R-F
A21R3			NOT ASSIGNED		
A21R4	0757-0280	3	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A21R5	0757-0424	2	RESISTOR 1.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1101-F
A21R6	0698-3156	1	RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1472-F
A21R7	0698-3152	1	RESISTOR 3.48K 1% .125W F TC=0+-100	24546	C4-1/8-T0=3481-F
A21R8	0757-0442	4	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A21R9	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A21R10	0698-0082	4	RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0=4640-F
A21R11	0698-0082		RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0=4640-F
A21R12	0698-0082		RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0=4640-F
A21R13	0698-0082		RESISTOR 464 1% .125W F TC=0+-100	24546	C4-1/8-T0=4640-F
A21R14	0757-0424		RESISTOR 1.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1101-F
A21R15	0757-1094	1	RESISTOR 1.47K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1471-F
A21R16	0698-3439	1	RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0=178R-F
A21R17	0698-3132	1	RESISTOR 201 1% .125W F TC=0+-100	24546	C4-1/8-T0=2010-F
A21R18	0757-0416	2	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0=511R-F
A21R19	0757-0290	1	RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MF4C1/8-T0=6191-F
A21R20	0698-3440	2	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0=196R-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A21R21	0698-3440		RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A21R22	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0P1002-F
A21R23	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A21R24	0698-3430	1	RESISTOR 21.5 1% .125W F TC=0+-100	03888	PMES5-1/8-T0-21R5-F
A21R25	0757-0422	1	RESISTOR 909 1% .125W F TC=0+-100	24546	C4-1/8-T0-909R-F
A21R26			NOT ASSIGNED		
A21R27	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A21R28	0757-0274	1	RESISTOR 1.21K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1213-F
A21R29	0698-3153	1	RESISTOR 3.83K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3831-F
A21R30			NOT ASSIGNED		
A21R31			NOT ASSIGNED		
A21R32			NOT ASSIGNED		
A21R33	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A21R34			NOT ASSIGNED		
A21R35			NOT ASSIGNED		
A21R36			NOT ASSIGNED		
A21R37			NOT ASSIGNED		
A21R38	0757-0316	1	RESISTOR 42.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-42R2-F
A21R39	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A21TP1	0360-0124	8	CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A21TP2	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A21TP3	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A21TP4	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A21TP5	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A21TP6	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A21TP7	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A21TP8	0360-0124		CONNECTOR-SGL CONT PIN .04-IN-B8C-8Z RND	28480	0360-0124
A21U1	1920-0817	1	IC FF ECL D-M/B DUAL	04713	MC10131P
A21U2	1810-0204	1	NETWORK-RES 8-PIN-SIP .1-PIN-8PCG	11236	750-81-R1K
A21U3	1820-0802	1	IC GATE ECL NOR QUAD 2-INP	04713	MC10102P
A21U4			NOT ASSIGNED		
A21U5	1826-0371	1	IC OP AMP	03406	LF-256H
A21VR1			NOT ASSIGNED		
A21VR2	1902-0126	1	DIODE-ZNR 2.61V 5% DO-7 PD=.4W TC=-.072X	28480	1902-0126
A21VR3	1902-3070	1	DIODE-ZNR 4.22V 5% DO-7 PD=.4W TC=-.038X	28480	1902-3070
A21VR4	1902-0048	1	DIODE-ZNR 6.81V 5% DO-7 PD=.4W TC=+.043X	28480	1902-0048
			A21 MISCELLANEOUS PARTS		
	86701-40001	1	EXTRACTOR, PC BOARD	28480	86701-40001
A21A1	85680-60033	1	BOARD ASSEMBLY, 275 MHZ MIXER	28480	85680-60033
A21A1C1-			NOT ASSIGNED		
A21A1C22	0140-0074	2	CAPACITOR-FDTHRU 56PF 10% 500V MICA	28480	0140-0074
A21A1C23	0140-0077	1	CAPACITOR-FDTHRU 100PF 10% 500V MICA	72982	666-053 01A0 101K
A21A1C24	0140-0074		CAPACITOR-FDTHRU 56PF 10% 500V MICA	28480	0140-0074
A21A1C25					
A21A1C26			NOT ASSIGNED		
A21A1C27	0160-3874	1	CAPACITOR-PXD 10PF +- .5PF 200VDC CER	28480	0160-3874
A21A1C28	0160-3873	1	CAPACITOR-PXD 4.7PF +- .5PF 200VDC CER	28480	0160-3873
A21A1C29					
A21A1J1			NOT ASSIGNED		
A21A1J2			PART OF W39		
A21A1J3			PART OF W40		
A21A1L1-			NOT ASSIGNED		
A21A1L5	9100-2249	1	COIL-MLD 150NH 10% Q=34 .095DX.25LG-NOM	28480	9100-2249
A21A1L6	9100-2250	2	COIL-MLD 180NH 10% Q=34 .095DX.25LG-NOM	28480	9100-2250
A21A1L7	9100-2250		COIL-MLD 180NH 10% Q=34 .095DX.25LG-NOM	28480	9100-2250
A21A1L8					
A21A1R1-			NOT ASSIGNED		
A21A1R30-	0698-7207	2	RESISTOR 61.9 1% .05W F TC=0+-100	24546	C3-1/8-T00-61R9-G
A21A1R31	0698-7207		RESISTOR 61.9 1% .05W F TC=0+-100	24546	C3-1/8-T00-61R9-G
A21A1R32					
A21A1U1-			NOT ASSIGNED		
A21A1U5	0955-0063	1	MIXER, DOUBLE BALANCE 200 MW	28480	0955-0063
A21A1U6					

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A22	85680-60012	1	BOARD ASSEMBLY, FREQUENCY CONTROL	28480	85680-60012
A22C1	0180-0197	9	CAPACITOR-FXD 2,2UF+-10% 20VDC TA	56289	150D225X9020A2
A22C2	0180-1746	2	CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X9020B2
A22C3	0180-1746		CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X9020B2
A22C4	0160-3448	4	CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3448
A22C5	0160-2253	1	CAPACITOR-FXD 6,8PF +-25PF 500VDC CER	28480	0160-2253
A22C6	0180-0197		CAPACITOR-FXD 2,2UF+-10% 20VDC TA	56289	150D225X9020A2
A22C7	0180-0197		CAPACITOR-FXD 2,2UF+-10% 20VDC TA	56289	150D225X9020A2
A22C8	0180-0197		CAPACITOR-FXD 2,2UF+-10% 20VDC TA	56289	150D225X9020A2
A22C9	0160-2055	7	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A22C10	0180-0197		CAPACITOR-FXD 2,2UF+-10% 20VDC TA	56289	150D225X9020A2
A22C11	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A22C12	0180-0197		CAPACITOR-FXD 2,2UF+-10% 20VDC TA	56289	150D225X9020A2
A22C13	0160-3448		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3448
A22C14	0160-3448		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3448
A22C15	0180-0197		CAPACITOR-FXD 2,2UF+-10% 20VDC TA	56289	150D225X9020A2
A22C16	0160-3402	1	CAPACITOR-FXD 1UF +-5% 50VDC MET-POLYC	28480	0160-3402
A22C17	0180-0094	1	CAPACITOR-FXD 100UF+75-10% 25VDC AL	56289	30D1076025D02
A22C18	0180-0197		CAPACITOR-FXD 2,2UF+-10% 20VDC TA	56289	150D225X9020A2
A22C19	0160-2306	1	CAPACITOR-FXD 27PF +-5% 300VDC MICA	28480	0160-2306
A22C20	0160-2201	1	CAPACITOR-FXD 51PF +-5% 300VDC MICA	28480	0160-2201
A22C21	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A22C22	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A22C23			NOT ASSIGNED		
A22C24	0180-1745	1	CAPACITOR-FXD 1,5UF+-10% 20VDC TA	56289	150D155X9020A2
A22C25	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A22C26	0180-0229	1	CAPACITOR-FXD 33UF+-10% 10VDC TA	56289	150D336X9010B2
A22C27	0160-0198	1	CAPACITOR-FXD 200PF +-5% 300VDC MICA	72136	DM15P201J0300MV1CR
A22C28	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A22C29	0160-3448		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3448
A22C30	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A22C31	0160-2204	1	CAPACITOR-FXD 100PF +-5% 300VDC MICA	28480	0160-2204
A22C32	0160-4298	1	CAPACITOR-FXD 4700PF +-20% 250VDC CER	56289	C067F251M472M922-CDH
A22C33	0180-0197		CAPACITOR-FXD 2,2UF+-10% 20VDC TA	56289	150D225X9020A2
A22CR1	1901-0376	1	DIODE-GEN PRP 35V 50MA DO-7	28480	1901-0376
A22CR2	1901-0040	6	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A22CR3	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A22CR4	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A22CR5	1901-0050	1	DIODE-SWITCHING 80V 200MA 2N8 DO-35	28480	1901-0050
A22CR6	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A22CR7	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A22CR8	1901-0040		DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A22D81	1990-0487	3	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A22D82	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A22D83	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A22J1	1200-0508	1	SOCKET-IC 14-CONT DIP-SLDR	28480	1200-0508
A22J1MP1	1251-4459	1	CLIP-CABLE PLUG RETAINING-DUAL INLINE 14	28480	1251-4459
A22J2			NOT USED		
A22J3	1250-0543	2	CONNECTOR-RF 8M-SNP M PC 50-OHM	28480	1250-0543
A22J4	1250-0543		CONNECTOR-RF 8M-SNP M PC 50-OHM	28480	1250-0543
A22L1	08558-80011	3	FILTER, COIL, BLUE	28480	08558-80011
A22L2	08558-80011		FILTER, COIL, BLUE	28480	08558-80011
A22L3	08558-80011		FILTER, COIL, BLUE	28480	08558-80011
A22L4	9100-1651	1	COIL-MLD 750UH 5% Q=60 .19DX,44LG-NOM	28480	9100-1651
A22L5	9100-1648	1	COIL-MLD 560UH 5% Q=65 .19DX,44LG-NOM	28480	9100-1648
A22Q1	1854-0023	3	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A22Q2	1854-0475	1	TRANSISTOR-DUAL NPN PD=750MW	28480	1854-0475
A22Q3	1854-0023		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A22Q4	1854-0039	4	TRANSISTOR NPN 2N30538 8I TO-18 PD=1W	04713	2N3053
A22Q5	1893-0007	2	TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A22Q6	1853-0007		TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A22Q7	1854-0039		TRANSISTOR NPN 2N30538 8I TO-18 PD=1W	04713	2N3053
A22Q8	1854-0023		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0023
A22Q9	1854-0071	9	TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22Q10	1854-0071		TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22Q11	1853-0316	2	TRANSISTOR-DUAL PNP PD=500MW	28480	1853-0316
A22Q12	1854-0071		TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22Q13	1855-0020	1	TRANSISTOR J-FET N-CHAN D-MODE TO-18 8I	28480	1855-0020
A22Q14	1855-0209	1	TRANSISTOR J-FET P-CHAN D-MODE 8I	28480	1855-0209
A22Q15			NOT ASSIGNED		

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A22Q16	1854-0071		TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22Q17	1853-0305	1	TRANSISTOR J-FET 2N4117A N-CHAN D-MODE	17856	2N4117A
A22Q18	1854-0071		TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22Q19	1853-0451	1	TRANSISTOR PNP 2N3799 8I TO-18 PD=360MW	01295	2N3799
A22Q20	1854-0071		TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22Q21	1854-0071		TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22Q22	1854-0039		TRANSISTOR NPN 2N30538 8I TO-39 PD=1W	04713	2N3053
A22Q23	1853-0316		TRANSISTOR-DUAL PNP PD=500MW	28480	1853-0316
A22Q24	1854-0039		TRANSISTOR NPN 2N30538 8I TO-39 PD=1W	04713	2N3053
A22Q25	1853-0001	1	TRANSISTOR PNP 8I TO-39 PD=600MW	28480	1853-0001
A22Q26	1853-0020	1	TRANSISTOR PNP 8I PD=300MW FT=150MHZ	28480	1853-0020
A22Q27	1854-0071		TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22Q28	1854-0071		TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22Q29	1854-0071		TRANSISTOR NPN 8I PD=300MW FT=200MHZ	28480	1854-0071
A22R1			NOT ASSIGNED		
A22R2	0757-0346	2	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A22R3	2100-1755	3	RESISTOR-TRMR 100 5% HW 8IDE-ADJ 1-TRN	28480	2100-1755
A22R4			NOT ASSIGNED		
A22R5	0757-0440	1	RESISTOR 7.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7501-F
A22R6	0757-0416	3	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A22R7	2100-1760	1	RESISTOR-TRMR 5K 5% HW 8IDE-ADJ 1-TRN	28480	2100-1760
A22R8	0757-0288	1	RESISTOR 9.09K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-9091-F
A22R9	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A22R10	0757-0443	1	RESISTOR 11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1102-F
A22R11	0757-0438	5	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A22R12	0757-0394	1	RESISTOR 51.1 1% .125W F TC=0+-100	24546	C4-1/8-T0-51R1-F
A22R13	0757-0280	8	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A22R14	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A22R15	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A22R16	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A22R17	2100-1756	1	RESISTOR-TRMR 200 5% HW 8IDE-ADJ 1-TRN	28480	2100-1756
A22R18	0757-0441	1	RESISTOR 8.25K 1% .125W F TC=0+-100	24546	C4-1/8-T0-8251-F
A22R19	0757-0442	9	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A22R20	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A22R21	0811-3491	1	RESISTOR 24.7K 1% .05W PWH TC=0+-10	28480	0811-3491
A22R22	0811-1185	7	RESISTOR 10K .01% .0125W PWH TC=0+-10	20940	140-1/20-1002-T
A22R23	0811-1185		RESISTOR 10K .01% .0125W PWH TC=0+-10	20940	140-1/20-1002-T
A22R24	0811-1185		RESISTOR 10K .01% .0125W PWH TC=0+-10	20940	140-1/20-1002-T
A22R25	2100-1755		RESISTOR-TRMR 100 5% HW 8IDE-ADJ 1-TRN	28480	2100-1755
A22R26			NOT ASSIGNED		
A22R27	0757-0442	1	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A22R28	0698-5439	1	RESISTOR 1K .25% .125W F TC=0+-50	28480	0698-5439
A22R29	0698-8322	1	RESISTOR 111 .25% .125W F TC=0+-100	19701	MF4C1/8-T0-111R-C
A22R30			NOT ASSIGNED		
A22R31	0811-1185		RESISTOR 10K .01% .0125W PWH TC=0+-10	20940	140-1/20-1002-T
A22R32	0811-1185		RESISTOR 10K .01% .0125W PWH TC=0+-10	20940	140-1/20-1002-T
A22R33	0698-3155	5	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A22R34	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A22R35	2100-3103	2	RESISTOR-TRMR 10K 10% C 8IDE-ADJ 17-TRN	02111	43P103
A22R36	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A22R37	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A22R38	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A22R39	2100-3103		RESISTOR-TRMR 10K 10% C 8IDE-ADJ 17-TRN	02111	43P103
A22R40	0757-0458	1	RESISTOR 51.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5112-F
A22R41	0757-0463		RESISTOR 82.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-8252-F
A22R42	0757-0461	1	RESISTOR 68.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6812-F
A22R43	0757-0401	4	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A22R44	0811-3492	2	RESISTOR 133 1% 12M PW TC=0+-2	28480	0811-3492
A22R45	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A22R46	0757-0417	1	RESISTOR 562 1% .125W F TC=0+-100	24546	C4-1/8-T0-562R-F
A22R47	0698-3439	1	RESISTOR 178 1% .125W F TC=0+-100	24546	C4-1/8-T0-178R-F
A22R48	0698-3154	1	RESISTOR 4.22K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4221-F
A22R49	0757-0274	2	RESISTOR 1.21K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1213-F
A22R50	0757-0279	6	RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A22R51	0811-3492		RESISTOR 133 1% 12M PW TC=0+-2	28480	0811-3492
A22R52	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A22R53	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A22R54	0698-3393	1	RESISTOR 28.7 1% .5W F TC=0+-100	28480	0698-3393
A22R55	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A22R56	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A22R57	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A22R58	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A22R59	0757-0290	2	RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-6191-F
A22R60			NOT ASSIGNED		

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A22R61	0698-3398	2	RESISTOR 46.4 1% .5W F TC=0+-100	28480	0698-3398
A22R62	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A22R63	0698-3398		RESISTOR 46.4 1% .5W F TC=0+-100	28480	0698-3398
A22R64	2100-1755		RESISTOR-TRMR 100 5% W W SIDE=ADJ 1-TRN	28480	2100-1755
A22R65	0757-0795	1	RESISTOR 75 1% .5W F TC=0+-100	19701	MF-1/2-T0-75RU-F
A22R66	2100-2522	1	RESISTOR-TRMR 10K 10% C SIDE=ADJ 1-TRN	30983	ET50X103
A22R67	0757-0447	1	RESISTOR 10.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1622-F
A22R68	0757-0199	1	RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A22R69	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A22R70	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A22R71	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A22R72	0698-3158	6	RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A22R73	0698-3158		RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A22R74	0698-3158		RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A22R75	0698-3158		RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A22R76	0698-3158		RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A22R77	0698-3158		RESISTOR 23.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2372-F
A22R78	0698-7421	2	RESISTOR 40K .25% .125W F TC=0+-100	19701	MF4C1/8-T0-4002-C
A22R79	0698-3454	1	RESISTOR 215K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2153-F
A22R80	0698-3451	1	RESISTOR 133K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1333-F
A22R81	0698-8848	1	RESISTOR 57.2K .25% .125W F TC=0+-100	28480	0698-8848
A22R82	0698-7421		RESISTOR 40K .25% .125W F TC=0+-100	19701	MF4C1/8-T0-4002-C
A22R83	0698-3194	1	RESISTOR 20K .25% .125W F TC=0+-50	03888	PME55-1/8-T2-2002-C
A22R84	0757-0289	1	RESISTOR 13.3K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-1332-F
A22R85	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A22R86	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A22R87	0757-0444	2	RESISTOR 12.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1212-F
A22R88	2100-3109	1	RESISTOR-TRMR 2K 10% C SIDE=ADJ 17-TRN	02111	43P202
A22R89	0698-3457	1	RESISTOR 316K 1% .125W F TC=0+-100	28480	0698-3457
A22R90	0698-3442	1	RESISTOR 237 1% .125W F TC=0+-100	24546	C4-1/8-T0-237R-F
A22R91	2100-3052	1	RESISTOR-TRMR 50 20% C SIDE=ADJ 17-TRN	02111	43P500
A22R92	0698-3446	1	RESISTOR 363 1% .125W F TC=0+-100	24546	C4-1/8-T0-363R-F
A22R93	0698-3450	1	RESISTOR 42.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4222-F
A22R94	2100-3154	1	RESISTOR-TRMR 1K 10% C SIDE=ADJ 17-TRN	02111	43P102
A22R95	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A22R96	0698-3152	1	RESISTOR 3.46K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3461-F
A22R97	0757-0459	1	RESISTOR 56.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5622-F
A22R98	0757-0274		RESISTOR 1.21K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1213-F
A22R99	0683-3355	1	RESISTOR 3.3M 5% .25W FC TC=900/1100	01121	CB3355
A22R100	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A22R101	0698-3157	1	RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A22R102	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A22R103	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A22R104	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A22R105	0698-3160	1	RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A22R106	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A22R107	0698-3444	1	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A22R108	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A22R109	0757-0290		RESISTOR 6.19K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-6191-F
A22R110	0757-0428	2	RESISTOR 1.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1621-F
A22R111	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A22R112	0698-3155		RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A22R113*	0757-0463	2	RESISTOR 82.5K 1% .125W F TC=0+-100(V=6.6-6.73)	24546	C4-1/8-T0-8252-F
A22R113*	0757-0465	4	RESISTOR 100K 1% .125W F TC=0+-100(V=6.74-6.87)	24546	C4-1/8-T0-1003-F
A22R113*	0698-3243	1	RESISTOR 178K 1% .125W F TC=0+-100(V=6.88-7.03)	24546	C4-1/8-T0-1783-F
A22R113*	0698-3460	1	RESISTOR 422K 1% .125W F TC=0+-100(V=7.04-7.19)	28480	0698-3460
A22R113*			OPEN (V>GREATER THAN 7.19)		
A22R114	0757-0465		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A22R115*			NOT ASSIGNED		
A22R119			RESISTOR 38.3K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3832-F
A22R120	0698-3161	3	RESISTOR 38.3K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3832-F
A22R121	0698-3161		RESISTOR 38.3K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3832-F
A22R122	0698-3161		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A22R123	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A22R124	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A22R125			NOT ASSIGNED		
A22R126	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A22R127	0757-0444		RESISTOR 12.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1212-F
A22R128	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A22R129	0757-0428		RESISTOR 1.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1621-F
A22R130	0811-1185		RESISTOR 10K .01% .0125W PWM TC=0+-10	20940	140-1/20-1002-T
A22R131	0811-1185		RESISTOR 10K .01% .0125W PWM TC=0+-10	20940	140-1/20-1002-T
A22R132	0698-6360	3	RESISTOR 10K .1% .125W F TC=0+-25	28480	0698-6360
A22R133	0698-6360		RESISTOR 10K .1% .125W F TC=0+-25	28480	0698-6360
A22R134	0698-6360		RESISTOR 10K .1% .125W F TC=0+-25	28480	0698-6360
A22R135	0698-8949	1	RESISTOR 20.57K .1% .125W F TC=0+-25	28480	0698-8949
A22R136	0698-8948	1	RESISTOR 19.46K .1% .125W F TC=0+-25	28480	0698-8948

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A22TP1- A22TP17	0360-0124	17	CONNECTOR=8GL CONT PIN .04-IN=88C-8Z RND	28480	0360-0124
A22U1	1826-0229	7	IC OP AMP TO-99 05C	06665	OP-05CJ
A22U2	1826-0229		IC OP AMP TO-99 05C	06665	OP-05CJ
A22U3	1826-0229		IC OP AMP TO-99 05C	06665	OP-05CJ
A22U4	1826-0448	4		28480	1826-0448
A22U5	1826-0371	4	IC OP AMP TO-99	27014	LF256H
A22U6	1826-0448			28480	1826-0448
A22U7	1826-0416	2	IC SWITCH 16-DIP-C	27014	LF13331D
A22U8	1826-0229		IC OP AMP TO-99 05C	06665	OP-05CJ
A22U9	1826-0448			28480	1826-0448
A22U10	1826-0229		IC OP AMP TO-99 05C	06665	OP-05CJ
A22U11	1902-0908	1	DIODE=ZNR 6.95V 5% TC=+,0002X	27014	LM399H
A22U12	1826-0229		IC OP AMP TO-99 05C	06665	OP-05CJ
A22U13	1826-0229		IC OP AMP TO-99 05C	06665	OP-05CJ
A22U14	1826-0448			28480	1826-0448
A22U15	1826-0371		IC OP AMP TO-99	27014	LF256H
A22U16	1826-0092	2	IC OP AMP TO-99	28480	1826-0092
A22U17	1826-0092		IC OP AMP TO-99	28480	1826-0092
A22U18	1826-0371		IC OP AMP TO-99	27014	LF256H
A22U19	1826-0371	1	IC OP AMP TO-99	27014	LF256H
A22U20	1826-0417	1	IC SWITCH 16-DIP-C	27014	NF13333D
A22U21	1826-0161	1	IC 324 OP AMP 14-DIP-P	18324	LM324-A
A22U22	1820-1196	12	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U23	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U24	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U25	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U26	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U27	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U28	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U29	1826-0416		IC SWITCH 16-DIP-C	27014	LF13331D
A22U30	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U31	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U32	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U33	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U34	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	01295	SN74LS174N
A22U35	1820-1216	1	IC DCDR TTL L8 3-TO-8-LINE 3-INP	01295	SN74LS138N
A22U36	1820-1197	1	IC GATE TTL L8 NAND QUAD 2-INP	01295	SN74LS00N
A22VR1- A22VR4			NOT ASSIGNED		
A22VR5	1902-0184	1	DIODE=ZNR 16.2V 5% DO-7 PD=.4W TC=+.066X	28480	1902-0184
A22VR6	1902-3059	1	DIODE=ZNR 3.83V 5% DO-7 PD=.4W TC=-.051X	28480	1902-3059
A22VR7	1902-0033	1	DIODE=ZNR 1N623 6.2V 5% DO-7 PD=.4W	24046	1N623
A22VR8	1902-3036	2	DIODE=ZNR 3.16V 5% DO-7 PD=.4W TC=-.064X	28480	1902-3036
A22VR9	1902-3036		DIODE=ZNR 3.16V 5% DO-7 PD=.4W TC=-.064X	28480	1902-3036
			A22 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG BE-CU	28480	1480-0073
	4040-0750	2	EXTRACTOR=PC BOARD RED POLYC	28480	4040-0750

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A23	85680-60054	1	BOARD ASSEMBLY, RF CONVERTER (INCLUDES A23A1 YIG OSC., A23A2 FIRST CONVERTER, A23A3 SECOND CONVERTER, A23A4 FIRST LO DISTRIBUTION, A23A5 PILOT FIRST CONVERTER, A23A6 COMB GENERATOR)	28480	85680-60054
A23AT1	5086-7284	1	LIMITER 0-1.8 GHZ	28480	5086-7284
A23A1	5086-7246	1	YIG OSCILLATOR, 2-4 GHZ	28480	5086-7246
A23A1	5086-7260	1	YIG OSCILLATOR, 2-4 GHZ (ORDER 5086-7246)	28480	5086-7260
A23A1	5086-6246	1	YIG OSCILLATOR, 2-4GHZ, RESTORED 5086-7246	28480	5086-6246
A23A2	85680-60060	1	FIRST CONVERTER	28480	85680-60060
A23A2J1	1250-1020	3	CONNECTOR-RF SMA FEM 8GL-HOLE-RR 50-OHM	28480	1250-1020
A23A2J2	1250-1020		CONNECTOR-RF SMA FEM 8GL-HOLE-RR 50-OHM	28480	1250-1020
A23A2J3	1250-1020		CONNECTOR-RF SMA FEM 8GL-HOLE-RR 50-OHM	28480	1250-1020
A23A2R1	0698-7216	2	RESISTOR 147 1% .05W F TC=0+/-100	24546	C3-1/8-T0-147R-6
A23A2R2	0698-7202	1	RESISTOR 38.3 1% .05W F TC=0+/-100	24546	C3-1/8-T00-38R3-6
A23A2R3	0698-7216	1	RESISTOR 147 1% .05W F TC=0+/-100	24546	C3-1/8-T0-147R-6
A23A2U1	08558-20095	1	DIODE ASSEMBLY	28480	08558-20095
A23A3	85680-60052	1	SECOND CONVERTER ASSEMBLY (INCLUDES A23A3A1 PILOT SECOND LO BUFFER, A23A3A2 SECOND LO, A23A3A3 SECOND LO BUFFER, W16 AND W17)	28480	85680-60052
A23A3C1	0160-2437	4	CAPACITOR-FDTHRU 5000PF +80 -20% 200V	28480	0160-2437
A23A3C2	0160-2437		CAPACITOR-FDTHRU 5000PF +80 -20% 200V	28480	0160-2437
A23A3C3	0160-2437		CAPACITOR-FDTHRU 5000PF +80 -20% 200V	28480	0160-2437
A23A3C4	0160-2437		CAPACITOR-FDTHRU 5000PF +80 -20% 200V	28480	0160-2437
A23A3C5	0160-3036	1	CAPACITOR-FDTHRU 5000PF +80 -20% 200V	28480	0160-3036
A23A3C6	0160-2436	2	CAPACITOR-FDTHRU 10PF 20% 200V CER	28480	0160-2436
A23A3C7	0140-0075	1	CAPACITOR-FDTHRU 22PF 10% 500V MICA	72982	666-053-01A0-220K
A23A3C8	0160-2436		CAPACITOR-FDTHRU 10PF 20% 200V CER	28480	0160-2436
A23A3C9	0160-3875	1	CAPACITOR-FXD 22PF +-5% 200VDC CER 0+/-30	28480	0160-3875
A23A3C10	0160-3873	1	CAPACITOR-FXD 4.7PF +-5% 200VDC CER	28480	0160-3873
A23A3C11	0160-4237	1	CAPACITOR-FDTHRU 6.2PF 10% 250V MICA	72982	2930-000-6.2PF+-10
A23A3CR1	1901-0633	2	DIODE-SCHOTTKY	28480	1901-0633
A23A3CR2	1901-0633		DIODE-SCHOTTKY	28480	1901-0633
A23A3CR3	1901-0639	1	DIODE-PIN 110V	28480	5082-3080
A23A3J1	1250-1157	2	CONNECTOR-RF SMA FEM THD-HOLE 50-OHM	28480	1250-1157
A23A3J2	1250-1157		CONNECTOR-RF SMA FEM THD-HOLE 50-OHM	28480	1250-1157
A23A3J3	1250-0691	2	CONNECTOR-RF SMB M 8GL-HOLE-FR 50-OHM	28480	1250-0691
A23A3J4	1250-0691		CONNECTOR-RF SMB M 8GL-HOLE-FR 50-OHM	28480	1250-0691
A23A3J5	1250-1435	2	CONN:RF: 500 OHM: 8MC	28480	1250-1435
A23A3J6	1250-1435		CONN:RF: 500 OHM: 8MC	28480	1250-1435
A23A3L1	9100-2255	2	COIL-MLD 470NH 10% Q=35 .095DX,25LG-NOM	28480	9100-2255
A23A3L2	85680-80010	1	INDUCTOR, MATCH	28480	85680-80010
A23A3L3	9100-2255		COIL-MLD 470NH 10% Q=35 .095DX,25LG-NOM	28480	9100-2255
A23A3L4	85680-80012	1	INDUCTOR, PILOT	28480	85680-80012
A23A3L5	85680-80011	1	INDUCTOR, LP	28480	85680-80011
A23A3R1	0698-8818	2	RESISTOR 3.16 1% .125W F TC=0+/-100	28480	0698-8818
A23A3R2	0698-8818		RESISTOR 3.16 1% .125W F TC=0+/-100	28480	0698-8818
A23A3A1	85680-60004	1	BOARD ASSEMBLY, PILOT SECOND LO BUFFER	28480	85680-60004
A23A3A1C1	0160-3879	2	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A23A3A1C2	0180-1719	2	CAPACITOR-FXD 22UF +-10% 25VDC TA	28480	0180-1719
A23A3A1C3	0160-0562	2	CAPACITOR-FXD 100PF +-10% 100VDC CER	28480	0160-0562
A23A3A1CR1	1901-0040	2	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A23A3A1Q1	1854-0769	2	TRANSISTOR NPN 8I	28480	35821E
A23A3A1R1	0698-3437	2	RESISTOR 133 1% .125W F TC=0+/-100	24546	C4-1/8-T0-133R-F
A23A3A1R2	0698-7192	2	RESISTOR 14.7 1% .05W F TC=0+/-100	24546	C3-1/8-T00-14R7-6
A23A3A1VR1	1902-3182	2	DIODE-ZNR 12.1V 5% DO-7 PD=.4W TC=+.064% 28480	28480	1902-3182
A23A3A2	85680-60029	1	BOARD ASSEMBLY, SECOND LO	28480	85680-60029
A23A3A2Q1	5086-4218	1	TC21 IN TD-72 PKG	28480	5086-4218
A23A3A2R1	0683-2215	1	RESISTOR 220 5% .25W FC TC=-400/+600	01121	CB2215
A23A3A2R2	0698-3377	1	RESISTOR 47 5% .125W CC TC=-270/+540	01121	BB4705
A23A3A3	85680-60003	1	BOARD ASSEMBLY, SECOND LO BUFFER	28480	85680-60003
A23A3A3C1	0160-3879		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A23A3A3C2	0180-1719		CAPACITOR-FXD 22UF +-10% 25VDC TA	28480	0180-1719
A23A3A3C3	0160-0562		CAPACITOR-FXD 100PF +-10% 100VDC CER	28480	0160-0562

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A23A3A3CR1	1901-0040	1	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A23A3A3R1	1854-0769	0	TRANSISTOR NPN 8I	28480	35821E
A23A3A3R1	0698-3437	2	RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0-133R-F
A23A3A3R2	0698-7192	4	RESISTOR 14.7 1% .05W F TC=0+-100	24546	C3-1/8-T00-14R7-G
A23A3A3VR1	1902-3182	0	DIODE-ZNR 12.1V 5% DO-7 PD=.4W TC=+.064X	28480	1902-3182
A23A4	85680-60057	9	1 BOARD ASSEMBLY, FIRST LO DISTRIBUTION (INCLUDES A23A4A1 COUPLER/SPLITTER, A23A4A2 RF CONVERTER BIAS, AND A23A4A3 AND A23A4A4 LO AMPLIFIERS)	28480	85680-60057
A23A4A1	85680-60055	7	1 COUPLER/SPLITTER	28480	85680-60055
A23A4A1J1	1250-1020	8	CONNECTOR-RF SMA FEM SGL-HOLE-RR 50-OHM	28480	1250-1020
A23A4A1J2	1250-1020	8	CONNECTOR-RF SMA FEM SGL-HOLE-RR 50-OHM	28480	1250-1020
A23A4A1J3	1250-1020	8	CONNECTOR-RF SMA FEM SGL-HOLE-RR 50-OHM	28480	1250-1020
A23A4A1J4	1250-1020	8	CONNECTOR-RF SMA FEM SGL-HOLE-RR 50-OHM	28480	1250-1020
A23A4A1R1	0698-7212	9	RESISTOR 100 1% .05W F TC=0+-100	24546	C3-1/8-T0-100R-G
A23A4A1R2	0698-7212	9	RESISTOR 100 1% .05W F TC=0+-100	24546	C3-1/8-T0-100R-G
A23A4A1R3	0698-7212	9	RESISTOR 100 1% .05W F TC=0+-100	24546	C3-1/8-T0-100R-G
A23A4A1R4	0698-7221	0	RESISTOR 237 1% .05W F TC=0+-100	24546	C3-1/8-T0-237R-G
A23A4A1R5	0698-7216	3	RESISTOR 147 1% .05W F TC=0+-100	24546	C3-1/8-T0-147R-G
A23A4A1R6	0698-7202	7	RESISTOR 38.3 1% .05W F TC=0+-100	24546	C3-1/8-T00-38R3-G
A23A4A1R7	0698-7216	3	RESISTOR 147 1% .05W F TC=0+-100	24546	C3-1/8-T0-147R-G
A23A4A2	85680-60032	0	1 BOARD ASSEMBLY, RF CONVERTER BIAS	28480	85680-60032
A23A4A2C1	0160-3879	7	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A23A4A2C2	0180-0229	7	CAPACITOR-FXD 33UF+-10% 10VDC TA	56289	150D336X901082
A23A4A2C3	0160-3879	7	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A23A4A2C4	0160-3879	7	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A23A4A2C5	0180-0229	7	CAPACITOR-FXD 33UF+-10% 10VDC TA	56289	150D336X901082
A23A4A2C6	0180-1746	5	CAPACITOR-FXD 15UF+-10% 20VDC TA	56289	150D156X902082
A23A4A2C7	0180-0229	7	CAPACITOR-FXD 33UF+-10% 10VDC TA	56289	150D336X901082
A23A4A2C8	0160-3878	6	CAPACITOR-FXD 1000PF +-20% 100VDC CER	28480	0160-3878
A23A4A2CR1	1901-0040	1	DIODE-SWITCHING 30V 50MA 2N8 DO-35	28480	1901-0040
A23A4A2CR2	1901-0734	0	DIODE-PWR RECT 1N5818 30V 1A DO-41	04713	1N5818
A23A4A2D81	1990-0487	7	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A23A4A2E1	9170-0029	3	CORE-SHIELDING BEAD	28480	9170-0029
A23A4A2J1	1200-0508	0	1 SOCKET-IC 14-CONT DIP-SLDR	28480	1200-0508
A23A4A2J2	1251-0600	0	1 CONNECTOR-SGL CONT PIN 1.14-MM-88C-8Z 8Q	28480	1251-0600
A23A4A2L1	9100-1623	8	1 COIL-MLD 27UH 5% Q=60 .15SDX.37SLG-NOM	28480	9100-1623
A23A4A2L2	9100-1788	6	1 CHOKE-WIDE BAND ZMAX=680 OHMS 180 MHZ	02114	VK200 40/48
A23A4A2Q1	1853-0007	7	2 TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A23A4A2Q2	1853-0007	7	2 TRANSISTOR PNP 2N3251 8I TO-18 PD=360MW	04713	2N3251
A23A4A2R1			NOT ASSIGNED		
A23A4A2R2	0757-0405	4	RESISTOR 162 1% .125W F TC=0+-100	24546	C4-1/8-T0-162R-F
A23A4A2R3	0757-0465	6	RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-100K-F
A23A4A2R4	0698-0085	0	RESISTOR 2.61K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2611-F
A23A4A2R5	0698-3154	0	RESISTOR 4.22K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4221-F
A23A4A2R6	2100-1775	4	RESISTOR-TRMR 5K 5% WW TOP-ADJ 1-TRN	28480	2100-1775
A23A4A2R7	0757-0405	4	RESISTOR 162 1% .125W F TC=0+-100	24546	C4-1/8-T0-162R-F
A23A4A2R8	0698-3442	9	RESISTOR 237 1% .125W F TC=0+-100	24546	C4-1/8-T0-237R-F
A23A4A2R9	0698-3442	9	RESISTOR 237 1% .125W F TC=0+-100	24546	C4-1/8-T0-237R-F
A23A4A2VR1	1902-3104	6	DIODE-ZNR 5.62V 5% DO-7 PD=.4W TC=+.016X	28480	1902-3104
A23A4A3	5086-7244	5	2 AMPLIFIER, 2 TO 4 GHZ	28480	5086-7244
A23A4A4	5086-7244	5	2 AMPLIFIER, 2 TO 4 GHZ	28480	5086-7244
A23A5	85680-60061	1	1 PILOT FIRST CONVERTER	28480	85680-60061
A23A5J1	1250-1020	3	CONNECTOR-RF SMA FEM SGL-HOLE-RR 50-OHM	0278H	08M 211
A23A5J2	1250-1020	3	CONNECTOR-RF SMA FEM SGL-HOLE-RR 50-OHM	0278H	08M 211
A23A5J3	1250-1020	3	CONNECTOR-RF SMA FEM SGL-HOLE-RR 50-OHM	0278H	08M 211
A23A5R1	0698-7189	1	RESISTOR 11 1% .05W F TC=0+-100	0329B	C3-1/8-T00-11R0-G
A23A5R2	0698-7228	2	RESISTOR 464 1% .05W F TC=0+-100	0329B	C3-1/8-T0-464R-G
A23A5R3	0698-7228	2	RESISTOR 464 1% .05W F TC=0+-100	0329B	C3-1/8-T0-464R-G
A23A5U1	08558-20095	1	DIODE ASSEMBLY	28480	08558-20095

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A23A6	85680-60006	1	BOARD ASSEMBLY, COMB GENERATOR	28480	85680-60006
A23A6C1	0160-2206	1	CAPACITOR-FXD 160PF +-5% 300VDC MICA	28480	0160-2206
A23A6C2	0160-0945	1	CAPACITOR-FXD 910PF +-5% 100VDC MICA	28480	0160-0945
A23A6C3	0160-0573	1	CAPACITOR-FXD 4700PF +-20% 100VDC CER	28480	0160-0573
A23A6C4	0160-0571	1	CAPACITOR-FXD 470PF +-20% 100VDC CER	28480	0160-0571
A23A6C5	0160-3875	1	CAPACITOR-FXD 22PF +-5% 200VDC CER 0+-30	28480	0160-3875
A23A6C6	0160-3879	1	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A23A6C7	0121-0507	1	CAPACITOR-V TRMR-PSTN .6=1.8PF 750V	28480	0121-0507
A23A6C8	0160-3036	1	CAPACITOR-PDTHRU 5000PF +80 -20% 200V	28480	0160-3036
A23A6CR1	1901-0189	1	DIODE-STEP RCYV 20V 300P8 DO-7	28480	1901-0189
A23A6J1	1250-1220	1	CONNECTOR-RF 3MC M PC 50-OHM	28480	1250-1220
A23A6J2	1250-1020	1	CONNECTOR-RF 3MA FEM 8GL-MOLE-RR 50-OHM	28480	1250-1020
A23A6L1	9100-2258	1	COIL-MLD 1.2UH 10% Q=32 .095DX.25LG-NOM	28480	9100-2258
A23A6L2	85680-80002	1	INDUCTOR, LEVEL ADJUST	28480	85680-80002
A23A6L3	85680-80003	1	INDUCTOR, COMB DRIVE	28480	85680-80003
A23A6L4	9140-0179	1	COIL-MLD 22UH 10% Q=75 .155DX.375LG-NOM	28480	9140-0179
A23A6R1	0698-7196	1	RESISTOR 21.5 1% .05W F TC=0+-100	24546	C3-1/8-T00-21R5-G
A23A6R2	0698-7203	1	RESISTOR 42.2 1% .05W F TC=0+-100	24546	C3-1/8-T00-42R2-G
A23A6R3	0698-7208	1	RESISTOR 68.1 1% .05W F TC=0+-100	24546	C3-1/8-T00-68R1-G
A23A6R4	0698-7212	1	RESISTOR 100 1% .05W F TC=0+-100	24546	C3-1/8-T0-100R-G
A23A6R5	0698-7209	2	RESISTOR 75 1% .05W F TC=0+-100	24546	C3-1/8-T00-75R0-G
A23A6R6	0698-7214	1	RESISTOR 121 1% .05W F TC=0+-100	24546	C3-1/8-T0-121R-G
A23A6R7	0698-7209	1	RESISTOR 75 1% .05W F TC=0+-100	24546	C3-1/8-T00-75R0-G

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A24	85680-60024	1	BOARD ASSEMBLY, VOLTAGE REGULATOR	28480	85680-60024
A24C1	0180-0197	7	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A24C2	0160-0154	1	CAPACITOR-FXD 2200PF +-10% 200VDC POLYE	28480	0160-0154
A24C3	0180-0373	3	CAPACITOR-FXD .68UF+-10% 35VDC TA	56289	150D684X9035A2
A24C4	0180-0116	2	CAPACITOR-FXD 6.8UF+-10% 35VDC TA	56289	150D684X9035B2
A24C5	0180-2214	1	CAPACITOR-FXD 90UF+75-10% 16VDC AL	56289	30D9066016CC2
A24C6	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A24C7	0160-0159	2	CAPACITOR-FXD 6800PF +-10% 200VDC POLYE	28480	0160-0159
A24C8	0180-1846	2	CAPACITOR-FXD 2.2UF+-10% 35VDC TA	56289	150D225X9035B2
A24C9	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A24C10	0160-2055	2	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A24C11	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A24C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A24C13	0180-0116		CAPACITOR-FXD 6.8UF+-10% 35VDC TA	56289	150D684X9035B2
A24C14	0160-0159		CAPACITOR-FXD 6800PF +-10% 200VDC POLYE	28480	0160-0159
A24C15	0180-1846		CAPACITOR-FXD 2.2UF+-10% 35VDC TA	56289	150D225X9035B2
A24C16	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A24C17	0160-0157	2	CAPACITOR-FXD 4700PF +-10% 200VDC POLYE	28480	0160-0157
A24C18	0180-0373		CAPACITOR-FXD .68UF+-10% 35VDC TA	56289	150D684X9035A2
A24C19	0160-0157		CAPACITOR-FXD 4700PF +-10% 200VDC POLYE	28480	0160-0157
A24C20	0180-0373		CAPACITOR-FXD .68UF+-10% 35VDC TA	56289	150D684X9035A2
A24C21	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A24C22	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A24C23	0160-4084	1	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A24CR1	1901-0028	11	DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR2	1901-0040	12	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR3	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR4	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR5	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR6	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR7	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR8	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR9	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR10			NOT ASSIGNED		
A24CR11			NOT ASSIGNED		
A24CR12			NOT ASSIGNED		
A24CR13	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR14	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR15	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR16	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR17	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR18	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR19	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR20	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR21	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR22	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR23			NOT ASSIGNED		
A24CR24	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A24CR25	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR26	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24CR27	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A24D81	1990-0486	1	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A24D82	1990-0487	5	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A24D83	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A24D84	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A24D85	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A24D86	1990-0487		LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4584
A24E1-					
A24E15	4330-0145	15	INSULATOR=BEAD GLASS	28480	4330-0145
A24Q1	1853-0281	7	TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A24Q2	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A24Q3	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A24Q4	1854-0477	10	TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A24Q5	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A24Q6	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A24Q7	1853-0457	1	TRANSISTOR PNP 8I PD=350MW FT=100MHZ	01295	AST5400
A24Q8	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A24Q9	1864-0239	5	THYRISTOR=SCR TO-8 VRRM=200	01928	824008
A24Q10	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A24Q11	1884-0239		THYRISTOR-SCR TO-8 VRRM=200	01928	824008
A24Q12	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A24Q13	1884-0239		THYRISTOR-SCR TO-8 VRRM=200	01928	824008
A24Q14	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A24Q15	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A24Q16	1884-0239		THYRISTOR-SCR TO-8 VRRM=200	01928	824008
A24Q17	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A24Q18	1884-0239		THYRISTOR-SCR TO-8 VRRM=200	01928	824008
A24Q19	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A24Q20	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A24Q21	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A24Q22	1854-0477		TRANSISTOR NPN 2N2222A SI TO-18 PD=500MW	07263	2N2222A
A24Q23	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A24R1	0757-0442	14	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R2	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R3	0698-4405	1	RESISTOR 107 1% .125W F TC=0+-100	24546	C4-1/8-T0-107R-F
A24R4	0757-0438	10	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A24R5	0698-3150	3	RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2371-F
A24R6	0757-0199	4	RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A24R7	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A24R8	0698-6362	6	RESISTOR 1K .1% .125W F TC=0+-25	28480	0698-6362
A24R9	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R10	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A24R11	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R12	0757-0199		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A24R13	0757-0401	2	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A24R14	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R15-			NOT ASSIGNED		
A24R19			NOT ASSIGNED		
A24R20	0698-3440	3	RESISTOR 196 1% .125W F TC=0+-100	24546	C4-1/8-T0-196R-F
A24R21	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R22	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A24R23	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A24R24	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A24R25	0757-0346	6	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A24R26	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A24R27	0698-6362		RESISTOR 1K .1% .125W F TC=0+-25	28480	0698-6362
A24R28	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R29	0757-0199		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A24R30	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R31	0757-0199		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A24R32	0757-0465	1	RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A24R33	0698-3260	1	RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A24R34	0698-3150		RESISTOR 2.37K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2371-F
A24R35	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A24R36-			NOT ASSIGNED		
A24R49			NOT ASSIGNED		
A24R50	0698-6362		RESISTOR 1K .1% .125W F TC=0+-25	28480	0698-6362
A24R51	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R52	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A24R53	0757-0428	2	RESISTOR 1.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1621-F
A24R54	0757-0395	2	RESISTOR 56.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-56R2-F
A24R55	0757-0395		RESISTOR 56.2 1% .125W F TC=0+-100	24546	C4-1/8-T0-56R2-F
A24R56	0757-0280	7	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A24R57	0757-0458	2	RESISTOR 51.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5112-F
A24R58	0757-0458		RESISTOR 51.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5112-F
A24R59	0757-0440	1	RESISTOR 7.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7501-F
A24R60	2100-1973	1	RESISTOR-TRMR 200 10% HW TOP=ADJ 20-TRN	02660	3810P=201
A24R61	0698-5556	1	RESISTOR 3.3K 1% .125W F TC=0+-25	28480	0698-5556
A24R62	0757-0278	2	RESISTOR 1.78K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1781-F
A24R63	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A24R64	0757-0278		RESISTOR 1.78K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1781-F
A24R65	0757-0346		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A24R66	0698-3444	7	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A24R67-			NOT ASSIGNED		
A24R69			NOT ASSIGNED		
A24R70	0698-6362		RESISTOR 1K .1% .125W F TC=0+-25	28480	0698-6362
A24R71	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A24R72	0757-0399	1	RESISTOR 82.5 1% .125W F TC=0+-100	24546	C4-1/8-T0-82R5-F
A24R73	0757-0416	2	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-511R-F
A24R74	0757-0294		RESISTOR 17.8 1% .125W F TC=0+-100	19701	4P4C1/8-T0-17R8-F
A24R75	0757-0398	1	RESISTOR 75 1% .125W F TC=0+-100	24546	C4-1/8-T0-75R0-F
A24R76	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A24R77	0698-6322	1	RESISTOR 4K .1% .125W F TC=0+-25	28480	0698-6322

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A24R78	0698-6348	2	RESISTOR 3K .1X .125W F TC0+25	28480	0698-6348
A24R79	0757-0428	2	RESISTOR 1.02K 1X .125W F TC0+100	24546	C4-1/8-T0-1621-F
A24R80	0757-0346		RESISTOR 10 1X .125W F TC0+100	24546	C4-1/8-T0-10R0-F
A24R81	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A24R82-			NOT ASSIGNED		
A24R89					
A24R90	0757-0400	2	RESISTOR 90.9 1X .125W F TC0+100	24546	C4-1/8-T0-90R9-F
A24R91	0698-3150		RESISTOR 2.37K 1X .125W F TC0+100	24546	C4-1/8-T0-2371-F
A24R92			NOT ASSIGNED		
A24R93	0757-0442		RESISTOR 10K 1X .125W F TC0+100	24546	C4-1/8-T0-1002-F
A24R94	0757-0442		RESISTOR 10K 1X .125W F TC0+100	24546	C4-1/8-T0-1002-F
A24R95			NOT ASSIGNED		
A24R96	0698-8827	1	RESISTOR 1M 1X .125W F TC0+100	28480	0698-8827
A24R97			NOT ASSIGNED		
A24R98	0757-0442		RESISTOR 10K 1X .125W F TC0+100	24546	C4-1/8-T0-1002-F
A24R99	0757-0442		RESISTOR 10K 1X .125W F TC0+100	24546	C4-1/8-T0-1002-F
A24R100	0757-0438		RESISTOR 5.11K 1X .125W F TC0+100	24546	C4-1/8-T0-5111-F
A24R101	0757-0438		RESISTOR 5.11K 1X .125W F TC0+100	24546	C4-1/8-T0-5111-F
A24R102-			NOT ASSIGNED		
A24R109					
A24R110	0698-6362		RESISTOR 1K .1X .125W F TC0+25	28480	0698-6362
A24R111	0698-6348		RESISTOR 3K .1X .125W F TC0+25	28480	0698-6348
A24R112	0757-0280		RESISTOR 1K 1X .125W F TC0+100	24546	C4-1/8-T0-1001-F
A24R113	0757-0416		RESISTOR 511 1X .125W F TC0+100	24546	C4-1/8-T0-511R-F
A24R114	0757-0294		RESISTOR 17.8 1X .125W F TC0+100	19701	MF4C1/8-T0-17R8-F
A24R115	0757-0400		RESISTOR 90.9 1X .125W F TC0+100	24546	C4-1/8-T0-90R9-F
A24R116	0757-0280		RESISTOR 1K 1X .125W F TC0+100	24546	C4-1/8-T0-1001-F
A24R117	0757-0428		RESISTOR 1.02K 1X .125W F TC0+100	24546	C4-1/8-T0-1621-F
A24R118	0757-0346		RESISTOR 10 1X .125W F TC0+100	24546	C4-1/8-T0-10R0-F
A24R119	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A24R120	0698-5361	1	RESISTOR 2.022K .1X .1M F TC0+5	28480	0698-5361
A24R121	0698-6362		RESISTOR 1K .1X .125W F TC0+25	28480	0698-6362
A24R122	0698-3446		RESISTOR 196 1X .125W F TC0+100	24546	C4-1/8-T0-196R-F
A24R123	0698-3429	2	RESISTOR 19.6 1X .125W F TC0+100	03888	PME55-1/8-T0-19R6-F
A24R124	0698-3443	1	RESISTOR 287 1X .125W F TC0+100	24546	C4-1/8-T0-287R-F
A24R125	0757-0280		RESISTOR 1K 1X .125W F TC0+100	24546	C4-1/8-T0-1001-F
A24R126	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A24R127	0757-0346		RESISTOR 10 1X .125W F TC0+100	24546	C4-1/8-T0-10R0-F
A24R128	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A24R129			NOT ASSIGNED		
A24R130	0698-3440		RESISTOR 196 1X .125W F TC0+100	24546	C4-1/8-T0-196R-F
A24R131	0698-3429		RESISTOR 19.6 1X .125W F TC0+100	03888	PME55-1/8-T0-19R6-F
A24R132	0698-3438	1	RESISTOR 147 1X .125W F TC0+100	24546	C4-1/8-T0-147R-F
A24R133	0757-0280		RESISTOR 1K 1X .125W F TC0+100	24546	C4-1/8-T0-1001-F
A24R134	0698-6320	1	RESISTOR 5K .1X .125W F TC0+25	03888	PME55-1/8-T0-5001-B
A24R135	0698-8911	1	RESISTOR 1.3K .1X .125W F TC0+25	28480	0698-8911
A24R136	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A24R137	0757-0346		RESISTOR 10 1X .125W F TC0+100	24546	C4-1/8-T0-10R0-F
A24R138	0698-3444		RESISTOR 316 1X .125W F TC0+100	24546	C4-1/8-T0-316R-F
A24TP1-					
A24TP9	0360-0124	9	CONNECTOR=8GL CONT PIN .04-IN=89C-SZ RND	28480	0360-0124
A24U1	1826-0261	2	IC 741 OP AMP T0-99	28480	1826-0261
A24U2	1826-0371	5	IC OP AMP T0-99	27014	LF256H
A24U3	1826-0371		IC OP AMP T0-99	27014	LF256H
A24U4	1826-0371		IC OP AMP T0-99	27014	LF256H
A24U5	1826-0371		IC OP AMP T0-99	27014	LF256H
A24U6	1826-0371		IC OP AMP T0-99	27014	LF256H
A24U7	1826-0425	1	IC OP AMP T0-99	34371	HA2-2655-5
A24U8	1826-0261		IC 741 OP AMP T0-99	28480	1826-0261
A24VR1	1902-3082	5	DIODE-ZNR 4.64V 5X DO-7 PD=.4W TC=-.023X	28480	1902-3082
A24VR2	1902-0556	2	DIODE-ZNR 20V 5X DO-15 PD=1W TC=+.073X	28480	1902-0556
A24VR3	1902-0041	1	DIODE-ZNR 5.11V 5X DO-7 PD=.4W TC=-.009X	28480	1902-0041
A24VR4	1902-3082		DIODE-ZNR 4.64V 5X DO-7 PD=.4W TC=-.023X	28480	1902-3082
A24VR5	1902-0686	1	DIODE-ZNR 1N825 6.2V 2X DO-7 PD=.4W	04713	1N825
A24VR6	1902-3256	1	DIODE-ZNR 23.7V 5X DO-7 PD=.4W TC=+.076X	28480	1902-3256
A24VR7	1902-0556		DIODE-ZNR 20V 5X DO-15 PD=1W TC=+.073X	28480	1902-0556
A24VR8	1902-0184	3	DIODE-ZNR 16.2V 5X DO-7 PD=.4W TC=+.066X	28480	1902-0184
A24VR9	1902-0184		DIODE-ZNR 16.2V 5X DO-7 PD=.4W TC=+.066X	28480	1902-0184
A24VR10	1902-3104	2	DIODE-ZNR 5.62V 5X DO-7 PD=.4W TC=+.016X	28480	1902-3104
A24VR11	1902-3104		DIODE-ZNR 5.62V 5X DO-7 PD=.4W TC=+.016X	28480	1902-3104
A24VR12	1902-0184		DIODE-ZNR 16.2V 5X DO-7 PD=.4W TC=+.066X	28480	1902-0184
A24VR13	1902-3082		DIODE-ZNR 4.64V 5X DO-7 PD=.4W TC=-.023X	28480	1902-3082
A24VR14	1902-3082		DIODE-ZNR 4.64V 5X DO-7 PD=.4W TC=-.023X	28480	1902-3082
A24VR15	1902-0064	1	DIODE-ZNR 7.5V 5X DO-7 PD=.4W TC=+.05X	28480	1902-0064
A24VR16	1902-3082		DIODE-ZNR 4.64V 5X DO-7 PD=.4W TC=-.023X	28480	1902-3082
			A24 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN=DIA .25-IN=LG BE=CU	28480	1480-0073
	4040-0750	1	EXTRACTOR-PC BOARD RED POLYC	28480	4040-0750
	4040-0752	1	EXTRACTOR-PC BOARD YEL POLYC	28480	4040-0752

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A25	85680-60030	1	BOARD ASSEMBLY, RECTIFIER	28480	85680-60030
A25C1	0160-0970	3	CAPACITOR-FXD .47UF +-10% 80VDC POLYE	28480	0160-0970
A25C2	0160-2055	3	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A25C3	0160-0970		CAPACITOR-FXD .47UF +-10% 80VDC POLYE	28480	0160-0970
A25C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A25C5	0160-0970		CAPACITOR-FXD .47UF +-10% 80VDC POLYE	28480	0160-0970
A25C6	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A25C7	0180-0197	1	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A25CR1	1901-0662	10	DIODE-PWR RECT 100V 6A	04713	MR751
A25CR2	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A25CR3	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A25CR4	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A25CR5	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A25CR6	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A25CR7	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A25CR8	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A25CR9	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A25CR10	1901-0662		DIODE-PWR RECT 100V 6A	04713	MR751
A25D81	1990-0486	1	LED-VISIBLE LUM-INT=1MCD IF=20MA-MAX	28480	5082-4684
A25F1	2110-0003	1	FUSE 3A 250V FAST-BLO 1.25X.25 UL IEC	75915	312003
A25Q1	1884-0239	1	THYRISTOR-SCR TO-8 VRRM=200	01928	S24008
A25R1	0698-0084	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A25R2	0698-3447	1	RESISTOR 422 1% .125W F TC=0+-100	24546	C4-1/8-T0-422R-F
A25VR1	1902-3323	1	DIODE-ZNR 42.2V 5% UO-7 PD=.4W TC=+.08%	28480	1902-3323
			A25 MISCELLANEOUS PARTS		
	4040-0750	1	EXTRACTOR-PC BOARD RED POLYC	28480	4040-0750
	4040-0753	1	EXTRACTOR-PC BOARD GRN POLYC	28480	4040-0753
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG BE=CU	28480	1480-0073

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A26	85680-60027	1	BOARD ASSEMBLY, MOTHER BOARD	28480	85680-60027
A26C1- A26C47	0160-3456	47	CAPACITOR-FXD 1000PF ±10% 1KVDC CER	28480	0160-3456
A26C48	0180-0116	5	CAPACITOR-FXD 6.8UF ±10% 35VDC TA	0420J	150D685X9035B2
A26C49	0180-0116		CAPACITOR-FXD 6.8UF ±10% 35VDC TA	0420J	150D685X9035B2
A26C50	0180-0116		CAPACITOR-FXD 6.8UF ±10% 35VDC TA	0420J	150D685X9035B2
A26C51	0180-0116		CAPACITOR-FXD 6.8UF ±10% 35VDC TA	0420J	150D685X9035B2
A26C52	0180-0116		CAPACITOR-FXD 6.8UF ±10% 35VDC TA	0420J	150D685X9035B2
A26CR1	1901-0028	3	DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A26CR2	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A26CR3	1901-0028		DIODE-PWR RECT 400V 750MA DO-29	28480	1901-0028
A26F1	2110-0043	2	FUSE 1.5A 250V FAST-BLO 1.25X.25 UL IEC	0470C	31201.5
A26F2	2110-0003	2	FUSE 3A 250V FAST-BLO 1.25X.25 UL IEC	0470C	312003.
A26F3	2110-0043		FUSE 1.5A 250V FAST-BLO 1.25X.25 UL IEC	0470C	31201.5
A26F4	2110-0056	1	FUSE 6A 250V FAST-BLO 1.25X.25 UL IEC	0470C	312006.
A26F5	2110-0003		FUSE 3A 250V FAST-BLO 1.25X.25 UL IEC	0470C	312003.
A26L1- A26L28	9100-1788	28	COIL; FXD; NON-MOLDED RF CHOKE; .75UH	05674	VK200-20/48
A26Q1	1853-0351	2	TRANSISTOR PNP 2N6053 SI DARL TO-3	28480	1853-0351
A26Q2	1854-0611	3	TRANSISTOR NPN 2N6055 SI DARL TO-3	02037	2N6055
A26Q3	1853-0351		TRANSISTOR PNP 2N6053 SI DARL TO-3	28480	1853-0351
A26Q4	1854-0611		TRANSISTOR NPN 2N6055 SI DARL TO-3	02037	2N6055
A26Q5	1854-0611		TRANSISTOR NPN 2N6055 SI DARL TO-3	02037	2N6055
A26R1			NOT ASSIGNED		
A26R2			NOT ASSIGNED		
A26R3			NOT ASSIGNED		
A26R4	0811-3493	3	RESISTOR .47 10% 7W PW TC=0±800	28480	0811-3493
A26R5	0811-3493		RESISTOR .47 10% 7W PW TC=0±800	28480	0811-3493
A26R6	0811-3493		RESISTOR .47 10% 7W PW TC=0±800	28480	0811-3493
A26R7	0811-3494	4	RESISTOR 1.27 10% 7W PW TC=0±400	28480	0811-3494
A26R8	0811-3494		RESISTOR 1.27 10% 7W PW TC=0±400	28480	0811-3494
A26R9	0811-3494		RESISTOR 1.27 10% 7W PW TC=0±400	28480	0811-3494
A26R10	0811-3494		RESISTOR 1.27 10% 7W PW TC=0±400	28480	0811-3494
A26R11	0757-0438	5	RESISTOR 5.11K 1% .125W F TC=0±100	0329B	C4-1/8-T0-5111-F
A26R12	0757-0438		RESISTOR 5.11K 1% .125W F TC=0±100	0392B	C4-1/8-T0-5111-F
A26R13	0757-0438		RESISTOR 5.11K 1% .125W F TC=0±100	0329B	C4-1/8-T0-5111-F
A26R14	0757-0438		RESISTOR 5.11K 1% .125W F TC=0±100	0329B	C4-1/8-T0-5111-F
A26R15	0757-0438		RESISTOR 5.11K 1% .125W F TC=0±100	0329B	C4-1/8-T0-5111-F

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A26RT1	0837-0126	1	THERMISTOR DISC 1K-OHM TC=4.4%/C-DEG	28480	0837-0126
A26U1	1826-0117	1	IC VOLTAGE REGULATOR	02237	7812KC
A26XA5P1	85680-60086	1	SOCKET ASSEMBLY: FRONT PANEL, PAIR	28480	85680-60086
A26XA6P1	1251-0472	19	CONNECTOR: PC EDGE 6-CONT/ROW 2-ROWS	0450G	252-06-30-300
A26XA6P2	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2-ROWS	0450G	252-06-30-300
A26XA7P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2-ROWS	0450G	252-06-30-300
A26XA8P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA8P2	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA9P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA10P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA11P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2ROWS	0450G	252-06-30-300
A26XA11P2	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA12P1	1251-4788	2	CONNECTOR: PC EDGE 25-CONT/ROW 2 ROWS	28480	1251-4788
A26XA12P2	1251-2026	4	CONNECTOR PC EDGE 18-CONT/ROW 2 ROWS	0450G	252-18-30-300
A26XA12P3			PART OF W43-NOT SEPARATELY REPLACEABLE		
A26XA13P1	1251-2026		CONNECTOR: PC EDGE 18-CONT/ROW 2 ROWS	0450G	252-18-30-300
A26XA13P2	1251-2035	8	CONNECTOR: PC EDGE 15-CONT/ROW 2 ROWS	0450G	252-15-30-300
A26XA14P1	1251-2026		CONNECTOR: PC EDGE 18-CONT/ROW 2 ROWS	0450G	252-18-30-300
A26XA14P2	1251-2035		CONNECTOR: PC EDGE 15-CONT/ROW 2 ROWS	0450G	252-15-30-300
A26XA15P1	1251-4788		CONNECTOR: PC EDGE 25-CONT/ROW 2 ROWS	28480	1251-4788
A26XA15P2	1251-2026		CONNECTOR:PC EDGE 18-CONT/ROW 2 ROWS	0450G	252-18-30-300
A26XA15P3	1251-2035		CONNECTOR: PC EDGE 15-CONT/ROW 2 ROWS	0450G	252-15-30-300
A26XA16P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA16P2	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA17P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300

Table 6-2. Model 8568A Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A26XA17P2	1251-2035		CONNECTOR: PC EDGE 15-CONT/ROW 2 ROWS	0450G	252-15-30-300
A26XA18P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA19P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA20P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA21P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA21P2	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA22P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA22P2	1251-2035		CONNECTOR: PC EDGE 15-CONT/ROW 2 ROWS	0450G	252-15-30-300
A26XA22P3	1251-2035		CONNECTOR: PC EDGE 15-CONT/ROW 2 ROWS	0450G	252-15-30-300
A26XA23P1	1200-0508	1	SOCKET: IC 14-CONT DIP SLDR	06776	0002812
A26XA24P1	1251-0472		CONNECTOR: PC EDGE 6-CONT/ROW 2 ROWS	0450G	252-06-30-300
A26XA24P2	1251-2035		CONNECTOR: PC EDGE 15-CONT/ROW 2 ROWS	0450G	252-15-30-300
A26XA25P1	1251-2035		CONNECTOR: PC EDGE 15-CONT/ROW 2 ROWS	0450G	252-15-30-300
A26XA27P1 A26XA28P1	86701-60069	1	CONNECTOR ASSEMBLY 5-PIN PART OF A26 MOTHERBOARD	28480	86701-60069

Table 6-3. IF-Display Section Miscellaneous Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
			IF DISPLAY SECTION, MISCELLANEOUS PARTS		
B1	3160-0298		FAN, 60 CFM, 400 Hz (OPTION 400)	28480	3160-0298
B1	3160-0296		FAN, 115V 50-CFM	28480	3160-0296
C1	0160-4065		CAPACITOR-FXD .1UF ±20% 250VDC PAP	28480	0160-4065
C2	0160-2636		CAPACITOR-FXD 470PF ±20% 3K VDC CER	28480	0160-2636
C3	0160-2636		CAPACITOR-FXD 470PF ±20% 3K VDC CER	28480	0160-2636
F1	2110-0007		FUSE 1A 250V SLOW-BLO	0470C	313001
F1	2110-0006		FUSE 2A 250V SLOW-BLO	04480	MDX-2
FL1	0960-0448		LINE MODULE FILTER	28480	0960-0448
FL1TB1			PART OF FL1 AND NOT SEPARATELY REPLACEABLE		
J1	1251-3418	1	CONNECTOR 5-PIN F D SERIES	0450G	DBM-5W58
J2			(SEE A1A9J2)		
J3			PART OF W28		
J4			PART OF W29		
J5			PART OF W27		
J6			PART OF W32		
J7			PART OF W14		
J8			PART OF W13		
J9			PART OF W25		
J10			PART OF W26		
J11			PART OF W15		
K1			SEE A1A9K1		
TB1	85662-60086	1	TERMINAL BOARD, PC 400 Hz CAP (OPTION 400)	28480	85662-60086
TB1C1	0170-0073	1	CAPACITOR-FXD 1UF ±10% 600VDC (OPTION 400)	28480	0170-0073
T1			SEE A1T1		
V1			SEE A1V1		
W1	85662-60068	2	CABLE ASSEMBLY, A1A1 TO A1A10 (RIBBON CABLE, P/O A3 INTERCONNECT)	28480	85662-60068
W2	85662-60068		CABLE ASSEMBLY, A1A10 TO A3A10 (RIBBON CABLE, P/O A3 INTERCONNECT)	28480	85662-60068
W3	85662-60062	1	CABLE ASSEMBLY, A1A10 TO A3A10 (A3 POWER)	28480	85662-60062
W4	85662-60063	1	CABLE ASSEMBLY, A1A10 TO A4A10	28480	85662-60063
W5	85662-60073	1	CABLE ASSEMBLY, A1A10 TO A1A9	28480	85662-60073
W6	85662-60064	2	CABLE ASSEMBLY, A1A4 TO A1V1 (X-DEFL)	28480	85662-60064
W7	85662-60064		CABLE ASSEMBLY, A1A5 TO A1V1 (Y-DEFL)	28480	85662-60064
W8	85662-60028	1	CABLE ASSEMBLY, (INST. BUS)	28480	85662-60028
W9	85662-60066	1	CABLE ASSEMBLY, A1A1 TO A3A10 (RIBBON CABLE)	28480	85662-60066
W10			NOT ASSIGNED		
W11	85662-60043	2	CABLE ASSEMBLY, COAX 9, A3A9 TO A3A2 (VIDEO)	28480	85662-60043
W12	85662-60043		CABLE ASSEMBLY, COAX 9, A4A1 TO A3A9 (VIDEO)	28480	85662-60043
W13	85662-60041	1	CABLE ASSEMBLY, COAX 1, A4A1 TO REAR PANEL J8 (RECORDER VIDEO)	28480	85662-60041
W14	85662-60040	1	CABLE ASSEMBLY, COAX 3, A4A1 TO REAR PANEL J7 (RECORDER SWEEP)	28480	85662-60040
W15	85662-60045	1	CABLE ASSEMBLY, COAX 2, A4A2 TO REAR PANEL J11 (21.4 MHz IF OUTPUT)	28480	85662-40045

Table 6-3. IF-Display Section Miscellaneous Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
W16	85662-60032	1	CABLE ASSEMBLY, COAX 0, REAR	28480	85662-60032
W17	85662-60033	1	CABLE ASSEMBLY, COAX 93, REAR	28480	85662-60033
W18	85662-60031	1	PANEL J1 TO A4A1 (AUX SWEEP INPUT) CABLE ASSEMBLY, COAX 6, A4A2 TO REAR	28480	85662-60031
W19	85662-60030	1	PANEL J1 (COUNTER OUTPUT) CABLE ASSEMBLY, COAX 97, REAR PANEL	28480	85662-60030
W20	85662-60042	1	A1 TO A4A8 (21.4 MHz IF INPUT) CABLE ASSEMBLY, COAX 8, A4A6A2 TO	28480	85662-60042
W21	85662-60070	1	A4A6A1 (3 MHz BYPASS) CABLE ASSEMBLY, A1A3 TO A1V1 (CRT	28480	85662-60070
W22			REAR CONNECTOR)		
W23	85662-60029	1	NOT ASSIGNED CABLE ASSEMBLY, COAX 1, A3A10 TO A1A10	28480	85662-60029
W24	85662-60039	1	(X DEFLECTION) CABLE ASSEMBLY, COAX 1, A3A10 TO A1A10	28480	85662-60039
W25	85662-60037	1	(Y DEFLECTION) CABLE ASSEMBLY, COAX 84, A1A10 TO REAR	28480	85662-60037
W26	85662-60038	1	PANEL J10 (EXTERNAL TRIGGER) CABLE ASSEMBLY, COAX 85, A1A10 TO REAR	28480	85662-60038
W27	85662-60036	1	PANEL J10 (EXTERNAL TRIGGER) CABLE ASSEMBLY, COAX 82, A1A10 TO REAR	28480	85662-60036
W28	85662-60034	1	PANEL J5 (DISPLAY OUTPUT Z) CABLE ASSEMBLY, COAX 83, A1A10 TO REAR	28480	85662-60034
W29	85662-60035	1	PANEL J3 (DISPLAY OUTPUT X) CABLE ASSEMBLY, COAX 81, A1A10 TO REAR	28480	85662-60035
W30	85662-60093	1	PANEL J4 (DISPLAY OUTPUT Y) CABLE ASSEMBLY, IF-DISPLAY SECTION TO RF	28480	85662-60093
W31	85662-60094	1	SECTION (COAX INTERCONNECT) CABLE ASSEMBLY, IF-DISPLAY SECTION TO RF	28480	85662-60094
W32	85662-60044	1	SECTION (INSTRUMENT BUS INTERCONNECT) CABLE ASSEMBLY, COAX 86, A1A10 TO REAR	28480	85662-60044
	5061-0089	1	PANEL J6 (DISPLAY OUTPUT BLANK) FRONT HANDLES-PAIR	28480	5061-0089
	5061-0077	1	RACK MOUNT KIT-PAIR	28480	5061-0077
	5061-0083	1	RACK MOUNT KIT W/FRONT HANDLES-PAIR	28480	5061-0083

Table 6-4. RF Section Miscellaneous Parts

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
			RF SECTION MISCELLANEOUS PARTS		
AT1	11593A	1	50-OHM TERMINATION	28480	11593A
B1	3160-0296	1	FAN 115V 50-CFM	28480	3160-0296
B1	3160-0298	1	FAN 115V 60-CFM, 400 Hz (OPTION 400)	28480	3160-0298
C1	0180-2603	1	CAPACITOR-FXD 7200UF +75 -10% 50VDC AL	28480	0180-2603
C2	0180-0453	3	CAPACITOR-FXD 8700UF +75 -10% 40VDC AL	28480	0180-0453
C3	0180-0453		CAPACITOR-FXD 8700UF +75 -10% 40VDC AL	28480	0180-0453
C4	0180-2782		CAPACITOR-FXD .05F +75 -10% 15VDC AL	28480	0180-2782
C5	0180-0453		CAPACITOR-FXD 8700UF +75 -10% 40VDC AL	28480	0180-0453
C6	0160-4065	1	CAPACITOR-FXD .1UF ±20% 250VDC PAP	28480	0160-4065
C7	0160-2636	2	CAPACITOR-FXD 470PF ±20% 3K VDC CER	28480	0160-2636
C8	0160-2636		CAPACITOR-FXD 470PF ±20% 3K VDC CER	28480	0160-2636
F1	2110-0007	1	FUSE 1A 250V SLOW-BLO 1.25 x .25 UL IEC	0470C	313001
F1	2110-0006	1	FUSE 2A 250V SLOW-BLO 1.25 x .25 UL IEC	04480	MDX-2
FL1	2110-0448		LINE MODULE FILTER	28480	0960-0448
FL1TB1			PART OF FL1 AND NOT SEPARATELY REPLACEABLE		
J1	1251-3418		CONNECTOR 5-PIN F D SERIES	0450G	DBM-5W58
J2			PART OF W12		
J3			PART OF W37		
K1	0490-0618		RELAY 2C 24VDC-COIL 5A 115VAC	28480	0490-0618
S1	3101-0530	1	SWITCH: DPDT (TIME BASE INT/EXT)	05057	11A-1451
TB1	85680-60086	1	TERMINAL BOARD, PC 400 Hz CAP (OPTION 400)	28480	85680-60086
TB1C1	0170-0073	1	CAPACITOR-FXD 1UF ±10% 600VDC (OPTION 400)	28480	0170-0073
TB1MP1	85680-00051	1	BRACKET, TERMINAL BOARD/CAP (OPTION 400)	28480	85680-00051
T1	9100-3946		TRANSFORMER: POWER 110V 60 Hz	28480	9100-3946
W1	85680-20100		CABLE ASSEMBLY, A5K1 TO A5AT1	28480	85680-20100
W2	85680-60088		CABLE ASSEMBLY, (PANEL POWER)	28480	85680-60088
W3	85680-60101		CABLE ASSEMBLY, A5AT1 TO A23AT1	28480	85680-60101
W4	85680-20091		CABLE ASSEMBLY, A23A2 TO A23A3	28480	85680-20091
W5	85680-20096		CABLE ASSEMBLY, A23A1 TO A23A4A1	28480	85680-20096
W6	85680-20097		CABLE ASSEMBLY, A23A4A1 TO A23A4A3	28480	85680-20097
W7	85680-20092		CABLE ASSEMBLY, A23A2 TO A23A4A3	28480	85680-20092
W8	85680-20098		CABLE ASSEMBLY, A23A4A1 TO A23A4A4	28480	85680-20098
W9	85680-20093		CABLE ASSEMBLY, A23A6 TO A23A5	28480	85680-20093
W10	85680-20095		CABLE ASSEMBLY, A23A5 TO A23A4A4	28480	85680-20095
W11	85680-20094		CABLE ASSEMBLY, A23A5 TO A23A3	28480	85680-20094
W12	85680-60097		CABLE ASSEMBLY, COAX90, A23A4A1 TO REAR PANEL J1 (1ST LO OUT)	28480	85680-60097
W13	85680-60090		CABLE ASSEMBLY, RF CONV POWER A23A4A2 TO A26 (RIBBON CABLE)	28480	85680-60090
W14	85680-60087		CABLE ASSEMBLY, YTO DVR, A22 TO A23A1 (RIBBON CABLE)	28480	85680-60087
W15	85680-60071		CABLE ASSEMBLY, COAX 7, A16 TO A23A6	28480	85680-60071
W16	85680-60083		CABLE ASSEMBLY, COAX 92, A23A3 TO A19	28480	85680-60083
W17	85680-60074		CABLE ASSEMBLY, COAX 80, A23A3 TO A9	28480	85680-60074
W18	85680-60072		CABLE ASSEMBLY, COAX 8, A11 TO A17	28480	85680-60072
W19	85680-60079		CABLE ASSEMBLY, COAX 85, A11 TO A21	28480	85680-60079
W20	85680-60075		CABLE ASSEMBLY, COAX 81, A9 TO A10	28480	85680-60075

Table 6-4. RF Section Miscellaneous Parts (Cont'd)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
W21	85680-60082		CABLE ASSEMBLY, COAX 89, A7 TO A10	28480	85680-60082
W22	85680-60076		CABLE ASSEMBLY, COAX 82, A10 TO A6	28480	85680-60076
W23	85680-60068		CABLE ASSEMBLY, COAX 4, A16 TO A8	28480	85680-60068
W24	85680-60080		CABLE ASSEMBLY, COAX 86, A18 TO A8	28480	85680-60080
W25	85680-60081		CABLE ASSEMBLY, COAX 87, A7 TO A18	28480	85680-60081
W26	85680-60067		CABLE ASSEMBLY, COAX 3, A16 TO A6	28480	85680-60067
W27	85680-60073		CABLE ASSEMBLY, COAX 9, A6 TO A17	28480	85680-60073
W28	85680-60077		CABLE ASSEMBLY, COAX 83, A20 TO 21	28480	85680-60077
W29	85680-60078		CABLE ASSEMBLY, COAX 85, A18 TO A21	28480	85680-60078
W30	85680-60084		CABLE ASSEMBLY, COAX 96, A19 TO A20	28480	85680-60084
W31	85680-60065		CABLE ASSEMBLY, COAX 1, A16 TO FRONT PANEL A5J1 (CAL OUTPUT)	28480	85680-60065
W32	85680-60066		CABLE ASSEMBLY, COAX 2, A27 TO A16	28480	85680-60066
W33	85680-60070		CABLE ASSEMBLY, COAX 6	28480	85680-60070
W34	85680-60063		CABLE ASSEMBLY, COAX 0, A22 TO REAR PANEL J1 (COAX INTERCONNECT)	28480	85680-60063
W35	85680-60064		CABLE ASSEMBLY, COAX 93, A22 TO REAR PANEL J1 (COAX INTERCONNECT)	28480	85680-60064
W36	85680-60085		CABLE ASSEMBLY, COAX 97, A20 TO REAR PANEL J1 (COAX INTERCONNECT)	28480	85680-60085
W37	85680-60069		CABLE ASSEMBLY, COAX 5, A16 TO REAR PANEL J3 (TIME BASE IN/OUT)	28480	85680-60069
W38	85680-60032		CABLE ASSEMBLY, BIAS, A23A4A2 TO W41	28480	85680-60032
W39	85680-60091		CABLE ASSEMBLY, SHORT 83, A21 TO A21A1	28480	85680-60091
W40	85680-60092		CABLE ASSEMBLY, SHORT 84, A21 TO A21A1	28480	85680-60092
W41	85680-60052		CABLE ASSEMBLY, BIAS, A23A3 TO W38	28480	85680-60052
W42			PART OF A5AT1 AND NOT SEPARATELY REPLACEABLE		
W43	85680-60056		CABLE ASSEMBLY, A5A1J1 TO A12P3	28480	85680-60056
	5061-0089	1	FRONT HANDLES-PAIR	28480	5061-0089
	5061-0077	1	RACK MOUNT KIT-PAIR	28480	5061-0077
	5061-0083	1	RACK MOUNT KIT W/FRONT HANDLES-PAIR	28480	5061-0083
	7120-6781	1	INFORMATION CARD, ENGLISH	28480	7120-6781
	7120-6782	1	INFORMATION CARD, ENGLISH	28480	7120-6782
	11868-90001	1	INFORMATION CARD, JAPANESE	28480	11868-90001
	11868-90002	1	INFORMATION CARD, JAPANESE	28480	11868-90002
	11868-90003	1	INFORMATION CARD, FRENCH	28480	11868-90003
	11868-90004	1	INFORMATION CARD, FRENCH	28480	11868-90004
	5061-2033	1	TRAY ASSEMBLY-INFORMATION PULL OUT CARDS	28480	5061-2033

Table 6-5. Code List of Manufacturers

MFR. NO.	MANUFACTURER NAME	ADDRESS	ZIP CODE
0013F	NIMET INDUSTRIES INC	SOUTH BEND IN	46621
0025G	INTERNATIONAL POLYETHYLENE CO INC		
0080I	FINE CRAFT METAL SPECIALTIES	LONG ISLAND CIT N	11101
0138J	AMP INC	HARRISBURG PA	
0145B	SANGAMO ELEC CO S CAROLINA DIV	PICKENS SC	
0146H	STETTNER-TRUSH INC	CAZENOVIA NY	
0160G	ALLEN-BRADLEY CO	MILWAUKEE WI	
0169H	TEXAS INSTR INC SEMICOND CMPNT DIV	DALLAS TX	
0185D	RCL ELECTRONICS INC	MANCHESTER NH	
0188E	SPECTROL ELECTRONICS CORP	CITY OF IND CA	
0188G	FERROXCUBE CORP	SAUGERTIES NY	
0192A	RCA CORP SOLID STATE DIV	SOMERVILLE NJ	
0199A	TRANSITRON ELECTRONIC CORP	WAKEFIELD MA	
0388B	KDI PYROFILM CORP	WHIPPANY NJ	07981
28480	HP DIV 04 STANFORD PARK	PALO ALTO CA	
0203G	MOTOROLA SEMICONDUCTOR PRODUCTS	PHOENIX AZ	
28480	HP DIV 05 MICROWAVE SEMICONDUCTOR	PALO ALTO CA	
05674	BARD-PARKER DIV BECTON DICKINSON	DANBURY CT	06810
0217B	AIRCO SPEER FLEK DIV AIR RDCN CO	NOGALES AZ	
0218J	PRECISION MONOLITHICS INC	SANTA CLARA CA	
0677E	ROBINSON NUGENT INC	NEW ALBANY IN	47150
0223G	FAIRCHILD SEMICONDUCTOR DIV	MOUNTAIN VIEW CA	
0679I	THOMPSON BREMER DIV VARE	CHICAGO IL	60622
0248C	CTS OF BERNE INC	BERNE IN	
0256G	OMTRONICS MFG INC	OMAHA NE	
0271C	GENERAL INSTR CORP SEMIDON PROD GP	HICKSVILLE NY	
0278H	OMNI SPECTRA INC	FARMINGTON MI	
0288C	SILICONIX INC	SANTA CLARA CA	
0291J	SIGNETICS CORP	SUNNYVALE CA	
0299E	MEPCO/ELECTRA CORP	MINERAL WELLS TX	
0312C	MICRO-OHM CORP	EL MONTE CA	
2252E	BERG ELECTRONIC INC	CUMBERLAND PA	17070
0327C	GOWANDA ELECTRONICS CORP	GOWANDA NY	
0328E	ANALOG DEVICES INC	NORWOOD MA	
0329B	CORNING GLASS WORKS (BRADFORD)	BRADFORD PA	
0331F	SPECIALTY CONNECTOR CO INC	INDIANAPOLIS IN	
0340F	NATIONAL SEMICONDUCTOR CORP	SANTA CLARA CA	
0341B	CORNING GLASS WORKS (WILMINGTON)	WILMINGTON NC	
27264	MOLEX PRODUCTS CO	DOWNERS GROVE I	60515
28480	HP DIV 00 CORPORATE	PALO ALTO CA	
0365A	MEPCO/ELECTRA CORP	SAN DIEGO CA	
0374D	BOURNS INC TRIMPOT PROD DIV	RIVERSIDE CA	
0379D	ADVANCED MICRO DEVICES INC	SUNNYVALE CA	
0379I	HARRIS SEMICON DIV HARRIS-INTERTYPE	MELBOURNE FL	
0407H	MOSTEK CORP	CARROLLTON TX	
0420J	SPRAGUE ELECTRIC CO	NORTH ADAMS MA	
0450G	TRW ELEK COMPONENTS CINCH DIV	ELK GROVE VLGE IL	
72136	ELECTRO MOTIVE CORP SUB IEC	WILLIMANTIC CT	06226
0456C	ERIE TECHNOLOGICAL PRODUCTS INC	ERIE PA	
73138	BECKMAN INSTRUMENTS INC HELIPOT DIV	FULLERTON CA	92634
73899	J F D ELECTRONICS CORP	BROOKLYN NY	11219
7427E	SIGNALITE DIV GENERAL INST CORP	NEPTUNE NJ	07753
74970	JOHNSON E F CO	WASECA MN	56093
0467B	TRW INC PHILADELPHIA DIV	PHILADELPHIA PA	
0470C	LITTELFUSE INC	DES PLAINES IL	
0552D	DALE ELECTRONICS INC	COLUMBUS NE	
0576I	SEAELECTRO CORP	MAMARONECK NY	
0587I	AMPHENOL SALES DIV OF BUNKER-RAMO	BROADVIEW IL	
00000	ANY SATISFACTORY SUPPLIER		
0046G	NORELCO NORTH AMER PHILIPS LTG CORP	LOS ANGELES CA	90021
00809	CROVEN LTD	ONTARIO CN	
00853	SANGAMO ELEC CO S CAROLINA DIV	PICKENS SC	29671
0112I	ALLEN-BRADLEY CO	MILWAUKEE WI	53204
01295	TEXAS INSTR INC SEMICOND CMPNT DIV	DALLAS TX	75222
0192B	RCA CORP SOLID STATE DIV	SOMERVILLE NJ	08876
0211I	SPECTROL ELECTRONICS CORP	CITY OF IND CA	91745
02114	FERROXCUBE CORP	SAUGERTIES NY	12477
02660	BUNKER RAMO CORP AMPHENOL CONN DIV	BROADVILLE IL	60153
0388B	KDI PYROFILM CORP	WHIPPANY NJ	07981
04713	MOTOROLA SEMICONDUCTOR PRODUCTS	PHOENIX AZ	85062
06665	PRECISION MONOLITHICS INC	SANTA CLARA CA	95050
07263	FAIRCHILD SEMICONDUCTOR DIV	MOUNTAIN VIEW CA	94042
11236	CTS OF BERNE INC	BERNE IN	46711
17856	SILICONIX INC	SANTA CLARA CA	95054
18324	SIGNETICS CORP	SUNNYVALE CA	94086
18736	VOLTRONICS CORP	HANOVER NJ	07936
19701	MEPCO/ELECTRA CORP	MINERAL WELLS TX	76067
20940	MICRO-OHM CORP	EL MONTE CA	91731
24046	TRANSITRON ELECTRONIC CORP	WAKEFIELD MA	01880
24355	ANALOG DEVICES INC	NORWOOD MA	02062
24546	CORNING GLASS WORKS (BRADFORD)	BRADFORD PA	16701
27014	NATIONAL SEMICONDUCTOR CORP	SANTA CLARA CA	95051
27167	CORNING GLASS WORKS (WILMINGTON)	WILMINGTON NC	28401
28480	HEWLETT-PACKARD CO CORPORATE HQ	PALO ALTO CA	94304
29832	TELEDYNE PHILBRICK NEXUS	DEDHAM MA	02026
30983	MEPCO/ELECTRA CORP	SAN DIEGO CA	92121
32293	INTERSIL INC	CUPERTINO CA	95014
32997	BOURNS INC TRIMPOT PROD DIV	RIVERSIDE CA	92507
34335	ADVANCED MICRO DEVICES INC	SUNNYVALE CA	94086
3437I	HARRIS SEMICON DIV HARRIS-INTERTYPE	MELBOURNE FL	32901
50088	MOSTEK CORP	CARROLLTON TX	75006
52763	STETTNER-TRUSH INC	CAZENOVIA NY	13035
56289	SPRAGUE ELECTRIC CO	NORTH ADAMS MA	01247
72136	ELECTRO MOTIVE CORP SUB IEC	WILLIMANTIC CT	06226
72982	ERIE TECHNOLOGICAL PRODUCTS INC	ERIE PA	16512
74970	JOHNSON E F CO	WASECA MN	56093
75042	TRW INC PHILADELPHIA DIV	PHILADELPHIA PA	19108
75915	LITTELFUSE INC	DES PLAINES IL	60016

SECTION VII MANUAL BACKDATING CHANGES

7-1. INTRODUCTION

7-2. This manual has been written for and applies directly to instruments with serial numbers prefixed as indicated on the title page. Earlier versions of the instrument (serial number prefixes lower than the one indicated on the title page) may be slightly different in design or appearance. The purpose of this section of the manual is to document these differences. With the information provided in this section, this manual can be corrected so that it applies to any earlier version or configuration of the instrument. Later versions of the

instrument (serial number prefixes higher than the one indicated on the title page) are documented in a yellow Manual Changes Supplement.

7-3. To adapt this manual to your instrument, refer to Table 7-1 and make all manual changes listed opposite your instrument serial number. There are two columns in Table 7-1. One column is for the RF Section and the other column is for the IF-Display Section. Perform all changes for both sections of your instrument in the sequence indicated.

NOTE

Read the preceding paragraphs thoroughly before performing any of the changes listed below.

Table 7-1. Manual Backdating Changes by Serial Number

RF SECTION		IF-DISPLAY SECTION	
Serial Prefix or Number	Perform Manual Changes	Serial Prefix or Number	Perform Manual Changes
1837A	A	1833A	J-1
1828A	A,A-1	1826A	J-1,K
1824A	A,A-1,B	1823A	J-1,K,L
1818A	A,A-1,B,C	1820A	J-1,K,L,M
1812A	A,A-1,B,C,D	1811A	J-1,K,L,M,N
1806A	A,A-1,B,C,D,E	1805A	J-1,K,L,M,N,O
1803A	A,A-1,B,C,D,E,F	1745A	J-1,K,L,M,N,O,P
1743A00147 thru 1743A Prefix	A,A-1,B,C,D,E,F,G	1721A	J-1,K,L,M,N,O,P,Q
1743A00131 thru 1743A00146	A,A-1,B,C,D,E,F,G,H		
1740A	A,A-1,B,C,D,E,F,G,H,I		
1721A	A,A-1,B,C,D,E,F,G,H,I,J		

7-4. MANUAL BACKDATING CHANGES

7-5. Change A (RF Sections prefixed 1837A and below)

Memory Modification

Volume 2

Page 6-108 and 6-109, Table 6-2:

Replace pages 6-108 and 6-109 with Table 7-2.

Volume 4

A14 Memory

Page 9-157 through 9-168:

Replace pages 9-157 through 9-168 with pages 7-21 through 7-30, except page 9-163, A14 Memory, Block Diagram, which remains.

RF Converter Modification

NOTE

The following change information refers to deleting a low-pass filter between the first and second converters. This filter (A23FL1) was added to improve instrument performance and it is recommended that it be added to your instrument. The filter may be added by ordering the HP Part Number for A23FL1 listed under ERRATA in the Manual Changes supplement.

Volume 2

Page 6-128, Table 6-2:

Delete A23FL1 entry.

Page 6-140, Table 6-4:

Change W4 entry to read as follows:

W4, 85680-20091, CABLE ASSEMBLY, A23A2 TO A23A3, 28480, 85680-20091.

Volume 4

Spectrum Analyzer Overall Block Diagram

Page 9-43/9-44, Figure 9-13.

Delete A23FL1 and show coaxial cable W4 connected from A23A2J2 to A23A3J1.

RF Analog Troubleshooting Block Diagram

Page 9-55/9-56, Figure 9-15:

Delete A23FL1 and show coaxial cable W4 connected from A23A2J2 to A23A3J1.

A23 RF Converter

Page 9-264, Table 9-37:

Delete A23FL1 entry.

Page 9-273/9-274, Figure 9-96:

Delete A23FL1 and show coaxial cable W4 connected from A23A2J2 to A23A3J1.

Page 9-274/9-276, Figure 9-97:

Delete A23FL1 and show coaxial cable W4 connected from A23A2J2 to A23A3J1.

7-5A. Change A-1 (RF Sections prefixed 1828A and below)

Third Converter Modification

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use those components currently listed (corrected by Manual Changes Supplement) in the replaceable parts list. The components are directly interchangeable.

Volume 2

Page 6-120, Table 6-2:

Change A20C14 entry as follows:

A20C14, 0160-3874, 1, CAPACITOR-FXD 10PF \pm .5PF 200VDC CER, 28480, 0160-3874.

It is recommended the previous component be deleted.

Change A20Q1 entry as follows:

A20Q1, 1854-0686, 1, TRANSISTOR NPN SI TO-72 PD=200 MW, 28480, 1854-0686

It is recommended the previous component be replaced with higher power 2N5109, HP Part Number 1854-0378.

Change A20R14 entry as follows:

A20R14, 0757-0346, 1, RESISTOR 10 1% .125W F TC=0 \pm 100, 24546, C4-1/8-TO-10R0-F

It is recommended the previous component value be changed to 1 ohm, HP Part Number 0698-8812.

Change A20R15 entry as follows:

A20R15, 0698-3444, 3, RESISTOR 316 1% .125W F TC=0 \pm 100, 24546, C4-1/8-TO-316R-F

It is recommended the previous component value be changed to 215 ohms, HP Part Number 0698-3441.

Page 6-121, Table 6-2:

Change A20U1 entry as follows:

A20U1, 0955-0063, 1, MIXER, DOUBLE-BALANCED 200MW, 28480, 0955-0063.

It is recommended the previous component be replaced with HP Part Number 0955-0084.

Volume 4

A20 Third Converter

Page 9-227, Table 9-31:

Change A20C14 entry as follows:

A20C14, 0160-3874, 1, CAPACITOR-FXD 10PF \pm .5PF 200VDC CER, 28480, 0160-3874

It is recommended the previous component be deleted.

Change A20Q1 entry as follows:

A20Q1, 1854-0686, 1, TRANSISTOR NPN SI TO-72 PD=200MW, 28480, 1854-0686

It is recommended the previous component be replaced with higher power 2N5109, HP Part Number 1854-0378.

Change A20R14 entry as follows:

A20R14, 0757-0346, 1, RESISTOR 10 1% .125W F TC=0 \pm 100, 24546, C4-1/8-TO-10R0-F

It is recommended the previous component value be changed to 1 ohm, HP Part Number 0698-8812.

Change A20R15 entry as follows:

A20R15, 0698-3444, 3, RESISTOR 316 1% .125W F TC=0 \pm 100, 24546, C4-1/8-TO-316R-F

It is recommended the previous component value be changed to 215 ohms, HP Part Number 0698-3441.

Page 9-228, Table 9-31:

Change A20U1 entry as follows:

A20U1, 0955-0063, 1, MIXER, DOUBLE-BALANCED 200MW, 28480, 0955-0063

It is recommended the previous component be replaced with HP Part Number 0955-0084.

Page 9-229/9-230, Figure 9-77:

Add capacitor C14 between lower right corner of U1 and left side of Q1.

Page 9-231/9-232, Figure 9-79, A20 Schematic:

In block **C**, add capacitor C14 (10PF) between U1 pin 5 and ground.

In block **B**, change value of R14 to 10 and value of R15 to 316.

7-6. Change B (RF Sections prefixed 1824A and below)

Volume 2

Page 6-106 and 6-107, Table 6-2:

Replace pages 6-106 and 6-107 with Table 7-4.

Page 6-110 and 6-111, Table 6-2:

Replace pages 6-110 and 6-111 with Table 7-6.

Volume 4

A13 HP-IB Interface

Page 9-133 through 9-156:

Replace pages 9-133 through 9-156 with pages 7-33 through 7-50 except page 9-151, A13 HP-IB Interface, Block Diagram, which remains.

A15 Processor

Page 9-169 through 9-192:

Replace pages 9-169 through 9-192 with pages 7-53 through 7-76 except page 9-187, A15 Processor, Signature Analysis Troubleshooting Diagram, which remains.

7-7. Change C (RF Sections prefixed 1818A and below)

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

Volume 2

Page 6-127, Table 6-2:

Change A22U1, A22U2, A22U3, A22U12, and A22U15 entries as follows:

A22U1, 1826-0371, 8, IC OP AMP LF256, 034OF, LF-256H

A22U2, 1826-0371, IC OP AMP LF256, 034OF, LF-256H

A22U3, 1826-0371, IC OP AMP LF256, 034OF, LF-256H

A22U12, 1826-0371, IC OP AMP LF256, 034OF, LF-256H

A22U15, 1826-0371, IC OP AMP LF256, 034OF, LF-256H

Volume 4

A22 Frequency Control

Page 9-252, Table 9-35:

Change A22U1, A22U2, A22U3, A22U12, and A22U15 entries as follows:

A22U1, 1826-0371, 8, IC OP AMP LF256, 034OF, LF-256H

A22U2, 1826-0371, IC OP AMP LF256, 034OF, LF-256H

A22U3, 1826-0371, IC OP AMP LF256, 034OF, LF-256H

A22U12, 1826-0371, IC OP AMP LF256, 034OF, LF-256H

A22U15, 1826-0371, IC OP AMP LF256, 034OF, LF-256H

7-8. Change D(RF Sections prefixed 1812A and below)

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

Volume 2

Page 6-102, Table 6-2:

Change A11R54 entry as follows:

A11R54, 6098-7205, RESISTOR 51.1 1% .05W F TC=0±100, 0329B, C3-1/8-TOO-51R1-G

7-8. Change D (RF Sections prefixed 1812A and below) (Cont'd)

Page 6-128, Table 6-2:

Change A23A3R1 and A23A3R2 entries as follows:

A23A3R1/A23A3R2, 0757-0346, 2, RESISTOR 10 1% .125W F TC=0±100, 0329B, C4-1/8-TO-10R0-F.

Page 6-129, Table 6-2:

Delete A23A4A2L2 entry.

Volume 4

A11 50 MHz Voltage-Tuned Oscillator

Page 9-112, Table 9-15:

Change A11R54 entry as follows:

A11R54, 0698-7205, RESISTOR 51.1 1% .05W F TC=0±100, 0329B, C3-1/8-T00-51R1-G.

Page 9-117, Figure 9-38:

In Block **C**, change value of R54 to 51.1.

A23 RF Converter

Page 9-264, Table 9-37:

Change A23A3R1 and A23A3R2 entries as follows:

A23A3R1/A23A3R2, 0157-0346, 2, RESISTOR 10 1% .125W F TC=0±100, U329B, C4-1/8-TO-10R0-F.

Page 9-265, Table 9-37:

Delete A23A4A2L2 entry.

Page 9-275, Figure 9-97:

In A23A4A2 schematic, delete choke L2.

In A23A3 circuit, change values of A23A3R1 and A23A3R2 to 10.

7-9. Change E (RF Sections prefixed 1806A and below)

NOTE

The following change reflects a change in color only. Part numbers, currently listed in replaceable parts list for new colors may be ordered if desired. Old and new parts are directly interchangeable.

Volume 2

Page 6-4, Figure 6-1:

Change Item **5** HP Part No. to 85680-40001.

Change Item **6** HP Part No. to 85680-00010.

Change Item **7** HP Part No. to 85680-00008.

7-9. Change E (RF Sections prefixed 1806A and below) (Cont'd)

Page 6-9, Figure 6-5:

Change Item 17 HP Part No. to 85680-40001.

Page 6-13, Figure 6-7:

Change Item 33 HP Part No. to 85680-00008.

7-10. Change F (RF Sections prefixed 1803A and below)

Volume 2

NOTE

Use of the following listed socket has been discontinued in later instruments. Removal of this socket is a factory recommended modification.

Page 6-105, Table 6-2:

Add the following entry:

A12XU2, 1200-0507, 1, SOCKET-IC 16-CONT DIP SLDR, 06776, 0002811

NOTE

The following change is made to a page which was previously replaced in CHANGE B. Therefore, the change is made in Section VII rather than Section IX.

Page 7-52, Table 7-6:

Change A15VR1 entry as follows:

A15VR1, 1902-0064, 1, DIODE-ZNR 7.5V 5% DO-7 PD=.4W TC=+.05%, 0223G, FZ7248

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

Page 6-130, Table 6-2:

Change A23A6C7 entry as follows:

A23A6C7, 0121-0490; CAPACITOR-V TRMR-PSTN .8 -5.5PF 750V, 0456C, 521-000

Volume 4

A12 RF Section Interface

Page 9-124, Table 9-17:

Add A12XU2 entry as follows:

A12XU2, 1200-0507, 1, SOCKET-IC 16-CONT DIP SLDR, 06776, 0002811

7-10. Change F (RF Sections prefixed 1803A and below) (Cont'd)

A15 Processor

NOTE

The following changes are made to pages which were previously replaced in CHANGE B. Therefore, the changes are made in Section VII rather than Section IX.

Page 7-70, Table 7-11:

Change A15VR1 entry as follows:

A15VR1, 1902-0064, 1, DIODE-ZNR 7.5V 5% DO-7 PD=.4W TC=+.05%, 0223G, FZ7248

Page 7-75, Figure 7-12:

In Block **M**, change VR1 voltage to 7.5V.

A23 RF Converter

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

Page 9-266, Table 9-37:

Change A23A6C7 entry as follows:

A23A6C7, 0120-0490, CAPACITOR-V TRMR-PSTN .8–5.5PF 750V, 0456C, 521-000

Page 9-275, Figure 9-97:

In A23A6 circuit, change C7 value to .8–5.5PF.

7-11. Change G (RF Sections prefixed 1743A and below)

NOTE

The following change reflects only the manner in which the front dress panel is attached to the front panel assembly. There is no electrical change.

Volume 2

Page 6-12 through 6-15:

Replace pages 6-12 through 6-15 with pages 7-77 through 7-80.

7-12. Change H (RF Sections prefixed 1743A, with serial numbers 00146 or lower, and below)

Volume 2

Page 6-131, Table 6-2:

Delete A24C23 entry.

Page 6-133, Table 6-2:

Change A24VR12 entry as follows:

A24VR12, 1902-3149, 1, DIODE-ZNR 9.09V 5% DO-7 PD=.4W TC=+.05%, 0223G, FZ7256

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7-12. Change H (RF Sections prefixed 1743A, with serial numbers 00146 or lower, and below) (Cont'd)

Volume 4

A24 Voltage Regulator

Page 9-279, Table 9-38:
Delete A24C23 entry.

Page 9-281, Table 9-38:

Change A24VR12 entry as follows:

A24VR12, 1902-3149, 1, DIODE-ZNR 9.09V 5% DO-7 PF=.4W TC=+0.5%, 0223G, FZ7256

Page 9-285, Figure 9-99:

In Block **E**, delete C23 (.1UF) between U7A pins 1 and 8 and change VR12 voltage to 9.09V.

7-13. Change I (RF Sections prefixed 1740A and below)

Volume 2

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

Page 6-128, Table 6-2:

Change A23A3A1C2 entry as follows:

A23A3A1C2, 0180-0197, 2, CAPACITOR-FXD 2.2UF ±10% 20VDC TA, 0420J, 150D225X9020A2

Change A23A3A3C2 entry as follows:

A23A3A3C2, 0180-0197, CAPACITOR-FXD 2.2UF ±10% 20VDC TA, 0420J, 150D225X9020A2

Volume 4

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

7-13. Change I (RF Sections prefixed 1740A and below) (Cont'd)

A23 RF Converter

Page 9-264, Table 9-37:

Change A23A3A1C2 entry as follows:

A23A3A1C2, 0180-0197, 2, CAPACITOR-FXD 2.2UF $\pm 10\%$ 20VDC TA, 0420J, 150D225X9020A2

Change A23A3A3C2 entry as follows:

A23A3A3C2, 0180-0197, CAPACITOR-FXD 2.2UF $\pm 10\%$ 20VDC TA, 0420J, 150D225X9020A2

Page 9-275, Figure 9-97:

Change values of A23A3A1C2 and A23A3A3C2 to 2.2UF.

7-14. Change J (RF Sections prefixed 1721A)

Volume 2

Page 5-23, Paragraph 5-15:

Change DVM indication in Step 16 to +5.000 Vdc ± 0.050 Vdc.

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

Page 6-104, Table 6-2:

Change A12C1 entry as follows:

A12C1, 0180-0291, 1, CAPACITOR-FXD 1UF $\pm 10\%$ 35VDC TA, 0420J, 150D105X9035A2

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

Page 6-117, Table 6-2:

Change A18C7 entry as follows:

A18C7, 0160-2246, 1, CAPACITOR-FXD 3.6PF $\pm .25$ PF 500VDC, 28480, 0160-2246

7-14. Change J (RF Sections prefixed 1721A) (Cont'd)

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

Page 6-118, Table 6-2:

Change A18R37 entry as follows:

A18R37, 0757-0346, RESISTOR 10 1% .125W F TC=0±100, 0329B, C4-1/8-TO-10R0-F

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

Page 6-123, Table 6-2:

Change A21A1L6 entry as follows:

A21A1L6, NOT ASSIGNED

Change A21A1R30 entry as follows:

A21A1R30, 0698-7222, 1, RESISTOR 261 1% .05W F TC=0±100, 0329B, C3-1/8-TO-261R-G

Page 6-129, Table 6-2:

Delete A23A4A2C8 and A23A4A2CR2 entries.

Page 6-132, Table 6-2:

Delete A24R13 and A24R14 entries.

Page 6-133, Table 6-2:

Change A24R120 entry as follows:

A24R120, 0698-6348, RESISTOR 3K 1% .125W F TC=0±25, 28480, 0698-6348.

Change A24U7 entry as follows:

A24U7, 1826-0092, 1, IC OP AMP, 28480, 1826-0092

Change A24VR10 entry as follows:

A24VR10, 1902-0041, DIODE-ZNR 5.11V 5% DO-7 PD=.4W TC=.009%, 0203G, SZ 10939-98

7-14. Change J (RF Sections prefixed 1721A) (Cont'd)

Volume 4

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

A12 RF Section Interface

Page 9-124, Table 9-17:

Change A12C1 entry as follows:

A12C1, 0180-0291, 1, CAPACITOR-FXD 1UF $\pm 10\%$ 35VDC TA, 0420J, 150D105X9035A2

Page 9-129, Figure 9-44:

In Block **A**, change value of C1 to 1UF.

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

A18 275 MHz Phase Lock Oscillator

Page 9-217, Table 9-29:

Change A18C7 entry as follows:

A18C7, 0160-2246, 1, CAPACITOR-FXD 3.6PF $\pm .25$ PF 500VDC, 28480, 0160-2246

Page 9-218, Table 9-29:

Change A18R37 entry as follows:

A18R37, 0757-0346, RESISTOR 10 1% .125W F TC=0 \pm 100, 0329B, C4-1/8-TO-10R0-F

Page 9-221, Figure 9-75:

In Block **C**, change A18R37 value to 10.

In Block **D**, change A18C7 value to 3.6PF.

7-14. Change J (RF Sections prefixed 1721A) (Cont'd)

NOTE

The following change reflects a factory modification done to improve instrument performance. Although your instrument was manufactured using the components indicated in the following change, it is recommended you use the components currently listed in the replaceable parts list. These components are directly interchangeable.

A21 275 MHz Phase Lock

Page 9-236, Table 9-32:

Change A21A1L6 entry as follows:

A21A1L6, NOT ASSIGNED

Change A21A1R30 entry as follows:

A21A1R30, 0698-7222, 1, RESISTOR 261 1% .05W F TC=0±100, 0329B, C4-1/8-TO-261R-G

Page 9-238, Figure 9-81:

In A21A1 Component Side diagram, change L6 to R30.

Page 9-239, Figure 9-83:

In Block **E**, change L6 to R30, 261 ohms.

A23 RF Converter

Page 9-265, Table 9-37:

Delete A23A4A2C8 and A23A4A2CR2 entries.

Page 9-275, Figure 9-97:

In A23A4A2 schematic, delete C8 (1000PF) and CR2 (Schottky diode).

A24 Voltage Regulator

Page 9-280, Table 9-38:

Delete A24R13 and A24R14 entries.

Page 9-281, Table 9-38:

Change A24R120 entry as follows:

A24R120, 0698-6348, RESISTOR 3K .1% .125W F TC=0±25, 28480, 0698-6348

Change A24U7 entry as follows:

A24U7, 1826-0092, 1, IC OP AMP, 28480, 1826-0092

Change A24VR10 entry as follows:

A24VR10, 1902-0041, DIODE-ZNR, 5.11V 5% DO-7 PD=.4W TC=.009%, 0203G, SZ 10939-98

Page 9-284, Figure 9-98:

Replace Figure 9-98 with Figure 7-14.

7-14. Change J (RF Sections prefixed 1721A) (Cont'd)

Page 9-285, Figure 9-99:

Change title of Block **G** to +5.0V REG.

Change value of R120 to 3K.

Change voltage of VR10 to 5.11V.

Replace applicable portion of Block **E** with Figure 7-15, showing the deletion of R13 and R14.

7-14A. Change J-1 (IF-Display Sections prefixed 1833A and below)

NOTE

The following change refers to deleting a component which is currently being used in production of the instrument. This component was added as a safety measure to provide a discharge path for the +100 Vdc filter capacitor in the event the A1A8 Rectifier has been removed from the instrument. It is recommended that this bleeder resistor be added to your instrument as indicated on the schematic diagram and replaceable parts list for the A1A10 Display Motherboard.

Volume 2

Page 6-37, Table 6-2:

Delete A1A10R1 entry.

Volume 3

A1A10 Display Motherboard

Page 8-98, Table 8-14:

Delete A1A10R1 entry.

Page 8-99, Figure 8-36:

Delete A1A10R1.

7-15. Change K (IF-Display Sections prefixed 1826A and below)

Volume 2

Page 6-58, Table 6-2:

Change A4A1R58 entry as follows.

A4A1R58, 0757-0394, RESISTOR 51.1 1% .125W F TC=0±100, 0329B, C4-1/8-TO-51R1-F.

Page 6-88, Table 6-2:

Change A4A9R53 entry as follows:

A4A9R53, 0698-3162, RESISTOR 46.4K 1% .125W F TC=0±100, 0329B, C4-1/8-TO-4642-F.

Volume 3

A4A1 Video Processor

Page 8-248, Table 8-33:

Change A4A1R58 entry as follows:

A4A1R58, 0757-0394, RESISTOR 51.1 1% .125W F TC=0±100, 0329B, C4-1/8-TO-51R1-F.

7-15. Change K (IF-Display Sections prefixed 1826A and below) (Cont'd)

Page 8-251, Figure 8-110:

In Block **D** , change value of R58 to 51.1ohms.

A4A9 IF Control

Page 8-355, Table 8-49:

Change A4A9R53 entry as follows:

A4A9R53, 6098-3162, RESISTOR 46.4K 1% .125W F TC=0±100, 0329B, C4-1/8-TO-4642-F.

Page 8-359, Figure 8-162:

In Block **E** , change value of R53 to 46.4K.

7-16. Change L (IF-Display Sections prefixed 1823A and below)

Volume 2

Page 6-17, Figure 6-8:

Change HP and Mfr Part Numbers of Item **33** to 85662-60092.

Page 6-76, Table 6-2:

Change A4A6A2C14 entry as follows:

A4A6A2C14, 0160-2055, CAPACITOR-FXD .01UF +80-20% 100 VDC CER, 28480, 0160-2055.

Delete A4A6A2L12 entry.

Add A4A6A2R21 entry as follows:

A4A6A2R21, 0757-0394, RESISTOR 51.1 1% .125W TC=0±100, 0329B, C4-1/8-TO-51R1-F.

Volume 3

A4A6 Down/Up Converter

Page 8-311, Table 8-44:

Change A4A6A2C14 entry as follows:

A4A6A2C14, 0160-2055, CAPACITOR-FXD .01UF +80-20% 100VDC CER, 28480, 0160-2055.

Delete A4A6A2L12 entry.

Add A4A6A2R21 entry as follows:

A4A6A2R21, 0757-0394, RESISTOR 51.1 1% .125W F TC=0±100, 0329B, C4-1/8-TO-51R1-F.

Page 8-314, Figure 8-137:

Change reference designator of L12 to R21.

Page 8-315, Figure 8-139:

In Block **B** of A4A6A2 schematic, change value of C14 to .01UF and change L12 to R21, 51.1 ohms.

7-17. Change M (IF-Display Sections prefixed 1820A and below)

NOTE

The following change refers to changing the value of a component. The value of this component was changed to improve instrument performance. It is recommended you use the component currently listed in the replaceable parts table and the schematic.

Volume 2

Page 6-24, Table 6-2:

Change A1A1R4 entry as follows:

A1A1R4, 0757-0458, 1, RESISTOR 51.1K 1% .125W F TC=0±100, C4-1/8-TO-5112-F.

Volume 3

A1A1 Keyboard/A1A2 Z Axis Amplifier

Page 8-57, Table 8-5:

Change A1A1R4 entry as follows:

A1A1R4, 0757-0458, 1, RESISTOR 51.1K 1% .125W F TC=0±100, 0329B, C4-1/8-TO-5112-F.

Page 8-63, Figure 8-19:

Change value of A1A1R4 to 51.1K.

7-18. Change N (IF-Display Sections prefixed 1811A and below)

NOTE

The following change refers to changing the part number of the CRT and the Z Axis Amplifier. These two parts were changed to improve instrument performance and the old parts are no longer available for replacement. It is necessary therefore, to order the new parts. Refer to Figure 7-17 for description of modifications necessary for compatibility between old and new parts.

Volume 2

Page 6-24, Table 6-2:

Change A1V1 HP and Mfr Part Numbers to 5083-4191.

Page 6-25, Table 6-2:

Change A1A2 HP and Mfr Part Numbers to 85662-60054.

Page 6-26, Table 6-2:

Delete A1A2TP3 entry.

7-18. Change N (IF-Display Sections prefixed 1811A and below) (Cont'd)

Volume 3

A1A1 Keyboard/A1A2 Z Axis Amplifier

Page 8-57, Table 8-5:

Change A1V1 HP and Mfr Part Numbers to 5083-4191.

Page 8-58, Table 8-6:

Change A1A2 HP and Mfr Part Numbers to 85662-60054.

Page 8-59, Table 8-6:

Delete A1A2TP3 entry.

Page 8-62, Figure 8-18:

Replace Figure 8-18 with Figure 7-18.

Page 8-63, Figure 8-19:

In Block **D**, delete TP3.

In Block **E**, change connection of bottom side of R37 from ground to ACC line (top side of VR1).

7-19. Change O (IF-Display Sections prefixed 1805A and below)

NOTE

The following change reflects a change in color only. Part numbers currently listed in replaceable parts list for new colors may be ordered if desired. Old and new parts are directly interchangeable.

Volume 2

Page 6-4, Figure 6-1:

Change Item **1** HP Part Number to 85662-00047.

Change Item **4** HP Part Number to 85662-20027.

Page 6-17, Figure 6-8:

Change Item **2** HP Part Number to 85662-20027.

Page 6-19, Figure 6-9:

Change Item **15** HP Part Number to 85662-20027.

Page 6-22, Figure 6-10:

Change Item **1** HP Part Number to 85662-20027.

7-19. Change O (IF-Display Sections prefixed 1805A and below) (Cont'd)

NOTE

The following change was done to improve instrument performance. Although your instrument was not manufactured with the indicated component listed, it is recommended that you install this component as shown and ignore the following change information.

Page 6-90, Table 6-2:

Delete A4A10C23 entry.

Volume 3

A4A10 IF-Video Motherboard

Page 8-361, Table 8-50:

Delete A4A10C23 entry.

Page 8-362, Figure 8-163:

Delete reference to C23 at A4XA6A2P1.

Page 8-363, Figure 8-164:

Delete C23 from between A4XA6A2P1 pins 7 and 8.

7-20. Change P (IF-Display Sections prefixed 1745A and below)

Volume 2

Page 6-57, Table 6-2:

Change A4A1C23 entry as follows:

A4A1C23, 0160-2202, 1, CAPACITOR-FXD 75PF $\pm 5\%$ 300VDC, 28480, 0160-2202

Page 6-58, Table 6-2:

Change A4A1R57 entry as follows:

A4A1R57, 0757-0416, RESISTOR 511 1% .125W F TC=0 \pm 100, 0329B, C4-1/8-TO-511R-F

Page 6-69, Table 6-2:

Change A4A4R2 entry as follows:

A4A4R2, 0757-0180, 5, RESISTOR 31.6 1% .125W F TC=0 \pm 100, 28480, 0757-0180

Change A4A4R24 entry as follows:

A4A4R24, 0757-0180, RESISTOR 31.6 1% .125W F TC=0 \pm 100, 28480, 0757-0180

Page 6-76, Table 6-2:

Delete A4A6A2C30 and A4A6A2L11 entries.

7-20. Change P (IF-Display Sections prefixed 1745A and below) (Cont'd)

Volume 3

A4A1 Video Processor

Page 8-247, Table 8-33:

Change A4A1C23 entry as follows:

A4A1C23, 0160-2202, 1, CAPACITOR-FXD 75PF $\pm 5\%$ 300VDC, 28480, 0160-2202

Page 8-248, Table 8-33:

Change A4A1R57 entry as follows:

A4A1R57, 0757-0416, RESISTOR 511 1% .125W F TC=0 \pm 100, 0329B, C4-1/8-TO-511R-F

Page 8-251, Figure 8-110:

In Block **D**, change C23 value to 75PF and R57 value to 511.

A4A4 Bandwidth Filter

Page 8-283, Table 8-39:

Change A4A4R2 entry as follows:

A4A4R2, 0757-0180, 5, RESISTOR 31.6 1% .125W F TC=0 \pm 100, 28480, 0757-0180

Change A4A4R24 entry as follows:

A4A4R24, 0757-0180, RESISTOR 31.6 1% .125W F TC=0 \pm 100, 28480, 0757-0180

Page 8-287, Figure 8-123:

In Block **A**, change R2 value to 31.6.

In Block **E**, change R24 value to 31.6.

A4A6 Down/Up Converter

Page 8-311, Table 8-44:

Delete A4A6A2C30 and A4A6A2L11 entries.

Page 8-314, Figures 8-136 and 8-137:

Replace Figures 8-136 and 8-137 with Figures 7-19 and 7-20.

Page 8-315, Figure 8-139:

Replace Block **D** of the A4A6A2 schematic with Figure 7-16.

7-21. Change Q (IF-Display Sections prefixed 1721A)

Volume 2


Page 5-68, Paragraph 5-24:

Change Step 29 to read:

29. Key in -19.9 dBm. Set step attenuators to 15 dB. Press MARKER pushbutton twice. This establishes a new reference.

7-21. Change Q (IF-Display Sections prefixed 1721A) (Cont'd)

Change Step 30 to read:

30. Key in  -18.9 dBm. Set step attenuators to 14 dB.

Change Step 31 to read:

31. Adjust A4A5 VR A4A5R51 for MKR Δ level of .00 dB.

Pages 6-86 through 6-89:

Replace pages 6-86 through 6-89 with Table 7-12.

Volume 3

A4A9 IF Control

Pages 8-347 through 8-360:

Replace pages 8-347 through 8-360 with pages 7-95 through 7-104 except page 8-357, A4A9 IF Control, Block Diagram, which remains.

Table 7-2. Model 8568A Replaceable Parts (Cont'd) (CHANGE A)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14	85680-60022	1	BOARD ASSEMBLY, MEMORY	28480	85680-60022
A14C1	0180-2206	2	CAPACITOR-FXD 60UF+/-10% 6VDC TA	56289	150D606X9006B2
A14C2	0180-2206		CAPACITOR-FXD 60UF+/-10% 6VDC TA	56289	150D606X9006B2
A14C3	0160-0575	13	CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C4	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C5	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C6	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C7	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C8	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C9	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C10	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C11	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C12	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C13	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C14	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14C15	0160-0575		CAPACITOR-FXD .047UF +20% 50VDC CER	28480	0160-0575
A14CR1	1901-0050	2	DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A14CR2	1901-0535	1	DIODE-SCHOTTKY	28480	1901-0535
A14CR3	1901-0050		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A14L1	08558-80011	1	FILTER, COIL, BLUE	28480	08558-80011
A14Q1	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-39 PD=600MW	04713	2N2905A
A14Q2	1853-0405	8	TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q3	1853-0314		TRANSISTOR PNP 2N2905A SI TO-39 PD=600MW	04713	2N2905A
A14Q4	1853-0405		TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q5	1853-0314		TRANSISTOR PNP 2N2905A SI TO-39 PD=600MW	04713	2N2905A
A14Q6	1853-0405		TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q7	1853-0314		TRANSISTOR PNP 2N2905A SI TO-39 PD=600MW	04713	2N2905A
A14Q8	1853-0405		TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q9	1853-0314		TRANSISTOR PNP 2N2905A SI TO-39 PD=600MW	04713	2N2905A
A14Q10	1853-0405		TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q11	1853-0314		TRANSISTOR PNP 2N2905A SI TO-39 PD=600MW	04713	2N2905A
A14Q12	1853-0405		TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q13	1853-0314		TRANSISTOR PNP 2N2905A SI TO-39 PD=600MW	04713	2N2905A
A14Q14	1853-0405		TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q15	1853-0405		TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q16	1853-0314		TRANSISTOR PNP 2N2905A SI TO-39 PD=600MW	04713	2N2905A
A14R1	0757-0438	16	RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R2	0757-0401	9	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A14R3	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R4	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A14R5	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R6	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R7	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A14R8	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R9	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R10	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A14R11	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R12	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R13	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A14R14	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R15	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R16	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A14R17	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R18	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R19	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R20	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A14R21	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R22	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A14R23	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R24	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R25	0757-0199	2	RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A14R26	0698-0083	2	RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A14R27	0757-0199		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A14R28	0757-0401		RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A14R29	0757-0416	1	RESISTOR 511 1% .125W F TC=0+-100	24546	C4-1/8-T0-5111-F
A14R30	0698-0083		RESISTOR 1.96K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1961-F
A14TP1	1251-5177	12	CONNECTOR-SGL CONT PIN .031-IN=B9C-S2	28480	1251-5177
A14TP2	1251-5177		CONNECTOR-SGL CONT PIN .031-IN=B9C-S2	28480	1251-5177
A14TP3	1251-5177		CONNECTOR-SGL CONT PIN .031-IN=B9C-S2	28480	1251-5177
A14TP4	1251-5177		CONNECTOR-SGL CONT PIN .031-IN=B9C-S2	28480	1251-5177
A14TP5	1251-5177		CONNECTOR-SGL CONT PIN .031-IN=B9C-S2	28480	1251-5177

Table 7-2. Model 8568A Replaceable Parts (Cont'd) (CHANGE A)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14TP6	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-SZ	28480	1251-5177
A14TP7	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-SZ	28480	1251-5177
A14TP8	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-SZ	28480	1251-5177
A14TP9	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-SZ	28480	1251-5177
A14TP10	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-SZ	28480	1251-5177
A14TP11	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-SZ	28480	1251-5177
A14TP12	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-SZ	28480	1251-5177
A14U1	1816-1201	1	IC-8192-BIT PROM TTL	28480	1816-1201
A14U2	1816-1202	1	IC-8192-BIT PROM TTL	28480	1816-1202
A14U3	1816-1203	1	IC-8192-BIT PROM TTL	28480	1816-1203
A14U4	1816-1204	1	IC-8192-BIT PROM TTL	28480	1816-1204
A14U5	1816-1205	1	IC-8192-BIT PROM TTL	28480	1816-1205
A14U6	1816-1206	1	IC-8192-BIT PROM TTL	28480	1816-1206
A14U7	1816-1207	1	IC-8192-BIT PROM TTL	28480	1816-1207
A14U8	1816-1208	1	IC-8192-BIT PROM TTL	28480	1816-1208
A14U9	1816-1209	1	IC-8192-BIT PROM TTL	28480	1816-1209
A14U10	1816-1210	1	IC-8192-BIT PROM TTL	28480	1816-1210
A14U11	1816-1211	1	IC-8192-BIT PROM TTL	28480	1816-1211
A14U12	1816-1212	1	IC-8192-BIT PROM TTL	28480	1816-1212
A14U13	1816-1213	1	IC-8192-BIT PROM TTL	28480	1816-1213
A14U14	1816-1214	1	IC-8192-BIT PROM TTL	28480	1816-1214
A14U15	1816-1215	1	IC-8192-BIT PROM TTL	28480	1816-1215
A14U16	1816-1216	1	IC-8192-BIT PROM TTL	28480	1816-1216
A14U17	1816-1217	1	IC-8192-BIT PROM TTL	28480	1816-1217
A14U18	1816-1218	1	IC-8192-BIT PROM TTL	28480	1816-1218
A14U19	1816-1219	1	IC-8192-BIT PROM TTL	28480	1816-1219
A14U20	1816-1220	1	IC-8192-BIT PROM TTL	28480	1816-1220
A14U21	1816-1221	1	IC-8192-BIT PROM TTL	28480	1816-1221
A14U22	1816-1222	1	IC-8192-BIT PROM TTL	28480	1816-1222
A14U23	1816-1223	1	IC-8192-BIT PROM TTL	28480	1816-1223
A14U24	1816-1224	1	IC-8192-BIT PROM TTL	28480	1816-1224
A14U25	1820-1197	2	IC GATE TTL LS NAND QUAD 2-INP	01295	8N74L800N
A14U26	1820-1197		IC GATE TTL LS NAND QUAD 2-INP	01295	8N74L800N
A14U27	1820-1446	1	IC 8MF-RGTR TTL LS R-S PRL-IN PRL-OUT	01295	8N74L8395N
A14U28	1820-1216	1	IC DCDR TTL LS 3-TO-8-LINE 3-INP	01295	8N74L8138N
A14U29	1820-1195	4	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74L8175N
A14U30	1816-1225	1		28480	1816-1225
A14U31	1816-1226	1	IC-8192-BIT PROM TTL	28480	1816-1226
A14U32	1816-1227	1	IC-8192-BIT PROM TTL	28480	1816-1227
A14U33	1816-1228	1	IC-8192-BIT PROM TTL	28480	1816-1228
A14U34	1816-1229	1	IC-8192-BIT PROM TTL	28480	1816-1229
A14U35	1816-1230	1	IC-8192-BIT PROM TTL	28480	1816-1230
A14U36	1816-1231	1	IC-8192-BIT PROM TTL	28480	1816-1231
A14U37	1816-1232	1	IC-8192-BIT PROM TTL	28480	1816-1232
A14U38-					
A14U53	1818-0390	15	IC 1K RAM CMOS	32293	IM6508IDE
A14U54	1820-1195		IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74L8175N
A14U55	1820-1195		IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74L8175N
A14U56	1820-1195		IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74L8175N
A14U57	1820-1491	3	IC 57R TTL LS NON-INV HEX 1-INP	01295	8N74L8367N
A14U58	1820-1491		IC 8FR TTL LS NON-INV HEX 1-INP	01295	8N74L8367N
A14U59	1820-1491		IC 8FR TTL LS NON-INV HEX 1-INP	01295	8N74L8367N
A14VR1	1902-0041	1	DIODE-ZNR 5.11V 5% DO-7 PD=.4W TC=-.009%	28480	1902-0041
			A14 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN-DIA .25-IN-LG BE-CU	28480	1480-0073
	4040-0749	1	EXTRACTOR-PC BOARD BRN POLYC	28480	4040-0749
	4040-0752	1	EXTRACTOR-PC BOARD YEL POLYC	28480	4040-0752

A14 MEMORY, CIRCUIT DESCRIPTION (CHANGE A)

A14 Memory stores the program for A15 Processor in read-only memory (ROM). The CMOS random-access memory (RAM) is used by A15 Processor for data storage. A14 communicates with A15 by the 16-bit LIDA Bus. (Refer to the table on the schematic for definitions of mnemonics.)

Program ROM

At the start of a memory fetch, HSTM goes high. This clocks the address on the LIDA lines into the Memory Address Register (MAR) **A**. The lower 11 bits (MAR0 through MAR10) become the address for all the ROM ICs (chips) **E**. The next 3 bits (MAR11 through MAR13) are decoded by the Memory Select decoder U28 **C** to generate a select line for each of the eight sets of four ROM chips each. (Since each ROM is only 4 bits wide, four ROMs are connected in parallel to generate the 16-bit word.) U28 is enabled only when LSOB goes high, indicating that the memory is to put data on the bus. Using a two-transistor switch **E**, the Memory Select line turns on the power for the ROM set, and the ROM data is output to the bus.

Read-Write Memory

The CMOS RAM **D** consists of 16 1K by 1 chips. The lower 10 LIDA lines (LIDA 0 through 9) are connected directly to the address inputs, since the chips contain built-in address registers that are clocked by the LRAMCE signal. U26 inverts HSTM to generate LRAMCE **C**.

The write control input on the RAMs is connected to the LWRT signal from A15 Processor. LWRT indicates that data on the LIDA lines is to be written into the RAM memory. To read the RAM contents, a LRAMEN signal is generated by U25 **C** whenever MAR14 and LSOB are high. This enables the three-state RAM buffers U57, U58, and U59 **D** to drive the LIDA lines. The +5V supply to the CMOS RAMs, +5VP, is normally generated by VR1 **F**, which is biased from the +12V supply. When power is turned off, the battery voltage (A28 Battery Pack) is ORed into the CMOS supply through Schottky diode CR2, keeping the RAM at >2V. This saves the instrument state settings and calibration data stored in the CMOS memory when the instrument is off.

Signature Circuit

In the Signature Circuit **B**, 4-bit ring counter U27, controlled by LWRT, MAR13, and MAR 3 signals, generates four trigger signals that are used in troubleshooting the instrument.

Table 7-3. A14 Memory, Replaceable Parts (1 of 2) (CHANGE A)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14	85680-60022	1	BOARD ASSEMBLY, MEMORY	28480	85680-60022
A14C1	0180-2206	2	CAPACITOR-FXD 60UF+-10% 6VDC TA	56289	150D606X9006B2
A14C2	0180-2206	2	CAPACITOR-FXD 60UF+-10% 6VDC TA	56289	150D606X9006B2
A14C3	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C4	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C5	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C6	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C7	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C8	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C9	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C10	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C11	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C12	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C13	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C14	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14C15	0160-0575	13	CAPACITOR-FXD .047UF +-20% 50VDC CER	28480	0160-0575
A14CR1	1901-0050	2	DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A14CR2	1901-0535	1	DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0535
A14CR3	1901-0050	1	DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A14L1	08558-80011	1	FILTER, COIL, BLUE	28480	08558-80011
A14Q1	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-18 PD=600MW	04713	2N2905A
A14Q2	1853-0405	8	TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q3	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-18 PD=600MW	04713	2N2905A
A14Q4	1853-0405	8	TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q5	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-18 PD=600MW	04713	2N2905A
A14Q6	1853-0405	8	TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q7	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-18 PD=600MW	04713	2N2905A
A14Q8	1853-0405	8	TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q9	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-18 PD=600MW	04713	2N2905A
A14Q10	1853-0405	8	TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q11	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-18 PD=600MW	04713	2N2905A
A14Q12	1853-0405	8	TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q13	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-18 PD=600MW	04713	2N2905A
A14Q14	1853-0405	8	TRANSISTOR PNP 2N4209 SI TO-18 PD=300MW	28480	1853-0405
A14Q15	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-18 PD=600MW	04713	2N2905A
A14Q16	1853-0314	8	TRANSISTOR PNP 2N2905A SI TO-18 PD=600MW	04713	2N2905A
A14R1	0757-0438	16	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R2	0757-0401	9	RESISTOR 100 1% .125W F TC0+-100	24546	C4=1/8-T0=1011-F
A14R3	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R4	0757-0401	9	RESISTOR 100 1% .125W F TC0+-100	24546	C4=1/8-T0=1011-F
A14R5	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R6	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R7	0757-0401	9	RESISTOR 100 1% .125W F TC0+-100	24546	C4=1/8-T0=1011-F
A14R8	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R9	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R10	0757-0401	9	RESISTOR 100 1% .125W F TC0+-100	24546	C4=1/8-T0=1011-F
A14R11	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R12	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R13	0757-0401	9	RESISTOR 100 1% .125W F TC0+-100	24546	C4=1/8-T0=1011-F
A14R14	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R15	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R16	0757-0401	9	RESISTOR 100 1% .125W F TC0+-100	24546	C4=1/8-T0=1011-F
A14R17	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R18	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R19	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R20	0757-0401	9	RESISTOR 100 1% .125W F TC0+-100	24546	C4=1/8-T0=1011-F
A14R21	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R22	0757-0401	9	RESISTOR 100 1% .125W F TC0+-100	24546	C4=1/8-T0=1011-F
A14R23	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R24	0757-0438	9	RESISTOR 5.11K 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R25	0757-0199	2	RESISTOR 21.5K 1% .125W F TC0+-100	24546	C4=1/8-T0=2152-F
A14R26	0698-0083	2	RESISTOR 1.96K 1% .125W F TC0+-100	24546	C4=1/8-T0=1961-F
A14R27	0757-0199	2	RESISTOR 21.5K 1% .125W F TC0+-100	24546	C4=1/8-T0=2152-F
A14R28	0757-0401	2	RESISTOR 100 1% .125W F TC0+-100	24546	C4=1/8-T0=1011-F
A14R29	0757-0416	1	RESISTOR 511 1% .125W F TC0+-100	24546	C4=1/8-T0=5111-F
A14R30	0698-0083	1	RESISTOR 1.96K 1% .125W F TC0+-100	24546	C4=1/8-T0=1961-F
A14TP1	1251-5177	12	CONNECTOR-SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP2	1251-5177	12	CONNECTOR-SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP3	1251-5177	12	CONNECTOR-SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP4	1251-5177	12	CONNECTOR-SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP5	1251-5177	12	CONNECTOR-SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177

Table 7-3. A14 Memory, Replaceable Parts (2 of 2) (CHANGE A)

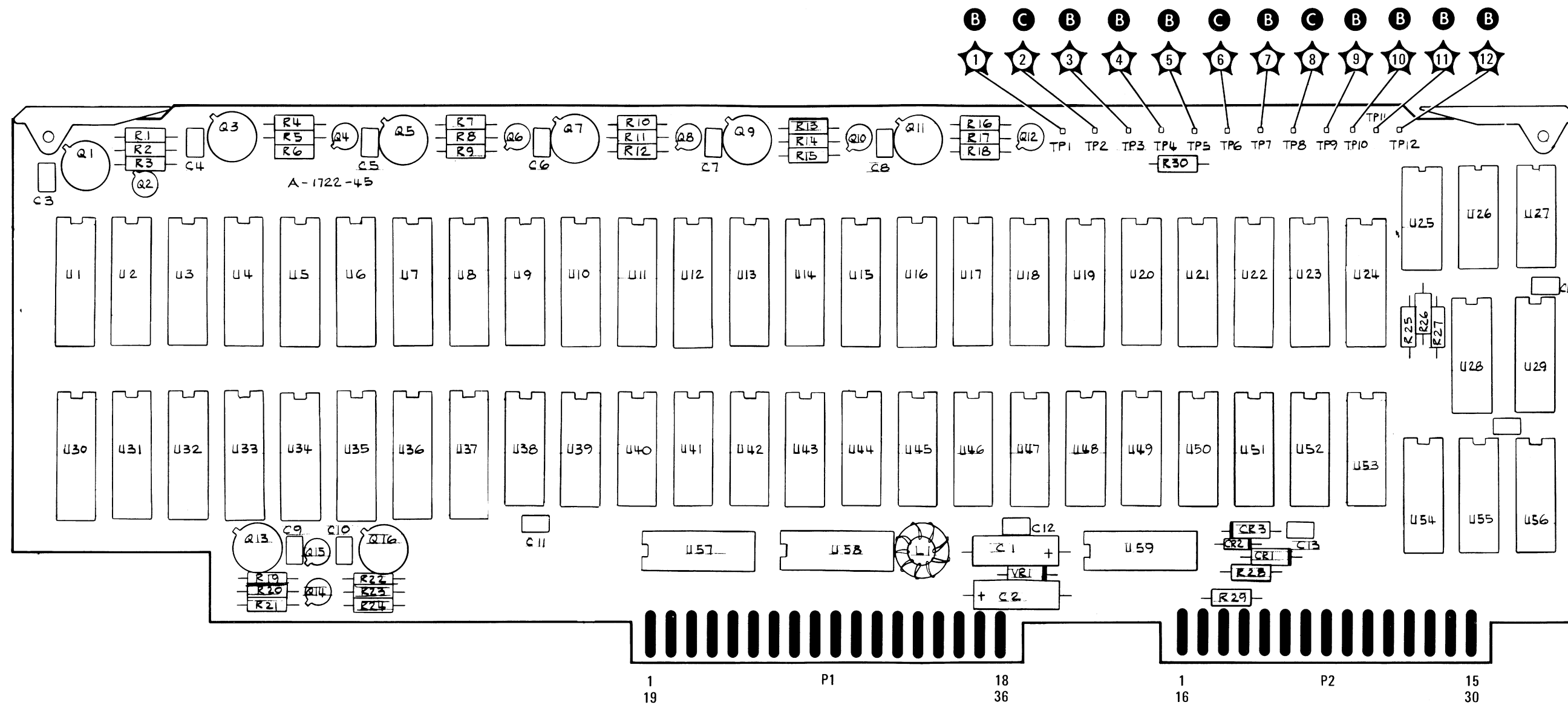
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14TP6	1251-5177		CONNECTOR=SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP7	1251-5177		CONNECTOR=SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP8	1251-5177		CONNECTOR=SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP9	1251-5177		CONNECTOR=SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP10	1251-5177		CONNECTOR=SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP11	1251-5177		CONNECTOR=SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14TP12	1251-5177		CONNECTOR=SGL CONT PIN .031-IN-BSC-SZ	28480	1251-5177
A14U1	1816-1201	1	IC-8192-BIT PROM TTL	28480	1816-1201
A14U2	1816-1202	1	IC-8192-BIT PROM TTL	28480	1816-1202
A14U3	1816-1203	1	IC-8192-BIT PROM TTL	28480	1816-1203
A14U4	1816-1204	1	IC-8192-BIT PROM TTL	28480	1816-1204
A14U5	1816-1205	1	IC-8192-BIT PROM TTL	28480	1816-1205
A14U6	1816-1206	1	IC-8192-BIT PROM TTL	28480	1816-1206
A14U7	1816-1207	1	IC-8192-BIT PROM TTL	28480	1816-1207
A14U8	1816-1208	1	IC-8192-BIT PROM TTL	28480	1816-1208
A14U9	1816-1209	1	IC-8192-BIT PROM TTL	28480	1816-1209
A14U10	1816-1210	1	IC-8192-BIT PROM TTL	28480	1816-1210
A14U11	1816-1211	1	IC-8192-BIT PROM TTL	28480	1816-1211
A14U12	1816-1212	1	IC-8192-BIT PROM TTL	28480	1816-1212
A14U13	1816-1213	1	IC-8192-BIT PROM TTL	28480	1816-1213
A14U14	1816-1214	1	IC-8192-BIT PROM TTL	28480	1816-1214
A14U15	1816-1215	1	IC-8192-BIT PROM TTL	28480	1816-1215
A14U16	1816-1216	1	IC-8192-BIT PROM TTL	28480	1816-1216
A14U17	1816-1217	1	IC-8192-BIT PROM TTL	28480	1816-1217
A14U18	1816-1218	1	IC-8192-BIT PROM TTL	28480	1816-1218
A14U19	1816-1219	1	IC-8192-BIT PROM TTL	28480	1816-1219
A14U20	1816-1220	1	IC-8192-BIT PROM TTL	28480	1816-1220
A14U21	1816-1221	1	IC-8192-BIT PROM TTL	28480	1816-1221
A14U22	1816-1222	1	IC-8192-BIT PROM TTL	28480	1816-1222
A14U23	1816-1223	1	IC-8192-BIT PROM TTL	28480	1816-1223
A14U24	1816-1224	1	IC-8192-BIT PROM TTL	28480	1816-1224
A14U25	1820-1197	2	IC GATE TTL LS NAND QUAD 2-INP	01295	SN74LS00N
A14U26	1820-1197		IC GATE TTL LS NAND QUAD 2-INP	01295	SN74LS00N
A14U27	1820-1446	1	IC SHF REGTR TTL LS H-S PRL-IN PRL-OUT	01295	SN74LS395N
A14U28	1820-1216	1	IC LCCR TTL LS 3-TO-B-LINE 3-INP	01295	SN74LS138N
A14U29	1820-1195	4	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	SN74LS175N
A14U30	1816-1225	1		28480	1816-1225
A14U31	1816-1226	1	IC-8192-BIT PROM TTL	28480	1816-1226
A14U32	1816-1227	1	IC-8192-BIT PROM TTL	28480	1816-1227
A14U33	1816-1228	1	IC-8192-BIT PROM TTL	28480	1816-1228
A14U34	1816-1229	1	IC-8192-BIT PROM TTL	28480	1816-1229
A14U35	1816-1230	1	IC-8192-BIT PROM TTL	28480	1816-1230
A14U36	1816-1231	1	IC-8192-BIT PROM TTL	28480	1816-1231
A14U37	1816-1232	1	IC-8192-BIT PROM TTL	28480	1816-1232
A14U38-					
A14U53	1816-0390	15	IC 1K RAM CMOS	32293	IM650810E
A14U54	1820-1195		IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	SN74LS175N
A14U55	1820-1195		IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	SN74LS175N
A14U56	1820-1195		IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	SN74LS175N
A14U57	1820-1491	3	IC BFR TTL LS NON-INV HEX 1-INP	01295	SN74LS367N
A14U58	1820-1491		IC BFR TTL LS NON-INV HEX 1-INP	01295	SN74LS367N
A14U59	1820-1491		IC BFR TTL LS NON-INV HEX 1-INP	01295	SN74LS367N
A14VR1	1902-0041	1	DIODE-ZNR 5.11V 5X 90-7 PDS=.4W TC=-.009X	28480	1902-0041
			A14 MISCELLANEOUS PARTS		
	1480-0073	2	PIF-HOLL .062-IN-DIA .25-IN-LG BE-CU	28480	1480-0073
	4040-0749	1	EXTRACTOR-PC BOARD BRN POLYC	28480	4040-0749
	4040-0752	1	EXTRACTOR-PC BOARD YEL POLYC	28480	4040-0752

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A14
MEMORY



SERIAL PREFIX: 1828A AND BELOW

Figure 7-1. A14 Memory, Component Locations (CHANGE A)

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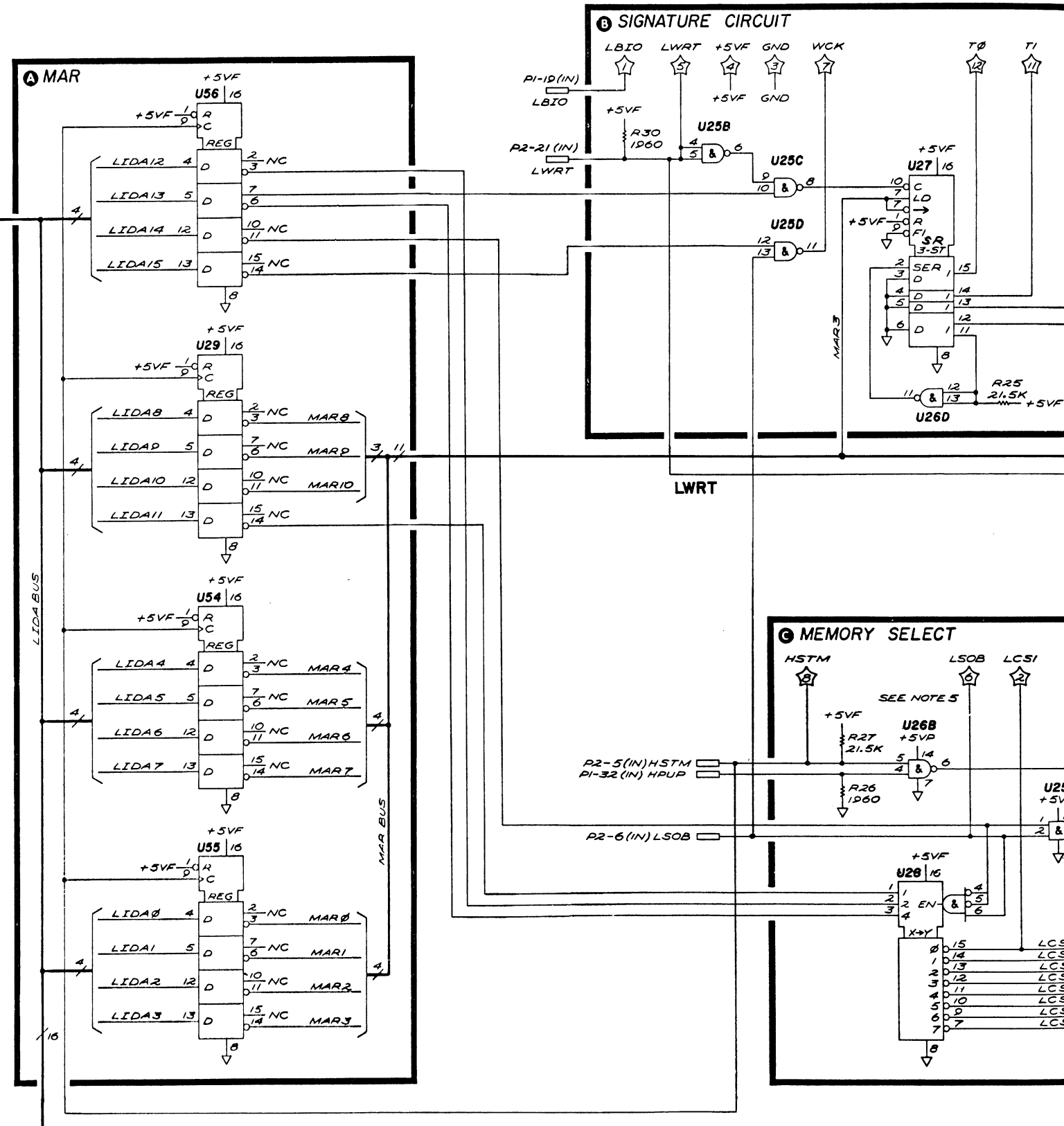
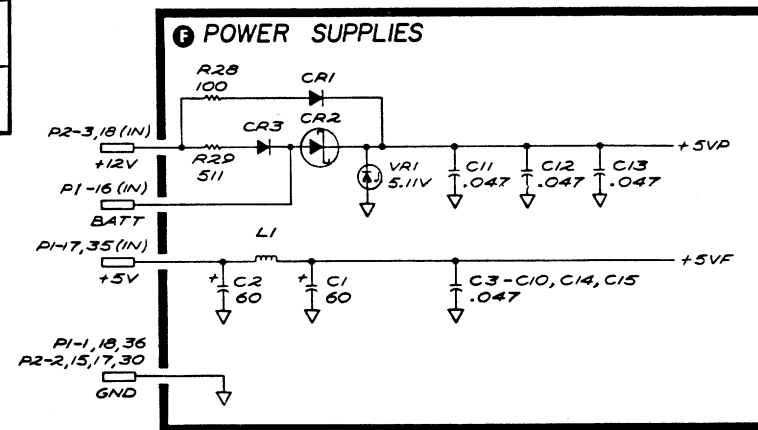
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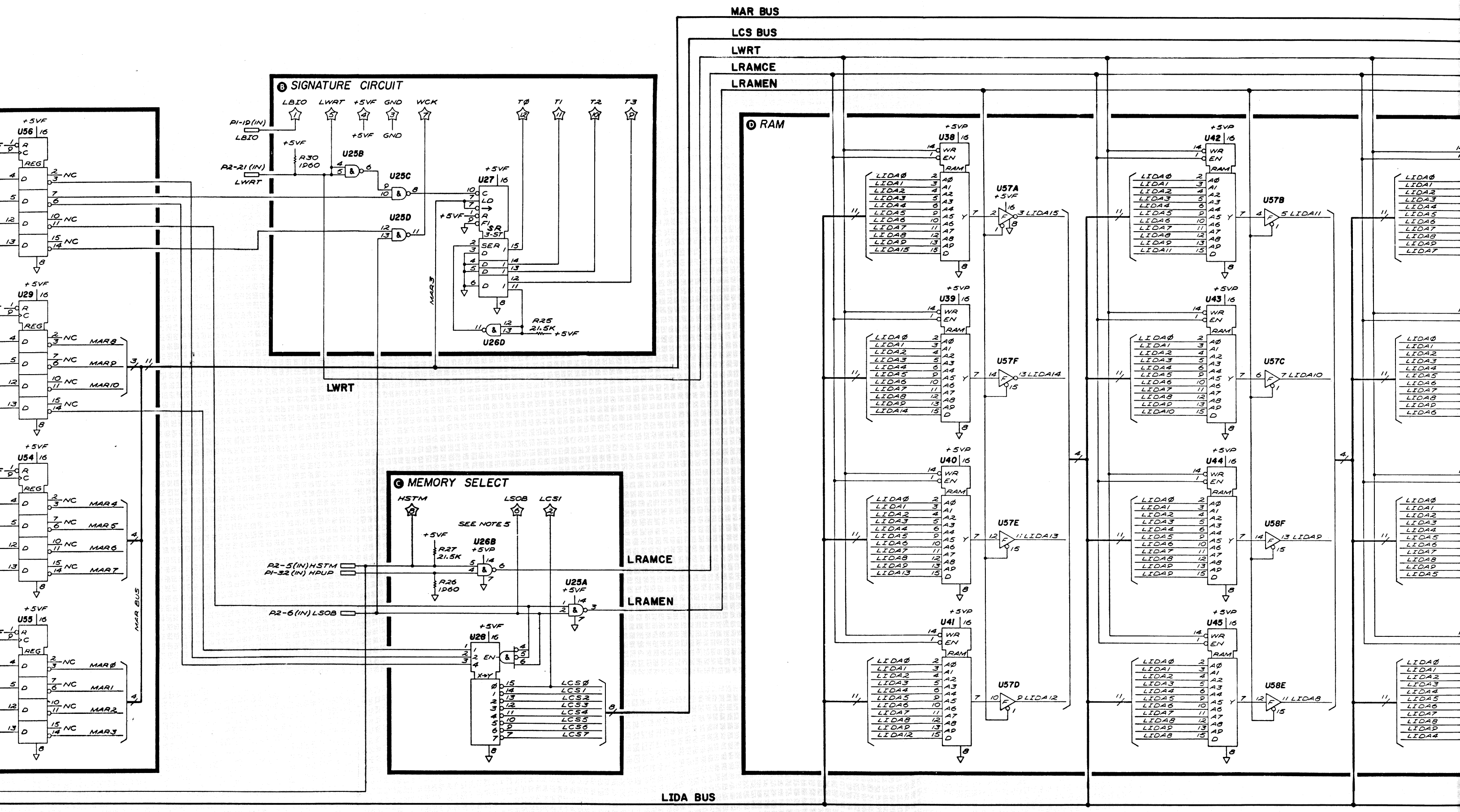
A14 MEMORY
85680-60022
(SHEET 1 of 2)

PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	GND		F
19	LBIO	A15P2-19	B
2	NC		
20	NC		
3	NC		
21	NC		
4	NC		
22	NC		
5	NC		
23	NC		
6	NC		
24	NC		
7	NC		
25	NC		
8	NC		
26	NC		
9	NC		
27	NC		
10	NC		
28	NC		
11	NC		
29	NC		
12	NC		
30	NC		
13	NC		
31	NC		
14	NC		
32	HPUP	A24P2-12	C
15	NC		
33	NC		
16	BATT	A28	
34	NC		
17	+5V		F
35	+5V		F
18	GND		
36	GND		F

PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	NC		F
16	NC		F
2	GND		F
17	GND		F
3	+12V		F
18	+12V		F
4	NC		
19	NC		
5	HSTM	A15P3-5	C
20	NC		
6	LSOB	A15P3-6	C
21	LWRT	A15P3-21	B
7	LIDA14	A15P3-7	A
22	LIDA15	A15P3-22	A
8	LIDA12	A15P3-8	A
23	LIDA13	A15P3-23	A
9	LIDA10	A15P3-9	A
24	LIDA11	A15P3-24	A
10	LIDA8	A15P3-10	A
25	LIDA9	A15P3-25	A
11	LIDA6	A15P3-11	A
26	LIDA7	A15P3-26	A
12	LIDA4	A15P3-12	A
27	LIDA5	A15P3-27	A
13	LIDA2	A15P3-13	A
28	LIDA3	A15P3-28	A
14	LIDA0	A15P3-14	A
29	LIDA1	A15P3-29	A
15	GND		F
30	GND		F

P2-14(I/O) LIDA0
P2-29(I/O) LIDA1
P2-13(I/O) LIDA2
P2-28(I/O) LIDA3
P2-12(I/O) LIDA4
P2-27(I/O) LIDA5
P2-11(I/O) LIDA6
P2-26(I/O) LIDA7
P2-10(I/O) LIDA8
P2-25(I/O) LIDA9
P2-9(I/O) LIDA10
P2-24(I/O) LIDA11
P2-8(I/O) LIDA12
P2-23(I/O) LIDA13
P2-7(I/O) LIDA14
P2-22(I/O) LIDA15





TO SHEET 2

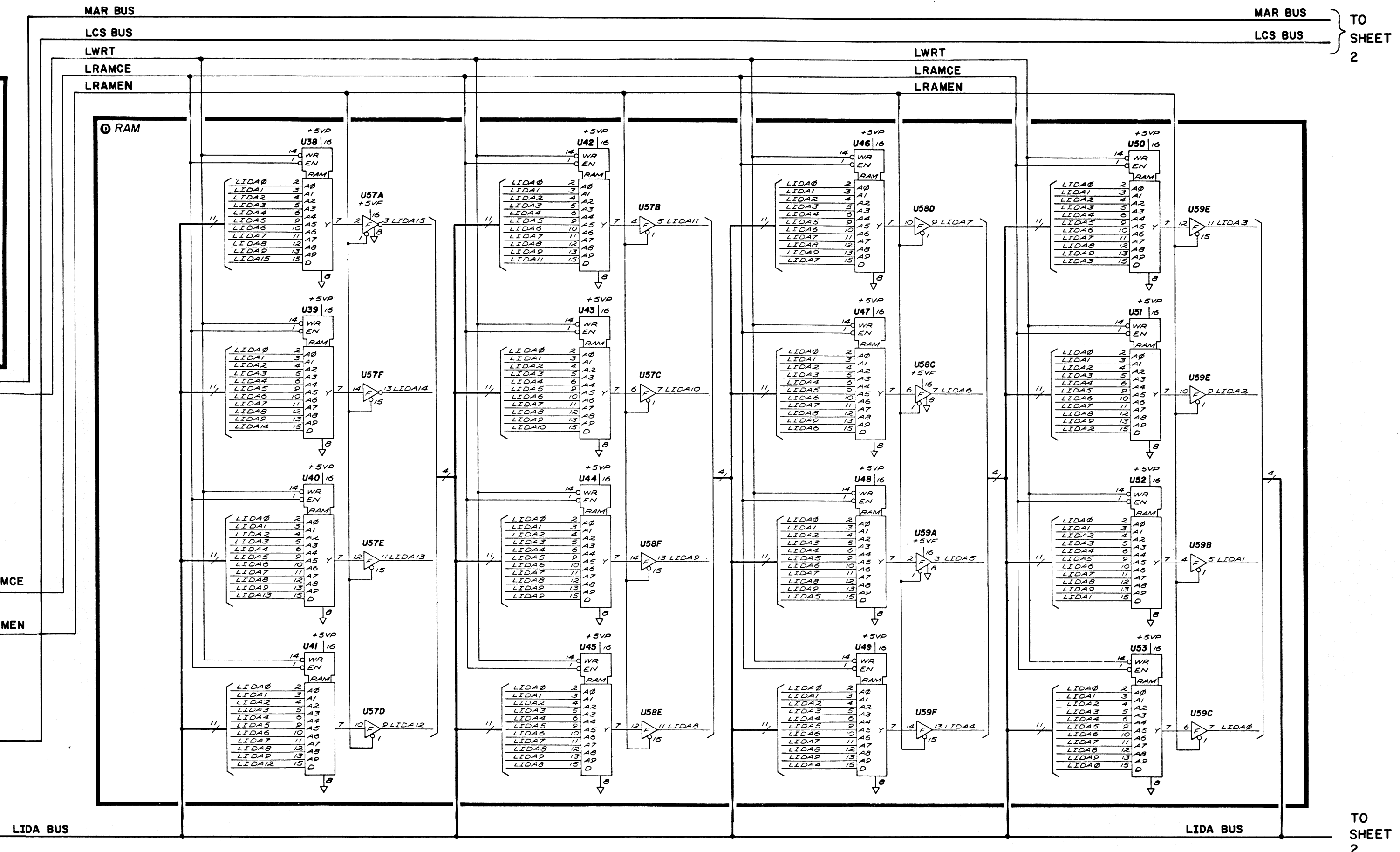
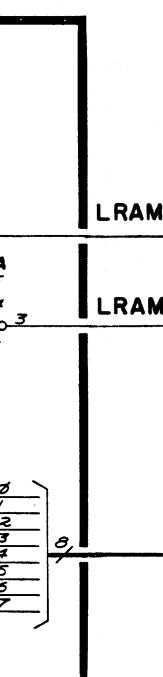
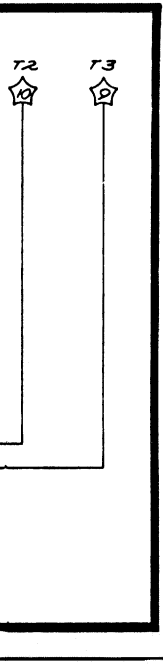


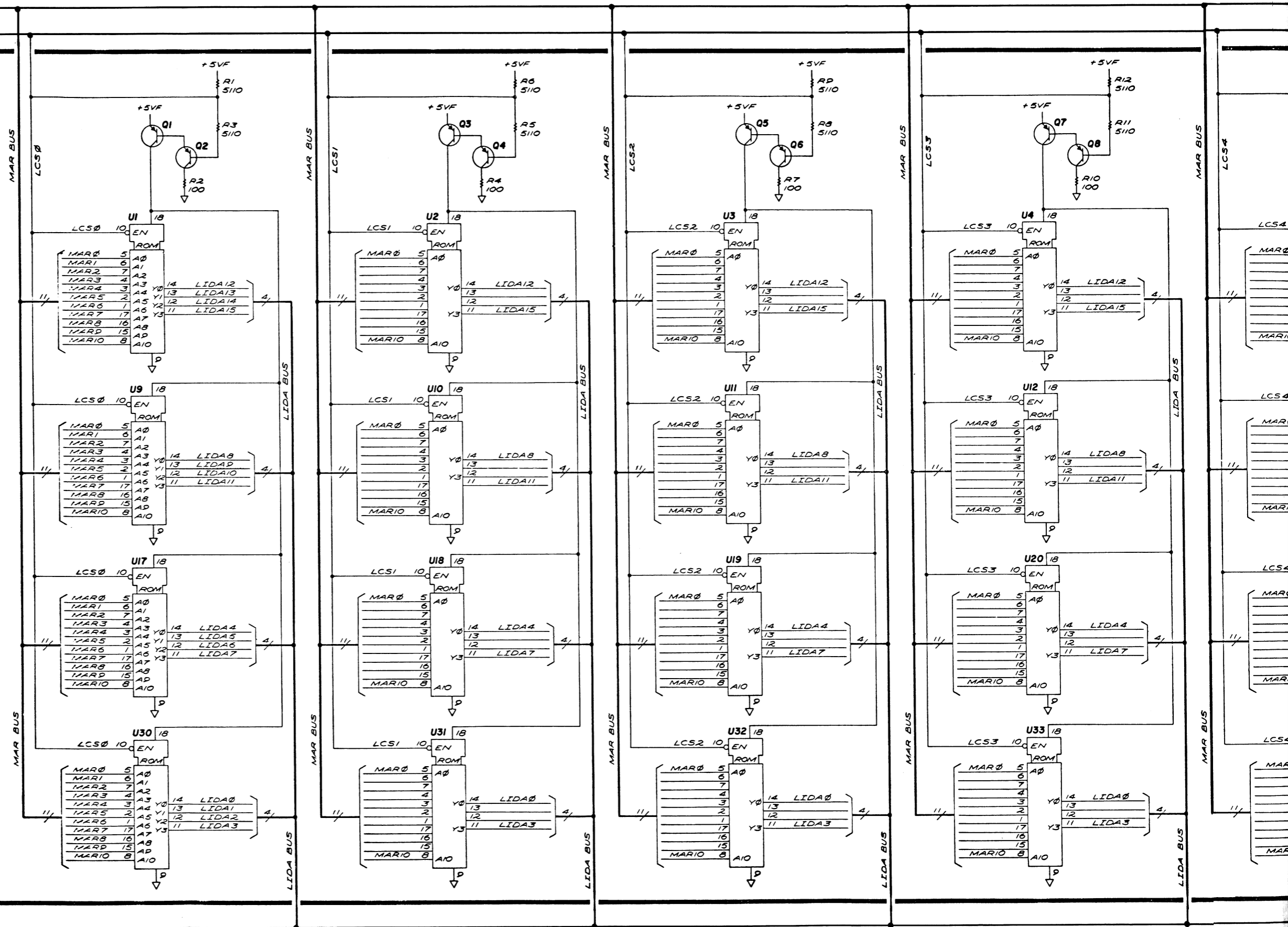
Figure 7-2. A14 Memory, Schematic (1 of 2) (CHANGE A)

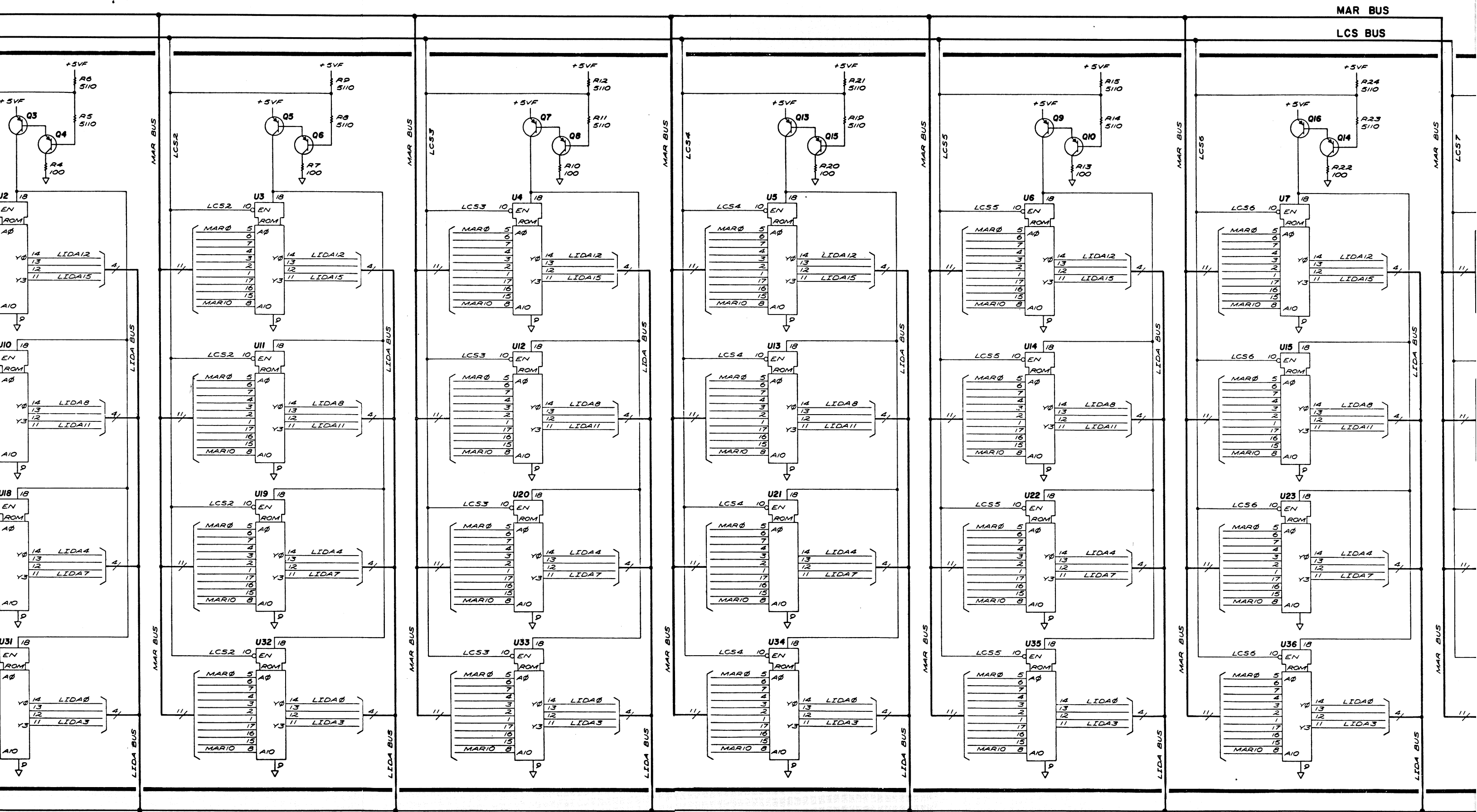
FROM
SHEET 1

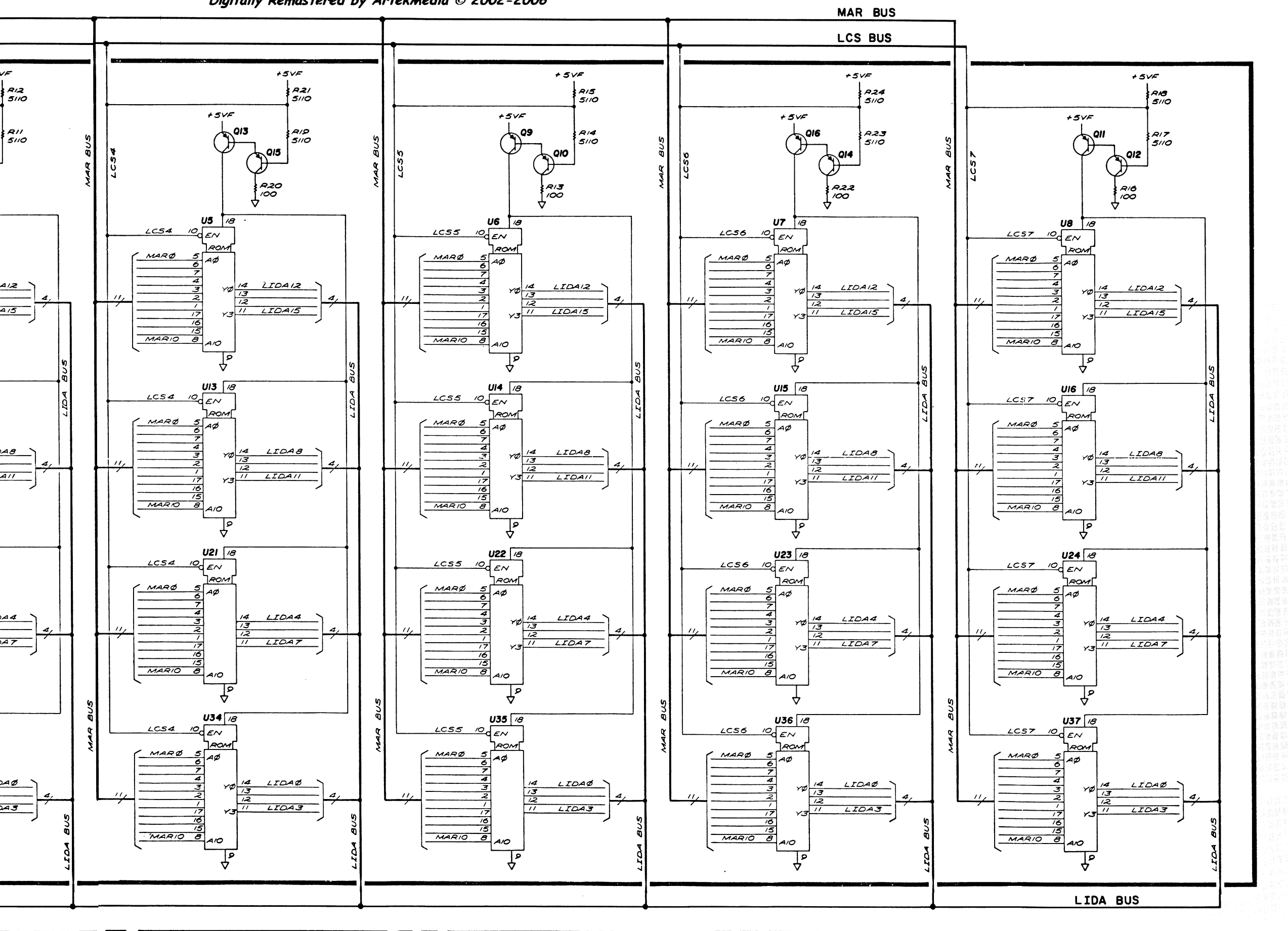
FROM
SHEET 1

LIDA BUS

ROM







NOTES:

1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. PREFIX ABBREVIATION WITH ASSEMBLY NUMBER FOR COMPLETE REFERENCE DESIGNATOR.
2. UNLESS OTHERWISE INDICATED:
RESISTANCE IN OHMS (Ω)
CAPACITANCE IN MICROFARADS (μ F)
INDUCTANCE IN MICROHENRIES (μ H)
3. UNLESS OTHERWISE INDICATED, LOGIC LEVELS ARE TTL:
+2.0V TO +5.0V = LOGIC "1" = HIGH
0V TO +0.8V = LOGIC "0" = LOW

4. MNEMONICS TABLE:

MNEMONIC	DESCRIPTION
LBIO	LOW = BOTTOM BOX I/O STROBE
HPUP	HIGH = POWER UP
BATT	BATTERY
HSTM	HIGH = START MEMORY
LSOB	LOW = STAY OFF BUS
LWRT	LOW = WRITE MEMORY INSTRUCTION, DATA AND ADDRESS BUS BITS (LOW = TRUE)
LIDA \emptyset	
LIDA15	
MAR \emptyset	
THRU	MEMORY ADDRESS BITS
MAR10	
LCS \emptyset	
THRU	LOW = CHIP SELECT FOR ROMS
LRAMCE	LOW = CHIP ENABLE FOR RAMS
LRAMEN	LOW = ENABLE RAM OUTPUT BUFFERS

5. U26A AND U26C ARE NOT USED. PINS 1, 2, 9, AND 10 ARE GROUND.

A14

Figure 7-2. A14 Memory, Schematic (2 of 2) (CHANGE A)

Table 7-4. Model 8568A Replaceable Parts (Cont'd) (CHANGE B)

Reference Designation	HP Part Number	Qty	Description	Mfr. Code	Mfr Part Number
A13	85680-60023	1	BOARD ASSY: HP-IB INTERFACE	28480	85680-60023
A13C1	0180-0229	4	CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C2	0160-2055	13	CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C3	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C6	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C7			NOT ASSIGNED		
A13C8	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C9	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C11	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C15	0180-0116	1	CAPACITOR-FXD 6.8UF ±10% 35VDC	04200	150D685X9035B2
A13C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C17	0160-4298	1	CAPACITOR-FXD 4700PF ±20% 250VDC	04200	C067F251H472M522-CDH
A13C18	0180-0228	1	CAPACITOR-FXD 22UF ±10% 15VDC	04200	150D226X9015B2
A13C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C21			NOT ASSIGNED		
A13C22	0160-0945	1	CAPACITOR-FXD 910PF ±5% 300VDC	28480	0160-0945
A13C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13CR1	1901-0518	7	DIODE-SCHOTTKY	28480	1901-0518
A13CR2	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR3	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR4	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR5	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR6	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR7			NOT ASSIGNED		
A13CR8	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13E1	1251-4832	1	JUMPER-PROGRAMMING	28480	1251-4832
A13J1	1251-3283	1	CONNECTOR-24-PIN F MICRORIBBON	28480	1251-3283
A13J2	1200-0655	1	SOCKET-18-CONTACT	28480	1200-0655
A13L1	08558-80011	3	COIL-FILTER BLUE	28480	08558-80011
A13L2	08558-80011		COIL-FILTER BLUE	28480	08558-80011
A13L3	08558-80011		COIL-FILTER BLUE	28480	08558-80011
A13MP1	85680-60115	2	STANDOFF-METRIC THREAD	28480	85680-60115
A13MP2	2190-0034	2	WASHER-LOCK HLCL NO. 10 .194 IN ID	28480	2190-0034
A13MP3	1530-1098	2	CLEVIS-.070 IN SLIT .454 IN PIN CTR	28480	1530-1098
A13MP4	2200-0143	2	SCREW-MACH 4-40 .375 IN LG PAN HD-POZI-DRIV	28480	2200-0143
A13MP5	2260-0002	2	NUT-HEX DBL CHAM 4-40 .062 IN THK	28480	2260-0002
A13MP6	2190-0004	2	WASHER-LOCK INT T NO. 6 .115 IN ID	28480	2190-0004
A13MP7	85680-00053	1	GROUND SPRING-HP-IB	28480	85680-00053
A13Q1	1854-0477	4	TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13Q2	1854-0477		TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13Q3	1854-0477		TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13Q4	1854-0477		TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13R1			NOT ASSIGNED		
A13R2			NOT ASSIGNED		
A13R3	0698-3150	1	RESISTOR-2.37K 1% .125W	03292	C4-1/8-TO-2371-F
A13R4	0757-0420	1	RESISTOR-750 1% .125W	03292	C4-1/8-TO-750R
A13R5	0757-0394	1	RESISTOR-51.1 1% .125W	03292	C4-1/8-TO-51R1-F
A13R6	0757-0428	1	RESISTOR-1.62K 1% .125W	03292	C4-1/8-TO-1621-F
A13R7*	0757-0280	1	RESISTOR-FXD 1.0K V _{BG} =-2.0V	03292	C4-1/8-TO-1001-F
A13R7*	0757-1094		RESISTOR-FXD 1.47K V _{BG} =-2.5V	03292	C4-1/8-TO-1471-F
A13R7*	0698-0084		RESISTOR-FXD 2.15K V _{BG} =-3.0V	03292	C4-1/8-TO-2151-F
A13R7*	0698-3152		RESISTOR-FXD 3.48K V _{BG} =-3.5V	03292	C4-1/8-TO-3481-F
A13R7*	0757-0200		RESISTOR-FXD 5.62K V _{BG} =-4.0V	03292	C4-1/8-TO-5621-F
A13R7*	0757-0443		RESISTOR-FXD 11K V _{BG} =-4.5V	03292	C4-1/8-TO-1102-F
A13R7*	0698-3450		RESISTOR-FXD 42.2K V _{BG} =-5.0V	03292	C4-1/8-TO-4222-F
A13R8			NOT ASSIGNED		
A13R9	0698-3159	2	RESISTOR-26.1K 1% .125W	03292	C4-1/8-TO-2612-F
A13R10	0757-0442	1	RESISTOR-10K 1% .125W	03292	C4-1/8-TO-1002-F

Table 7-4. Model 8568A Replaceable Parts (Cont'd) (CHANGE B)

Reference Designation	HP Part Number	Qty	Description	Mfr. Code	Mfr Part Number
A13R11			NOT ASSIGNED		
A13R12			NOT ASSIGNED		
A13R13	0698-3334		RESISTOR-178 1% .5W	05524	MFF-1/2-10
A13R14	0757-0280	1	RESISTOR-1K 1% .125W	03292	C4-1/8-TO-1001-F
A13R15	0757-0438	2	RESISTOR-5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A13R16	0757-0438		RESISTOR-5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A13R17			NOT ASSIGNED		
A13R18	0698-0083	1	RESISTOR-1.96K 1% .125W	03292	C4-1/8-TO-1961-F
A13R19	0757-0418	1	RESISTOR-619 1% .125W	03292	C4-1/8-TO-619R-F
A13R20	0698-3159		RESISTOR-26.1K 1% .125W	03292	C4-1/8-TO-2612-F
A13S1	3101-2206		SWITCH-TGL DIP 5 SWITCH	28480	3101-2206
A13TP1-					
A13TP10			NOT ASSIGNED		
A13TP11	1251-4707	14	CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13TP12			NOT ASSIGNED		
A13TP13	1251-4707		CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13TP14	1460-1489	5	WIREFORM	28480	1460-1489
A13TP15	1460-1489		WIREFORM	28480	1460-1489
A13TP16	1251-4707		CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13TP17	1460-1489		WIREFORM	28480	1460-1489
A13TP18	1460-1489		WIREFORM	28480	1460-1489
A13TP19-					
A13TP26	1251-4707		CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13TP27	1460-1489		WIREFORM	28480	1460-1489
A13TP28-					
A13TP30	1251-4707		CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13U1	1820-1201		IC-TTL 2 INPUT QUAD AND GATE	01698	SN74LS08N
A13U2	1820-1216	2	IC-TTL 3 INPUT 3-TO-8 DECODER	01698	SN74LS138N
A13U3	1816-1054	2	IC-TTL 8192-BIT PROM	02910	N825185F
A13U4	1820-1197	1	IC-TTL 2 INPUT QUAD NAND GATE	01698	SN74LS00N
A13U5	1820-1558	3	IC-TTL QUAD TRANSCEIVER	02037	MC3441P
A13U6			NOT ASSIGNED		
A13U7	1810-0326	1	DIODE ARRAY-CLAMP	28480	1810-0326
A13U8	1820-1558		IC-TTL QUAD TRANSCEIVER	02037	MC3441P
A13U9	1820-1730	2	IC-TTL D-TYPE FF POS-EDGE TRIG	01698	SN74LS273
A13U10	1820-1917	2	IC-TTL BFR LINE DRVR OCTAL	01698	SN74LS240N
A13U11	1820-1691	1	IC-MOS MICROPROCESSOR	28480	1820-1691
A13U12	1816-1054		IC-TTL 8192-BIT PROM	02910	N825185F
A13U13	1820-1416	1	IC-TTL SCHEMITT-TRIG HEX INV	01698	SN74LS14N
A13U14	1820-1199	1	IC-TTL HEX INV	01698	SN74LS04N
A13U15	1820-1558		IC-TTL QUAD TRANSCEIVER	02037	MC3441P
A13U16	1820-1522	1	IC-TTL QUAD TRANSCEIVER	02037	MC3440P
A13U17	1820-1730		IC-TTL D-TYPE FF POS-EDGE-TRIG	01698	SN74LS273
A13U18	1820-1917		IC-TTL BFR LINE DRVR OCTAL	01698	SN74LS240N
A13U19			NOT ASSIGNED		
A13U20	1820-1423	1	IC-TTL RETRIG DUAL MONOSTBL MV	01698	SN74LS123N
A13U21	1820-1997	2	IC-TTL 8 SEGMENT FF	28480	1820-1997
A13U22	1820-1997		IC-TTL 8 SEGMENT FF	28480	1820-1997
A13U23	1820-1216		IC-TTL 3-INPUT 3-TO-8 DECODER	01698	SN74LS138N
A13U24	1820-1112		IC-TTL D-TYPE FF POS-EDGE TRIG	01698	SN74LS74N
A13U25	1820-1112		IC-TTL D-TYPE FF POS-EDGE TRIG	01698	SN74LS74N
A13VR1	1902-3158	1	DIODE-BREAKDOWN 9.76V 2% .4W	02237	FZ7459
A13XU11	1200-0694	1	SKT-DIL 40-CONTACT	28480	1200-0694
			MISCELLANEOUS PARTS		
	1480-0073	2	PIN-RLI .062 IN DIA	28480	1480-0073
	4040-0749	1	EXTRACTOR-PC BOARD BROWN	28480	4040-0749
	4040-0751	1	EXTRACTOR-PC BOARD ORANGE	28480	4040-0751

A13

HP-IB INTERFACE, CIRCUIT DESCRIPTION (CHANGE B)

A13 HP-IB Interface coordinates communication between the Hewlett-Packard Interface Bus and A15 Processor in the spectrum analyzer. A13 comprises a microprocessor, a read-only memory (ROM), a clock, control circuitry, and data transfer circuitry.

A13 consists of the following circuits:

- A** HP-IB Transceiver 1
- B** Controls from HP-IB
- C** Data from HP-IB
- D** HP-IB Address Switch
- E** Program Memory
- F** Instrument Bus to Microprocessor Data
- G** Signature Analysis (SA) Test Jumper Plug
- H** Interrupts
- I** Clock
- J** Microprocessor
- K** Microprocessor Supply Control
- L** Bus Pullup/Clamp
- M** HP-IB Transceiver Control
- N** Controls to Instrument
- O** Device Select Decoder
- P** Controls to HP-IB
- Q** Microprocessor to Instrument Handshake
- R** Data to HP-IB
- S** Instrument Bus Address Decoder

- Ⓟ HP-IB Transceiver 2
- Ⓧ Microprocessor to Instrument Bus Data
- Ⓥ Power Supplies


Communication with HP-IB

The Microprocessor Ⓧ communicates with the HP-IB by reading through three-state buffers U18 and U10 Ⓟ Ⓠ and by writing into registers U9, U17A, and U17B Ⓡ Ⓟ Ⓡ. These buffers and registers interface with the HP-IB through transceivers U5, U8, U15, and U16 Ⓟ Ⓡ.

Communication with A15 Processor

The Microprocessor Ⓧ communicates with A15 Processor by reading from register U22 Ⓠ and by writing into register U21 Ⓧ. Two handshake lines (LREQ and LHBZ) Ⓡ are also used. LREQ goes true to indicate that valid data has been loaded into register U21 Ⓧ by the Microprocessor Ⓧ. LHBZ goes true to indicate that valid data has been loaded into register U22 Ⓠ by A15 Processor. Both lines are reset when the data is read by the destination processor.

Controls to Instrument Ⓡ


The Controls to Instrument circuit Ⓡ controls the front-panel ADRS'D and REM LEDs. LADR lights the ADRS'D LED, and LRMT lights the REM LED. This circuit also controls LIPS, which is equivalent to pressing .

Instrument Bus Address Decoder Ⓡ

Three Instrument Bus addresses are decoded by the Instrument Bus Address Decoder Ⓡ. Two of these addresses strobe data from the Instrument Bus into register U22 Ⓠ. The remaining address enables the three-state register U21 Ⓧ onto the Instrument Bus. U25A Ⓡ differentiates between the two addresses strobed into U22.

Interrupts Ⓡ

A13 has circuitry to interrupt the Microprocessor Ⓧ under the following conditions:

- REN goes false (U14D).
- IFC goes true (U14C).
- ATN goes true (U1A pin 1).
- LRTL goes true (U25B pin 10);  pressed on front panel.
- Input received from Instrument Bus (U14A).

Device Select Decoder **ⓐ**

The Device Select Decoder selects the register or buffer to be written into or read by the Processor **ⓑ**.

Bus Pullup/Clamp **ⓓ**

The Bus Pullup/Clamp is a resistor-diode network used to improve the rise time of the A13 Data Bus.

HP-IB Transceiver Control **Ⓜ**

The TALK and LISTEN control lines from the Processor **ⓑ** are not affected by HP-IB Transceiver Control when ATN is false on the HP-IB. When ATN is true, a LISTEN condition is forced to the HP-IB Transceiver drivers **ⓓ**.

HP-IB Address Switch **ⓓ**

The HP-IB Address Switch, when selected by the Device Select Decoder **ⓐ**, puts the switch setting on the A13 Data Bus. The normal setting is 31 (all switches closed). Another setting is used only when a specific address is desired on every power-up.

Microprocessor Supply Control **Ⓚ**

The Microprocessor Supply Control **Ⓚ** sets the back gate voltage (V_{BG}) of the Microprocessor **ⓑ** with R6 and R7. Q3 is used to regulate +12V down to +9V. Q4 holds off the +9V until the instrument power-up (HPUP) line is true.

The Microprocessor is designed so that it begins operation at ROM location \emptyset of the Program Memory **ⓔ** when +9V is turned on. Thus when HPUP goes true, indicating that all power supplies are ready, operation begins at a known point.

Microprocessor **ⓑ**

Pins 31 through 36 of Microprocessor U11 are called Direct Control Lines. Each has an internal pullup and an active pulldown; in addition, the condition of each line can be tested by the Microprocessor. These lines can also be pulled down externally. Each pin except for power and ground has an internal pullup.

Signature Analysis

The Signature Analysis (SA) test begins at location \emptyset of the ROM **ⓔ** and takes advantage of the power-up characteristics described above. (Refer to paragraph 9-11 for a further description of Signature Analysis.) U20 **Ⓚ** is used only with the SA Test Extender Board. However, the SA test routine is executed once at every power-up. This test “wiggles” all HP-IB lines; therefore, the spectrum analyzer will abort any current operation when it is turned on.

Table 7-5. A13 HP-IB Interface, Replaceable Parts (1 of 2) (CHANGE B)

Reference Designation	HP Part Number	Qty	Description	Mfr. Code	Mfr Part Number
A13	85680-60023	1	BOARD ASSY: HP-IB INTERFACE	28480	85680-60023
A13C1	0180-0229	4	CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C2	0160-2055	13	CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C3	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C4	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C5	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C6	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C7			NOT ASSIGNED		
A13C8	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C9	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C10	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C11	0180-0229		CAPACITOR-FXD 33UF ±10% 10VDC	04200	150D336X9010B2
A13C12	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C13	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C14	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C15	0180-0116	1	CAPACITOR-FXD 6.8UF ±10% 35VDC	04200	150D685X9035B2
A13C16	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C17	0160-4298	1	CAPACITOR-FXD 4700PF ±20% 250VDC	04200	C067F251H472M522-CDH
A13C18	0180-0228	1	CAPACITOR-FXD 22UF ±10% 15VDC	04200	150D226X9015B2
A13C19	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C20	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13C21			NOT ASSIGNED		
A13C22	0160-0945	1	CAPACITOR-FXD 910PF ±5% 300VDC	28480	0160-0945
A13C23	0160-2055		CAPACITOR-FXD .01UF +80-20% 100VDC	28480	0160-2055
A13CR1	1901-0518	7	DIODE-SCHOTTKY	28480	1901-0518
A13CR2	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR3	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR4	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR5	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR6	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13CR7			NOT ASSIGNED		
A13CR8	1901-0518		DIODE-SCHOTTKY	28480	1901-0518
A13E1	1251-4832	1	JUMPER-PROGRAMMING	28480	1251-4832
A13J1	1251-3283	1	CONNECTOR-24-PIN F MICRORIBBON	28480	1251-3283
A13J2	1200-0655	1	SOCKET-18-CONTACT	28480	1200-0655
A13L1	08558-80011	3	COIL-FILTER BLUE	28480	08558-80011
A13L2	08558-80011		COIL-FILTER BLUE	28480	08558-80011
A13L3	08558-80011		COIL-FILTER BLUE	28480	08558-80011
A13MP1	85680-60115	2	STANDOFF-METRIC THREAD	28480	85680-60115
A13MP2	2190-0034	2	WASHER-LOCK HLCL NO. 10 .194 IN ID	28480	2190-0034
A13MP3	1530-1098	2	CLEVIS-.070 IN SLIT .454 IN PIN CTR	28480	1530-1098
A13MP4	2200-0143	2	SCREW-MACH 4-40 .375 IN LG PAN HD-POZI-DRIV	28480	2200-0143
A13MP5	2260-0002	2	NUT-HEX DBL CHAM 4-40 .062 IN THK	28480	2260-0002
A13MP6	2190-0004	2	WASHER-LOCK INT T NO. 6 .115 IN ID	28480	2190-0004
A13MP7	85680-00053	1	GROUND SPRING-HP-IB	28480	85680-00053
A13Q1	1854-0477	4	TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13Q2	1854-0477		TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13Q3	1854-0477		TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13Q4	1854-0477		TRANSISTOR-NPN 2N2222A TO-18	02237	2N2222A
A13R1			NOT ASSIGNED		
A13R2			NOT ASSIGNED		
A13R3	0698-3150	1	RESISTOR-2.37K 1% .125W	03292	C4-1/8-TO-2371-F
A13R4	0757-0420	1	RESISTOR-750 1% .125W	03292	C4-1/8-TO-750R
A13R5	0757-0394	1	RESISTOR-51.1 1% .125W	03292	C4-1/8-TO-51R1-F
A13R6	0757-0428	1	RESISTOR-1.62K 1% .125W	03292	C4-1/8-TO-1621-F
A13R7*	0757-0280	1	RESISTOR-FXD 1.0K V _{BG} =-2.0V	03292	C4-1/8-TO-1001-F
A13R7*	0757-1094		RESISTOR-FXD 1.47K V _{BG} =-2.5V	03292	C4-1/8-TO-1471-F
A13R7*	0698-0084		RESISTOR-FXD 2.15K V _{BG} =-3.0V	03292	C4-1/8-TO-2151-F
A13R7*	0698-3152		RESISTOR-FXD 3.48K V _{BG} =-3.5V	03292	C4-1/8-TO-3481-F
A13R7*	0757-0200		RESISTOR-FXD 5.62K V _{BG} =-4.0V	03292	C4-1/8-TO-5621-F
A13R7*	0757-0443		RESISTOR-FXD 11K V _{BG} =-4.5V	03292	C4-1/8-TO-1102-F
A13R7*	0698-3450		RESISTOR-FXD 42.2K V _{BG} =-5.0V	03292	C4-1/8-TO-4222-F
A13R8			NOT ASSIGNED		
A13R9	0698-3159	2	RESISTOR-26.1K 1% .125W	03292	C4-1/8-TO-2612-F
A13R10	0757-0442	1	RESISTOR-10K 1% .125W	03292	C4-1/8-TO-1002-F

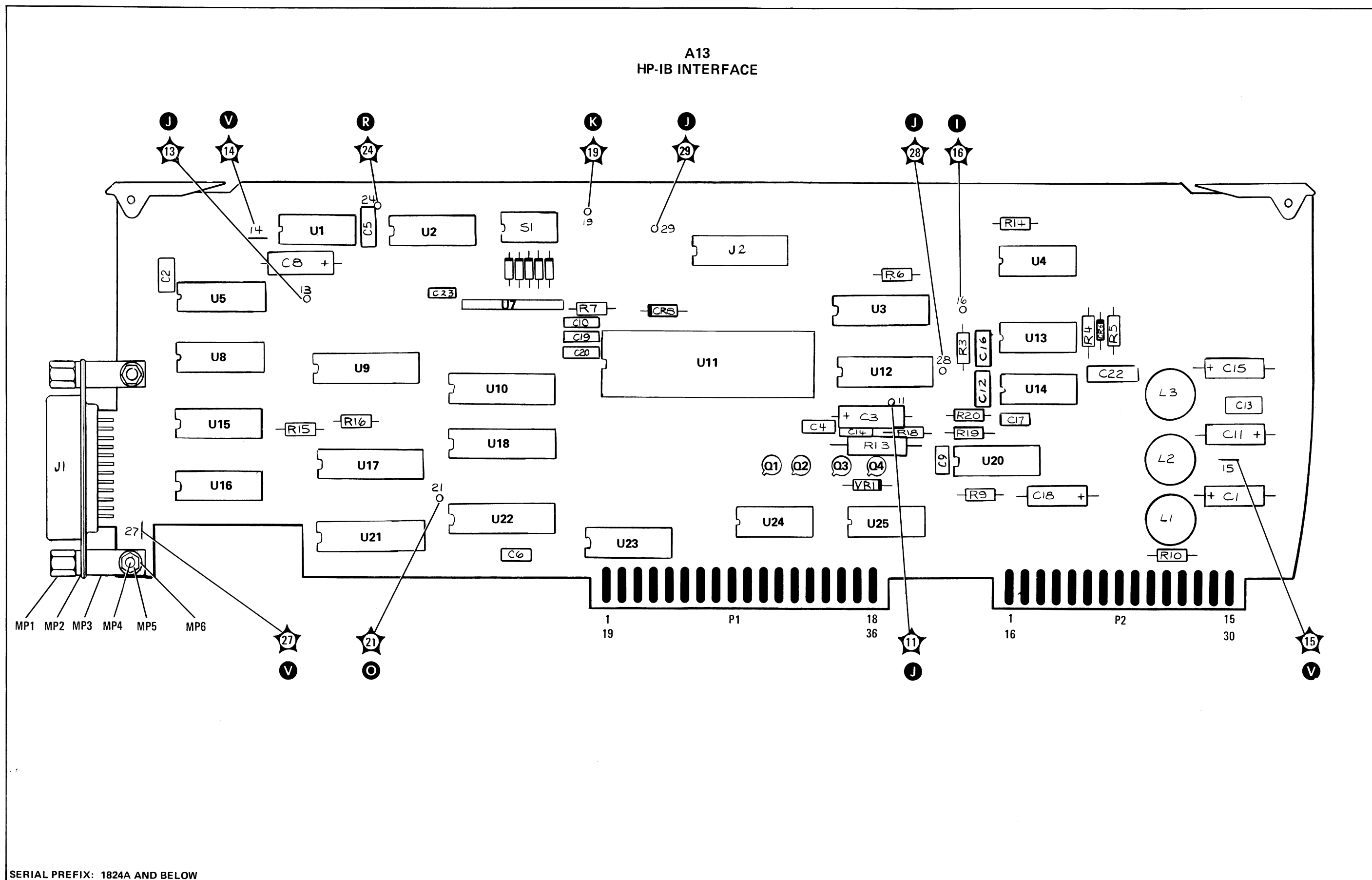
Table 7-5. A13 HP-IB Interface, Replaceable Parts (2 of 2) (CHANGE B)

Reference Designation	HP Part Number	Qty	Description	Mfr. Code	Mfr Part Number
A13R11			NOT ASSIGNED		
A13R12			NOT ASSIGNED		
A13R13	0698-3334		RESISTOR-178 1% .5W	05524	MFF-1/2-10
A13R14	0757-0280	1	RESISTOR-1K 1% .125W	03292	C4-1/8-TO-1001-F
A13R15	0757-0438	2	RESISTOR-5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A13R16	0757-0438		RESISTOR-5.11K 1% .125W	03292	C4-1/8-TO-5111-F
A13R17			NOT ASSIGNED		
A13R18	0698-0083	1	RESISTOR-1.96K 1% .125W	03292	C4-1/8-TO-1961-F
A13R19	0757-0418	1	RESISTOR-619 1% .125W	03292	C4-1/8-TO-619R-F
A13R20	0698-3159		RESISTOR-26.1K 1% .125W	03292	C4-1/8-TO-2612-F
A13S1	3101-2206		SWITCH-TGL DIP 5 SWITCH	28480	3101-2206
A13TP1-					
A13TP10			NOT ASSIGNED		
A13TP11	1251-4707	14	CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13TP12			NOT ASSIGNED		
A13TP13	1251-4707		CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13TP14	1460-1489	5	WIREFORM	28480	1460-1489
A13TP15	1460-1489		WIREFORM	28480	1460-1489
A13TP16	1251-4707		CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13TP17	1460-1489		WIREFORM	28480	1460-1489
A13TP18	1460-1489		WIREFORM	28480	1460-1489
A13TP19-					
A13TP26	1251-4707		CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13TP27	1460-1489		WIREFORM	28480	1460-1489
A13TP28-					
A13TP30	1251-4707		CONNECTOR-SGL CONT .031 IN	28480	1251-4707
A13U1	1820-1201		IC-TTL 2 INPUT QUAD AND GATE	01698	SN74LS08N
A13U2	1820-1216	2	IC-TTL 3 INPUT 3-TO-8 DECODER	01698	SN74LS138N
A13U3	1816-1054	2	IC-TTL 8192-BIT PROM	02910	N825185F
A13U4	1820-1197	1	IC-TTL 2 INPUT QUAD NAND GATE	01698	SN74LS00N
A13U5	1820-1558	3	IC-TTL QUAD TRANSCEIVER	02037	MC3441P
A13U6			NOT ASSIGNED		
A13U7	1810-0326	1	DIODE ARRAY-CLAMP	28480	1810-0326
A13U8	1820-1558		IC-TTL QUAD TRANSCEIVER	02037	MC3441P
A13U9	1820-1730	2	IC-TTL D-TYPE FF POS-EDGE TRIG	01698	SN74LS273
A13U10	1820-1917	2	IC-TTL BFR LINE DRVR OCTAL	01698	SN74LS240N
A13U11	1820-1691	1	IC-MOS MICROPROCESSOR	28480	1820-1691
A13U12	1816-1054		IC-TTL 8192-BIT PROM	02910	N825185F
A13U13	1820-1416	1	IC-TTL SCHEMITT-TRIG HEX INV	01698	SN74LS14N
A13U14	1820-1199	1	IC-TTL HEX INV	01698	SN74LS04N
A13U15	1820-1558		IC-TTL QUAD TRANSCEIVER	02037	MC3441P
A13U16	1820-1522	1	IC-TTL QUAD TRANSCEIVER	02037	MC3440P
A13U17	1820-1730		IC-TTL D-TYPE FF POS-EDGE-TRIG	01698	SN74LS273
A13U18	1820-1917		IC-TTL BFR LINE DRVR OCTAL	01698	SN74LS240N
A13U19			NOT ASSIGNED		
A13U20	1820-1423	1	IC-TTL RETRIG DUAL MONOSTBL MV	01698	SN74LS123N
A13U21	1820-1997	2	IC-TTL 8 SEGMENT FF	28480	1820-1997
A13U22	1820-1997		IC-TTL 8 SEGMENT FF	28480	1820-1997
A13U23	1820-1216		IC-TTL 3-INPUT 3-TO-8 DECODER	01698	SN74LS138N
A13U24	1820-1112		IC-TTL D-TYPE FF POS-EDGE TRIG	01698	SN74LS74N
A13U25	1820-1112		IC-TTL D-TYPE FF POS-EDGE TRIG	01698	SN74LS74N
A13VR1	1902-3158	1	DIODE-BREAKDOWN 9.76V 2% .4W	02237	FZ7459
A13XU11	1200-0694	1	SKT-DIL 40-CONTACT	28480	1200-0694
			MISCELLANEOUS PARTS		
	1480-0073	2	PIN-RLL .062 IN DIA	28480	1480-0073
	4040-0749	1	EXTRACTOR-PC BOARD BROWN	28480	4040-0749
	4040-0751	1	EXTRACTOR-PC BOARD ORANGE	28480	4040-0751

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Figure 7-3. A13 HP-IB Interface, Component Locations (CHANGE B)

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A13 HP-IB INTERFACE

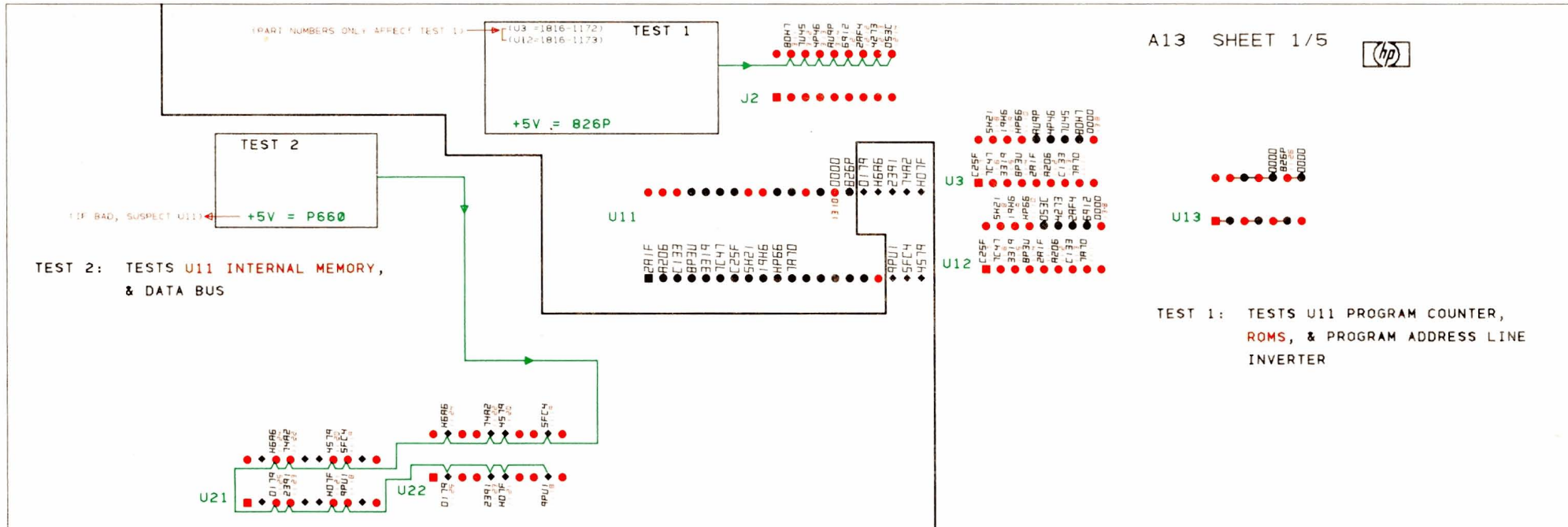


Figure 7-4. A13 HP-IB Interface, Signature Analysis Troubleshooting Diagram (1 of 5) (CHANGE B)

TEST 1

Signature Analyzer Connections:

CLOCK \swarrow to A13TP16
 START \searrow to A13TP11
 STOP \searrow to A13TP28

Spectrum Analyzer Connections:

Remove jumper from A13J2
 Install A13 board on A13 HP-IB Interface Extender board,
 HP Part No. 85680-60036.

- Unless otherwise indicated, connect Signature Analyzer POD and Probe ground leads to any convenient ground, and make sure HOLD and SELF TEST pushbuttons are out.
- Refer to Figure 9-1 for explanation and instructions for use of signature analysis troubleshooting diagrams.

TEST 2

Signature Analyzer Connections:

CLOCK \swarrow to A13TP16
 START \searrow to A13TP29
 STOP \searrow to A13TP13

Spectrum Analyzer Connections:

Install jumper in A13J2
 Install A13 board on A13 HP-IB Interface Extender board,
 HP Part No. 85680-60036.

A13 HP-IB INTERFACE

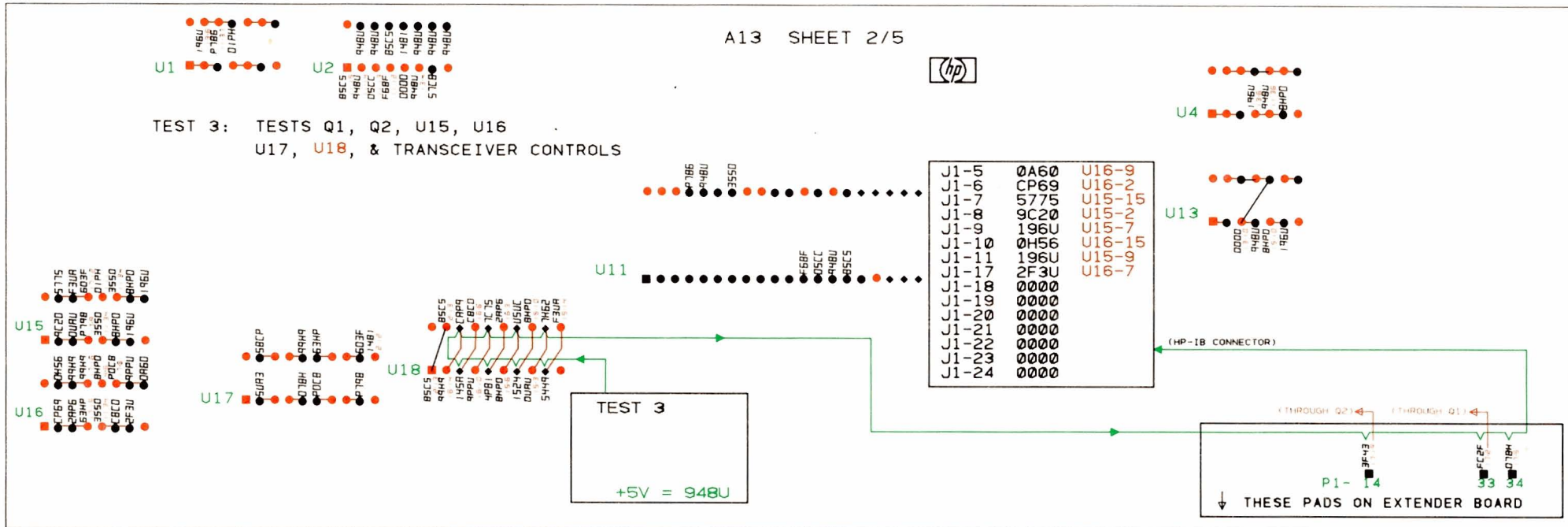


Figure 7-4. A13 HP-IB Interface, Signature Analysis Troubleshooting Diagram (2 of 5) (CHANGE B)

TEST 3

Signature Analyzer Connections:

CLOCK \curvearrowright to A13TP16
 START \curvearrowright to A13TP29
 STOP \curvearrowright to A13TP24

Spectrum Analyzer Connections:

A13J2 jumper installed.
 Install A13 board on A13 HP-IB Interface Extender board, HP Part No. 85680-60036.

- Unless otherwise indicated, connect Signature Analyzer POD and Probe ground leads to any convenient ground, and make sure HOLD and SELF TEST pushbuttons are out.
- Refer to Figure 9-1 for explanation and instructions for use of signature analysis troubleshooting diagrams.

A13 HP-IB INTERFACE

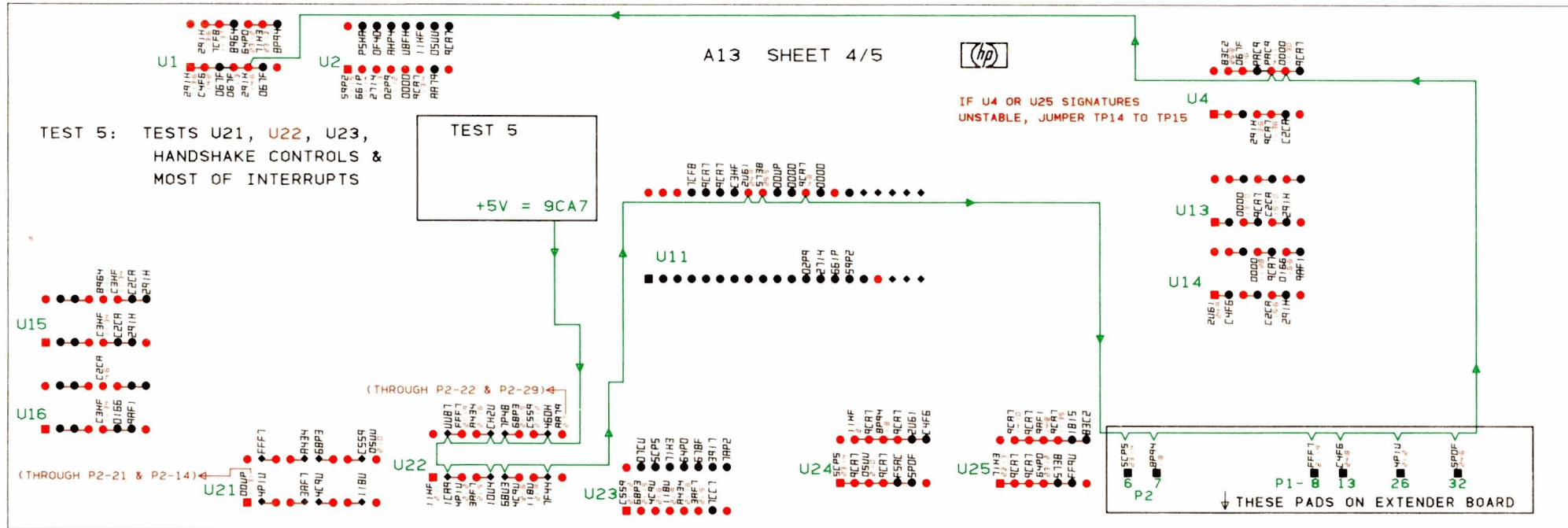


Figure 7-4. A13 HP-IB Interface, Signature Analysis Troubleshooting Diagram (4 of 5) (CHANGE B)

TEST 5

Signature Analyzer Connections:

CLOCK \swarrow to A13TP16
 START \searrow to A13TP29
 STOP \searrow to A13TP19

Spectrum Analyzer Connections:

A13J2 jumper installed.
 Install A13 board on A13 HP-IB Interface Extender board, HP Part No. 85680-60036.

- Unless otherwise indicated, connect Signature Analyzer POD and Probe ground leads to any convenient ground, and make sure HOLD and SELF TEST pushbuttons are out.
- Refer to Figure 9-1 for explanation and instructions for use of signature analysis troubleshooting diagrams.

A13 HP-IB INTERFACE

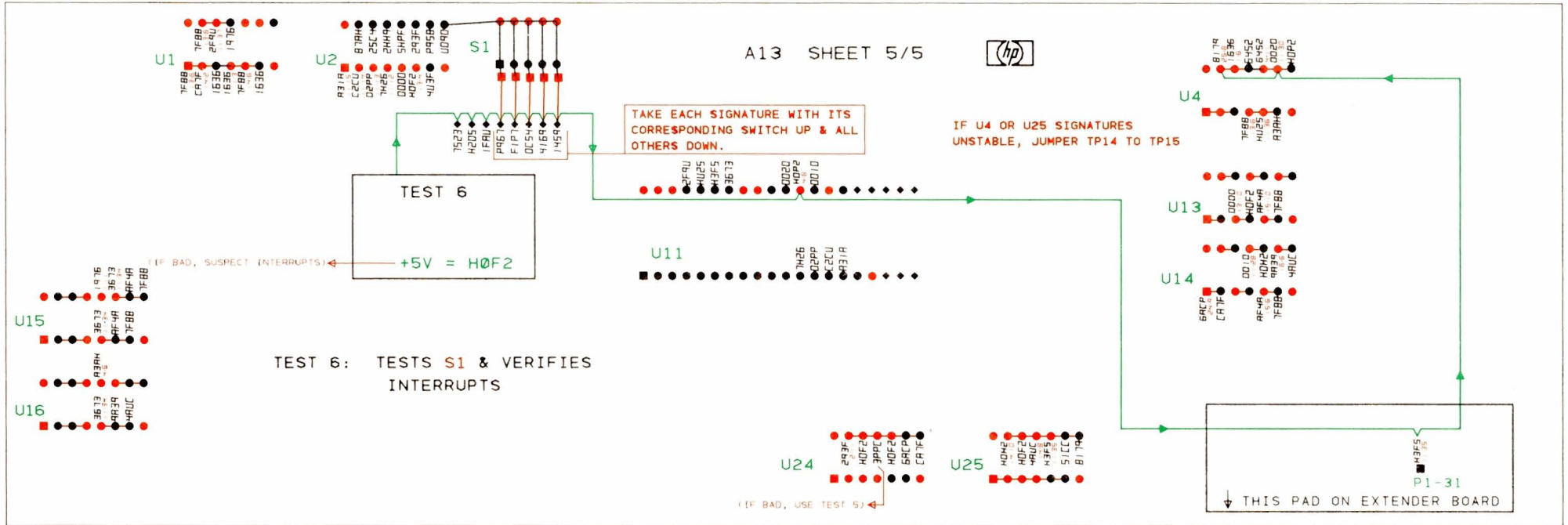


Figure 7-4. A13 HP-IB Interface, Signature Analysis Troubleshooting Diagram (5 of 5) (CHANGE B)

TEST 6

Signature Analyzer Connections:

CLOCK \swarrow to A13TP16
 START \searrow to A13TP29
 STOP \searrow to A13TP11

Spectrum Analyzer Connections:

A13J2 jumper installed.
 Install A13 board on A13 HP-IB Interface Extender board, HP Part No. 85680-60036.

- Unless otherwise indicated, connect Signature Analyzer POD and Probe ground leads to any convenient ground, and make sure HOLD and SELF TEST pushbuttons are out.
- Refer to Figure 9-1 for explanation and instructions for use of signature analysis troubleshooting diagrams.

A13 HP-IB INTERFACE

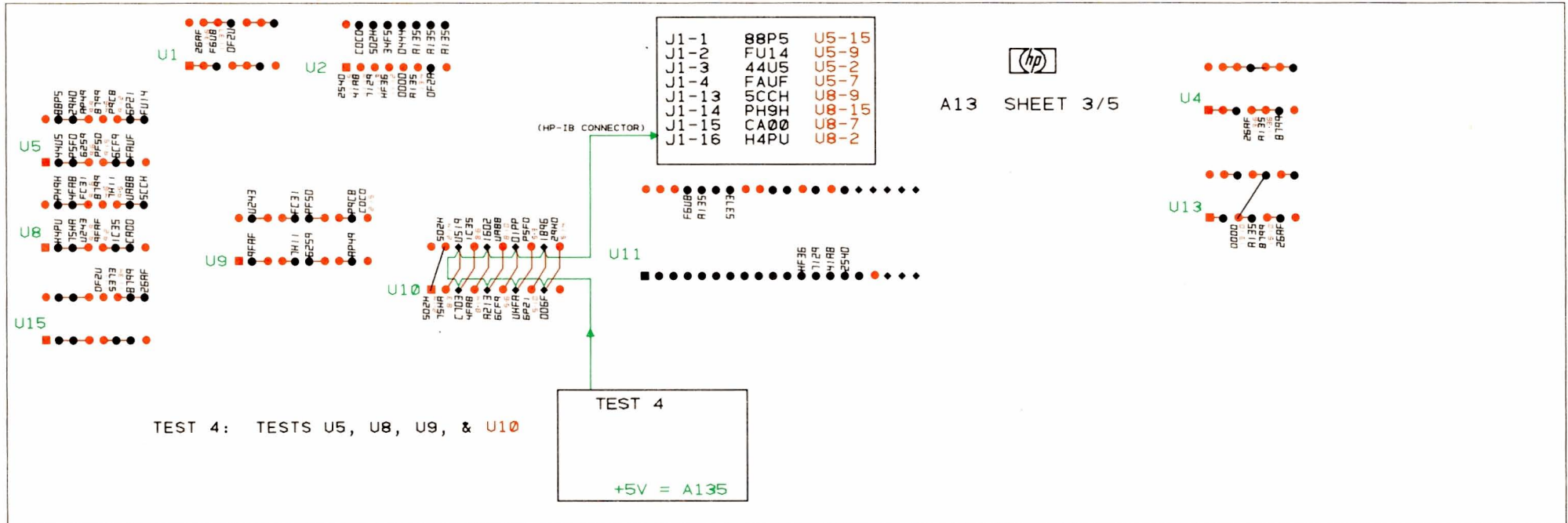


Figure 7-4. A13 HP-IB Interface, Signature Analysis Troubleshooting Diagram (3 of 5) (CHANGE B)

TEST 4

Signature Analyzer Connections:

CLOCK \swarrow to A13TP16
 START \searrow to A13TP29
 STOP \searrow to A13TP21

Spectrum Analyzer Connections:

A13J2 jumper installed.
 Install A13 board on A13 HP-IB Interface Extender board, HP Part No. 85680-60036.

- Unless otherwise indicated, connect Signature Analyzer POD and Probe ground leads to any convenient ground, and make sure HOLD and SELF TEST pushbuttons are out.
- Refer to Figure 9-1 for explanation and instructions for use of signature analysis troubleshooting diagrams.

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A13 HP-IB INTERFACE

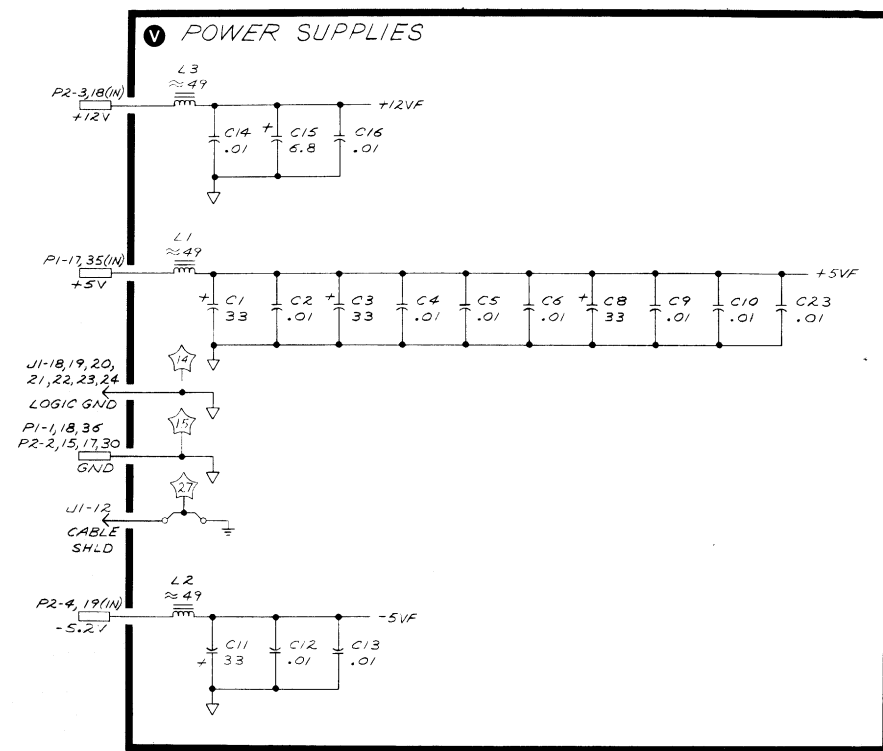
85680-60023
(SHEET 1 OF 2)

PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	GND		V
19	LBIO		S
2	ADR0		S
20	ADR1		S
3	ADR2		S
21	ADR3		S
4	ADR4		S
22	NC		
5	IOB0		U F
23	IOB1		U F
6	IOB2		U F
24	IOB3		U F
7	IOB4		U F
25	IOB5		U F
8	IOB6		U F
26	IOB7		U F
9	NC		
27	NC		
10	NC		
28	NC		
11	NC		
29	NC		
12	NC		
30	NC		
13	LHB2	A12P2-25	Q
31	LRTL	A12P2-26	H
14	LRMT	A12P2-27	N
32	LREQ	A12P2-28	Q
15	HPUP	A24P2-12	K
33	LIPS	A15P2-33	N
16	NC		
34	LADR	A12P2-16	N
17	+5V		V
35	+5V		V
18	GND		V
36	GND		V

PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	NC		
16	NC		
2	GND		V
17	GND		V
3	+12V		V
18	+12V		V
4	-5.2V		V
19	-5.2V		V
5	NC		
20	NC		
6	SEE NOTE 9		S
21	SEE NOTE 9		U
7	SEE NOTE 9		Q
22	SEE NOTE 9		Q
8	NC		
23	NC		
9	NC		
24	NC		
10	NC		
25	NC		
11	NC		
26	NC		
12	NC		
27	NC		
13	HPUP TEST		G
28	NC		
14	SEE NOTE 9		L
29	SEE NOTE 9		O
15	GND		V
30	GND		V

HP-IB CONNECTOR

PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	DIO1		A T
13	DIO5		A T
2	DIO2		A T
14	DIO6		A T
3	DIO3		A T
15	DIO7		A T
4	DIO4		A T
16	DIO8		A T
5	EOI		A T
17	REN		A T
6	DAV		A T
18	DAV GND		V
7	NRFD		A T
19	NRFD GND		V
8	NDAC		A T
20	NDAC GND		V
9	IFC		A T
21	IFC GND		V
10	SRQ		A T
22	SRQ GND		V
11	ATN		A T
23	ATN GND		V
12	CABLE SHLD		V
24	LOGIC GND		V

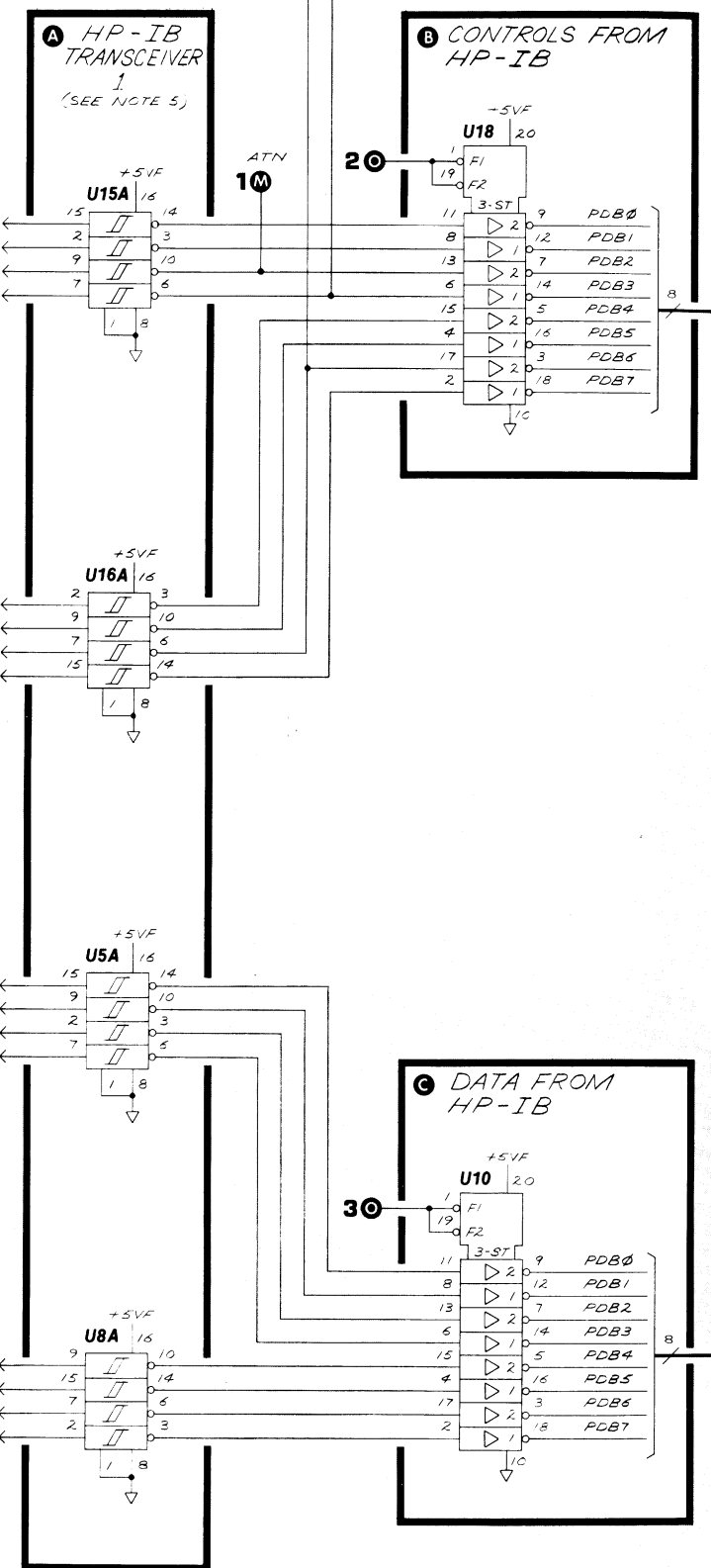


- J1-7 (IN) NRFD
- J1-8 (IN) NDAC
- J1-11 (IN) ATN
- J1-9 (IN) IFC

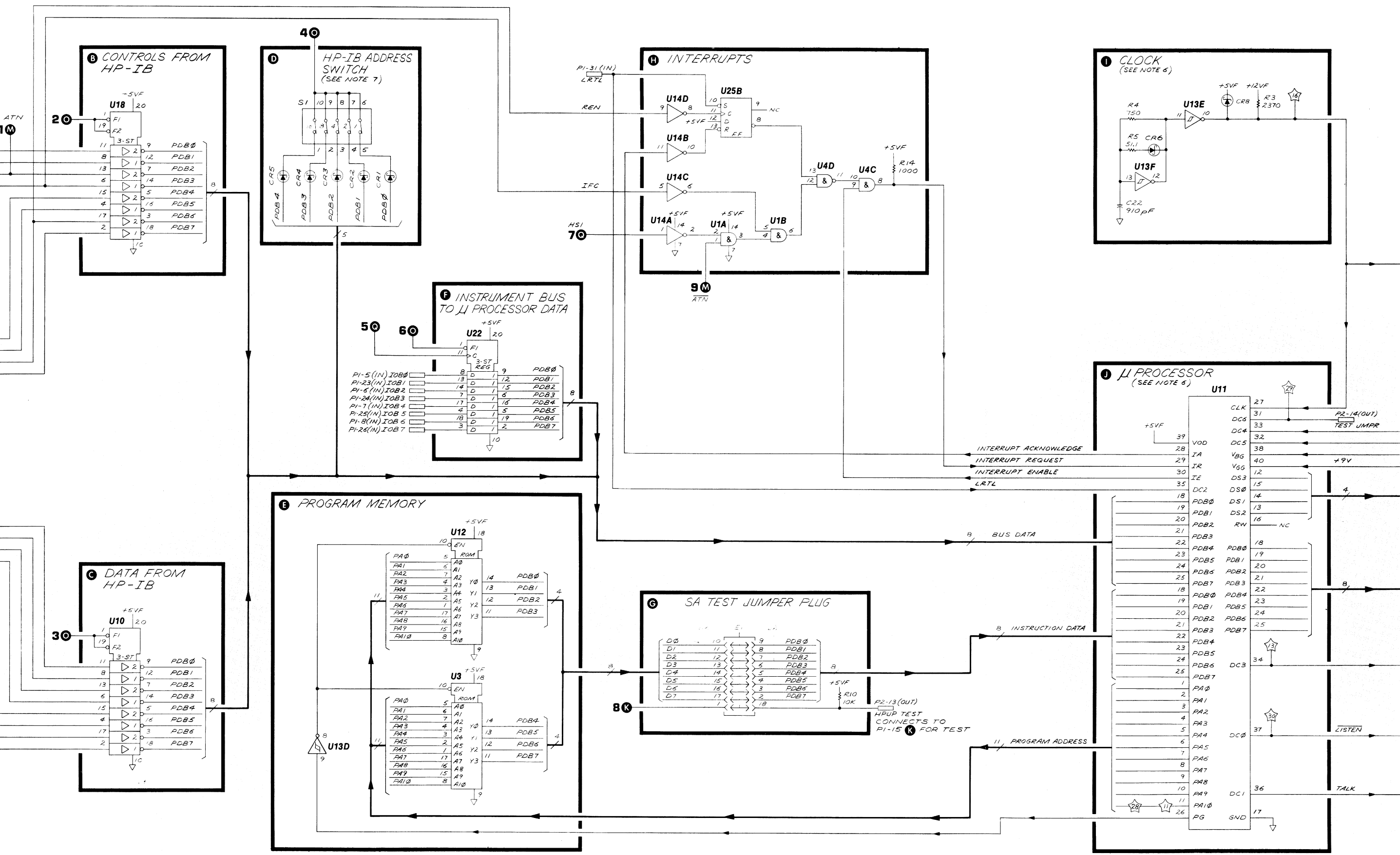
- J1-6 (IN) DAV
- J1-5 (IN) EOI
- J1-17 (IN) REN
- J1-10 (IN) SRQ

- J1-1 (IN) DIO1
- J1-2 (IN) DIO2
- J1-3 (IN) DIO3
- J1-4 (IN) DIO4

- J1-13 (IN) DIO5
- J1-14 (IN) DIO6
- J1-15 (IN) DIO7
- J1-16 (IN) DIO8

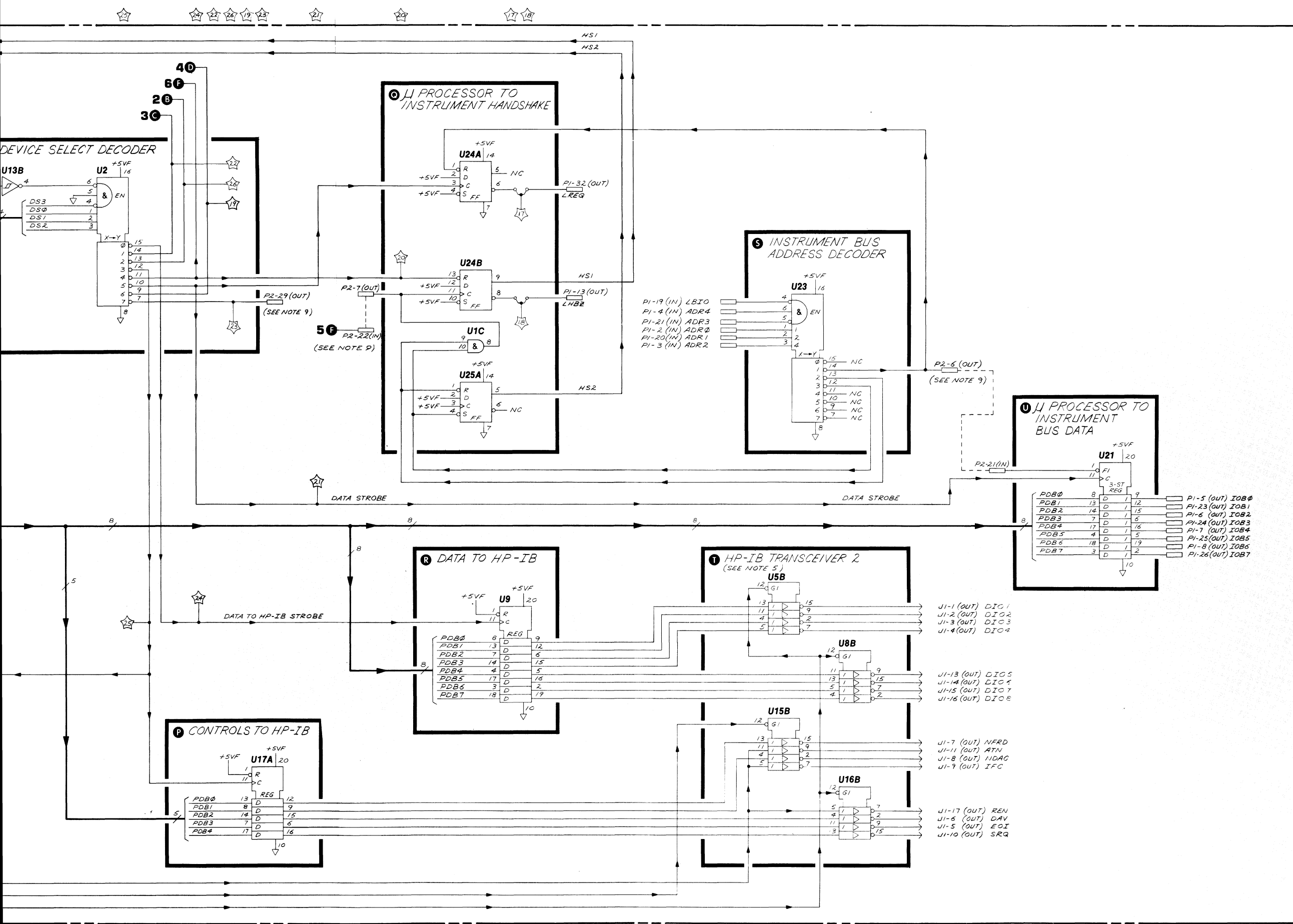


SERIAL PREFIX: 1824A DATE: APRIL, 1978



A13

Figure 7-5. A13 HP-IB Interface, Schematic Diagram (1 of 2) (CHANGE B)



- NOTES:**
- REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. PREFIX ABBREVIATION WITH ASSEMBLY NUMBER FOR COMPLETE REFERENCE DESIGNATOR.
 - UNLESS OTHERWISE INDICATED: RESISTANCE IN OHMS (Ω), CAPACITANCE IN MICROFARADS (μF), INDUCTANCE IN MICROHENRIES (μH).
 - REFER TO PARTS LIST FOR THE VALUE OF R7. THE VALUE OF V_{BB} IS STAMPED ON U11.
 - UNLESS OTHERWISE INDICATED: LOGIC LEVELS ARE TTL: +2.0V TO +5.0V = LOGIC "1", HIGH; 0V TO +0.8V = LOGIC "0" = LOW.
 - THE INPUT TERMINALS OF USA, UBA, U15A, AND U16A IN ① ARE ALSO THE OUTPUT TERMINALS OF USB, UBB, U15B, AND U16B IN ②.
 - THE U PROCESSOR AND THE CLOCK ARE SHOWN ON BOTH PAGES OF THE SCHEMATIC.
 - FACTORY HP-IB ADDRESS SWITCH SETTING IS 31, (ALL SWITCHES UP) SEE MANUAL FOR OPERATIONAL DETAILS.
 - MINEMONICS TABLE

MINEMONIC	DESCRIPTION
ADR0-4	INSTRUMENT BUS ADDRESS BITS, HIGH = TRUE
ATN *	LOW = ATTENTION TRUE
DIO1-8	HP-IB DATA BITS, LOW = TRUE
DAV *	LOW = DATA VALID
DS0-3	U PROCESSOR INPUT/OUTPUT DEVICE SELECT BITS HIGH=TRUE
EOI *	LOW = END OR IDENTIFY
4PUP	HIGH = POWER UP
HS1,2	HANDSHAKE 1, 2
IFC *	LOW = INTERFACE CLEAR TRUE
IOB0-7	INSTRUMENT BUS DATA BITS, HIGH = TRUE
LADR	LOW = ADRS'D LED ON
LBIO	LOW = RF SECTION I/O STROBE
LHBE	LOW = WORD READY FROM A15 PROCESSOR HIGH = REQUEST A WORD FROM A15 PROCESSOR
LIPS	LOW = INSTRUMENT PRESET
LREQ	LOW = WORD READY TO A15 PROCESSOR
LRMT	LOW = REMOTE HIGH = LOCAL
LRTL	LOW = LOCAL BUTTON PUSHD
NDAC *	HIGH = DATA ACCEPTED
PDB0-7	U PROCESSOR DATA BITS, HIGH = TRUE
NRFD *	HIGH = READY FOR DATA
REN *	LOW = REMOTE ENABLE
SRQ *	LOW = SERVICE REQUEST

9. FOR NORMAL OPERATION P2-6 CONNECTS TO P2-21 AND P2-7 CONNECTS TO P2-22. P2-14 AND P2-29 ARE UNCONNECTED.

TEST POINT INFORMATION TABLE:

T. P.	SIGNAL PRESENT
11	PROGRAM ADDRESS 10
13	U PROCESSOR TEST LINE
14, 15	GROUND
16	CLOCK
19	ADDRESS SWITCH STROBE
21	U PROCESSOR TO INSTRUMENT BUS DATA STROBE
24	DATA TO HP-IB STROBE
27	HP-IB CABLE SHIELD
28	U PROCESSOR ADDRESS BIT 10 (PA10)
29	U PROCESSOR (DC6)

A13

Figure 7-5. A13 HP-IB Interface, Schematic Diagram (2 of 2) (CHANGE B)

Table 7-6. Model 8568A Replaceable Parts (Cont'd) (CHANGE B)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15	85680-60021	1	BOARD ASSEMBLY, PROCESSOR	28480	85680-60021
A15C1	0160-4084	12	CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C2	0180-0197	4	CAPACITOR=FXD 2.2UF +/-10% 20VDC TA	56289	150D225X9020A2
A15C3	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C4	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C5	0180-0197		CAPACITOR=FXD 2.2UF +/-10% 20VDC TA	56289	150D225X9020A2
A15C6	0180-0197		CAPACITOR=FXD 2.2UF +/-10% 20VDC TA	56289	150D225X9020A2
A15C7	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C8	0180-0197		CAPACITOR=FXD 2.2UF +/-10% 20VDC TA	56289	150D225X9020A2
A15C9	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C10	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C11	0140-0197	2	CAPACITOR=FXD .180PF +/-5% 300VDC MICA	72136	DM15F181J0300HV1CR
A15C12	0140-0197		CAPACITOR=FXD .180PF +/-5% 300VDC MICA	72136	DM15F181J0300HV1CR
A15C13	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C14	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C15	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C16	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C17	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C18	0180-2214	1	CAPACITOR=FXD .90UF +/-75% 10% 16VDC AL	56289	30D90G010CC2
A15C19	0160-4084		CAPACITOR=FXD .1UF +/-20% 50VDC CER	28480	0160-4084
A15C20	0160-3879	1	CAPACITOR=FXD .01UF +/-20% 100VDC CER	28480	0160-3879
A15C21	0160-2209	1	CAPACITOR=FXD 360PF +/-5% 300VDC MICA	28480	0160-2209
A15CR1	1901-0535	2	DIODE=SCHEUTTKY	28480	1901-0535
A15CR2	1901-0535		DIODE=SCHEUTTKY	28480	1901-0535
A15CR3	1901-0050	1	DIODE=SMITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A15J1	1251-4222	1	CONNECTOR 50-PIN F MICRO RIBBON	28480	1251-4222
A15MP1	85680-60114	2	STANDOFF-SAE THREAD	28480	85680-60114
A15MP2	2190-0034	2	WASHER-LOCK HLCL NO.10 /194"ID	28480	2190-0034
A15MP3	1530-1098	2	CLEVIS-.070"SLIT .454"PIN CTR	28480	1530-1098
A15MP4	2200-0143	2	SCREW-MACH 4-40 .375"LG PAN HD-POZI DRIVE	28480	2200-0143
A15MP5	2260-0002	2	NUT-HEX DBL CHAM 4-40 .062" THK	28480	2260-0002
A15MP6	2190-0004	2	WASHER-LOCK INT T NO.6 .115"ID	28480	2190-0004
A15Q1	1854-0019	1	TRANSISTOR NPN 81 TO-18 PD=360MW	28480	1854-0019
A15Q2	1854-0637	1	TRANSISTOR NPN 2N2219A SI TO-5 PD=800MW	28480	1854-0637
A15R1	0698-7225	6	RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0-348R-G
A15R2	0698-3601	1	RESISTOR 10 5% 2W MO TC=0+-200	27167	FP42-2-T00-10R0-J
A15R3	0698-7260	1	RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1002-G
A15R4	0698-7260	6	RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1002-G
A15R5	0757-0442	6	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A15R6	0698-7260		RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1002-G
A15R7	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A15R8	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0-348R-G
A15R9	0698-7260		RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1002-G
A15R10	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A15R11	0698-3437	1	RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0-133R-F
A15R12	0698-7236	10	RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A15R13	0698-7268	3	RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-G
A15R14	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A15R15	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0-348R-G
A15R16	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A15R17	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A15R18	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0-348R-G
A15R19	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A15R20	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A15R21	0698-7260		RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1002-G
A15R22	0698-7243	1	RESISTOR 1.96K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1961-G
A15R23	0698-7260		RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1002-G
A15R24	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A15R25	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A15R26	0698-7193	2	RESISTOR 16.2 1% .05W F TC=0+-100	24546	C3-1/8-T00-16R2-G
A15R27	0698-7193		RESISTOR 16.2 1% .05W F TC=0+-100	24546	C3-1/8-T00-16R2-G
A15R28	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A15R29	0698-7268		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-G
A15R30	0757-0280	2	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A15R31	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A15R32	0698-7268		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-G
A15R33	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0-348R-G
A15R34	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A15R35	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0-348R-G
A15R36	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A15R37	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G
A15R38	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1001-G

Table 7-6. Model 8568A Replaceable Parts (Cont'd) (CHANGE B)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15TP1	1251-5177	13	CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP2	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP3	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP4	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP5	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP6	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP7	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP8	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP9	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP10	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP11	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP12	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP13	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15U1	1820-1144	1	IC GATE TTL LS NOR QUAD 2-INP	01295	SN74LS02N
A15U2	1820-1492	2	IC BFR TTL LS INV HEX 1-INP	01295	SN74LS368N
A15U3	1820-1492		IC BFR TTL LS INV HEX 1-INP	01295	SN74LS368N
A15U4	1820-1288	1	IC DRVR TTL/MOS CLOCK DRVR 1-INP	04713	MMH0026CL
A15U5	1826-0180	1	IC 555 8=DIP-P	18324	NE555V
A15U6	1820-1277	1	IC CNTR TTL LS DECD UP/DOWN SYNCHRO	01295	SN74LS192N
A15U7	1820-1195	1	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	SN74LS175N
A15U8	1820-1199	1	IC INV TTL LS HEX 1-INP	01295	SN74LS04N
A15U9	1820-1198	1	IC GATE TTL LS NAND QUAD 2-INP	01295	SN74LS03N
A15U10	1820-1416	1	IC SCHMITT-TRIG TTL LS INV HEX 1-INP	01295	SN74LS14N
A15U11	1820-1204	1	IC GATE TTL LS NAND DUAL 4-INP	01295	SN74LS20N
A15U12	1820-0681	1	IC GATE TTL S NAND QUAD 2-INP	01295	SN74800N
A15U13	85680-60100	1	MICRO PROCESSOR	28480	85680-60100
A15U14	1906-0075	2	DIODE-ARRAY 40V 400MA	28480	1906-0075
A15U15	1810-0338	2	NETWORK-RES 16=PIN=DIP .1=PIN=SPCG	11236	761-3-R100
A15U16	1906-0075		DIODE-ARRAY 40V 400MA	28480	1906-0075
A15U17	1810-0338		NETWORK-RES 16=PIN=DIP .1=PIN=SPCG	11236	761-3-R100
A15VR1	1902-0072	1	DIODE-ZNR 7.87V 2% DO-7 PD=.4W TC=+.051%	28480	1902-0072
A15VR2	1902-3048	1	DIODE-ZNR 3.48V 5% DO-7 PD=.4W TC=-.058%	28480	1902-3048
			A15 MISCELLANEOUS PARTS		
	1480-0073	2	PIN-ROLL .062-IN=DIA .25-IN=LG BE=CU	28480	1480-0073
	4040-0749	1	EXTRACTOR-PC BOARD BRN POLYC	28480	4040-0749
	4040-0753	1	EXTRACTOR-PC BOARD GRN POLYC	28480	4040-0753

A15

PROCESSOR, CIRCUIT DESCRIPTION (CHANGE B)

A15 Processor contains a 16-bit MOS hybrid processor that controls the spectrum analyzer. It receives the operator's inputs from the keyboard, does all the necessary decoding and calculations, and then outputs the proper controls to execute a specific operation. Some examples of such an operation are: phase lock the YIG-Tuned Oscillator (YTO), tune the Voltage-Tuned Oscillator (VTO), select the correct scan time, and frequency span width, set the IF Section to the correct bandwidth and sensitivity, and display the control settings on the CRT through A3 Digital Storage. A15 also controls and reads the output of an 8-digit counter that is used in tuning and phase locking the spectrum analyzer and in determining the input signal frequency. A15 can communicate with an external controller (such as the HP 9825A Calculator) via A13 HP-IB Interface.

Memory Interface

The instructions that determine how to perform the above mentioned functions are stored in Read-Only Memory (ROM) in A14 Memory. A15 communicates with A14 via the 16-bit bidirectional LIDA (Low Instruction Data Address) Bus and three control Lines: HSTM, LSOB, and LWRT. At the beginning of an instruction sequence, the Processor outputs the address of the next instruction onto the LIDA Bus and forces HSTM (High Start Memory) high. This positive edge of HSTM is used to clock the Memory Address Register in A14 Memory. LSOB (Low Stay Off Bus) next goes high, the Processor no longer drives the bus, and A14 outputs the 16-bit instruction onto the bus lines, where it is read by the Processor. U11A decodes the LSOB signal from HSTM, $\overline{\text{PDR}}$ (Processor Data Read), $\overline{\text{WR}}$ (Write), and $\overline{\text{RAL}}$ (Register Address Line). The time between the positive edge of HSTM and the time the Processor reads the data from the bus is determined by the Delay After STM circuit. The BCD counter U6 is preset to 6 (0110). Two clock pulses after STM goes high (counter = 8), $\overline{\text{UMC}}$ (Unsynchronous Memory Complete) is pulled low by U8 pin 12, indicating memory complete. The instruction read by the Processor is now decoded and executed. If the instruction requires a memory fetch, the above sequence is repeated, but data is read from memory instead of an instruction. If a write to the CMOS RAM (Random Access Memory) in A14 Memory is required, the $\overline{\text{WR}}$ line from the hybrid Processor goes low, forcing LSOB to stay low, and U11B decodes the write pulse (LWRT).


Processor Clock

The clock for the Processor is obtained from the system 10-MHz clock. It is buffered by Q1, U10F, and U2E and divided by 2 by U7. U12 and U4 take the 5-MHz output of U7 and generate the two 12-volt, non-overlapping clocks required by the Processor.

Power Supplies

The power supplies for the Processor are +12V, +7V, +5V, and -5V. The +7V is obtained from +12V by Q2 and VR1. The LIDA Bus lines are clamped by diodes U13 and U15 to a +3.5V supply generated by VR2. The resistor arrays U14 and U16 provide damping on the LIDA lines to prevent excessive ringing and overshooting in A14 Memory.

Processor Reset

The hybrid Processor reset line is $\overline{\text{POP}}$ (Power On Preset). Whenever this line goes low, the hybrid Processor is reset and forced to execute instruction 40g as soon as the line returns high. Whenever  is pressed on the front panel (when the instrument is not in remote), the LIPS (Low Instrument Preset) signal goes low. It is ANDed with HPUP (High Power UP) by diodes CR1 and CR2. U7 synchronizes this signal and drives the $\overline{\text{POP}}$ line.

A 555 timer U5 is used in A15 Processor to assist in troubleshooting the hybrid Processor and the memory handshake logic. The timer, normally off, is enabled by jumpering +5V to TP1. The timer output, TP7, is then jumpered to LIPS, TP4.

Input/Output Interface


The Processor outputs and reads information to and from the rest of the instrument on the 16-bidirectional IOB Lines, using five address lines (ADR0 through ADR4) and two strobe lines: LTIO for the IF-Display Section and LBIO for the RF Section. Each device on the bus has one or more addresses assigned to it. To talk to the device, the Processor outputs the data on the Instrument Bus and the address on the ADR lines, which are buffered by U3. It then generates a strobe pulse, decoded by U1 and U2, to clock the data into the listening device. If it is a read address, the Processor does not enable its data outputs but instead reads the data which the addressed device puts on the bus during the strobe pulse.

Four additional lines are used by the Processor. The LDSR (Low Digital Storage Ready) line is the handshake line with A3 Digital Storage in the IF-Display Section. The line is normally low, indicating that digital storage is ready to accept/output additional data from/to the Processor. The second line, STATUS, is connected to TP8 in A15 Processor and is used to enable test modes in the instrument. The third line is the LSRQ (Service Request) line from A12 RF Section Interface. When low, it indicates that some device, such as the keyboard, Rotary Pulse Generator (RPG), HP-IB, etc., needs servicing. These three lines are directly tested by the Processor. The fourth line, LSTP, is used to actually stop and start the Processor. During retrace, the Processor services the bus devices; that is, it updates digital storage, phase locks the YTO, etc. When everything is completed and LSRQ is high, the Processor starts the sweep (in FREE RUN mode) by issuing a trigger to A3A1 Trigger in the IF-Display Section. It then issues the command to A12 RF Section Interface that forces LSTP low, shutting the Processor off. LSTP is buffered and synchronized in A15 Processor by U1 and U7. U9A, an open-collector gate, then pulls SYNC low, stopping the hybrid Processor. The Processor remains shut off during the sweep until service is requested (i.e., HSWP is forced low by digital storage at the end of the sweep or a front-panel key is pressed), LSRQ is forced low, and LSTP goes high. The LSTP line also goes to the IF-Display Section, where it is pulled low if the +5V supply is down. A15TP3 can be jumpered high during troubleshooting to prevent the Processor from being stopped.

RF SECTION DIGITAL TROUBLESHOOTING (CHANGE B)



PRELIMINARY CHECKS

Instrument Preset Check

The two red INSTR CHECK LEDs are forced on whenever the instrument is turned on or  is pushed. The A15 Processor then performs a self check of itself, a checksum verification of all the ROMs on A14 Memory, a partial check of the IOB interface bus, and a read-write check of the RAMs in the A3 Digital Storage. If all the checks pass, both INSTR CHECK LEDs go out.

If the checks fail, one or more of the INSTR CHECK LEDs remain on.

- a. Both LEDs on indicates an A14 Memory or A15 Processor problem. First check to see that A14 and A15 are pushed completely into their edge connectors.
- b. Left LED on indicates a failure occurred when checking Digital Storage memory. First check to see that the Analyzer Bus Interconnect Cable, W31, is connected properly.
- c. Right LED on indicates a failure during the partial interface check.



The partial interface check reads the key column lines from the A5 front panel. If any key, except , is pressed when the  is pressed, the right INSTR CHECK LED should stay on. This can be used to verify that the check routine is working and that a particular key is working.

Use the Fault Tables listed in A14/A15 Troubleshooting to further isolate the source of the failure.

“LONG POP” Instrument Preset Check (Jumper A15TP8 [STS] to A14TP9 [T3])

This check is very similar to the normal INSTR PRESET check; an additional A15 Processor check is performed, all of the RAM locations in Digital Storage are checked, and the CMOS memory on A14 is verified.

HP-IB Verification

When the instrument is turned on, keep the  key pressed. The ADRS'D LED should flash until the  key is released and the A15 Processor acknowledges the HP-IB request. If it doesn't flash, the A13 HP-IB Processor is malfunctioning. All cables must be removed from the HP-IB connector, A13J1. All normal front panel operations should work with A13 removed to further enable failure isolation.

See the listing of HP-IB “bugs” in Section III for modes of operation which may be other than what would normally be expected.

Phase Lock and Counter Inhibit (Jumper A15TP8 [STS] to A14TP11 [T1])

Following INSTR PRESET, the processor performs the phase lock inhibit function and ignores the A17 Frequency Counter. (20 MHz is substituted for all frequency counts.) Removing the jumper re-enables the counter. If the analyzer stops sweeping immediately after the jumper is removed, the A17 Frequency Counter is malfunctioning.

Digital Storage Verification

The above INSTR PRESET check does a fairly complete verification of the Digital Storage controller and Memory. An additional check can be done, independent from the RF section, by jumpering A3A6TP3 to A3A6TP6 and pushing A3A7S1 momentarily. A test pattern should appear on the display. See the Digital Storage Troubleshooting notes for more detail. Note that when the jumper is connected, the left check LED always stays on following an INSTR PRESET, since in the test pattern mode, Digital Storage ignores all instructions from A15 Processor.

A14 MEMORY AND A15 PROCESSOR, TROUBLESHOOTING (FAULT TABLES) (CHANGE B)

ROM/Processor Check (Both INSTR CHECK LEDs on.)

SIGNATURE ANALYZER SETUP: CLOCK \sphericalangle A14TP8 (HSTM)
 START \sphericalangle A14TP12 (T0)
 STOP \sphericalangle A14TP11 (T1)

GROUND A15TP8 (STS). PUSH  . NOTE 5VDC SIGNATURE.

Table 7-7. ROM Fault Table

5 VDC SIGNATURE	COURSE OF ACTION	
UCF4	ROM IS GOOD. PROCEED TO RAM CHECK.	
U789	REPLACE HYBRID PROCESSOR A15U13.	
	Suspect ROM ¹	ROM Chip Select Signature ¹
05C7	U6/U14	929U at U28 PIN 10
095A	U19/U32	
0F25	U3/U11	9COH at U28 PIN 13
2986	U7/U15	CPAP at U28 PIN 9
2HP3	(U1/U9) ²	
31HP	U4/U12	A6U6 at U28 PIN 12
34P5	U5/U13	A3FH at U28 PIN 11
394U	U21/U34	
512U	U18/U31	
5PUC	U8/U16	F9H3 at U28 PIN 7
61A0	U23/U36	
6HF5	U22/U35	
77A0	U20/U33	
78FP	U17/U30	
CH44	U2/U10	2A6F at U28 PIN 14
CPU1	U24/U37	

¹ Before replacing any ROMs, verify that the ROM Chip Select Signature is correct.

If the Chip Select Signature is incorrect, the “Free-Running POP” test listed in the A14 Memory/A15 Processor Troubleshooting must be performed to check the Memory Address Register (MAR) and the Memory Select Decoder. 500 ns pulses will be present on the LCS0-7 lines (U28) of the Memory Select Decoder. At the rising edge of the 2nd HSTM pulse 1.25 μ s pulses will be present on the MAR lines. Except for MAR5, all will be positive going transitions. (See Figure 7-8 for A14 Memory Timing Waveforms.)

If no signature can be obtained after double checking the setup, refer to A14/A15 Memory Timing Sequence and A14/A15 Troubleshooting.

² or BAD MEMORY ADDRESS REGISTER (See A14/A15 Troubleshooting)

RAM Check (Both INSTR CHECK LEDs on following a “LONG POP”)

SIGNATURE ANALYZER SETUP: CLOCK \sphericalangle A14TP8 (HSTM)
 START \sphericalangle A14TP11 (T1)
 STOP \sphericalangle A14TP10 (T2)

GROUND A15TP8 (STS). PUSH  . NOTE 5 VDC SIGNATURE.

Table 7-8. RAM Fault Table

5 VDC SIGNATURE	COURSE OF ACTION			
PF59	RAM IS GOOD. PROCEED TO PARTIAL INTERFACE CHECK.			
	Bad Bit	RAM IC	RAM Pin 7 ¹ Signature	RAM Buffer
OF71 11HC 3OU7 3C75 6520 6PA4 708P 8063 8C29 8P3H 9187 A403 F7CP H48F U7HF UC84	11 5 0 ² 4 14 3 6 12 15 10 1 13 9 2 8 7	U42 U48 U53 U49 U39 U50 U47 U41 U38 U43 U52 U40 U44 U51 U45 U46	F76F 10FA H767 546P PUC8 U210 U87P 8HFA 2U0C 7HF5 3139 2H16 1961 H4P1 1C13 P2AP	U57 U59 U59 U59 U57 U59 U58 U57 U57 U57 U59 U57 U58 U59 U58 U58

¹Check the output signature of the suspect RAM. If it is good, then suspect the three-state buffer on that bit.

²Check RAM interface and timing before replacing U53. (If all the RAMs were defective, due to an incorrect common input signal, the lowest bit to fail (bit 0) will be indicated by the 5 Vdc signature.) Perform the “free-running POP” test and note the following waveforms.

- U53 pin 16 +5V CMOS supply.
- U53 pin 1 LRAMCE (LOW RAM CHIP ENABLE) will be an inverted HSTM signal.
- U53 pin 14 LWRT (LOW WRITE) – 200 ns pulses, approximately 15 μ s cycle.
- U25 pin 3 LRAMEN (LOW RAM ENABLE) – 500 ns pulses, approximately 15 μ s cycle. The falling edge of LRAMEN coincides with the falling edge of 2nd HSTM pulse.

Partial Interface check (Right INSTR CHECK LED on)

SIGNATURE ANALYZER SETUP: CLOCK \sphericalangle A14TP8 (HSTM)
START \sphericalangle A14TP9 (T3)
STOP \sphericalangle A14TP12 (T0)

GROUND A15TP8 (STS). PUSH  . NOTE 5 VDC SIGNATURE.

Table 7-9. Interface Fault Table

5 VDC SIGNATURE	COURSE OF ACTION
5669	CHECK PASSED. PROCEED TO DIGITAL STORAGE CHECK.
C349 6692	LSRQ LINE APPEARS TO BE HIGH.* A KEY COLUMN LINE IS LOW OR AN RPG COUNTER LINE IS HIGH.*
*Troubleshoot A12 RF Interface or A5 Front Panel.	

Digital Storage Check (Left INSTR CHECK LED on)

SIGNATURE ANALYZER SETUP: CLOCK \setminus A14TP8 (HSTM)
 START \surd A14TP10 (T2)
 STOP \surd A14TP9 (T3)

GROUND A15TP8 (STS). PUSH  . NOTE 5 VDC SIGNATURE.

Table 7 10. Digital Storage Fault Table

5 VDC SIGNATURE	COURSE OF ACTION	
211A	CHECK PASSED.	
CP48	LDSR LINE APPEARS TO BE HIGH. (CHECK INTERCONNECT CABLE.) (SEE A3 DIGITAL STORAGE TROUBLESHOOTING.)	
0443 2875 34PH 3643 60F4 8614 8630 88U3 A41C HA52 P6FP PC02	Bad Bit	THESE FAILURES ARE PROBABLY DUE TO EITHER THE A3A4 MEMORY BOARD OR THE A3A7 IOB INTERFACE. IF THE DIGITAL STORAGE TEST PATTERN IS OK, IT MIGHT ALSO BE CAUSED BY AN IOB BIT FAILURE.
	4	
	6	
	11	
	8	
	2	
	7	
	3	
	1	
	9	
	10	
0 ¹		
5		
¹ (or a failure in all bits)		

IOB Interface Troubleshooting

After the ROM and RAM checks have been passed, a special IOB interface check program can now be used to check the interface bus. This routine basically outputs various bit patterns to the IOB bus and to the various devices on the bus. Use the test setup shown in the following table.

IOB Interface Check

SIGNATURE ANALYZER SETUP:

CLOCK \swarrow A15TP2 ($\overline{\text{IOSB}}$)

START \swarrow A14TP12 (T0)

STOP \swarrow A14TP11 (T1)

JUMPER A14TP12 (T0) to A15TP8 (STS).

JUMPER A15TP3 (LSTP) to A15TP9 (+5V).

NOTE 5 VDC SIGNATURE, 747H.

- a. Refer to the table on the A15 Signature Analysis Troubleshooting Diagram for the IOB bus output signatures.

If an IOB/Address Line is loaded down, remove assemblies on Bus to isolate fault:




Analyzer Bus Interconnect Cable, W31; A12 RF Section Interface; A13 HP-IB Interface; A22 Frequency Control; A17 Frequency Counter; and A8 249 MHz Phase Lock.

- b. This same routine is used to verify the A12 RF Interface board, and its outputs onto the bus, as well as the A22, A17, A4A9 and A3A1 boards.
- c. The last item that might have to be checked is to verify that the A15 Processor can read data from the IOB bus. This is done by reading the outputs from A12 and then outputting them onto the LIDA bus. The A15 SA Diagram shows the signatures of the LIDA lines.

A14 MEMORY AND A15 PROCESSOR, TROUBLESHOOTING (CHANGE B)

First try the Fault Table check for the ROM and RAM, since they will isolate most of the failures on the A14 Memory and verify the A15 Processor. However, the first set of ROMs that contain the self-check program, the Memory Address Register and Memory Select decoder, as well as part of the A15 Processor must be working in order for the self check to work; so, if no 5V signature is obtained (the self-check program is not cycling), the following checks must be performed.

Preliminary Checks:

- Power Supplies — 12V, 7V, 5V, -5.2V, 5 VCMOS
- Processor Clocks — 12 V, 5 MHz. Phase 1 and Phase 2 (A15U13 Pins 20, 21)
- POP — (A15U13 Pin 11) low when  pushed, high normally
- LSTP — (A15TP3) high (check A12 if bad)
- SYMC — (A15U13 Pin 29) high when  pushed
- UMC — (A15U13 Pin 25) high when  pushed

“Free-Running POP” Test Setup

To check the LIDA bus, the Memory address Register and the first ROM outputs, a “free running POP” check is set up. A 555 timer is turned on by jumpering A15TP9 (+5V) to A15TP1. The timer output (TP7) is connected to the LIPS input (TP4). This continually resets the Processor to a known state: it continually executes this first instruction (at location octal 40) which in turn reads all the rest of the ROM memory.

- a. Jumper A15TP1 (TIMER ON) to A15TP9 (+5V).
- b. Jumper A15TP7 (TIMEOUT) to A15TP4 (LIPS).
- c. Externally trigger oscilloscope off the falling edge of A15TP5 (POP OUT).
- d. Monitor A14TP8 (HSTM) on one channel of an oscilloscope.

At the rising edge of the 2nd HSTM pulse 1.25 μ s pulses should be present on the MAR lines. Except for MAR5, all will be positive going transitions.

If the MAR lines are working properly, use an oscilloscope and check the waveforms as described in the A14/A15 Timing Sequence.

A14 Memory/A15 Processor, Timing Sequence

Use the “Free-running POP” setup.

- Jumper A15TP1 (TIMER ON) to (+5V) A15TP9.
- Jumper the A15TP7 (TIME OUT) to A15TP4 (LIPS).
- Externally trigger the scope off $\overline{\text{A15TP5}}$ (POPOUT).

Refer to Figures 7-7 and 7-8 for the timing waveforms. Figure 7-9 shows the 5 MHz two phase clock waveform.

1. $\overline{\text{POP}}$ input to Hybrid goes high. (Start of sequence.)
2. Processor outputs the starting memory address (octal 40) onto the LIDA bus. Processor also outputs $\overline{\text{WR}}$ (Write) and RAL (Internal Register Address).
3. Processor forces HSTM high, clocking the address from the LIDA bus into the MAR (Memory Address Register) on A14. (See Figure 7-6)
4. LSOB goes high when processor output $\overline{\text{PDR}}$ (Processor Data Read) goes high, indicating that the processor no longer drives the LIDA bus. The A14 memory chip selects are enabled by LSOB and the memory data appears on the LIDA bus.
5. $\overline{\text{UMC}}$ from the A15 Delay after STM circuit goes low indicating memory complete.
6. The Processor reads the instruction and forces HSTM low which also forces LSOB low.
7. To execute this first instruction, steps 2 through 6 are repeated, only the address output is an indexed address that is continually decremented so all possible addresses are exercised.
 - At the rising edge of the 2nd HSTM, go high and low logic levels should be on all LIDA lines.
 - At the falling edge of the 2nd HSTM, memory data is on the LIDA lines. They should show good high and low logic levels and may also show some open, intermediate states.
8. At the 3rd HSTM, no LSOB is generated since it is an internal address. RAL line goes high keeping LSOB low.
9. During a write operation (5th HSTM), $\overline{\text{WR}}$ is low. This keeps LSOB low and a 200 nsec LWRT pulse is generated. The processor outputs data onto the LIDA bus which is written into the CMOS RAMs on A14.

Suggestions: After connecting the jumpers, check the HSTM (A14TP8) and LSOB (A14TP6) lines for activity. If they appear good, go ahead and check the LIDA lines when the indexed address and data are on the bus at the 2nd HSTM as described in step 7. If HSTM or LSOB is bad, then begin with sequence step 1 and verify each step.

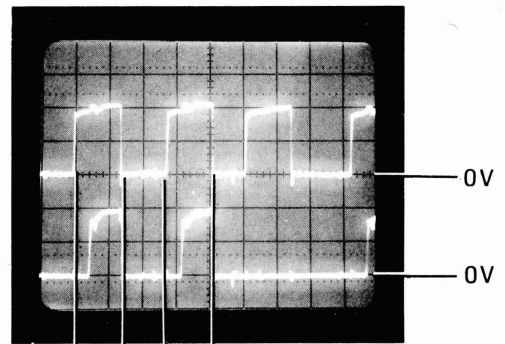
To help isolate a stuck LIDA line:

- Grounding LSOB (A14TP6) should force all drivers on A14 into the high impedance third state, and
- Jumpering A15TP11 ($\overline{\text{EN}}$ [BUS]) to A15TP9 (+5V) should force the Hybrid LIDA output into the high impedance third state.

Oscilloscope Settings:
 Vertical: 2V/div
 Horizontal: 500 ns/div
 External trigger:
 \ A15TP5 (POPOUT)

HSTM

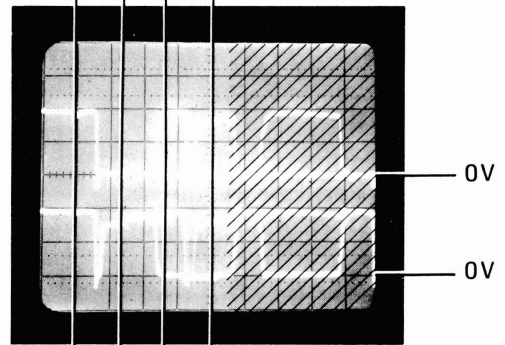
LSOB



Oscilloscope Settings:
 Vertical: 2V/div
 Horizontal: 500 ns/div
 External trigger:
 \ A15TP5 (POPOUT)

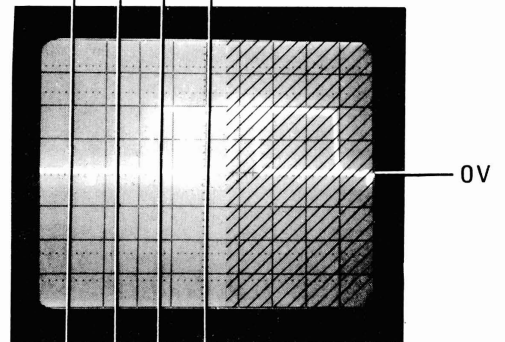
LIDA 0,4,6,7,8

LIDA 1,2,3,9,10



Oscilloscope Settings:
 Vertical: 2V/div
 Horizontal: 500 ns/div
 External trigger:
 \ A15TP5 (POPOUT)

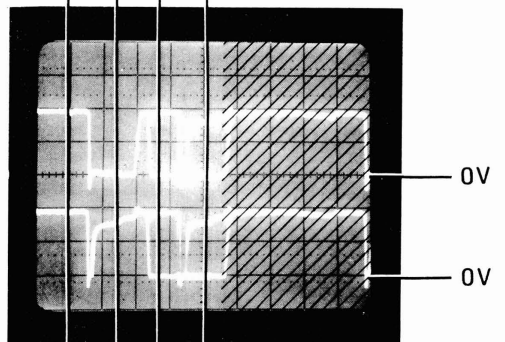
LIDA 5



Oscilloscope Settings:
 Vertical: 2V/div
 Horizontal: 500 ns/div
 External trigger:
 \ A15TP5 (POPOUT)

LIDA 11,12,13,14

LIDA 15



OUTPUT FIRST ADDRESS (40g)
 READ FIRST INSTRUCTION FROM ROM (074761g)
 OUTPUT INDEX ADDRESS (SCANS ALL ADDRESSES)
 READ DATA FROM INDEXED ADDRESS LOCATION

NOTE:

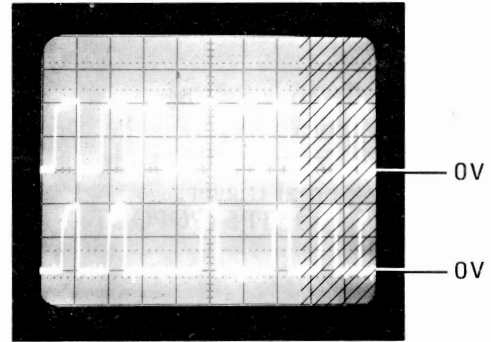
Disregard shaded areas of waveform photographs. The R-C time constant of the SA timer used during the "Free-Running POP" test causes the waveforms in these time intervals to vary from instrument to instrument.

Figure 7-6. LIDA Bus Timing

Oscilloscope Settings:
 Vertical: 2V/div
 Horizontal: 1 μ s/div
 Ext trigger:
 \neg A15TP5 (POPOUT)

HSTM

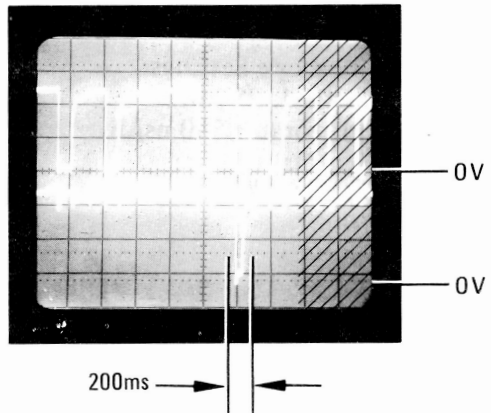
LSOB



Oscilloscope Settings:
 Vertical: 2V/div
 Horizontal: 1 μ s/div
 Ext trigger:
 \neg A15TP5 (POPOUT)

$\overline{\text{UMC}}$

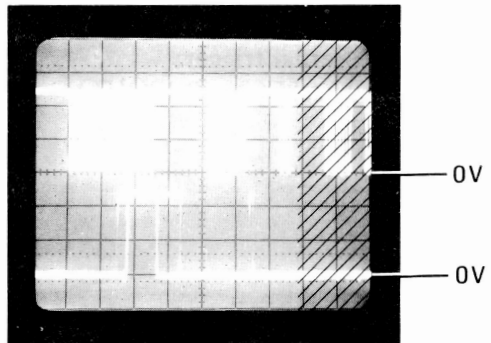
LWRT



Oscilloscope Settings:
 Vertical: 2V/div
 Horizontal: 1 μ s/div
 Ext trigger:
 \neg A15TP5 (POPOUT)

SYNC

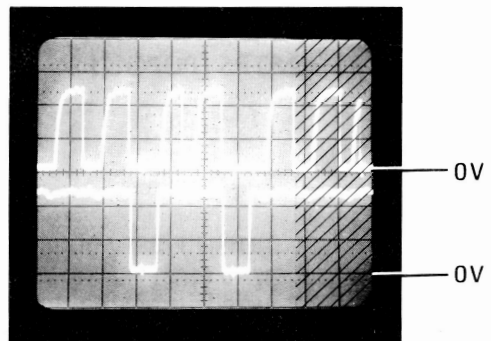
RAL



Oscilloscope Settings:
 Vertical: 2V/div
 Horizontal: 1 μ s/div
 Ext trigger:
 A15TP5 (POPOUT)

$\overline{\text{PDR}}$

$\overline{\text{WR}}$



NOTE:

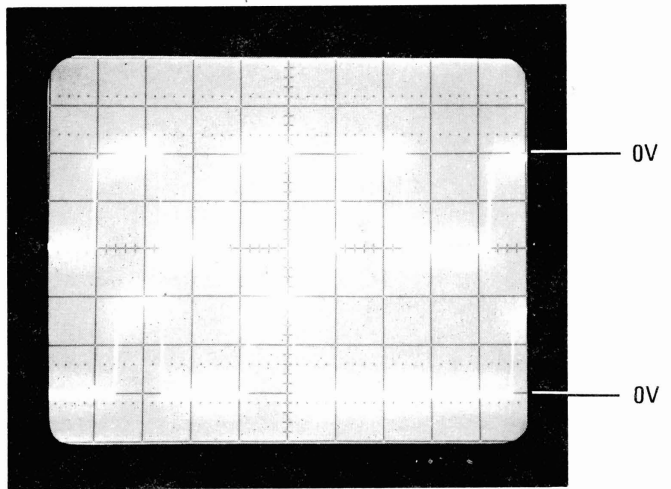
Disregard shaded areas of waveform photographs. The R-C time constant of the SA timer used during the "Free-Running POP" test causes the waveforms in these time intervals to vary from instrument to instrument.

Figure 7-7. A15 Processor Timing

Oscilloscope settings:
 Vertical: 2V/div
 Horizontal: 500 ns/div
 External trigger:
 \ A15TP5 (POPOUT)

HSTM

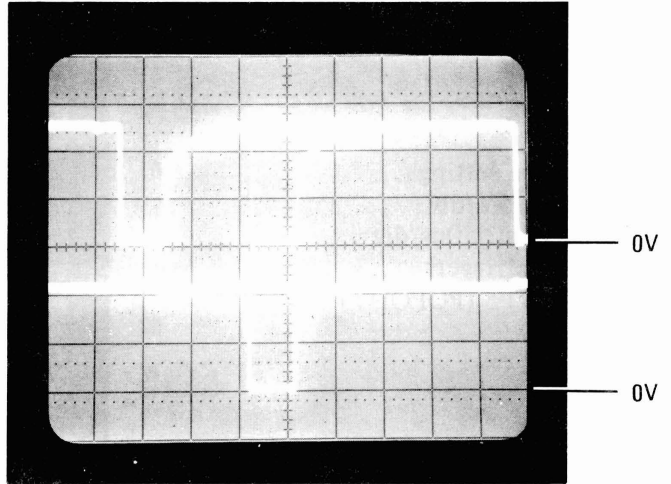
LSOB



Oscilloscope settings:
 Vertical: 2V/div
 Horizontal: 500 ns/div
 External trigger:
 \ A15TP5 (POPOUT)

LCSI
 (LCS0)

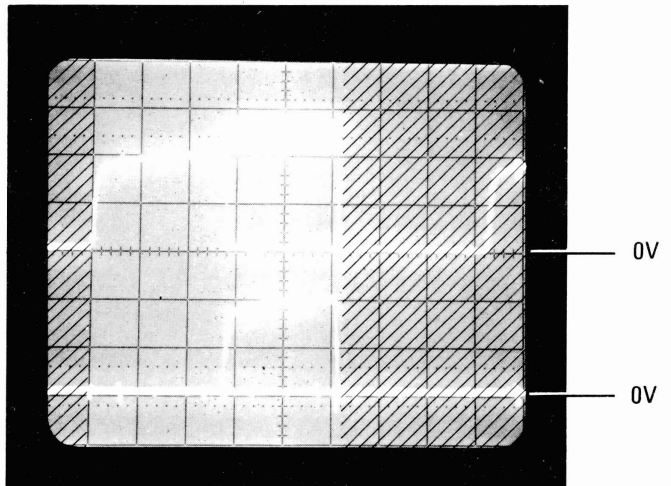
LCS 1 - 7
 WCK



Oscilloscope settings:
 Vertical: 2V/div
 Horizontal: 500 ns/div
 External trigger:
 \ A15TP5 (POPOUT)

MAR 5

MAR 0-4
 MAR 6-15



NOTE:
 Disregard shaded areas of waveform photographs. The R-C time constant of the SA timer used during the "Free-Running POP" test causes the waveforms in these time intervals to vary from instrument to instrument.

Figure 7-8. Memory Timing

Oscilloscope settings:
Vertical: 5V/div
Horizontal: 50ns/div
External trigger:
 ~ A15TP5 (POPOUT)

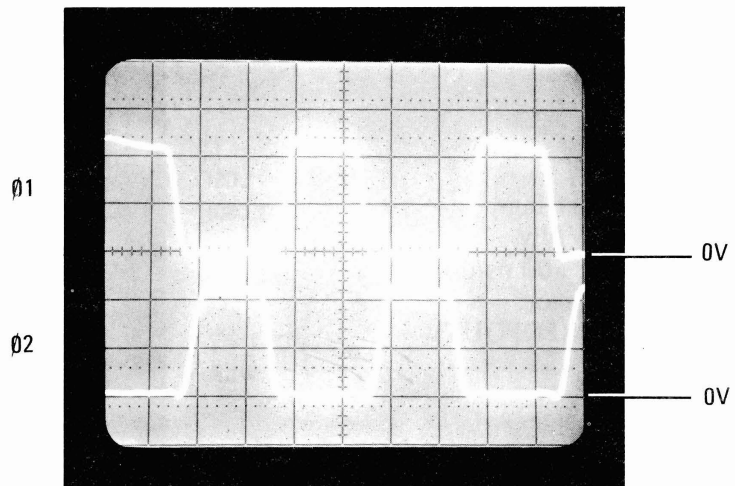


Figure 7-9. Processor Clocks

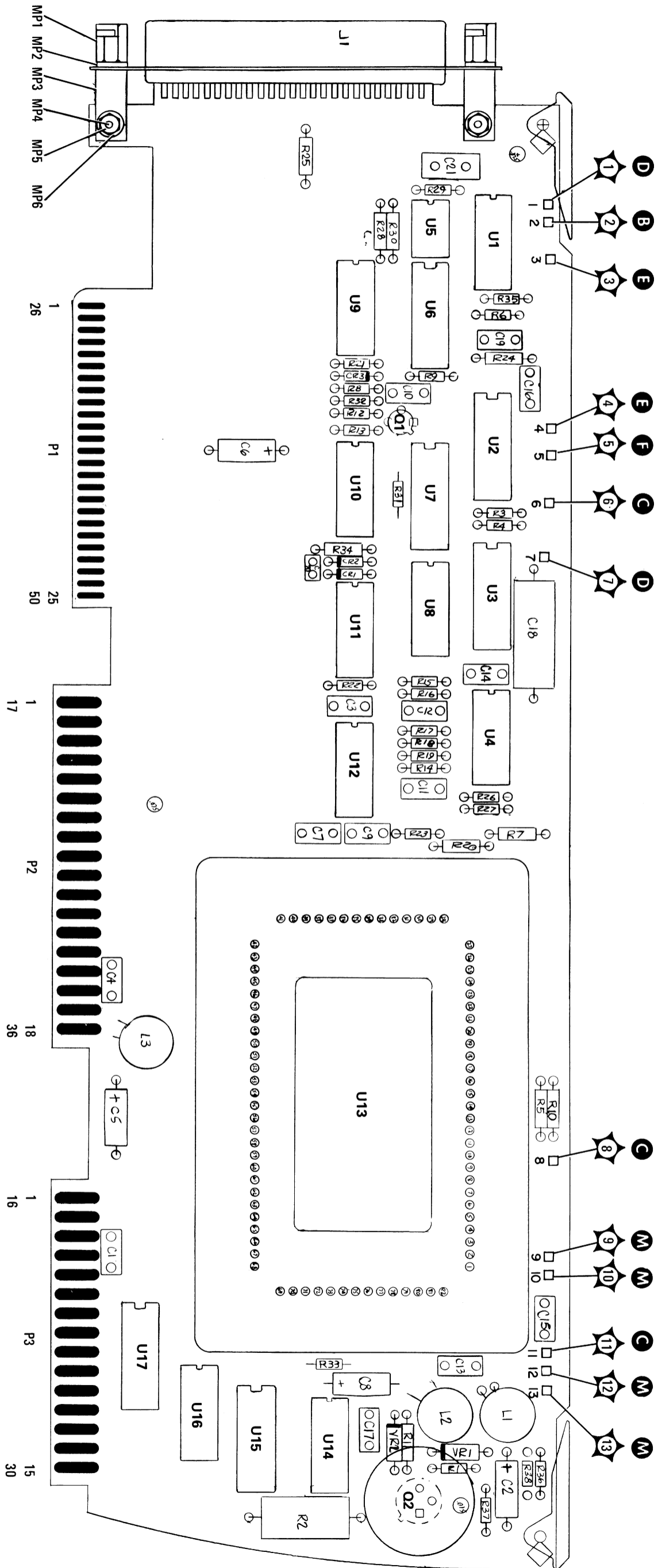
Table 7-11. A15 Processor, Replaceable Parts (1 of 2) (CHANGE B)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15	85680-60021	1	BOARD ASSEMBLY, PROCESSOR	28480	85680-60021
A15C1	0160-4084	12	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C2	0180-0197	4	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A15C3	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C4	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C5	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A15C6	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A15C7	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C8	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A15C9	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C10	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C11	0140-0197	2	CAPACITOR-FXD .180PF +-5% 300VDC MICA	72136	DM15F181J0300HV1CR
A15C12	0140-0197		CAPACITOR-FXD 180PF +-5% 300VDC MICA	72136	DM15F181J0300HV1CR
A15C13	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C14	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C15	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C16	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C17	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C18	0180-2214	1	CAPACITOR-FXD .90UF+75-10% 16VDC AL	56289	30D906G016CC2
A15C19	0160-4084		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A15C20	0160-3879	1	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-3879
A15C21	0160-2209	1	CAPACITOR-FXD 360PF +-5% 300VDC MICA	28480	0160-2209
A15CR1	1901-0535	2	DIODE-SCHOTTKY	28480	1901-0535
A15CR2	1901-0535		DIODE-SCHOTTKY	28480	1901-0535
A15CR3	1901-0050	1	DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A15J1	1251-4222	1	CONNECTOR 50-PIN F MICRO RIBBON	28480	1251-4222
A15MP1	85680-60114	2	STANDOFF-SAE THREAD	28480	85680-60114
A15MP2	2190-0034	2	WASHER-LOCK HLCL NO.10 /194"ID	28480	2190-0034
A15MP3	1530-1098	2	CLEVIS-.070"SLIT .454"PIN CTR	28480	1530-1098
A15MP4	2200-0143	2	SCREW-MACH 4-40 .375"LG PAN HD-POZI DRIVE	28480	2200-0143
A15MP5	2260-0002	2	NUT-HEX DBL CHAM 4-40 .062" THK	28480	2260-0002
A15MP6	2190-0004	2	WASHER-LOCK INT T NO.6 .115"ID	28480	2190-0004
A15Q1	1854-0019	1	TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0019
A15Q2	1854-0637	1	TRANSISTOR NPN 2N2219A SI TO-18 PD=600MW	28480	1854-0637
A15R1	0698-7225	6	RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0=348R-G
A15R2	0698-3601	1	RESISTOR 10 5% 2W MO TC=0+-200	27167	FP42-2-T00=10R0-J
A15R3	0698-7260	1	RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1002-G
A15R4	0698-7260	6	RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1002-G
A15R5	0757-0442	6	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A15R6	0698-7260		RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1002-G
A15R7	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A15R8	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0=348R-G
A15R9	0698-7260		RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1002-G
A15R10	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A15R11	0698-3437	1	RESISTOR 133 1% .125W F TC=0+-100	24546	C4-1/8-T0=133R-F
A15R12	0698-7236	10	RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G
A15R13	0698-7268	3	RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0=2152-G
A15R14	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G
A15R15	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0=348R-G
A15R16	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G
A15R17	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G
A15R18	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0=348R-G
A15R19	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G
A15R20	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A15R21	0698-7260		RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1002-G
A15R22	0698-7243	1	RESISTOR 1.96K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1961-G
A15R23	0698-7260		RESISTOR 10K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1002-G
A15R24	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A15R25	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G
A15R26	0698-7193	2	RESISTOR 16.2 1% .05W F TC=0+-100	24546	C3-1/8-T0=16R2-G
A15R27	0698-7193		RESISTOR 16.2 1% .05W F TC=0+-100	24546	C3-1/8-T0=16R2-G
A15R28	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1002-F
A15R29	0698-7268		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0=2152-G
A15R30	0757-0280	2	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A15R31	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G
A15R32	0698-7268		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0=2152-G
A15R33	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0=348R-G
A15R34	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0=1001-F
A15R35	0698-7225		RESISTOR 348 1% .05W F TC=0+-100	24546	C3-1/8-T0=348R-G
A15R36	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G
A15R37	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G
A15R38	0698-7236		RESISTOR 1K 1% .05W F TC=0+-100	24546	C3-1/8-T0=1001-G

Table 7-11. A15 Processor, Replaceable Parts (2 of 2) (CHANGE B)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15TP1	1251-5177	13	CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP2	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP3	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP4	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP5	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP6	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP7	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP8	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP9	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP10	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP11	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP12	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15TP13	1251-5177		CONNECTOR-SGL CONT PIN .031-IN-B8C-8Z	28480	1251-5177
A15U1	1820-1144	1	IC GATE TTL LS NOR QUAD 2-INP	01295	8N74L802N
A15U2	1820-1492	2	IC BFR TTL LS INV HEX 1-INP	01295	8N74L8368N
A15U3	1820-1492		IC BFR TTL LS INV HEX 1-INP	01295	8N74L8368N
A15U4	1820-1288	1	IC DRVR TTL/MOS CLOCK DRVR 1-INP	04713	MMH0026CL
A15U5	1826-0180	1	IC 555 8=DIP-P	18324	NE555V
A15U6	1820-1277	1	IC CNTR TTL LS DECD UP/DOWN SYNCHRO	01295	8N74L8192N
A15U7	1820-1195	1	IC FF TTL LS D-TYPE POS-EDGE-TRIG COM	01295	8N74L8175N
A15U8	1820-1199	1	IC INV TTL LS HEX 1-INP	01295	8N74L804N
A15U9	1820-1198	1	IC GATE TTL LS NAND QUAD 2-INP	01295	8N74L803N
A15U10	1820-1416	1	IC SCHMITT-TRIG TTL LS INV HEX 1-INP	01295	8N74L814N
A15U11	1820-1204	1	IC GATE TTL LS NAND DUAL 4-INP	01295	8N74L820N
A15U12	1820-0681	1	IC GATE TTL 8 NAND QUAD 2-INP	01295	8N74800N
A15U13	85680-60100	1	MICRO PROCESSOR	28480	85680-60100
A15U14	1906-0075	2	DIODE-ARRAY 40V 400MA	28480	1906-0075
A15U15	1810-0338	2	NETWORK-RES 16-PIN-DIP .1-PIN-SPCG	11236	761-3-R100
A15U16	1906-0075		DIODE-ARRAY 40V 400MA	28480	1906-0075
A15U17	1810-0338		NETWORK-RES 16-PIN-DIP .1-PIN-SPCG	11236	761-3-R100
A15VR1	1902-0072	1	DIODE-ZNR 7.87V 2% DO-7 PD=.4W TC=+.051%	28480	1902-0072
A15VR2	1902-3048	1	DIODE-ZNR 3.48V 5% DO-7 PD=.4W TC=+.058%	28480	1902-3048
A15 MISCELLANEOUS PARTS					
	1480-0073	2	PIN-POLL .062-IN-DIA .25-IN-LG BE=CU	28480	1480-0073
	4040-0749	1	EXTRACTOR-PC BOARD BRN POLYC	28480	4040-0749
	4040-0753	1	EXTRACTOR-PC BOARD GRN POLYC	28480	4040-0753

A15 PROCESSOR



SERIAL PREFIX: 1824A AND BELOW

Figure 7-10. A15 Processor, Component Locations (CHANGE B)

7-71/7-72

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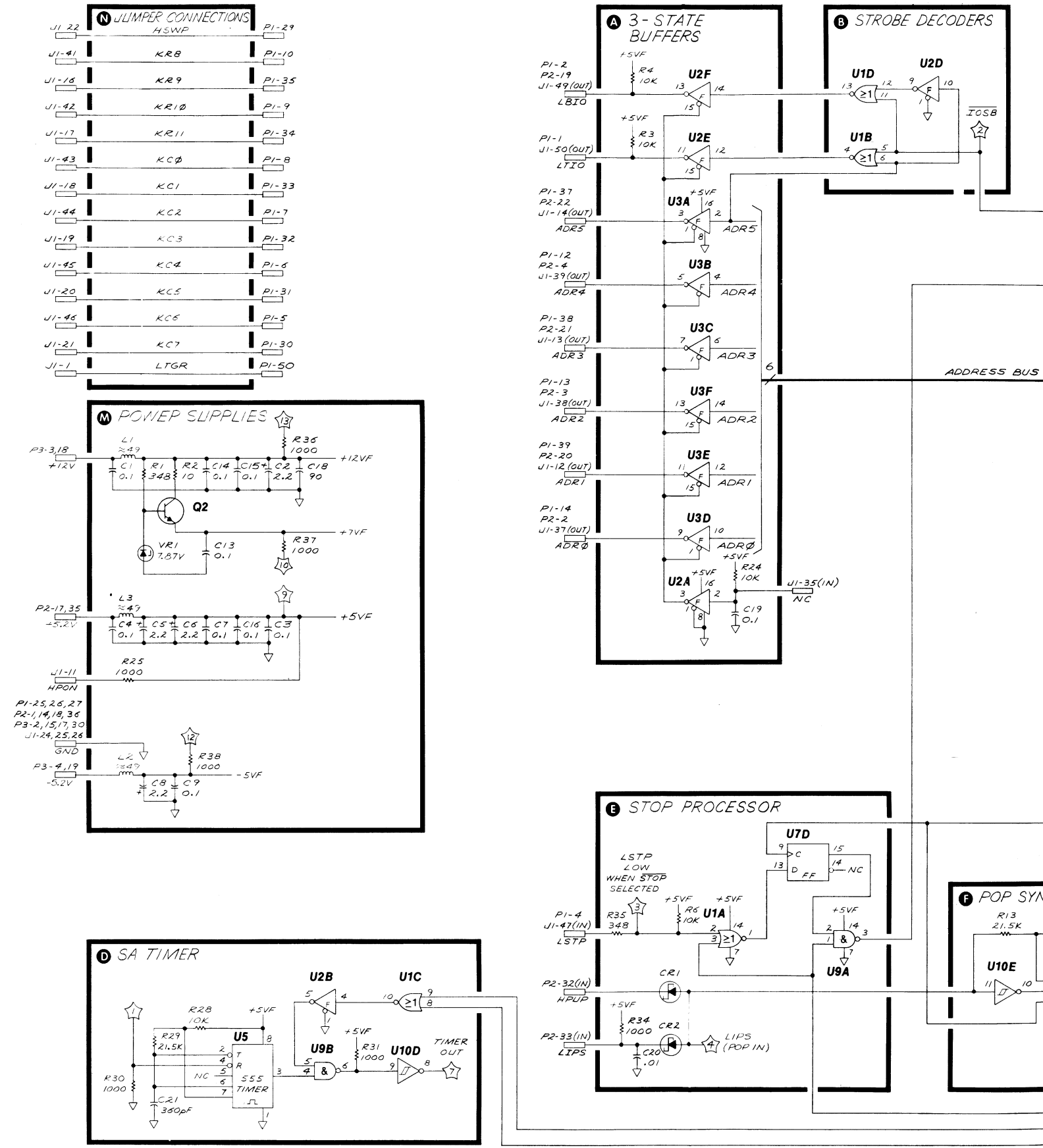
A15 PROCESSOR
85680-60021

PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	LTIO	A12PI-26	A
26	GND		M
2	LBIO	A12PI-27	A
27	GND		M
3	NC		
28	NC		
4	LSTP	A12PI-29	E
29	HSWP	A12PI-4	N
5	KC6	A12PI-30	N
30	KC7	A12PI-5	N
6	KC4	A12PI-31	N
31	KC5	A12PI-6	N
7	KC2	A12PI-32	N
32	KC3	A12PI-7	N
8	KC0	A12PI-33	N
33	KC1	A12PI-8	N
9	KR10	A12PI-34	N
34	KR11	A12PI-9	N
10	KR8	A12PI-35	N
35	KR9	A12PI-10	N
11	NC		
36	NC		
12	ADR4	A12PI-37	A
37	ADR5	A12PI-12	A
13	ADR2	A12PI-38	A
38	ADR3	A12PI-13	A
14	ADR0	A12PI-39	A
39	ADR1	A12PI-14	A
15	NC		
40	NC		
16	NC		
41	NC		
17	IOB14	A12PI-42	C
42	IOB15	A12PI-17	C
18	IOB12	A12PI-43	C
43	IOB13	A12PI-18	C
19	IOB10	A12PI-44	C
44	IOB11	A12PI-19	C
20	IOB8	A12PI-45	C
45	IOB9	A12PI-20	C
21	IOB6	A12PI-46	C
46	IOB7	A12PI-21	C
22	IOB4	A12PI-47	C
47	IOB5	A12PI-22	C
23	IOB2	A12PI-48	C
48	IOB3	A12PI-23	C
24	IOB0	A12PI-49	C
49	IOB1	A12PI-24	C
25	GND		M
50	LTGR	A21PI-25	N

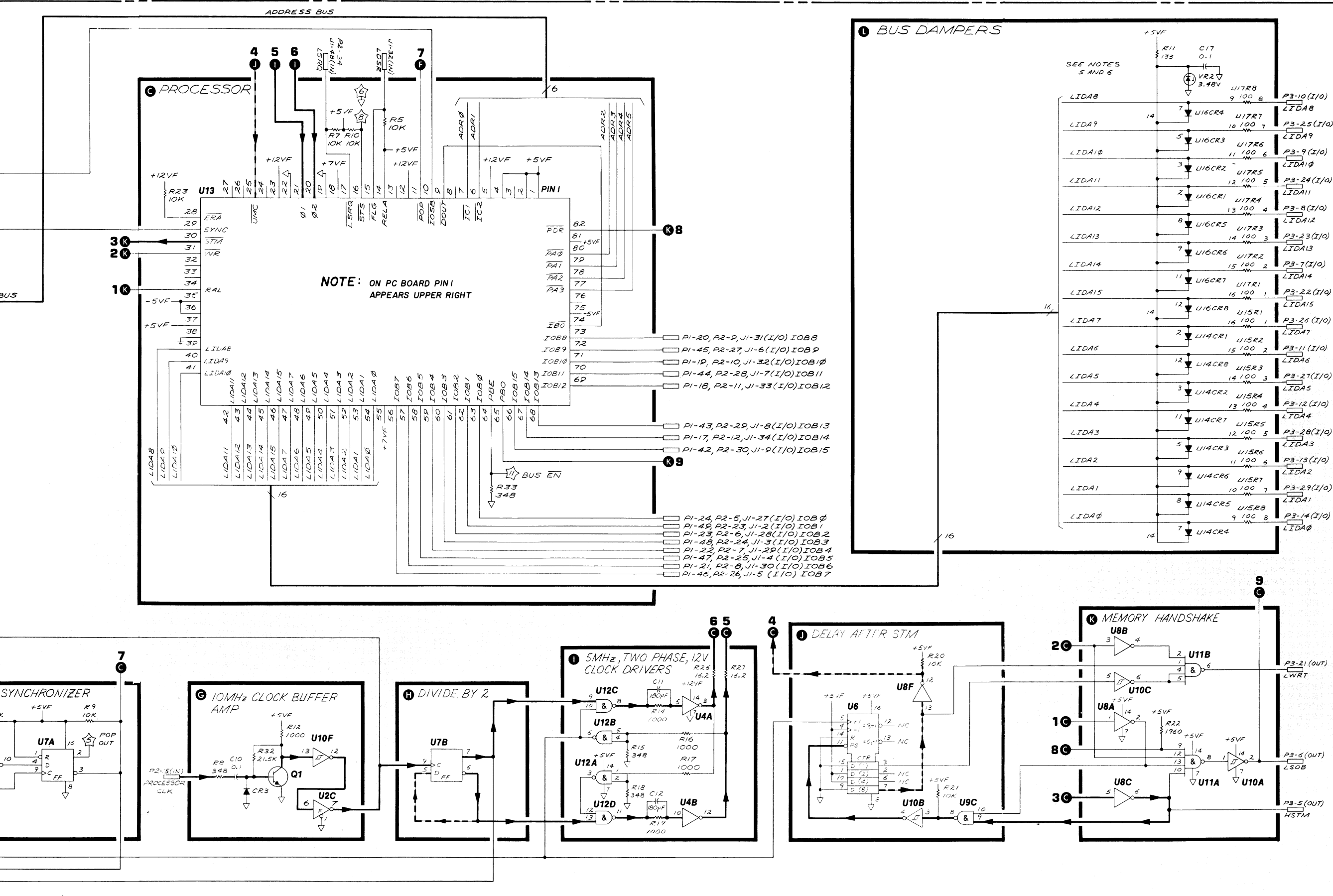
PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	GND		M
19	LBIO	A17P2-27	A
2	ADR0	A17P2-26	A
20	ADR1	A17P2-11	A
3	ADR2	A17P2-25	A
21	ADR3	A17P2-10	A
4	ADR4	A17P2-24	A
22	ADR5		A
5	IOB0	A17P2-23	C
23	IOB1	A17P2-8	C
6	IOB2	A17P2-22	C
24	IOB3	A17P2-7	C
7	IOB4	A17P2-21	C
25	IOB5	A17P2-6	C
8	IOB6	A17P2-20	C
26	IOB7	A17P2-5	C
9	IOB8	A17P2-19	C
27	IOB9	A17P2-4	C
10	IOB10	A17P2-18	C
28	IOB11	A17P2-3	C
11	IOB12	A17P2-17	C
29	IOB13	A17P2-2	C
12	IOB14	A17P2-16	C
30	IOB15	A17P2-1	C
13	NC		
31	NC		
14	GND		M
32	HPUP	A24P2-11	E
15	PROCESSOR CLK	A16PI-7	G
33	LIPS	A13PI-33	E
16	+5V BATT	BATTERY	NC
34	LSRQ	A12P2-34	C
17	+5.2V		M
35	+5.2V		M
18	GND		M
36	GND		M

PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	NC		M
16	NC		M
2	GND		M
17	GND		M
3	+12V		M
18	+12V		M
4	-5.2V		M
19	-5.2V		M
5	HSTM	A14P2-5	K
20	NC		K
6	LSOB	A14P2-6	K
21	LWRT	A14P2-21	K
7	LIDA14	A14P2-7	L
22	LIDA15	A14P2-22	L
8	LIDA12	A14P2-8	L
23	LIDA13	A14P2-23	L
9	LIDA10	A14P2-9	L
24	LIDA11	A14P2-24	L
10	LIDAB	A14P2-10	L
25	LIDA9	A14P2-25	L
11	LIDA6	A14P2-11	L
26	LIDA7	A14P2-26	L
12	LIDA4	A14P2-12	L
27	LIDA5	A14P2-27	L
13	LIDA2	A14P2-13	L
28	LIDA3	A14P2-28	L
14	LIDA0	A14P2-14	L
29	LIDA1	A14P2-29	L
15	GND		M
30	GND		M

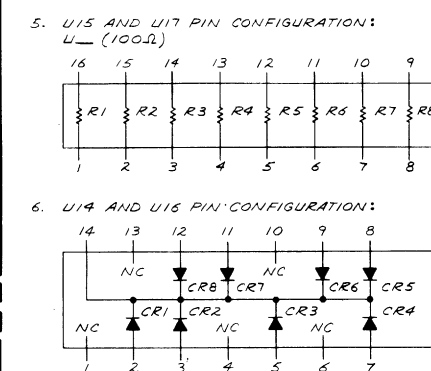
PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	LTGR		N
2	IOB1	A4A10J1-4	C
3	IOB3	A4A10J1-6	C
4	IOB5	A4A10J1-8	C
5	IOB7	A4A10J1-10	C
6	IOB9	A4A10J1-12	C
7	IOB11	A4A10J1-14	C
8	IOB13	A4A10J1-16	C
9	IOB15	A4A10J1-18	C
10	NC		
11	HPON	A1A9J1-22	M
12	ADR1	A4A10J1-24	A
13	ADR3	A4A10J1-26	A
14	ADR5	A4A10J1-28	A
15	NC		
16	KR9	A1A1J1-33	N
17	KR11	A1A1J1-31	N
18	KC1	A1A1J1-41	N
19	KC3	A1A1J1-39	N
20	KC5	A1A1J1-37	N
21	KC7	A1A1J1-35	N
22	HSWP	A3A1PI-21	N
23	LDSR	A3A10J1-46	C
24	GND		M
25	GND		M
26	GND		M
27	IOB0	A4A10J1-3	C
28	IOB2	A4A10J1-5	C
29	IOB4	A4A10J1-7	C
30	IOB6	A4A10J1-9	C
31	IOB8	A4A10J1-11	C
32	IOB10	A4A10J1-13	C
33	IOB12	A4A10J1-15	C
34	IOB14	A4A10J1-17	C
35	NC		
36	NC		
37	ADR0	A4A10J1-23	A
38	ADR2	A4A10J1-25	A
39	ADR4	A4A10J1-27	A
40	NC		
41	KR8	A1A1J1-34	N
42	KR10	A1A1J1-32	N
43	KC0	A1A1J1-42	N
44	KC2	A1A1J1-40	N
45	KC4	A1A1J1-38	N
46	KC6	A1A1J1-36	N
47	LSTP	A1A9J1-43	E
48	LSRQ	A1A9J1-45	C
49	LBIO	A1A9J1-47	A
50	LTIO	A3A10J2-49	A



SERIAL PREFIX: 1824A DATE: APRIL, 1978

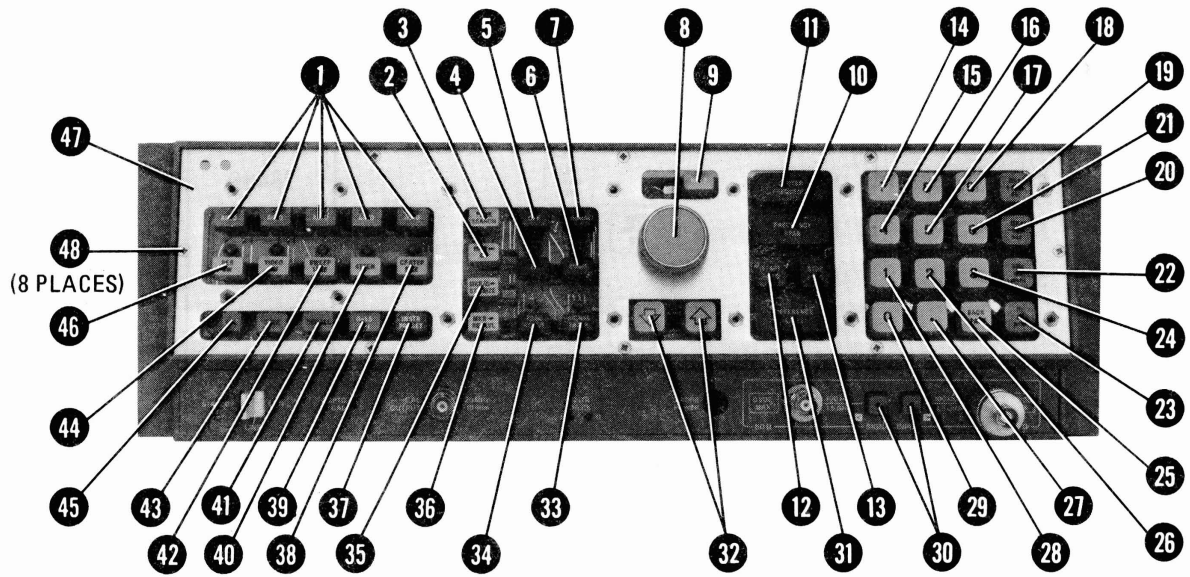


- NOTES:**
- REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. PREFIX ABBREVIATION WITH ASSEMBLY NUMBER FOR COMPLETE REFERENCE DESIGNATOR.
 - UNLESS OTHERWISE INDICATED: RESISTANCE IN OHMS (Ω), CAPACITANCE IN MICROFARADS (μF), INDUCTANCE IN MICROHENRIES (μH).
 - UNLESS OTHERWISE INDICATED: LOGIC LEVELS ARE TTL: +2.0V TO +5.0V = LOGIC "1" = HIGH 0V TO +0.8V = LOGIC "0" = LOW
 - MNEMONIC TABLE:
- | MNEMONIC | DESCRIPTION |
|-----------------|---|
| ADR ϕ -5 | INSTRUMENT BUS ADDRESS BITS ϕ -5 |
| HPON | HIGH = IF-DISPLAY SECTION POWER ON |
| HSWP | HIGH = SWEEPING |
| IOB ϕ -15 | INSTRUMENT BUS DATA BITS ϕ -15 |
| KC ϕ -7 | KEY COLUMNS ϕ -7 |
| KRB-11 | KEY ROWS 8-11 |
| LBIO | LOW = RF SECTION I/O STROBE |
| LDSR | LOW = DIGITAL STORAGE READY |
| LSRQ | LOW = SERVICE REQUEST |
| LSTP | LOW = STOP PROCESSOR |
| LTIO | LOW = IF-DISPLAY SECTION I/O STROBE |
| HPUP | HIGH = POWER UP |
| LIPS | LOW = INSTRUMENT PRESET |
| HSTM | HIGH = START MEMORY CYCLE |
| LSOB | LOW = STAY OFF BUS |
| LWRT | LOW = WRITE MEMORY |
| LIDA ϕ -15 | INTERNAL DATA AND ADDRESS BUS BITS ϕ -15 |



A15

Figure 7-12. A15 Processor, Schematic Diagram (CHANGE B)



















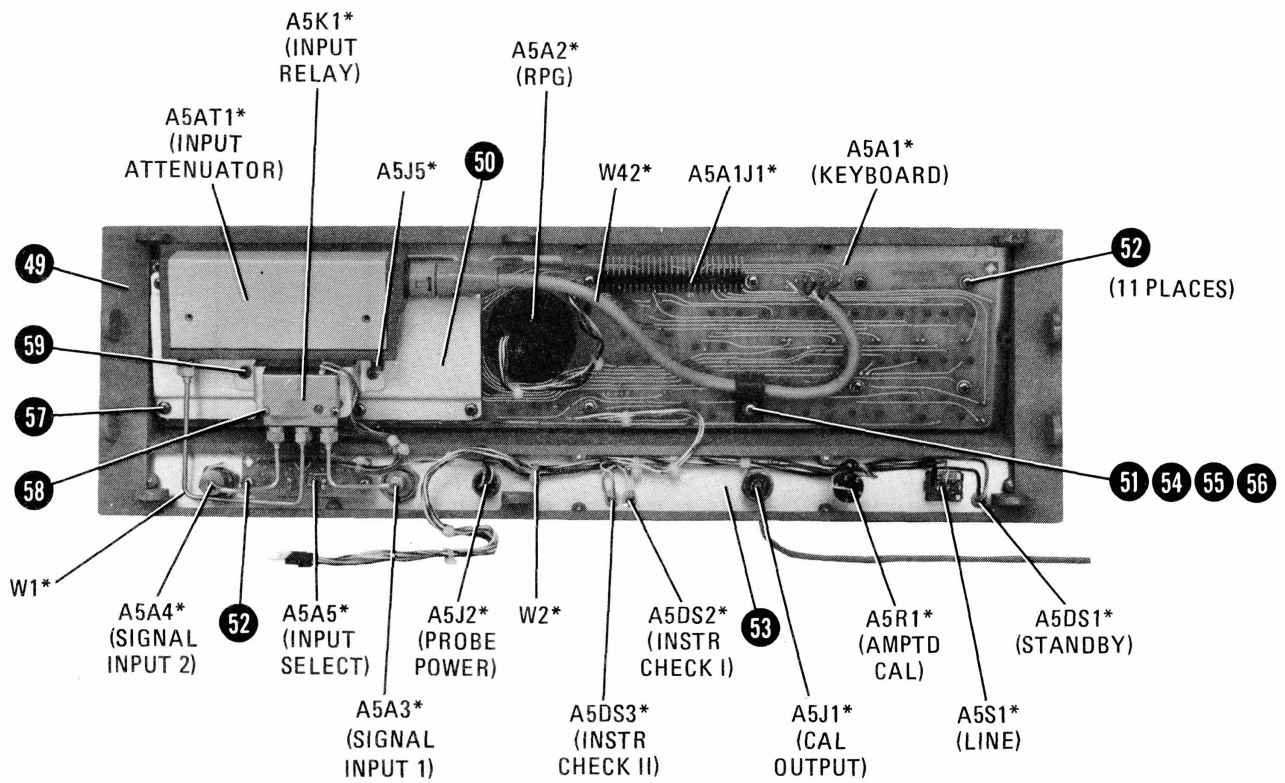
Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
1	5041-0706	Key— 	28480	5041-0706
2	5041-0712	Key— 	28480	5041-0712
3	5041-0938	Key— 	28480	5041-0938
4	5041-0716	Key— 	28480	5041-0716
5	5041-0692	Key— 	28480	5041-0692
6	5041-0717	Key— 	28480	5041-0717
7	5041-0698	Key— 	28480	5041-6098
8	0370-2992	Knob—Round	28480	0370-2992
9	5041-0725	Key— 	28480	5041-0725
10	5041-0674	Key— 	28480	5041-0674
11	5041-0673	Key— 	28480	5041-0673
12	5041-0668	Key— 	28480	5041-0668
13	5041-0669	Key— 	28480	5041-0669
14	5041-0751	Key— 	28480	5041-0751
15	5041-0748	Key— 	28480	5041-0748
16	5041-0752	Key— 	28480	5041-0752
17	5041-0749	Key— 	28480	5041-0749

Figure 7-13. RF Section Parts Identification, Front Panel (1 of 4) (CHANGE G)

Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
18	5041-0753	Key— 9	28480	5041-0753
19	5041-0727	Key— GHz +dBm dB	28480	5041-0727
20	5041-0728	Key— MHz -dBm dB	28480	5041-0728
21	5041-0750	Key— 6	28480	5041-0750
22	5041-0729	Key— kHz mV msec	28480	5041-0729
23	5041-0730	Key— Hz μV μsec	28480	5041-0730
24	5041-0828	Key— 3	28480	5041-0828
25	5041-0757	Key— BACK SPACE	28480	5041-0757
26	5041-0827	Key— 2	28480	5041-0827
27	5041-0755	Key— .	28480	5041-0755
28	5041-0826	Key— 1	28480	5041-0826
29	5041-0754	Key— 0	28480	5041-0754
30	5041-0318	Key— Signal Input ●	28480	5041-0318
31	5041-0675	Key— REFERENCE LEVEL	28480	5041-0675
32	5041-0756	Key— ↓ ↑	28480	5041-0756
33	5041-0937	Key— SIGNAL TRACK	28480	5041-0937
34	5041-0718	Key— FREQ COUNT	28480	5041-0718
35	5041-0714	Key— MKR/D- STP SIZE	28480	5041-0714
36	5041-0715	Key— MKR → REF LVL	28480	5041-0715
37	5041-0720	Key— INSTR PRESET	28480	5041-0720
38	5041-0711	Key— CF STEP SIZE	28480	5041-0711
39	5041-0721	Key— 0-15 GHZ	28480	5041-0721
40	5041-0710	Key— ATTN	28480	5041-0710
41	5041-0775	Key— RECALL	28480	5041-0775
42	5041-0709	Key— SWEEP TIME	28480	5041-0709
43	5041-0095	Key— SAVE	28480	5041-0095
44	5041-0708	Key— VIDEO BW	28480	5041-0708
45	5041-0726	Key— LCL	28480	5041-0726
46	5041-0707	Key— RES BW	28480	5041-0707
47	85680-00011	Panel, Sub Upper	28480	85680-00011
48	0624-0203	Screw, 4-40, .312 IN-LG, 82 DEG FL 1-10	28480	0624-0203

Figure 7-13. RF Section Parts Identification, Front Panel (2 of 4) (CHANGE G)



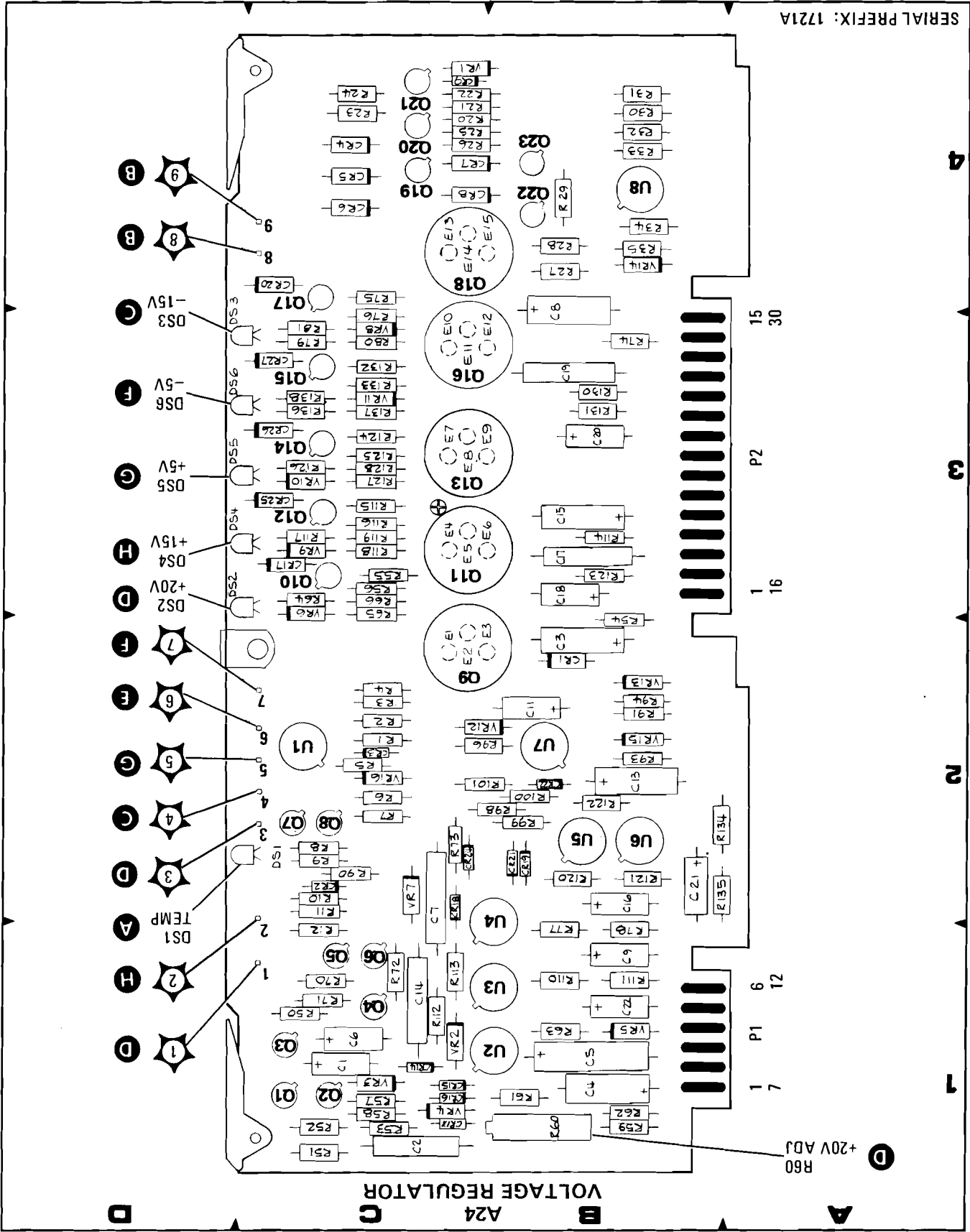
*REFER TO TABLE 6-2 AND 6-4 FOR PART NUMBER INFORMATION.

Figure 7-13. RF Section Parts Identification, Front Panel (3 of 4) (CHANGE G)

Item	HP Part Number	Description	Mfr. Code	Manufacturer's Part Number
49	85680-40001	Bezel, Front	28480	85680-40001
50	85680-00013	Bracket, Attenuator	28480	85680-00013
51	1400-0619	Clamp, Cable	05683	5/16-HFR
52	2200-0105	Screw, 4-40, .312-IN-LG PAN-HD	28480	2200-0105
53	85680-00009	Panel, Sub Lower	28480	85680-00009
54	2200-0147	Screw, 4-40, .500-IN-LG PAN-HD	28480	2200-0147
55	3050-0105	Washer, Flat For Screw 5	28480	3050-0105
56	2190-0003	Washer, Lock For Screw 5	28480	2190-0003
57	2200-0111	Screw, 4-40, .5 IN-LG PAN-HD	28480	2200-0111
58	0520-0136	Screw, 2-56, .625 IN LG PAN-HD	28480	0520-0136
59	2200-0103	Screw, 4-40, .25 IN LG PAN-HD	28480	2200-0103

Figure 7-13. RF Section Parts Identification, Front Panel (4 of 4) (CHANGE G)

Figure 7-14. A24 Voltage Regulator, Component Locations (CHANGE J)



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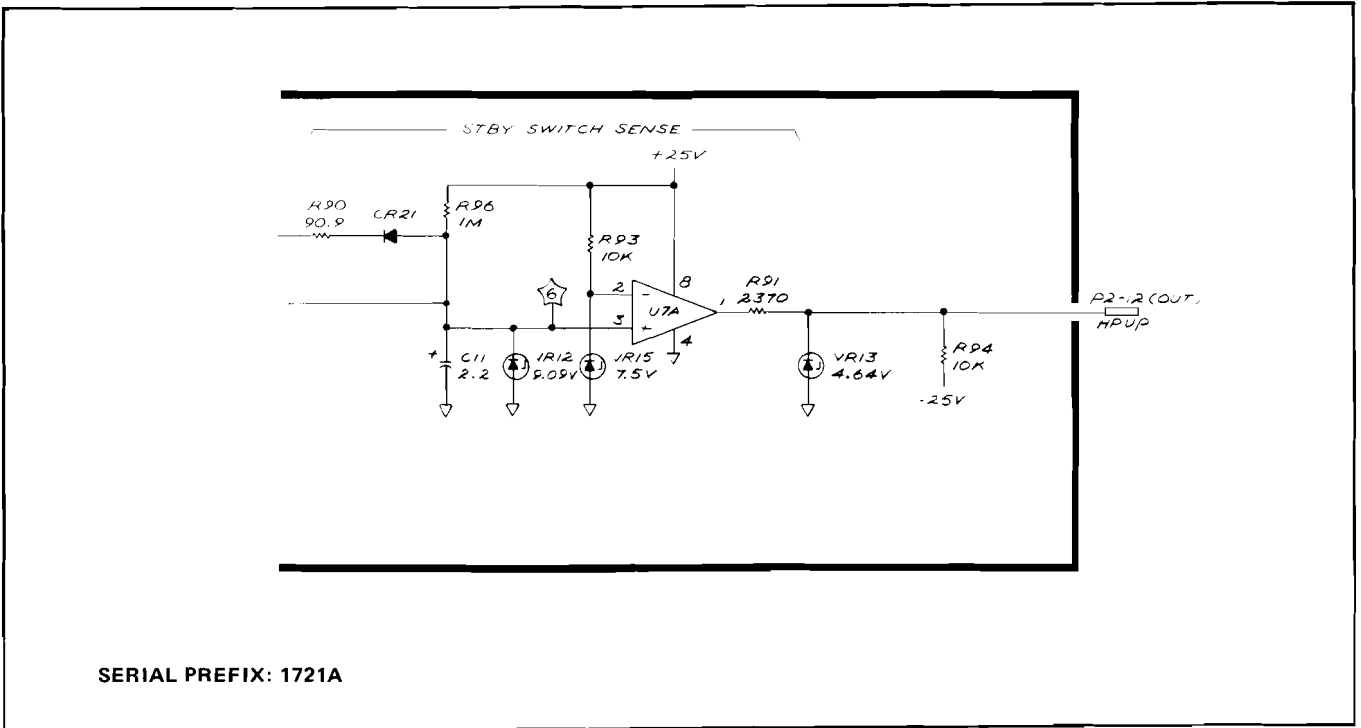


Figure 7-15. Partial Schematic of A24 Voltage Regulator, Block **E** (CHANGE J)

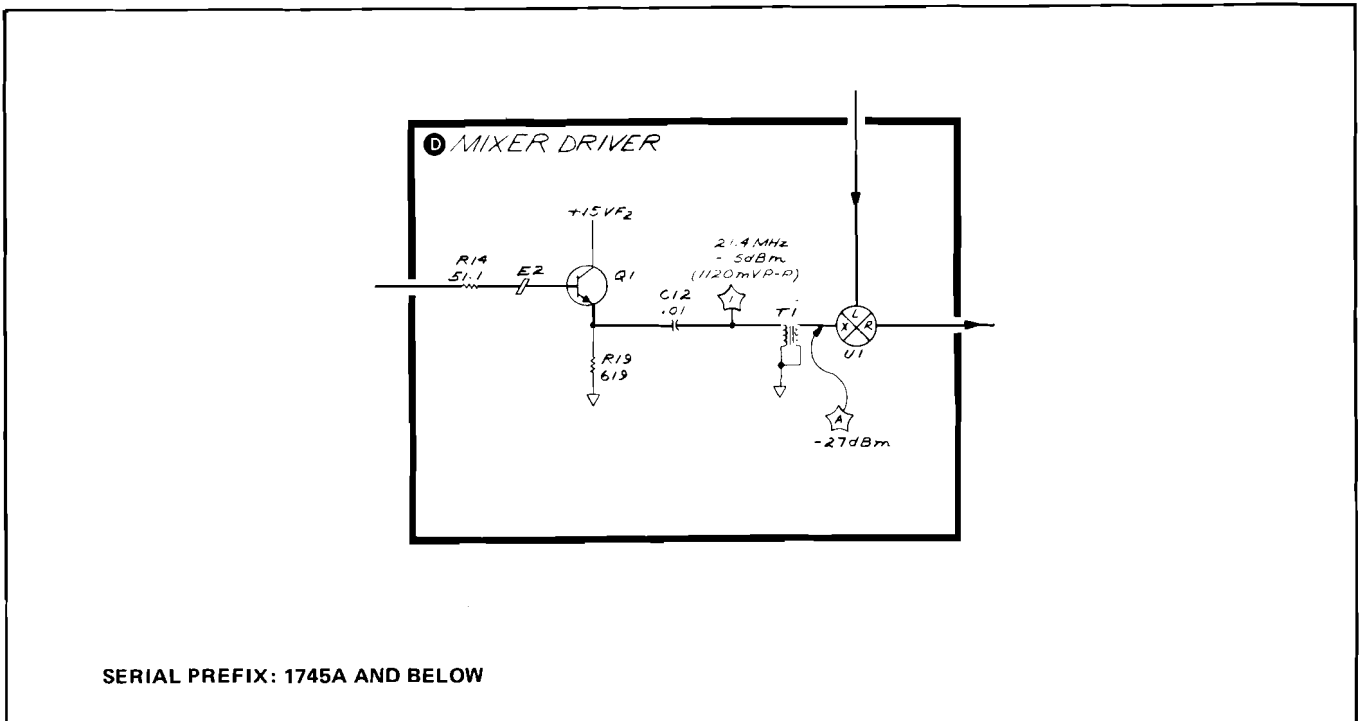


Figure 7-16. Partial Schematic of A4A6A2 Down Converter, Block **D** (CHANGE P)

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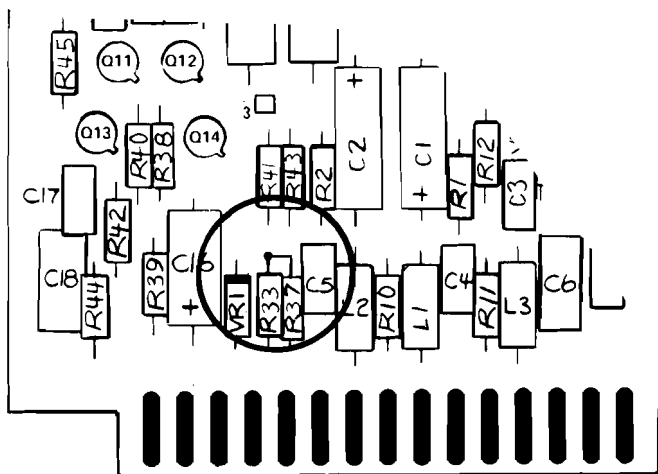
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**MODIFICATIONS TO A1A2 Z AXIS AMPLIFIERS (HP PART NOS.
85662-60054 and 85662-60100) FOR COMPATIBILITY WITH
CRTS (HP PART NOS. 5083-4191 and 5083-5791).**

The A1A2 Z Axis Amplifier, HP Part No. 85662-60054, and the CRT, HP Part No. 5083-4191 are compatible. The A1A2 Z Axis Amplifier, HP Part No. 85662-60100, and the CRT, HP Part No. 5083-5791, are compatible. No modifications are necessary for these combinations.

The new A1A2 Z Axis Amplifier (HP Part No. 85662-60100) is not compatible with the old A1V1 CRT (HP Part NO. 5083-4191). To make this new board compatible with the old CRT, the modification shown below is necessary. This involves unsoldering the top lead of R37 and connecting it to the top lead of R33.



The old A1A2 Z Axis Amplifier (HP Part No. 85662-60054) is not compatible with the new A1V1 CRT (HP Part No. 5083-5791). To make this old board compatible with the new CRT, the modification shown below is necessary. This involves unsoldering the top lead of R37 and connecting it to the bottom lead of VR1.

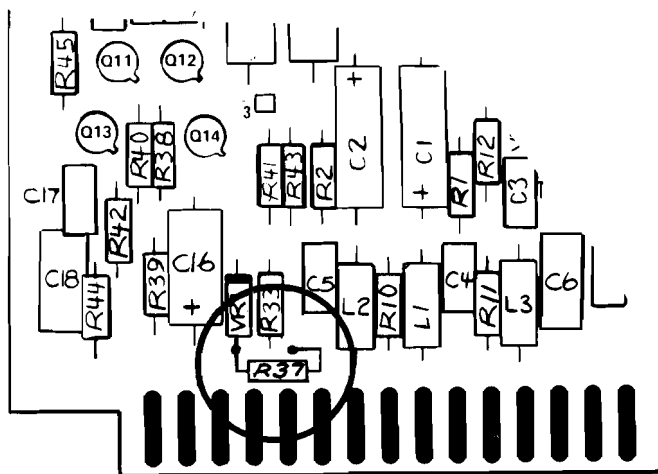


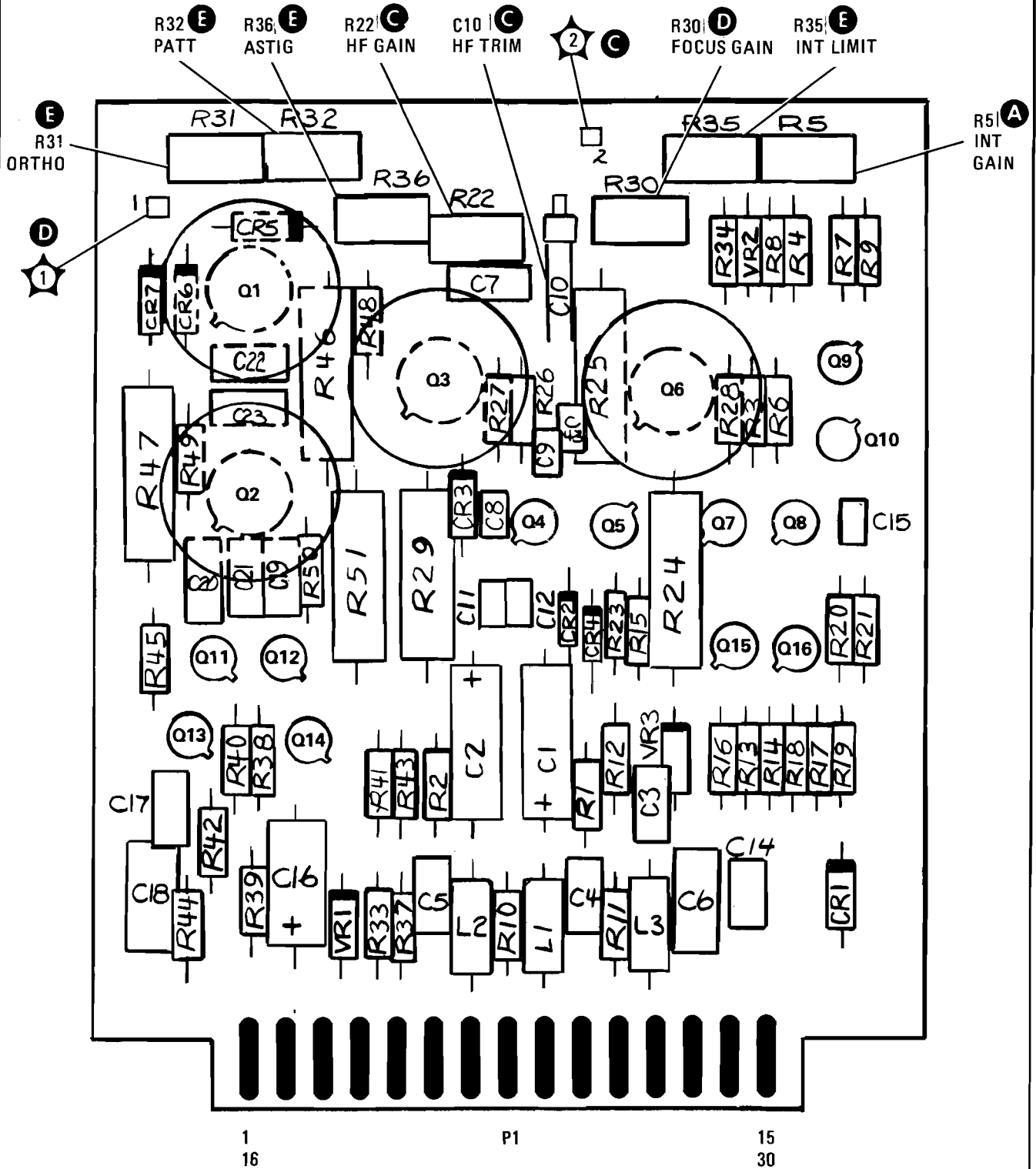
Figure 7-17. A1A2 Z Axis Amplifier Modifications for CRT Compatibility (CHANGE N)

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A1A2 Z AXIS AMPLIFIER



SERIAL PREFIX: 1826A AND BELOW

Figure 7-18. A1A2 Z Axis Amplifier, Component Locations (CHANGE N)

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A4A6
DOWN/UP CONVERTER

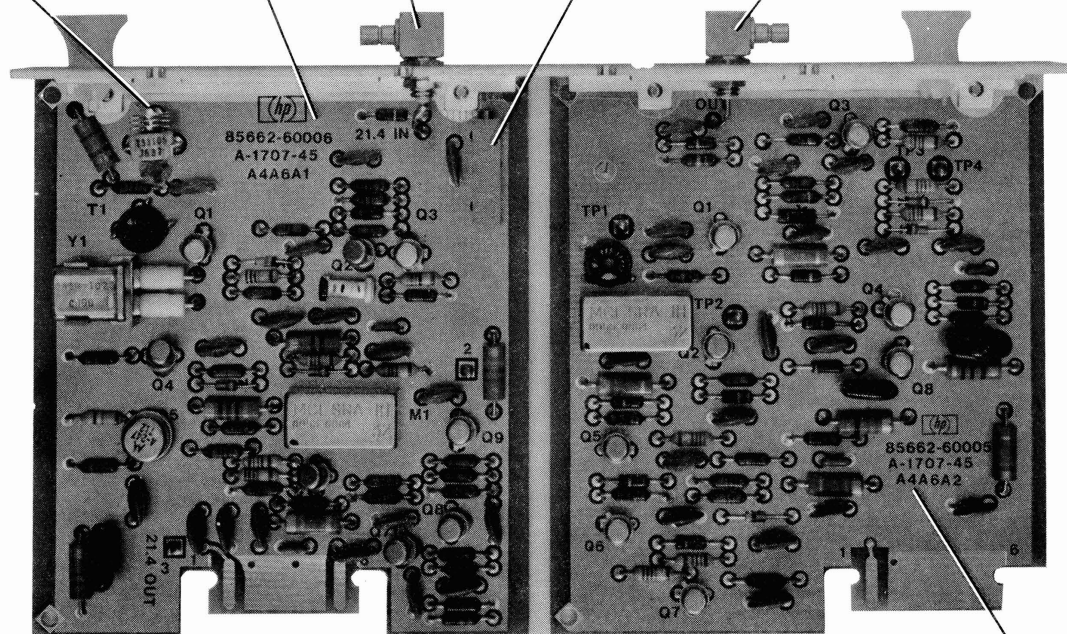
A4A6A1C31
18.4 MHz NULL

A4A6A1
UP CONVERTER

A4A6J1

A4A6A1R29
WIDE GAIN

A4A6J2



A4A6A2
DOWN CONVERTER

SERIAL PREFIX: 1745A AND BELOW

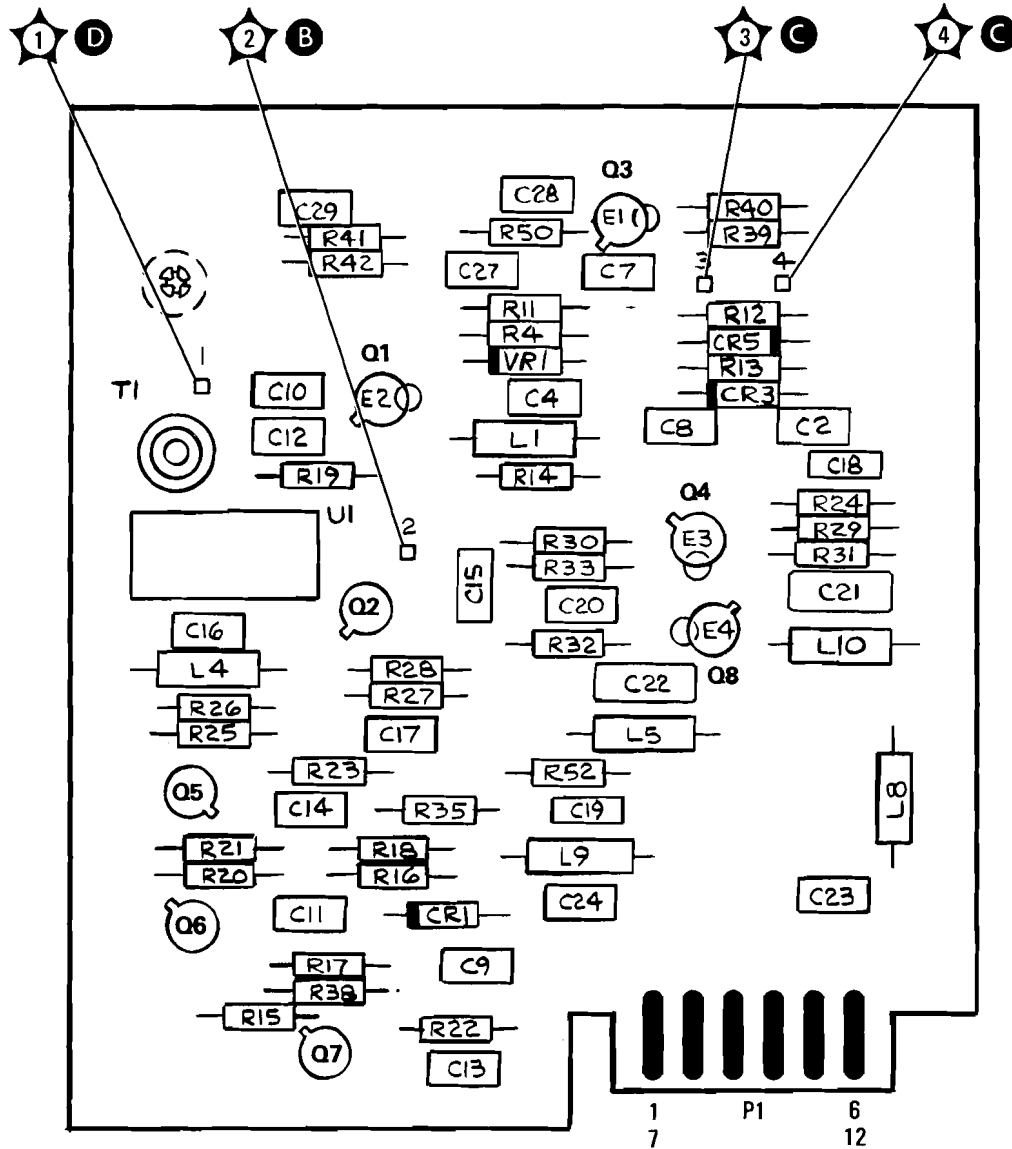
Figure 7-19. A4A6 Down/Up Converter, Assembly and Component Locations (CHANGE P)

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A4A6A2 DOWN CONVERTER



SERIAL PREFIX: 1745A AND BELOW

Figure 7-20. A4A6A2 Down Converter, Component Locations (CHANGE P)

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Table 7-12. Model 8568A Replaceable Parts (Cont'd) (CHANGE Q)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A9	85662-60002	1	BOARD ASSEMBLY, IF CONTROL	28480	85662-60002
A4A9C1	0180-0197	5	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C2	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C3	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C4	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C5	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C6	0160-2055	1	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A9CR1	1901-0040	12	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR2	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR3			NOT ASSIGNED		
A4A9CR4			NOT ASSIGNED		
A4A9CR5			NOT ASSIGNED		
A4A9CR6	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR7	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR8			NOT ASSIGNED		
A4A9CR9			NOT ASSIGNED		
A4A9CR10			NOT ASSIGNED		
A4A9CR11	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR12	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR13	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR14	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR15	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR16	1910-0016	2	DIODE-GE 60V 60MA 1US DO-7	28480	1910-0016
A4A9CR17	1910-0016		DIODE-GE 60V 60MA 1US DO-7	28480	1910-0016
A4A9CR18	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR19	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR20	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9L1	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG	0217B	15-4435-1K
A4A9Q1	1854-0404	23	TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q2	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q3	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q4	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q5	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q6	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q7	1853-0281	8	TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	0203G	2N2907A
A4A9Q8	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q9	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q10	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q11	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q12	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q13	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q14	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q15	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q16	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q17	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q18	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q19	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q20	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q21	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q22	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	0203G	2N2907A
A4A9Q23	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	0203G	2N2907A
A4A9Q24	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q25	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q26	1854-0404		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A4A9Q27	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	0203G	2N2907A
A4A9Q28	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	0203G	2N2907A
A4A9Q29	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	0203G	2N2907A
A4A9Q30	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	0203G	2N2907A
A4A9Q31	1853-0281		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	0203G	2N2907A
A4A9R1	0698-0085	17	RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R2	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R3	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R4	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R5	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R6	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R7	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R8	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R9	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R10	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R11	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R12	0757-0442	9	RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
A4A9R13	0757-0280	4	RESISTOR 1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1001-F
A4A9R14	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
A4A9R15	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F

Table 7-12. Model 8568A Replaceable Parts (Cont'd) (CHANGE Q)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A9R16	0757-0317	1	RESISTOR 1.33K 1% .125W F TC0+100	03298	C4-1/8-T0-1331-F
A4A9R17	0757-0442		RESISTOR 10K 1% .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A9R18	0757-0442		RESISTOR 10K 1% .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A9R19	0757-0442		RESISTOR 10K 1% .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A9R20	0757-0442		RESISTOR 10K 1% .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A9R21	0757-0442		RESISTOR 10K 1% .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A9R22	0698-3260	4	RESISTOR 464K 1% .125W F TC0+100	0160G	CC
A4A9R23	0698-3454	2	RESISTOR 215K 1% .125W F TC0+100	03298	C4-1/8-T0-2153-F
A4A9R24	0698-3160	1	RESISTOR 31.6K 1% .125W F TC0+100	03298	C4-1/8-T0-3162-F
A4A9R25	0698-3454		RESISTOR 215K 1% .125W F TC0+100	03298	C4-1/8-T0-2153-F
A4A9R26	0757-0464	1	RESISTOR 90.9K 1% .125W F TC0+100	03298	C4-1/8-T0-9092-F
A4A9R27	0757-0442		RESISTOR 10K 1% .125W F TC0+100	03298	C4-1/8-T0-1002-F
A4A9R28	0757-0456	1	RESISTOR 51.1K 1% .125W F TC0+100	03298	C4-1/8-T0-5112-F
A4A9R29	0757-0420	1	RESISTOR 750 1% .125W F TC0+100	03298	C4-1/8-T0-751-F
A4A9R30	0757-0438	12	RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R31	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R32	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R33	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R34	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R35	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R36	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R37	0698-0085		RESISTOR 2.61K 1% .125W F TC0+100	03298	C4-1/8-T0-2611-F
A4A9R38	0698-0085		RESISTOR 2.61K 1% .125W F TC0+100	03298	C4-1/8-T0-2611-F
A4A9R39	0698-0085		RESISTOR 2.61K 1% .125W F TC0+100	03298	C4-1/8-T0-2611-F
A4A9R40	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R41	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R42	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R43	0698-0085		RESISTOR 2.61K 1% .125W F TC0+100	03298	C4-1/8-T0-2611-F
A4A9R44	0757-0426	1	RESISTOR 1.62K 1% .125W F TC0+100	03298	C4-1/8-T0-1621-F
A4A9R45	0757-0280		RESISTOR 1K 1% .125W F TC0+100	03298	C4-1/8-T0-1001-F
A4A9R46	0757-0419	2	RESISTOR 681 1% .125W F TC0+100	03298	C4-1/8-T0-681R-F
A4A9R47	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R48	0757-0280		RESISTOR 1K 1% .125W F TC0+100	03298	C4-1/8-T0-1001-F
A4A9R49	0698-3260		RESISTOR 464K 1% .125W F TC0+100	0160G	CC
A4A9R50	0698-3260		RESISTOR 464K 1% .125W F TC0+100	0160G	CC
A4A9R51	0757-0416	2	RESISTOR 511 1% .125W F TC0+100	03298	C4-1/8-T0-511R-F
A4A9R52	0757-0416		RESISTOR 511 1% .125W F TC0+100	03298	C4-1/8-T0-511R-F
A4A9R53	0757-0279	3	RESISTOR 3.16K 1% .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A9R54	0698-3260		RESISTOR 464K 1% .125W F TC0+100	0160G	CC
A4A9R55	0698-3444	1	RESISTOR 316 1% .125W F TC0+100	03298	C4-1/8-T0-316R-F
A4A9R56	0757-0279		RESISTOR 3.16K 1% .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A9R57	0757-0280		RESISTOR 1K 1% .125W F TC0+100	03298	C4-1/8-T0-1001-F
A4A9R58	0698-0085		RESISTOR 2.61K 1% .125W F TC0+100	03298	C4-1/8-T0-2611-F
A4A9R59	0698-0085		RESISTOR 2.61K 1% .125W F TC0+100	03298	C4-1/8-T0-2611-F
A4A9R60	2100-3109	1	RESISTOR-TRMR 2K 10% C 8IDE-ADJ 17-TRN	73138	89PR2K
A4A9R61	2100-3103	1	RESISTOR-TRMR 10K 10% C 8IDE-ADJ 17-TRN	73138	89PR10K
A4A9R62	2100-3054	1	RESISTOR-TRMR 50K 10% C 8IDE-ADJ 17-TRN	73138	89PR50K
A4A9R63	0757-0419		RESISTOR 681 1% .125W F TC0+100	03298	C4-1/8-T0-681R-F
A4A9R64	0757-0438		RESISTOR 5.11K 1% .125W F TC0+100	03298	C4-1/8-T0-5111-F
A4A9R65	2100-3094	1	RESISTOR-TRMR 100K 10% C 8IDE-ADJ 17-TRN	73138	89PR100K
A4A9R66	2100-3161	1	RESISTOR-TRMR 20K 10% C 8IDE-ADJ 17-TRN	73138	89PR20K
A4A9R67	0757-0465	1	RESISTOR 100K 1% .125W F TC0+100	03298	C4-1/8-T0-1003-F
A4A9R68	0757-0279		RESISTOR 3.16K 1% .125W F TC0+100	03298	C4-1/8-T0-3161-F
A4A9TP1	1251-0600	2	TEST POINT	28480	1251-0600
A4A9TP2	1251-0600		TEST POINT	28480	1251-0600
A4A9U1	1826-0092	1	IC OP AMP	28480	1826-0092
A4A9U2	1820-1418	2	IC DCDR TTL L8 BCD-T0-DEC 4-T0-10-LINE	0169H	8N74L842N
A4A9U3	1820-1199	1	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8175A
A4A9U4	1820-1418		IC DCDR TTL L8 BCD-T0-DEC 4-T0-10-LINE	0169H	8N74L842N
A4A9U5	1820-1199	1	IC INV TTL L8 HEX 1-INP	0169H	8N74L804N
A4A9U6	1820-1196	5	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
A4A9U7	1820-1216	1	IC DCDR TTL L8 3-T0-8-LINE 3-INP	0379D	8N74L8138N
A4A9U8	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
A4A9U9	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
A4A9U10	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
A4A9U11	1820-1208	1	IC GATE TTL L8 OR QUAD 2-INP	0291J	74L832A
A4A9U12	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
A4A9U13	1820-1200	1	IC INV TTL L8 HEX 1-INP	0169H	8N74L805N
A4A9VR1	1902-0041	1	DIODE-ZNR 5.11V 5% DO-7 PD=.4W TC=-.009%	02036	82 10939-98
A4A9VR2	1902-3203	1	DIODE-ZNR 14.7V 5% PD=.4W	02236	FZ7206

A4A9 IF CONTROL, CIRCUIT DESCRIPTION (CHANGE Q)

Control information for A4 IF-Video assembly is transmitted over the Instrument Bus from the A15 Processor and decoded by A4A9 IF Control.

Address Decoder **B**

The Address Decoder monitors ADR 0 - 4 and activates the input latches for addresses 20 and 21 when LTIO goes low. Address 20 activates U6, U8, and U9. Address 21 activates U3, U10, and U12:

	ADR 4 (16)	ADR 3 (8)	ADR 2 (4)	ADR 1 (2)	ADR 0 (1)
Address 20	H	L	H	L	L
Address 21	H	L	H	L	H

Input Latches **A**

The input latches hold whatever was present at their inputs when LTIO goes low. The output goes high to activate the function. For example, when U8 pin 5 is high, SG10 (step gain 10) is activated.

A0.0 to A15.9 dB Control **C**

Fourteen dB (A8dB, A4dB, and A2dB) of attenuation is accomplished by switching in discrete steps of attenuation in A4A5 Step Gain. The smaller steps (0.1 dB through 1.9 dB) are accomplished by sinking discrete amounts of current through a PIN diode attenuator in A4A5. The output of U13 goes low when a particular step of attenuation is required. The fixed resistors tied to edge-connector pin P2-7 determine the amount of current sunk (and hence the attenuation) of the PIN diode attenuator. The operation of the attenuator is described in A4A5.

IF Gain Control **D**

The IF Gain Control interfaces with A4A5 Step Gain, the Log Amplifiers in A4A2 and A4A3, and A4A1 Video Processor. A table on the A4A9 schematic describes the conditions under which the steps are used.

Bandwidth Control **E**

Bandwidths from 3 MHz to 100 kHz (BW5 \geq + 14.8V). These bandwidths are produced in the 21.4 MHz IF by four parallel tank circuits (two in A4A4 Bandwidth Filter and two on A4A8 Attenuator—Bandwidth Filter). Their Q (which determines bandwidth) is controlled by PIN diodes used as variable resistors. The resistance of these PIN diodes is determined by the average current through them, which is generated by Q11. Either R60, R61, or R62 is switched in by U2, depending on which bandwidth had been

selected. These potentiometers (3 MHz, 1 MHz, and 300 kHz) determine the amount of current sunk by Q11, which in turn determines the bandwidth. If no current is sunk by Q11, the filters go to their highest Q (determined by factory-selected resistors), which yields the 100 kHz bandwidth.

Bandwidths from 30 kHz to 3 kHz (BW5= -0.6V). These bandwidths are produced in the 21.4 MHz IF by five crystal filters (two in A4A8 and three in A4A4). Their Q (which determines bandwidth) is controlled by PIN diodes, the same as for the wider bandwidths. (Refer to the preceding discussion of the wider bandwidths.) Q12 is the current sink for bandwidths from 30 kHz to 3 kHz. The amount of current it sinks is selected by U2 and adjusted by potentiometers R65 and R66 (10 kHz and 3 kHz), depending on which bandwidth is selected. If no current is sunk by Q12, the filters go to their lowest Q (determined by factory-selected resistors), which yields the 30 kHz bandwidth. Q2 should be off except for the 3 MHz to 100 kHz bandwidths.

Bandwidths from 1 kHz to 10 Hz (SWITCH = 0V). These bandwidths are produced in the 3 MHz IF (A4A7) by five crystal filters. The Q of these filters is controlled by resistors which are switched in by diodes. These, in turn, are controlled by Q27, Q28, Q30, and Q31. The transistors switch lines which are named after the bandwidths they produce. Q29 is on (saturated) only for bandwidths 1 kHz through 10 Hz.

A4A9 IF CONTROL, TROUBLESHOOTING (CHANGE Q)

If the BW5 control line is not switching, A7 is probably defective. If Q7 is found to be defective, check Q8 to determine if it has failed also.

Figure 7-17 below is reproduced from the troubleshooting hints for the A4A5 Step Gain board. It shows the results of an easy test of the operation of the 0.0 to 1.9 dB attenuator section of the A0.0 to A15.9 dB control. From the figure, it can be noted that the 0.1 dB steps seem to be more accurate from -11 dBm to -12 dBm than from -10 dBm to -11 dBm. The truth table in Note 10 indicates that only the A1 dB control line is different in these ranges. When R24 is switched in, the impedance level of the circuit changes. Consequently the step size is affected. As long as the steps are discrete and monotonic during the test, the circuit is working properly.

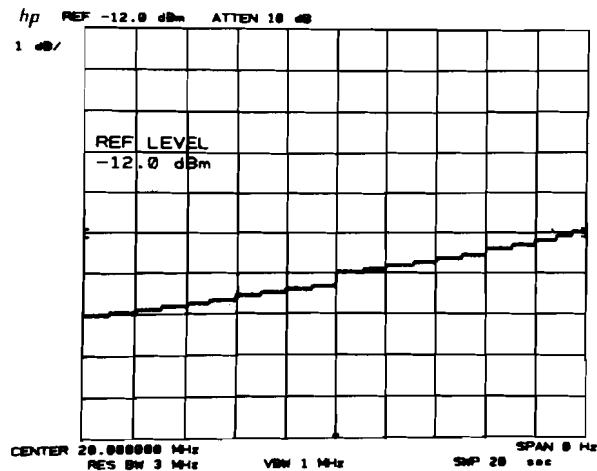


Figure 7-21. 0.1 dB Step Gain Display

If every other step was inaccurate during the 1 dB step test of the A0.0 – A15.9 dB Attenuator on the A4A5 Step Gain board, then R24 is an improper value. Refer to Section V for the procedure to determine the correct value.

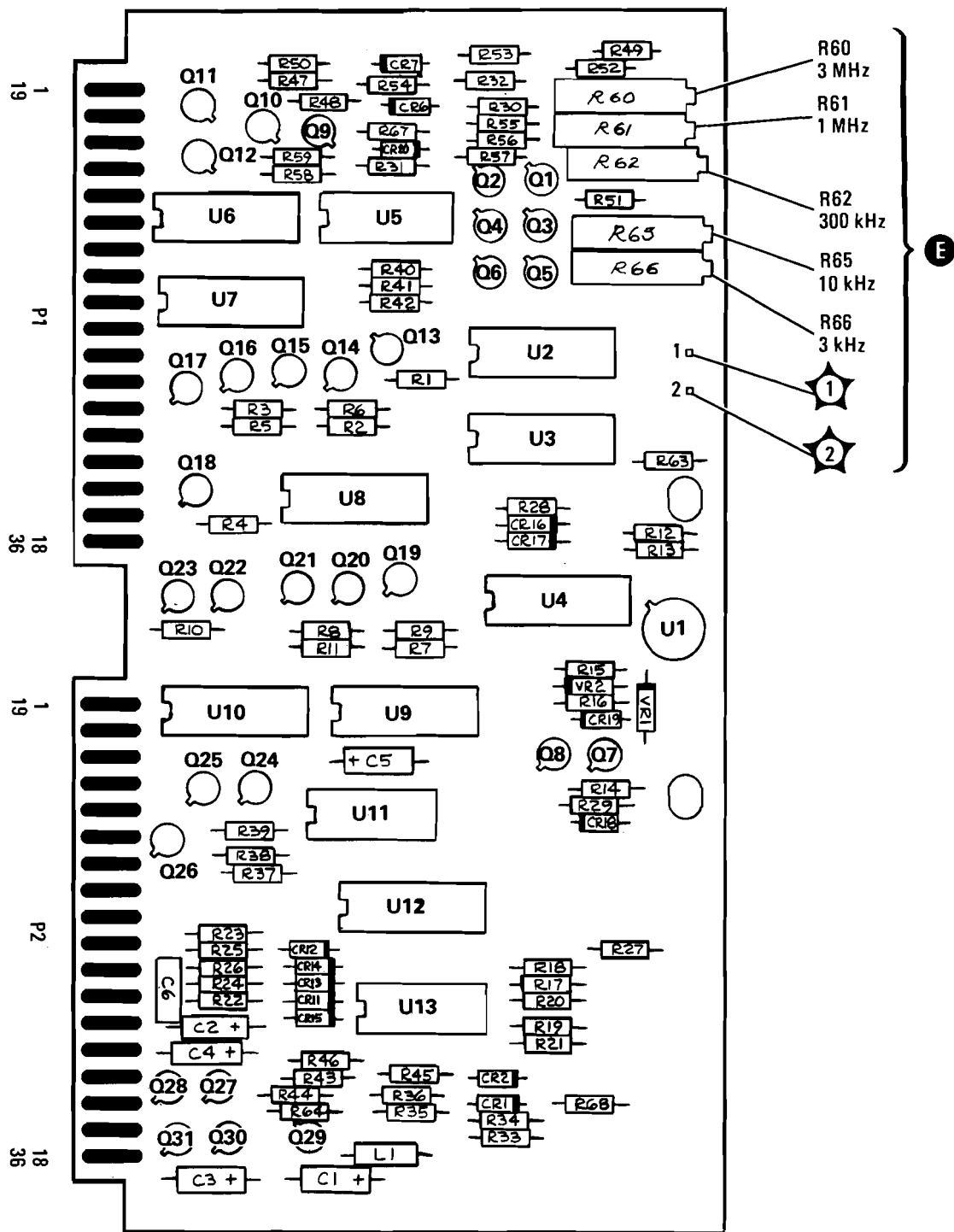
Table 7-13. A4A9 IF Control, Replaceable Parts (1 of 2) (CHANGE Q)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4A9	85662-60002	1	BOARD ASSEMBLY, IF CONTROL	28480	85662-60002
A4A9C1	0180-0197	5	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C2	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C3	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C4	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C5	0180-0197		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	0420J	150D225X9020A2
A4A9C6	0160-2055	1	CAPACITOR-FXD .01UF +80-20% 100VDC CER	28480	0160-2055
A4A9CR1	1901-0040	12	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR2	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR3			NOT ASSIGNED		
A4A9CR4			NOT ASSIGNED		
A4A9CR5			NOT ASSIGNED		
A4A9CR6	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR7	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR8			NOT ASSIGNED		
A4A9CR9			NOT ASSIGNED		
A4A9CR10			NOT ASSIGNED		
A4A9CR11	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR12	1901-0040	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040	
A4A9CR13	1901-0040	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040	
A4A9CR14	1901-0040	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040	
A4A9CR15	1901-0040	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040	
A4A9CR16	1910-0016	2	DIODE-GE 60V 60MA 1US DO-7	28480	1910-0016
A4A9CR17	1910-0016		DIODE-GE 60V 60MA 1US DO-7	28480	1910-0016
A4A9CR18	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR19	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9CR20	1901-0040		DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A4A9L1	9100-1618	1	COIL-MLD 5.6UH 10% Q=45 .155DX.375LG	02178	15-4435-1K
A4A9Q1	1854-0404	23	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A9Q2	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A9Q3	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A9Q4	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A9Q5	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A9Q6	1854-0404	8	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A9Q7	1853-0281		TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	0203G	2N2907A
A4A9Q8	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A9Q9	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A9Q10	1854-0404		TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404
A4A9Q11	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q12	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q13	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q14	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q15	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q16	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q17	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q18	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q19	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q20	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q21	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q22	1853-0281	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	0203G	2N2907A	
A4A9Q23	1853-0281	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	0203G	2N2907A	
A4A9Q24	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q25	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q26	1854-0404	TRANSISTOR NPN 8I TO-18 PD=360MW	28480	1854-0404	
A4A9Q27	1853-0281	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	0203G	2N2907A	
A4A9Q28	1853-0281	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	0203G	2N2907A	
A4A9Q29	1853-0281	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	0203G	2N2907A	
A4A9Q30	1853-0281	TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	0203G	2N2907A	
A4A9Q31	1853-0281		TRANSISTOR PNP 2N2907A 8I TO-18 PD=400MW	0203G	2N2907A
A4A9R1	0698-0085	17	RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R2	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R3	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R4	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R5	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
A4A9R6	0698-0085	RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F	
A4A9R7	0698-0085	RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F	
A4A9R8	0698-0085	RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F	
A4A9R9	0698-0085	RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F	
A4A9R10	0698-0085	RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F	
A4A9R11	0698-0085	RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F	
A4A9R12	0757-0442	9	RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
A4A9R13	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1001-F
A4A9R14	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
A4A9R15	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F

Table 7-13. AAA9 IF Control, Replaceable Parts (2 of 2) (CHANGE Q)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
AAA9R16	0757-0317	1	RESISTOR 1.33K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1331-F
AAA9R17	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
AAA9R18	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
AAA9R19	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
AAA9R20	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
AAA9R21	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
AAA9R22	0698-3260	4	RESISTOR 464K 1% .125W F TC=0+-100	0160G	CC
AAA9R23	0698-3454	2	RESISTOR 215K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2153-F
AAA9R24*	0698-3160	1	RESISTOR 31.6K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-3162-F
AAA9R25	0698-3454		RESISTOR 215K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2153-F
AAA9R26	0757-0464	1	RESISTOR 90.9K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-9092-F
AAA9R27	0757-0442		RESISTOR 10K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1002-F
AAA9R28	0757-0458	1	RESISTOR 51.1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5112-F
AAA9R29	0757-0420	1	RESISTOR 750 1% .125W F TC=0+-100	0329B	C4-1/8-T0-751-F
AAA9R30	0757-0438	12	RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R31	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R32	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R33	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R34	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R35	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R36	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R37	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
AAA9R38	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
AAA9R39	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
AAA9R40	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R41	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R42	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R43	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
AAA9R44	0757-0428	1	RESISTOR 1.62K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1621-F
AAA9R45	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1001-F
AAA9R46	0757-0419	2	RESISTOR 681 1% .125W F TC=0+-100	0329B	C4-1/8-T0-681R-F
AAA9R47	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R48	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1001-F
AAA9R49	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	0160G	CC
AAA9R50	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	0160G	CC
AAA9R51	0757-0416	2	RESISTOR 511 1% .125W F TC=0+-100	0329B	C4-1/8-T0-511R-F
AAA9R52	0757-0416		RESISTOR 511 1% .125W F TC=0+-100	0329B	C4-1/8-T0-511R-F
AAA9R53	0757-0279	3	RESISTOR 3.16K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-3161-F
AAA9R54	0698-3260		RESISTOR 464K 1% .125W F TC=0+-100	0160G	CC
AAA9R55	0698-3444	1	RESISTOR 316 1% .125W F TC=0+-100	0329B	C4-1/8-T0-316R-F
AAA9R56	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-3161-F
AAA9R57	0757-0280		RESISTOR 1K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1001-F
AAA9R58	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
AAA9R59	0698-0085		RESISTOR 2.61K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-2611-F
AAA9R60	2100-3109	1	RESISTOR-TRMR 2K 10% C SIDE-ADJ 17-TRN	73138	89PR2K
AAA9R61	2100-3103	1	RESISTOR-TRMR 10K 10% C SIDE-ADJ 17-TRN	73138	89PR10K
AAA9R62	2100-3054	1	RESISTOR-TRMR 50K 10% C SIDE-ADJ 17-TRN	73138	89PR50K
AAA9R63	0757-0419		RESISTOR 681 1% .125W F TC=0+-100	0329B	C4-1/8-T0-681R-F
AAA9R64	0757-0438		RESISTOR 5.11K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-5111-F
AAA9R65	2100-3094	1	RESISTOR-TRMR 100K 10% C SIDE-ADJ 17-TRN	73138	89PR100K
AAA9R66	2100-3161	1	RESISTOR-TRMR 20K 10% C SIDE-ADJ 17-TRN	73138	89PR20K
AAA9R67	0757-0465	1	RESISTOR 100K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-1003-F
AAA9R68	0757-0279		RESISTOR 3.16K 1% .125W F TC=0+-100	0329B	C4-1/8-T0-3161-F
AAA9TP1	1251-0600	2	TEST POINT	28480	1251-0600
AAA9TP2	1251-0600		TEST POINT	28480	1251-0600
AAA9U1	1826-0092	1	IC OP AMP	28480	1826-0092
AAA9U2	1820-1418	2	IC DCDR TTL L8 BCD-TO-DEC 4-TO-10-LINE	0169H	8N74L842N
AAA9U3	1820-1199	1	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8175A
AAA9U4	1820-1418		IC DCDR TTL L8 BCD-TO-DEC 4-TO-10-LINE	0169H	8N74L842N
AAA9U5	1820-1199	1	IC INV TTL L8 HEX 1-INP	0169H	8N74L804N
AAA9U6	1820-1196	5	IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
AAA9U7	1820-1216	1	IC DCDR TTL L8 3-TO-8-LINE 3-INP	0379D	8N74L8138N
AAA9U8	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
AAA9U9	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
AAA9U10	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
AAA9U11	1820-1208	1	IC GATE TTL L8 OR QUAD 2-INP	0291J	74L832A
AAA9U12	1820-1196		IC FF TTL L8 D-TYPE POS-EDGE-TRIG COM	0379D	AM74L8174N
AAA9U13	1820-1200	1	IC INV TTL L8 HEX 1-INP	0169H	8N74L805N
AAA9VR1	1902-0041	1	DIODE-ZNR 5.11V 5% DO-7 PD=.4W TC=-.009X	0203G	82 10939-98
A4A9VR2	1902-3203	1	DIODE-ZNR 14.7V 5% PD=.4W	02236	FZ7206

A4A9 IF CONTROL



SERIAL PREFIX: 1721A

Figure 7-22. A4A9 IF Control, Component Locations (CHANGE Q)

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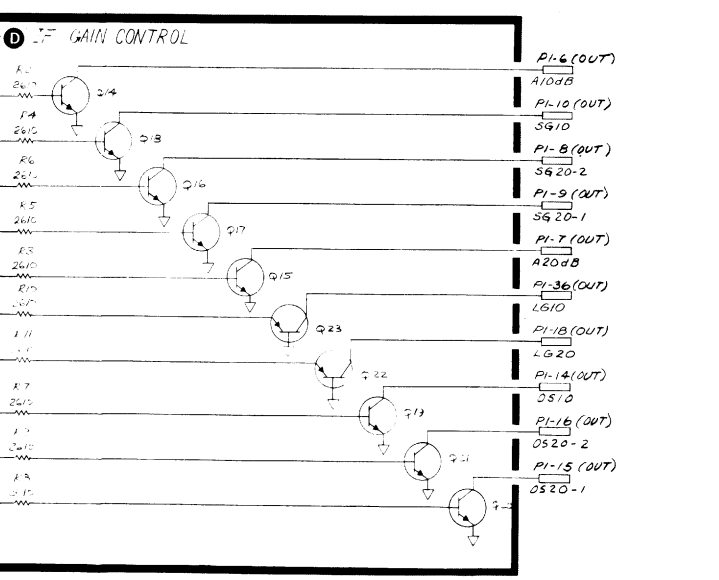
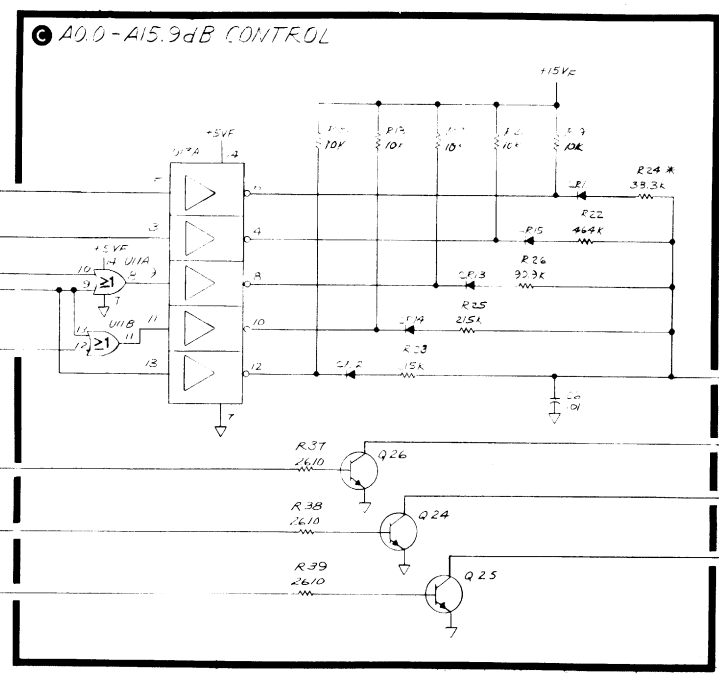
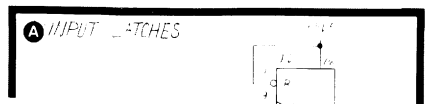
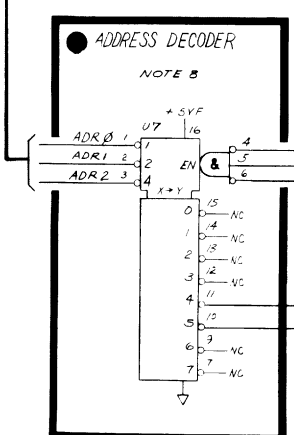
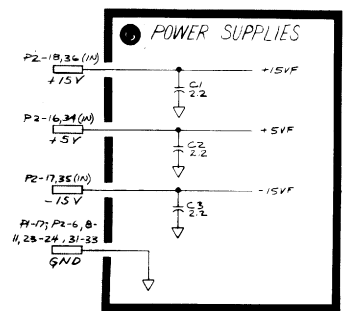
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A4A9 IF CONTROL
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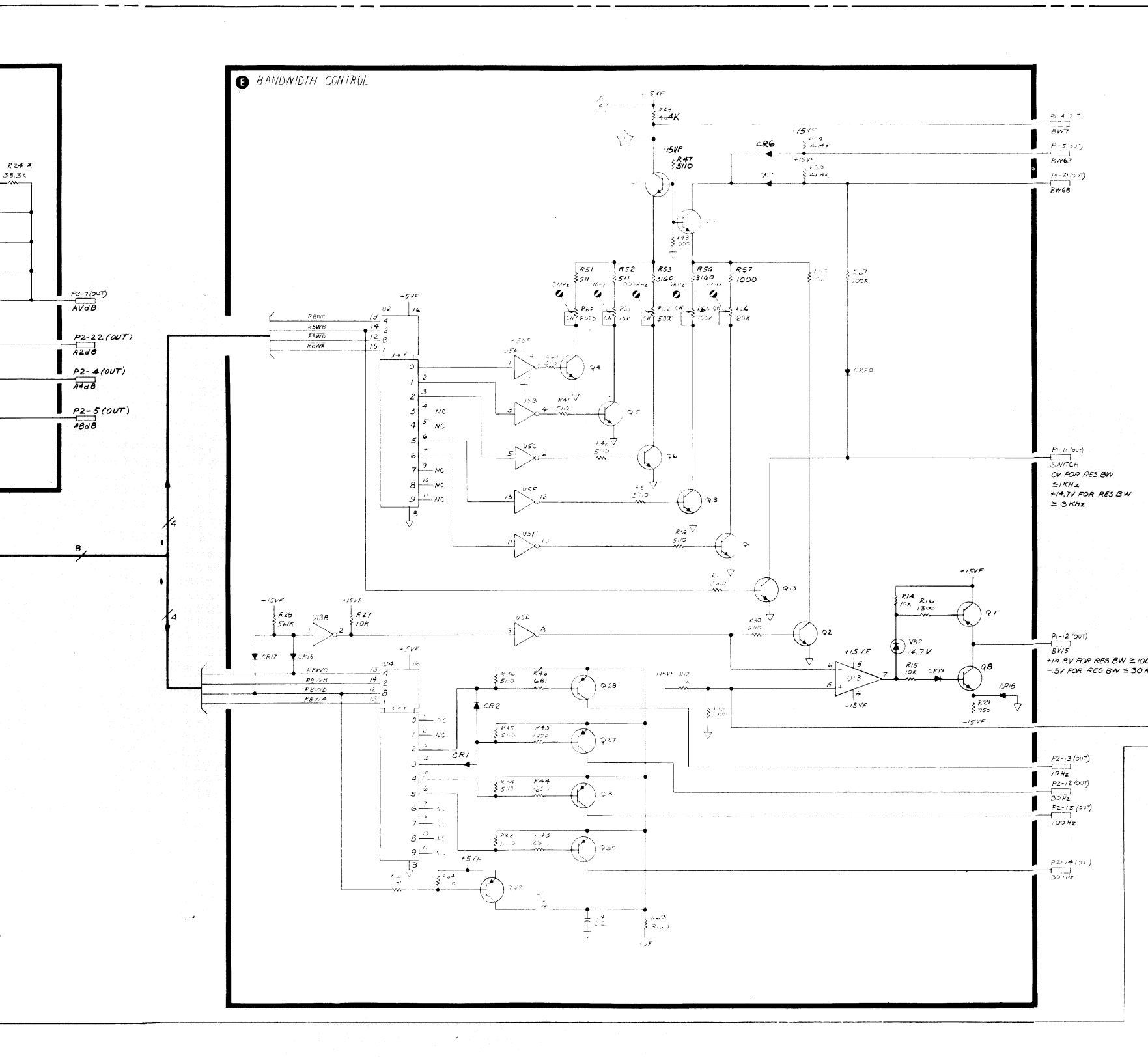
PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	REC CAL	A4A1, P2-2	A
9	RFDS	A4A1, P1-12	A
2	RF ZEPD	A4A1, P2-1	A
20	ALOP	A4A1, P2-2	A
3	JT DSBL	P1-9, P1-15	A
21	RINLP	A4A4, P1-19	E
4	RVT	A4A3, P1-10	E
20	LTIO	A4A10, P1-11	B
5	AVG	A4A5, P1-11	E
21	ADR3	A4A10, J1-23	B
6	A12B	A4A9, P1-7	D
24	A112	A4A10, J1-15	B
7	A20B	A4A8, P1-8	D
25	A114	A4A10, J1-17	B
8	S920-2	A4A5, P1-10	D
20	ADR3	A4A10, J1-23	B
9	S920-1	A4A5, P1-9	D
21	ADR1	A4A10, J1-24	B
12	S910	A4A2, P1-8	D
22	ZF L	A4A10, J1-15	A
11	SWITCH	A4A6	E
29	ZF14	A4A10, J1-17	A
12	BVS	A4A9, A3, A4	E
30	ZOB15	A4A10, J1-18	A
13	ZOH12	A4A2, A3	F
31	ZDF13	A4A10, J1-16	G
14	ZVF	A4A1, P1-8	D
32	VEWD	A4A1, P1-2	A
15	OS20-1	A4A1, P1-9	D
33	VBWC	A4A1, P1-8	A
16	DS10-2	A4A1, P1-10	D
34	VBWE	A4A1, P1-4	A
17	ZVD	A4A1, P1-5	G
35	VBWA	A4A1, P1-5	A
18	ZS11	A4A2, P1-7	D
36	ZVD	A4A3, P1-1	D

PIN	SIGNAL	TO/FROM	FUNCTION BLOCK
1	ZOB11	A4A10, J1-14	A
19	ZOB6	A4A10, J1-9	A
2	ZOB7	A4A10, J1-2	A
20	ZOB8	A4A10, J1-11	A
3	ZOB7	A4A10, J1-10	A
21	ZOB12	A4A10, J1-13	A
4	A4B	A4A5, P2-16	C
22	A3B	A4A5, P2-17	C
5	AB2B	A4A5, P2-15	C
23	GND		G
6	GND		G
7	AV4B	A4A5, P2-8	C
25	ZOB5	A4A10, J1-8	A
8	GND		G
26	ZOB3	A4A10, J1-6	A
9	GND		G
27	ZOB1	A4A10, J1-4	A
10	GND		G
28	ZOB9	A4A10, J1-3	A
11	GND		G
29	ZOB2	A4A10, J1-5	A
12	ZOH4	A4A7, P2-1	E
30	ZOB4	A4A10, J1-7	A
13	ZOH4	A4A7, P2-2	E
31	GND		G
14	ZOH4	A4A7, P2-7	E
32	GND		G
15	ZOH4	A4A7, P2-15	E
33	GND		G
16	+5V		G
34	+5V		G
17	-15V		G
35	-15V		G
18	+15V		G
36	-15V		G

- P2-28 IOB0
- P2-27 IOB1
- P2-29 IOB2
- P2-26 IOB3
- P2-30 IOB4
- P2-25 IOB5
- P2-19 IOB6
- P2-3 IIOB7
- P2-20 IOB8
- P2-2 IIOB9
- P2-21 IOB10
- P2-1 IOB11
- P2-28 IOB12
- P1-31 IOB13
- P1-24 IOB14
- P1-30 IOB15
- P1-23 ADR0
- P1-27 ADR1
- P1-24 ADR2
- P1-26 ADR3
- P1-25 ADR4
- P1-22 LT10



15-000-1A/FIX/12/14 DATE 8-27-77



NOTES

1. REFERENCE DESIGNATORS WITHIN THIS ASSEMBLY ARE ABBREVIATED. PREFIX ABBREVIATION WITH ASSEMBLY NUMBER FOR COMPLETE REFERENCE DESIGNATOR.
2. UNLESS OTHERWISE INDICATED, RESISTANCE IS OHMS (Ω), CAPACITANCE IN MICROFARADS (μF), INDUCTANCE IN MICROHENRIES (μH).
3. MNEMONIC TABLE:

MNEMONIC	DESCRIPTION
A 1dB	ATTENUATOR STEPS FOR A4A9 STEP GAIN
A 2dB	
A 4dB	
A 8dB	
A 16dB	
A 32dB	ATTENUATOR STEPS FOR A4A9 ATTEN-BW FILTER
A 64dB	
A 128dB	
A 256dB	
A 512dB	
ADR3-4	INSTRUMENT BUS ADDRESS BITS LOG EXPAND CONTROLS FOR A4A9 VIDEO PROCESSOR
A 129	
B 129	
BWS	
BW7	BANDWIDTH CONTROL LINES
BW63	
BW68	
BW69	
L 83-15	INSTRUMENT BUS DATA BITS
L 9 10	
L 9 20	
L 20 10	
LT 10	LINEAR GAIN STEPS AND CONTROL FOR LOG AMPLIFIERS
LT 10	
LT 10	
LT 10	
OS 10	LOW-DISPLAY SECTION 1/0 STROBE
OS 20-1	
OS 20-2	
OS 20-2	
REC 244	REORDER CAL BRATE
REC ZERO	
SG 10	
SG 20-1	
SG 20-2	STEP GAIN 10dB
SG 20-2	
SG 20-2	
SG 20-2	
VBWA	VIDEO BANDWIDTH CONTROL LINES
VBWB	
VBWC	
VBWD	

4. UNLESS OTHERWISE INDICATED LOGIC LEVELS ARE +2.0V TO +6.0V = LOGIC '1' HIGH +H
0V TO +0.8V = LOGIC '0' LOW +BLANK

LOG EXPAND TRUTH TABLE:

LOG EXPAND	3E3s	ALDS
10		
5		H
2	H	
1	H	H

RESOLUTION BANDWIDTH TRUTH TABLE:

RESOLUTION BANDWIDTH	1 BW	FBW	FEWB	FEWA
3MHz	H	H	H	H
1MHz	H	H	H	
300 kHz	H	H		H
100 kHz	H	H		
30 kHz	H		H	H
10 kHz	H		H	
3 kHz	H			H
1 kHz		H	H	
300 Hz			H	H
100 Hz			H	
30 Hz				H
10 Hz				H

VIDEO BANDWIDTH TRUTH TABLE:

VIDEO BANDWIDTH	LEV1	LEV2	VBWA	VBWB
3MHz	H	H		
1MHz	H	H		
300 kHz	H		H	H
100 kHz	H	H		
30 kHz	H		H	H
10 kHz	H		H	
3 kHz	H			H
1 kHz		H	H	
300 Hz			H	H
100 Hz			H	
30 Hz				H
10 Hz				H

5. ADDRESS LINE TRUTH TABLE:

ADR3	ADR2	ADR1	ADR0	MNEMONIC
H	H			ADDRESS 20
H			H	ADDRESS 21

6. 100dB GAIN STEP TRUTH TABLE: (LEVELS AT OUTPUT OF LATCHES U8 AND U9)

REFERENCE LEVEL RES BW 3 KHZ	10M	-10	-20	-30	-40	-50	-60	-70	-80	-90	-100	-110	-120	-130
A10dB	LOG	H												
A20dB	LIN	H												
SG 10	LIN													
SG 20-1	LOG													
SG 20-2	LIN													
OS 10	LIN													
OS 20-1	LOG													
OS 20-2	LIN													
L 9 10	LIN													
L 9 20	LOG													

INPUT ATTENUATION SETTING AT 0dB
SHIFT ATTENUATOR (FOR EXTENDED RANGES)

7. 00-159 dB CONTROL TRUTH TABLE (LEVELS AT OUTPUT OF LATCHES U10 AND U12)

CONTROL LINE	REF LEVEL (dBm)	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19		
A1dB		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
A2dB			H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
A4dB				H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
A8dB					H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
A16dB						H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

REFERENCE LEVEL (dBm) A2dB A4dB A8dB

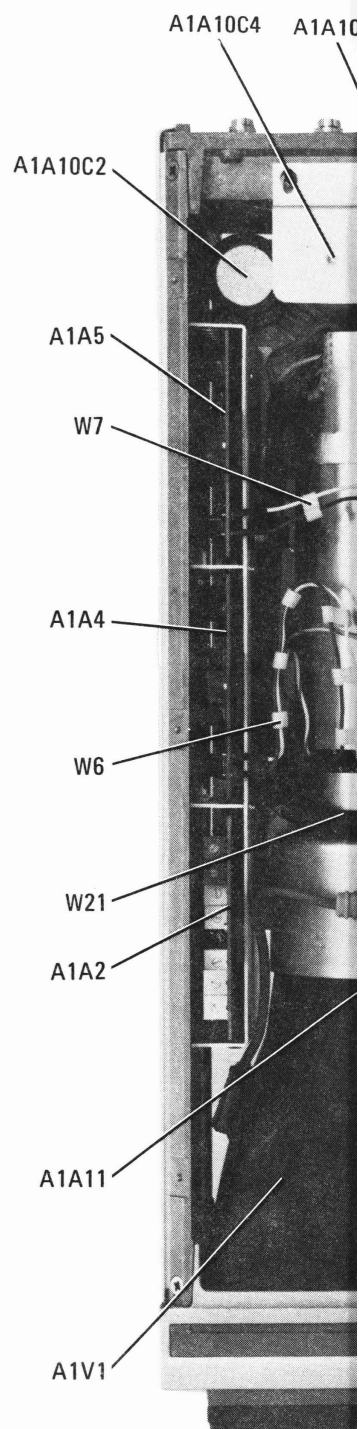
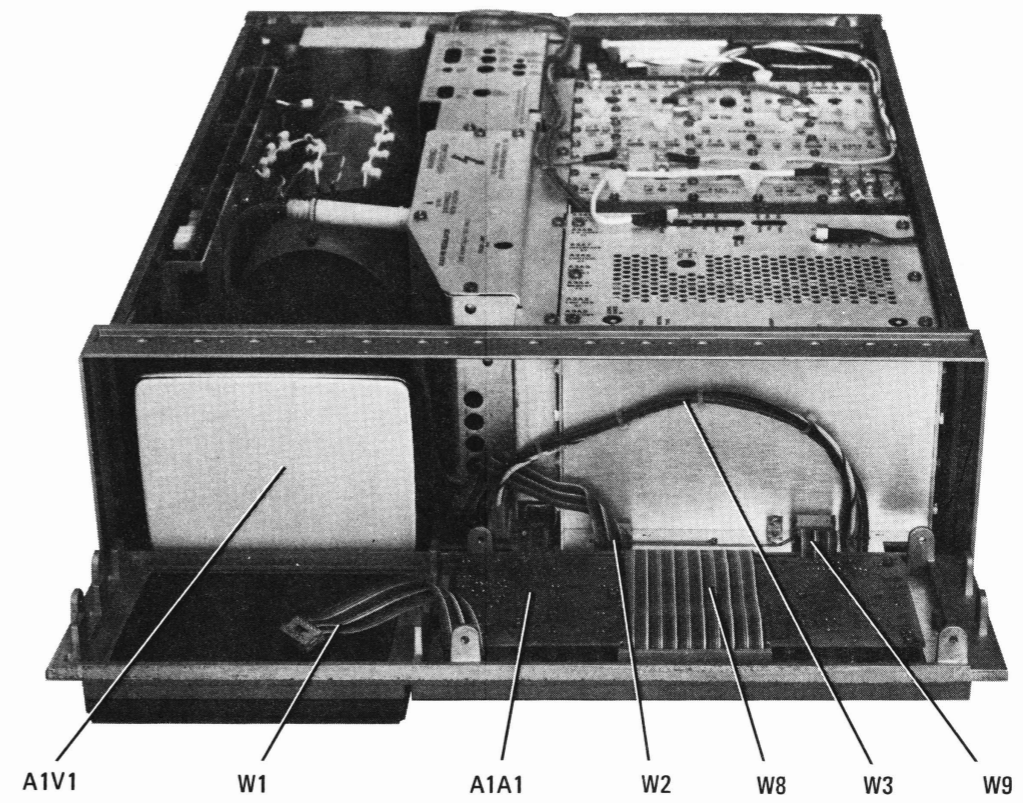
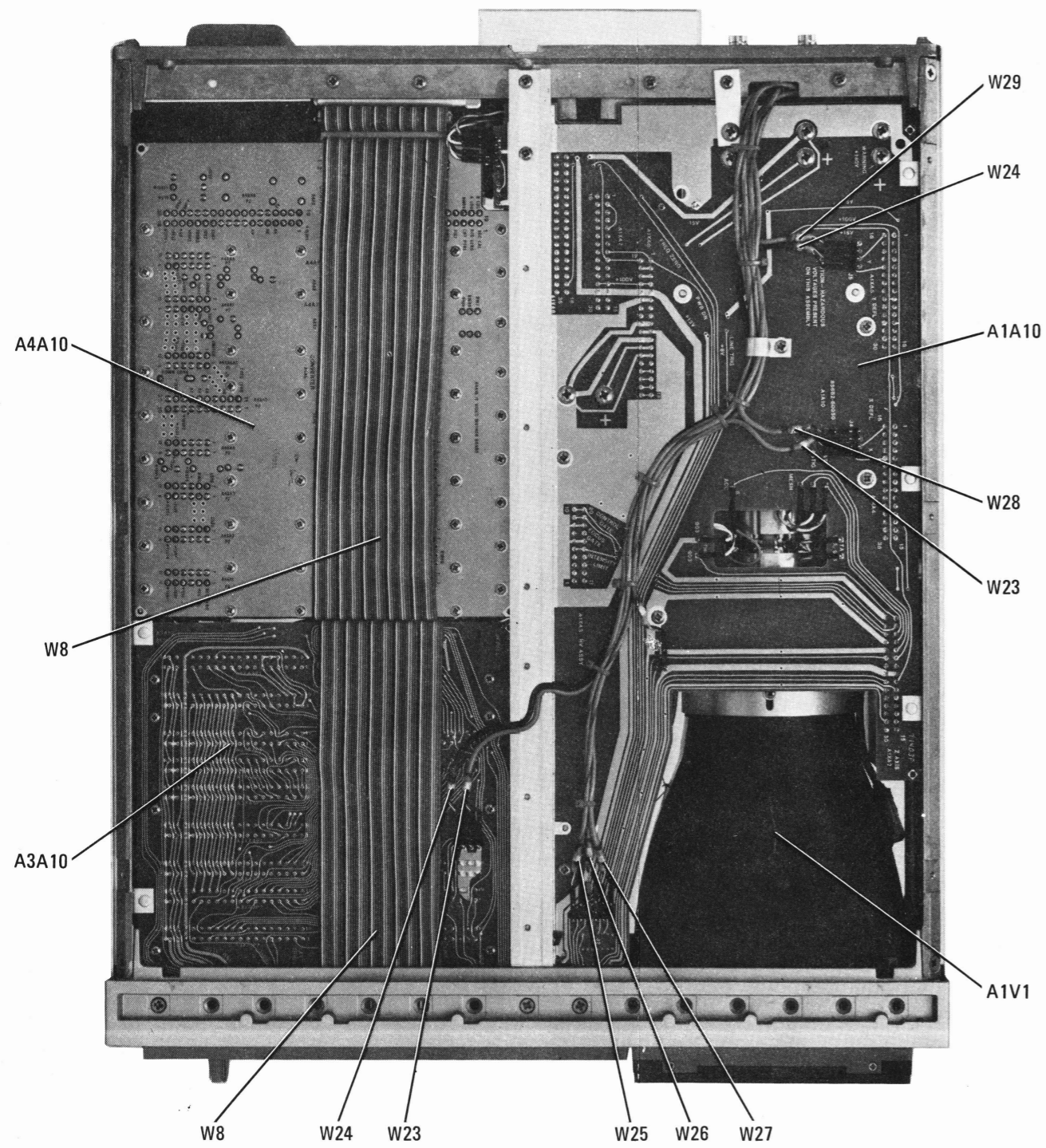
-0			H
-1			H
-2	H	H	
-3	H	H	
-4		H	
-5		H	
-6			H
-7			H
-8			H
-9			H

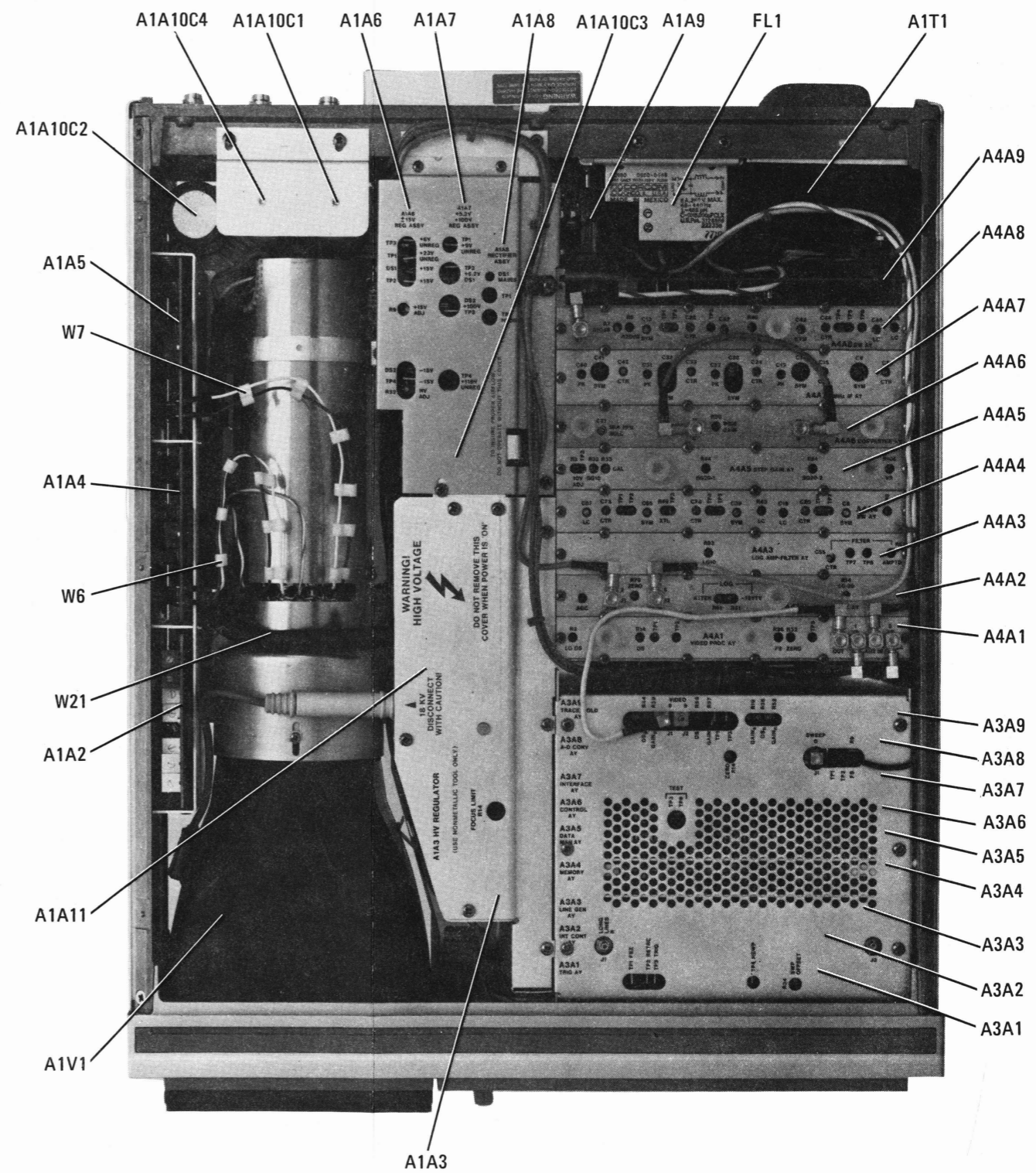
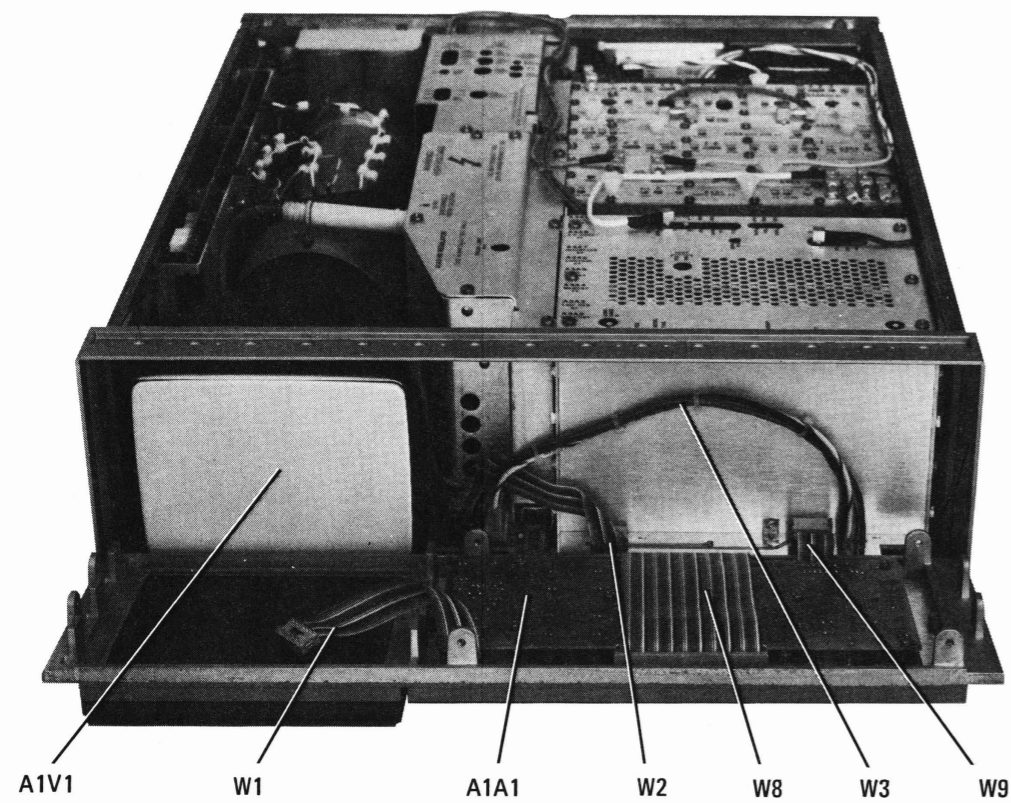
8. BANDWIDTH CONTROL LINES (ALL VOLTAGES APPROXIMATE)

CONTROL RES (KHZ)	BW5	BW63	BW68	BW7	SWITCH	300Hz	100Hz	30Hz	10Hz
3MHz	+4.8V	+4.1V	+3.7V	+4.7V	<-10V	<-10V	<-10V	<-10V	<-10V
1MHz	+4.8V	+4.1V	+3.1V	+4.7V	<-10V	<-10V	<-10V	<-10V	<-10V
300kHz	+4.8V	+4.1V	+4.1V	+4.7V	<-10V	<-10V	<-10V	<-10V	<-10V
100kHz	+4.8V	+4.1V	+4.1V	+4.7V	<-10V	<-10V	<-10V	<-10V	<-10V
30kHz	-6V	+4.3V	+4.3V	+4.7V	<-10V	<-10V	<-10V	<-10V	<-10V
10kHz	-6V	+9.0V	+9.0V	+4.7V	<-10V	<-10V	<-10V	<-10V	<-10V
3kHz	-6V	+4.3V	+4.3V	+4.7V	<-10V	<-10V	<-10V	<-10V	<-10V
1kHz	-6V	+4.3V	+4.3V	0V	<-10V	<-10V	<-10V	<-10V	<-10V
300Hz	-6V	+4.3V	+4.3V	0V	<-10V	<-10V	<-10V	<-10V	<-10V
100Hz	-6V	+4.3V	+4.3V	0V	<-10V	<-10V	<-10V	<-10V	<-10V
30Hz	-6V	+4.3V	+4.3V	0V	<-10V	<-10V	<-10V	<-10V	<-10V
10Hz	-6V	+4.3V	+4.3V	0V	<-10V	<-10V	<-10V	<-10V	<-10V

A4A9

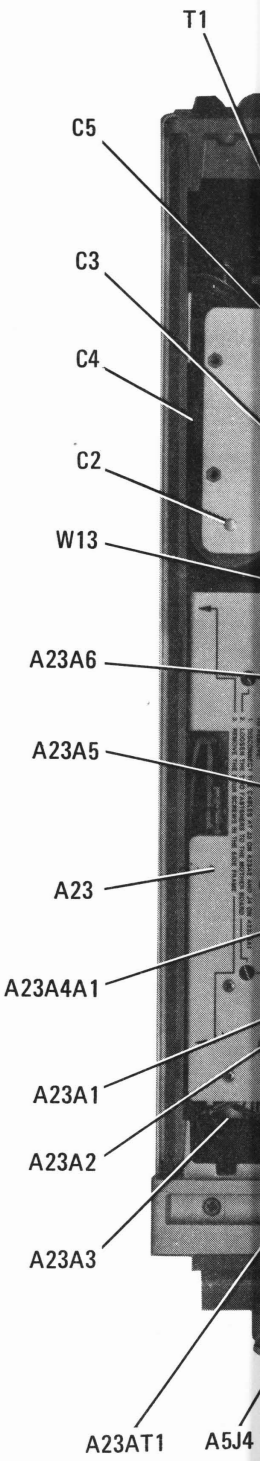
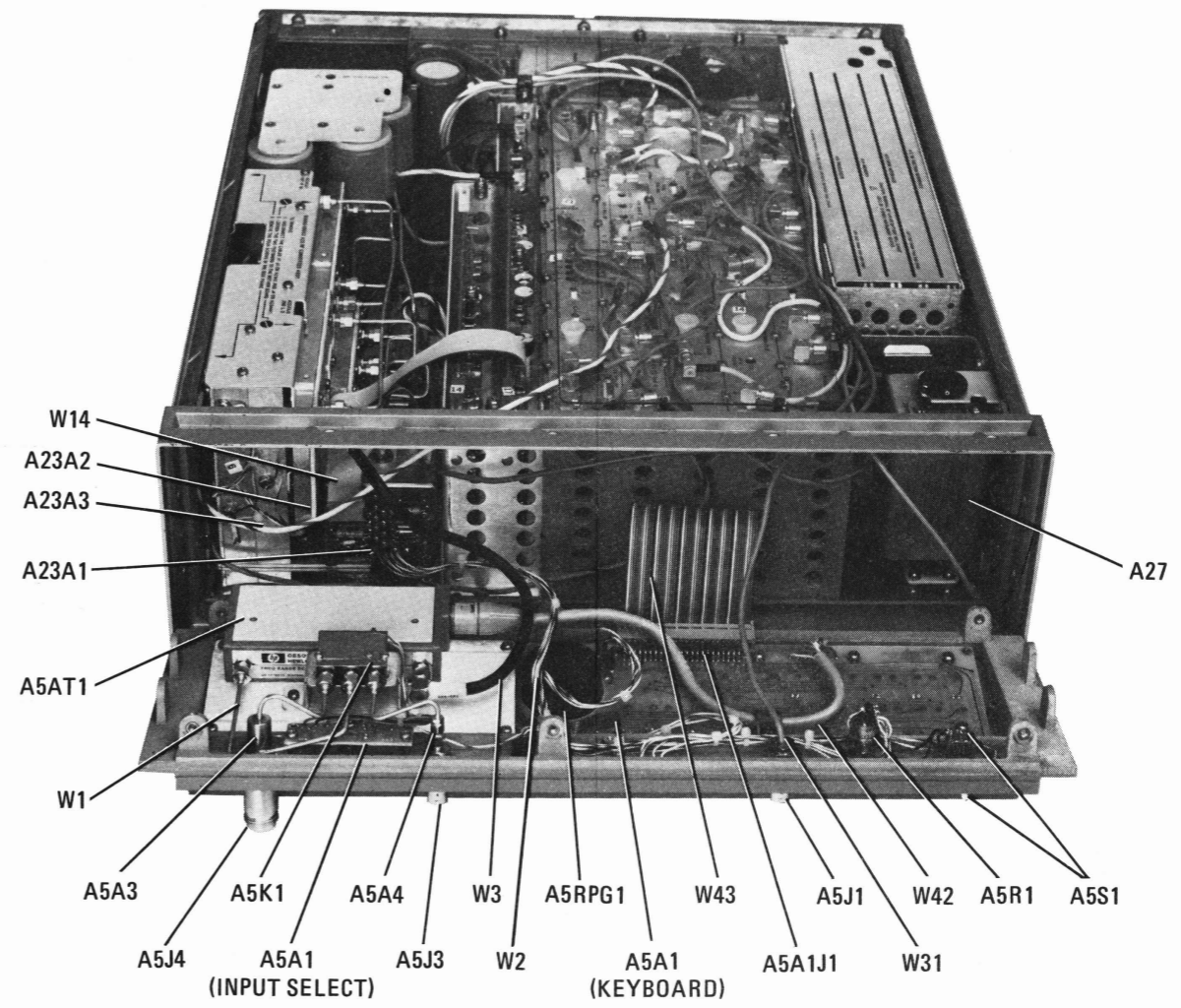
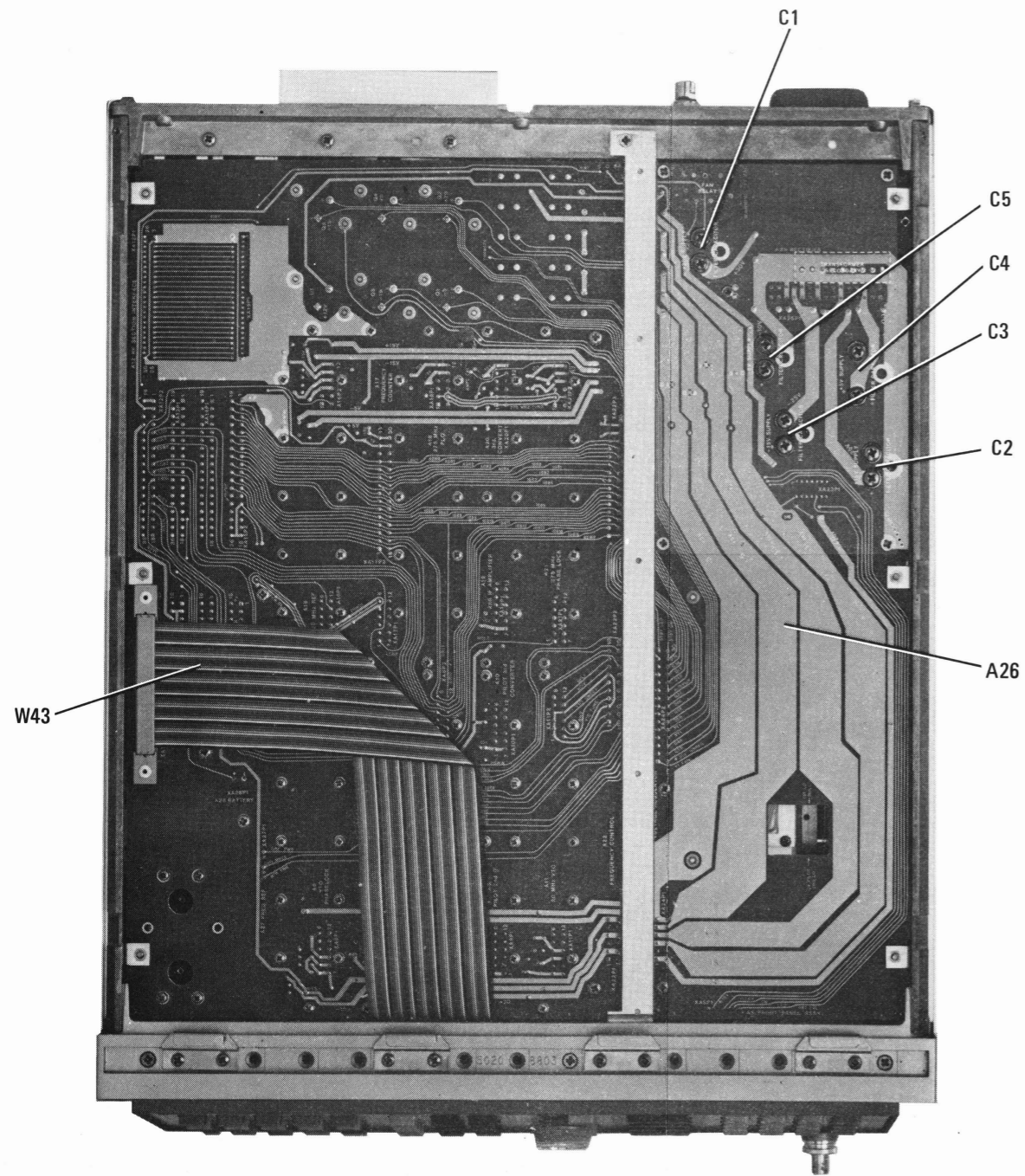
Figure 7-24. A4A9 IF Control, Schematic Diagram (CHANGE Q)

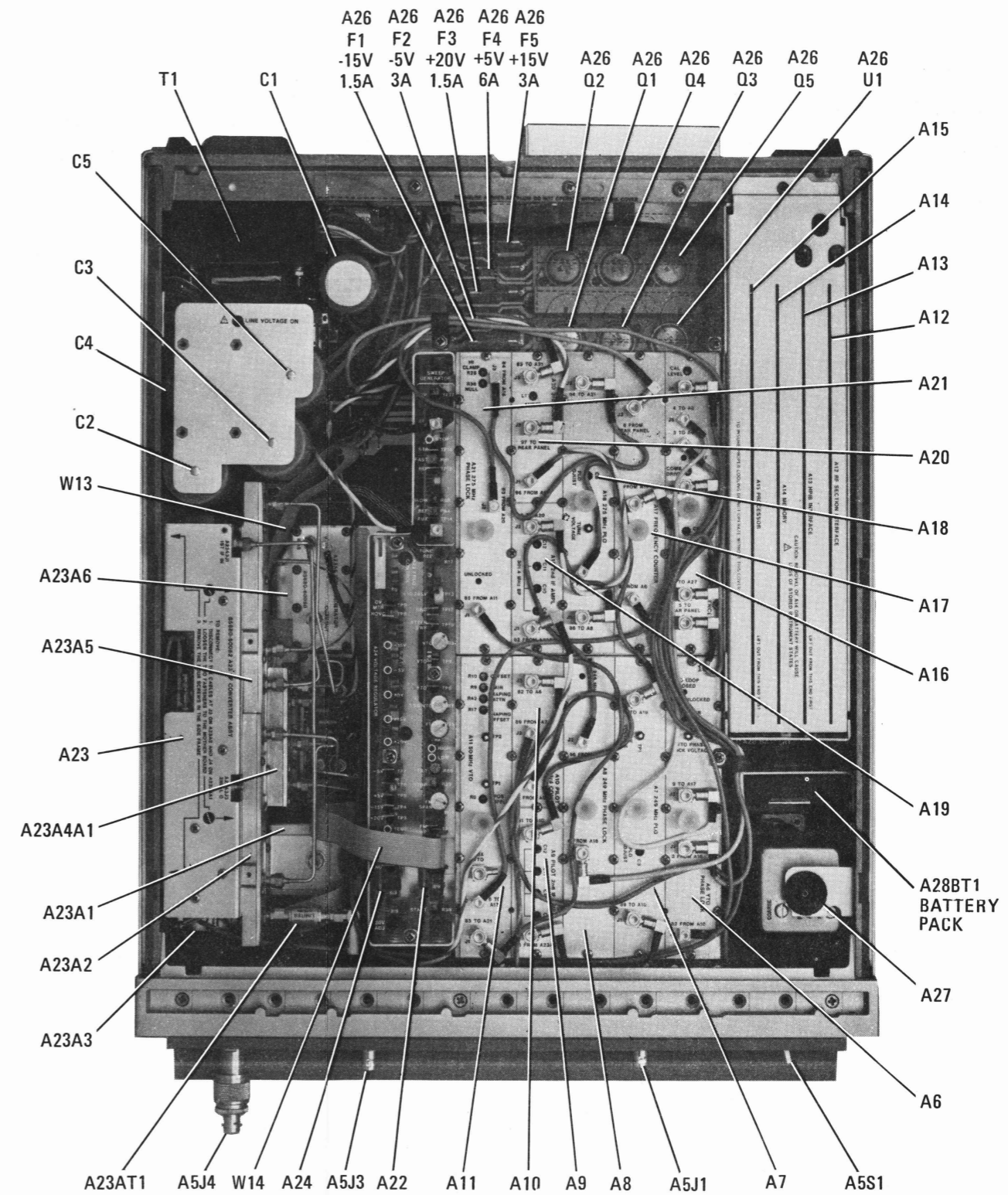
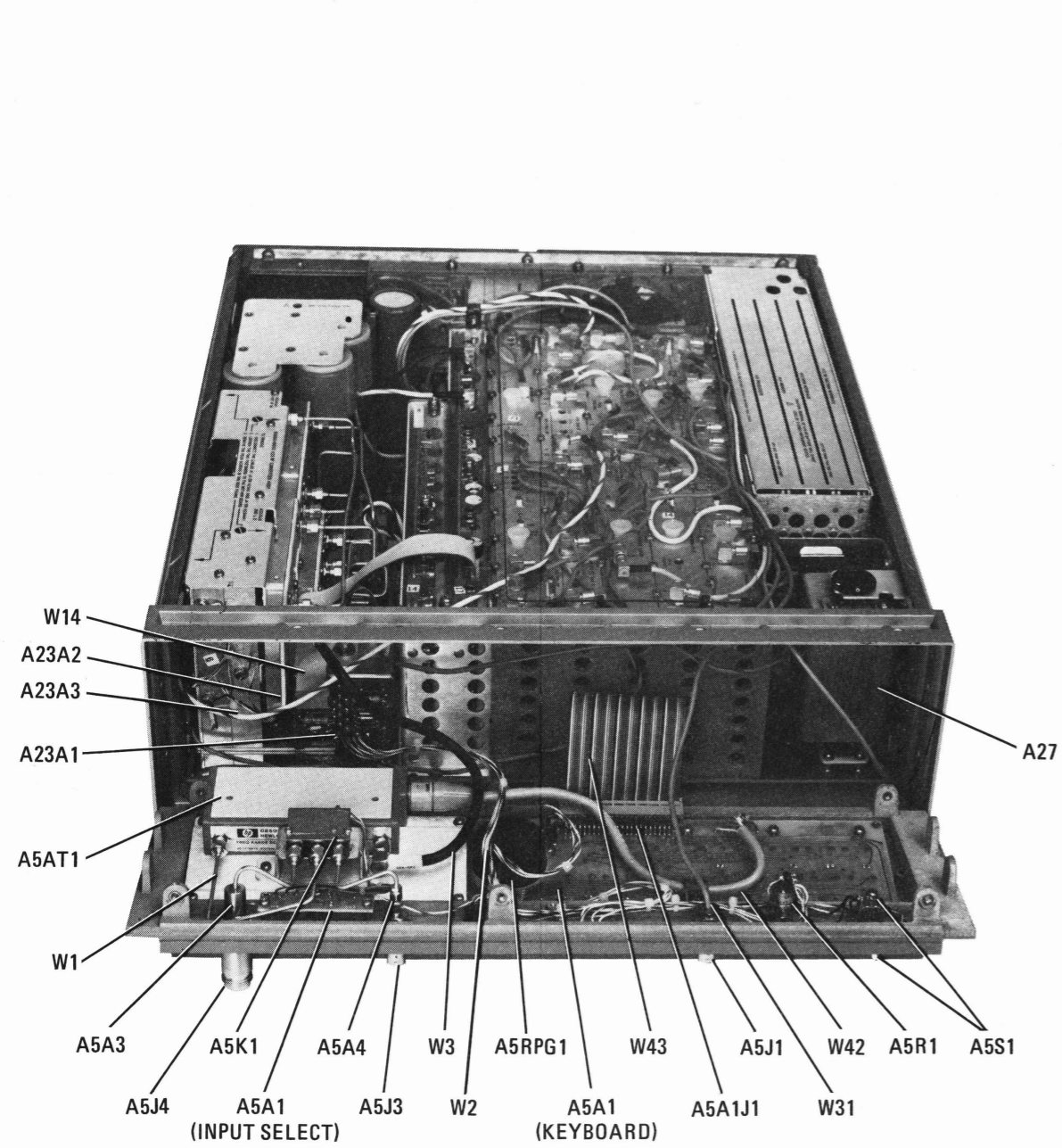




NOTE: REFER ALSO TO FIGURE 6-1 THROUGH 6-10.

Major Assembly and Component Locations





NOTE: REFER ALSO TO FIGURES 6-1 THROUGH 6-10.

Figure 9-104. Major Assembly and Component Locations