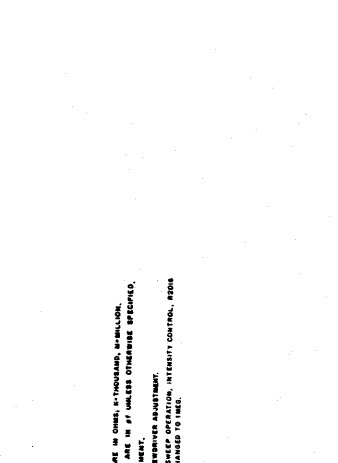
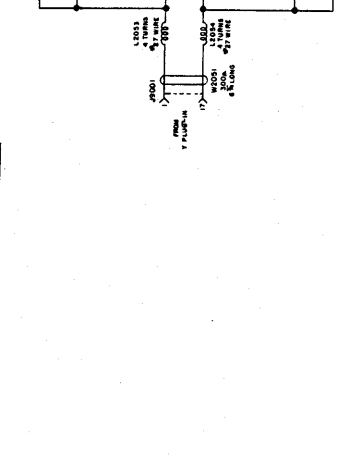
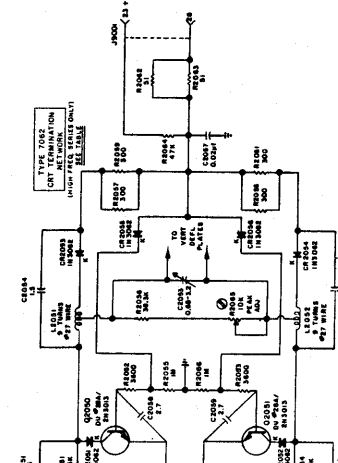


ITEM	VALUES	TYPES	QTY
1	100K	RES	1
2	100K	RES	1
3	100K	RES	1
4	100K	RES	1
5	100K	RES	1
6	100K	RES	1
7	100K	RES	1
8	100K	RES	1
9	100K	RES	1
10	100K	RES	1
11	100K	RES	1
12	100K	RES	1
13	100K	RES	1
14	100K	RES	1
15	100K	RES	1
16	100K	RES	1
17	100K	RES	1
18	100K	RES	1
19	100K	RES	1
20	100K	RES	1
21	100K	RES	1
22	100K	RES	1
23	100K	RES	1
24	100K	RES	1
25	100K	RES	1
26	100K	RES	1
27	100K	RES	1
28	100K	RES	1
29	100K	RES	1
30	100K	RES	1
31	100K	RES	1
32	100K	RES	1
33	100K	RES	1
34	100K	RES	1
35	100K	RES	1
36	100K	RES	1
37	100K	RES	1
38	100K	RES	1
39	100K	RES	1
40	100K	RES	1
41	100K	RES	1
42	100K	RES	1
43	100K	RES	1
44	100K	RES	1
45	100K	RES	1
46	100K	RES	1
47	100K	RES	1
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49	100K	RES	1
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83	100K	RES	1
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85	100K	RES	1
86	100K	RES	1
87	100K	RES	1
88	100K	RES	1
89	100K	RES	1
90	100K	RES	1
91	100K	RES	1
92	100K	RES	1
93	100K	RES	1
94	100K	RES	1
95	100K	RES	1
96	100K	RES	1
97	100K	RES	1
98	100K	RES	1
99	100K	RES	1
100	100K	RES	1



NOTE: 1. ALL RESISTOR VALUES ARE IN OHMS, UNLESS OTHERWISE SPECIFIED.  
 2. CAPACITOR VALUES ARE IN MICROFARADS, UNLESS OTHERWISE SPECIFIED.  
 3. SERVICE ADJUSTMENT.  
 4. PRINT PANEL BURN-IN/OPERATION.  
 5. FOR OPTIMUM SINGLE USE OPERATION, INTENSITY CONTROL, RESIS (PRINT) SHOULD BE CHANGED TO INEL.

VOLTAGE DATA  
 Maximum with Type 411 30 amp  
 1000V/1000Hz  
 1000V/1000Hz

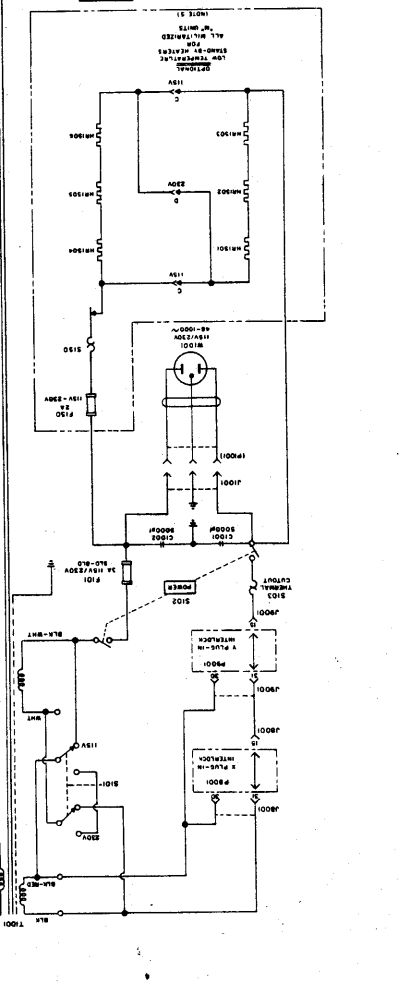
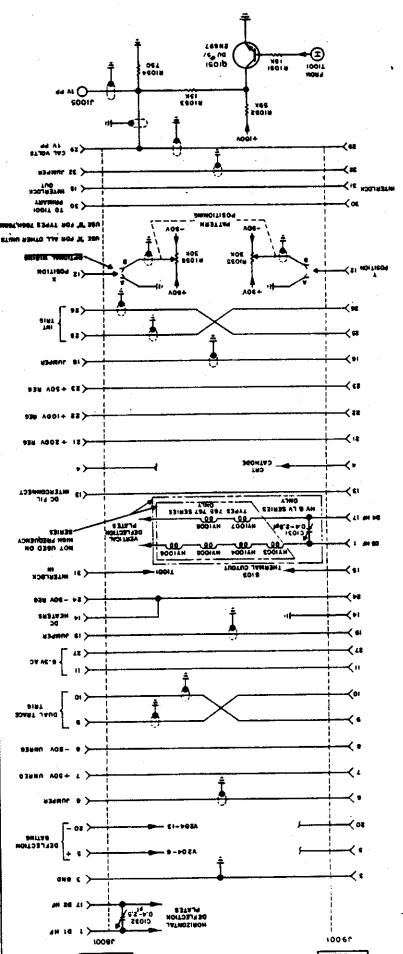
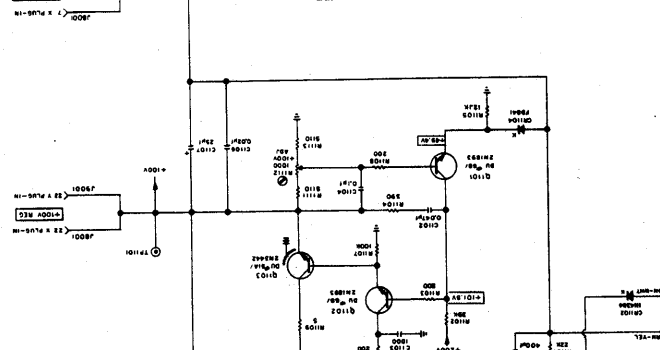
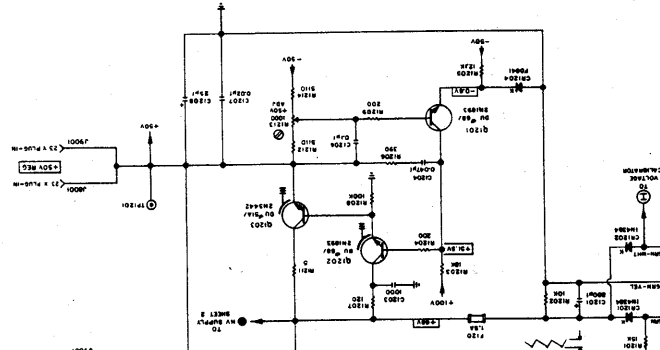
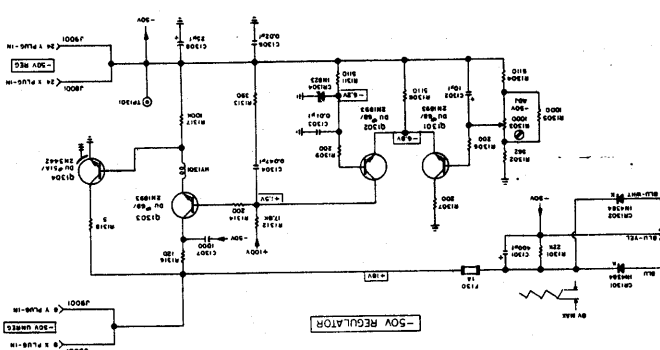
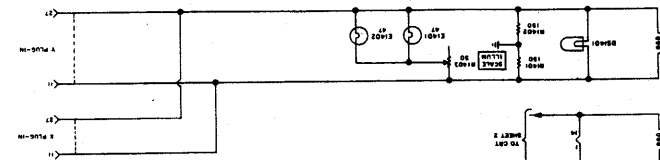
REVISIONS

1. REVISED TO SHOW THE LOCATION OF THE 100V REGULATOR IN THE POWER SUPPLY SECTION.

2. REVISED TO SHOW THE LOCATION OF THE 50V REGULATOR IN THE POWER SUPPLY SECTION.

3. REVISED TO SHOW THE LOCATION OF THE 20V REGULATOR IN THE POWER SUPPLY SECTION.

4. REVISED TO SHOW THE LOCATION OF THE 10V REGULATOR IN THE POWER SUPPLY SECTION.



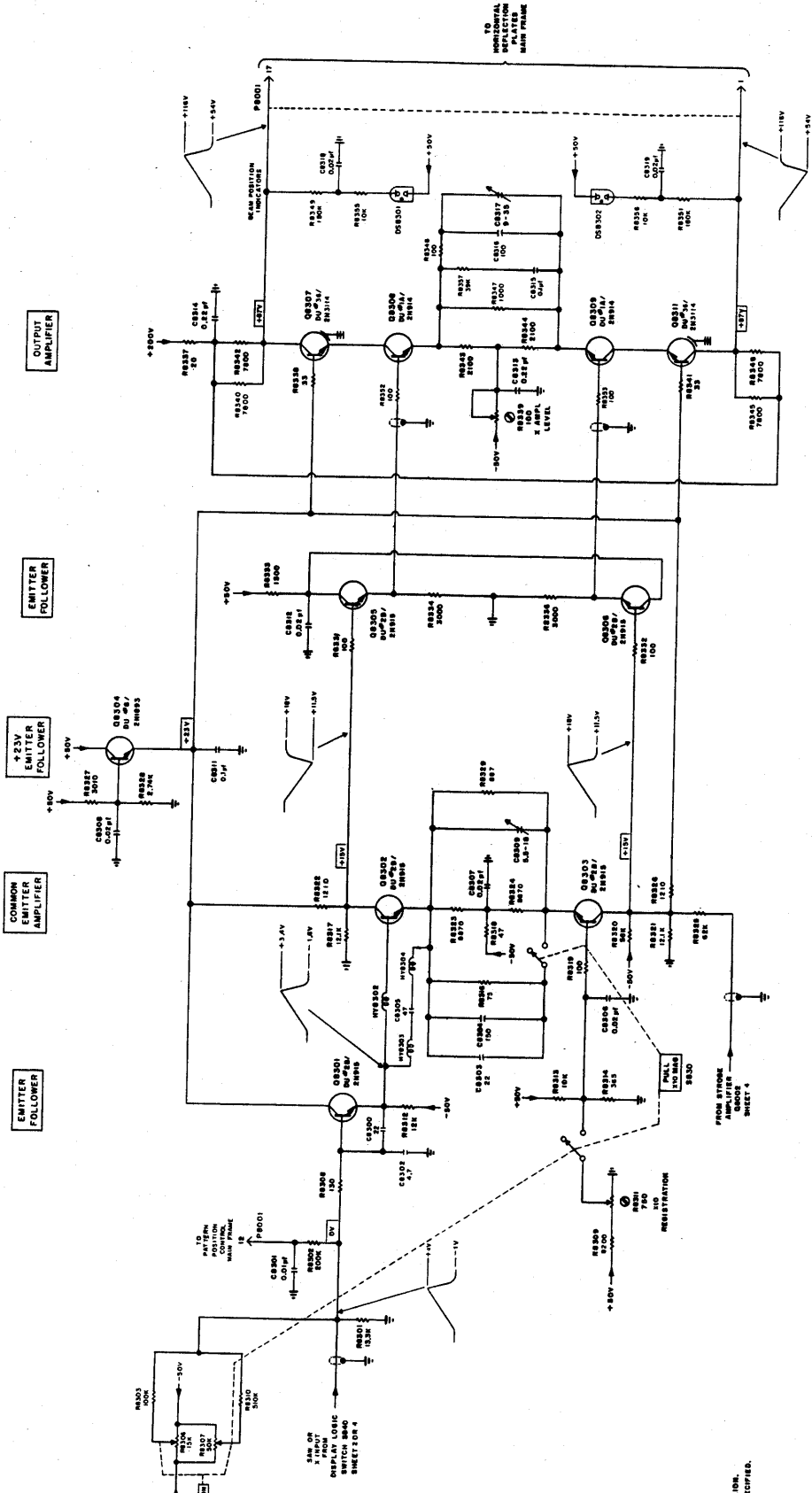








HORIZONTAL DEFLECTION AMPLIFIER



NOTE: VOLTAGE DATA are in OWES, HYPERONS, MANVILLE, with a 2000 Ohm load, 100 Hz, or otherwise as noted.

2. Power supply values are in OWES.

Component	Value
Resistor	100 Ohm
Capacitor	10 pF
Diode	1N4001
Tube	6X4
Transformer	500 VA
Switch	1000 V
Relay	100 V
Motor	100 RPM
Other	As specified

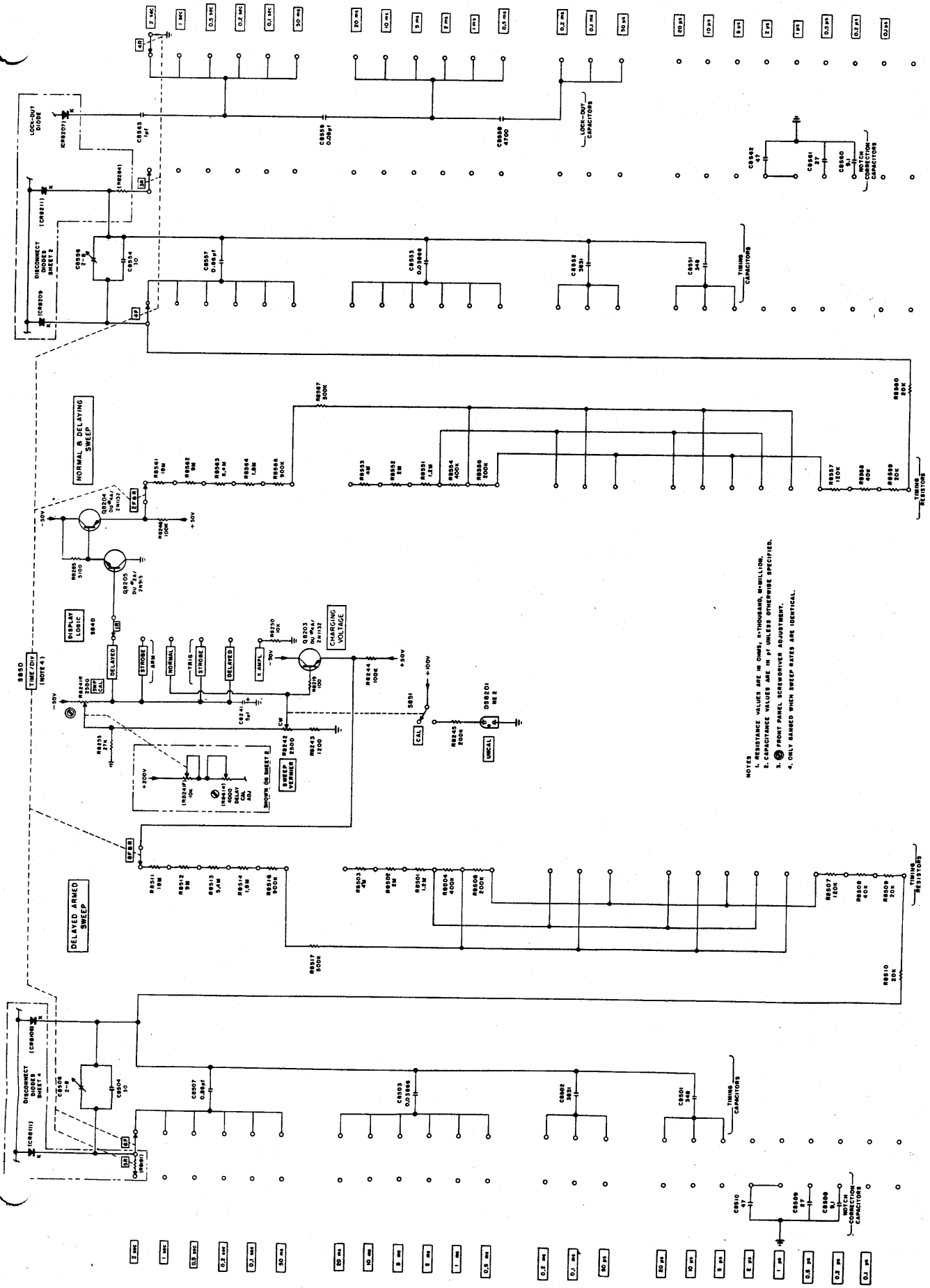
3. All components are 5% tolerance unless otherwise specified.

4. Use Type 100 Series for Cathode Ray Tube.

5. Use Type 100 Series for Cathode Ray Tube.

6. Maximum allowable temperature is 100°C.

- NOTE:
1. RESISTANCE VALUES ARE IN OHMS, KILOHMS, MEGOHMS.
  2. CAPACITANCE VALUES ARE IN pF UNLESS OTHERWISE SPECIFIED.
  3. SERVICE ADJUSTMENT.
  4. HEAT SINK.



NOTES  
 1. CAPACITANCE VALUES ARE IN OHMS, K=THOUSAND, M=MILLION.  
 2. CAPACITANCE VALUES ARE IN P, UNLESS OTHERWISE SPECIFIED.  
 3. POINT PANEL SPEED/DRIVER ADJUSTMENT.  
 4. ONLY USED WHEN SWEEP RATES ARE IDENTICAL.

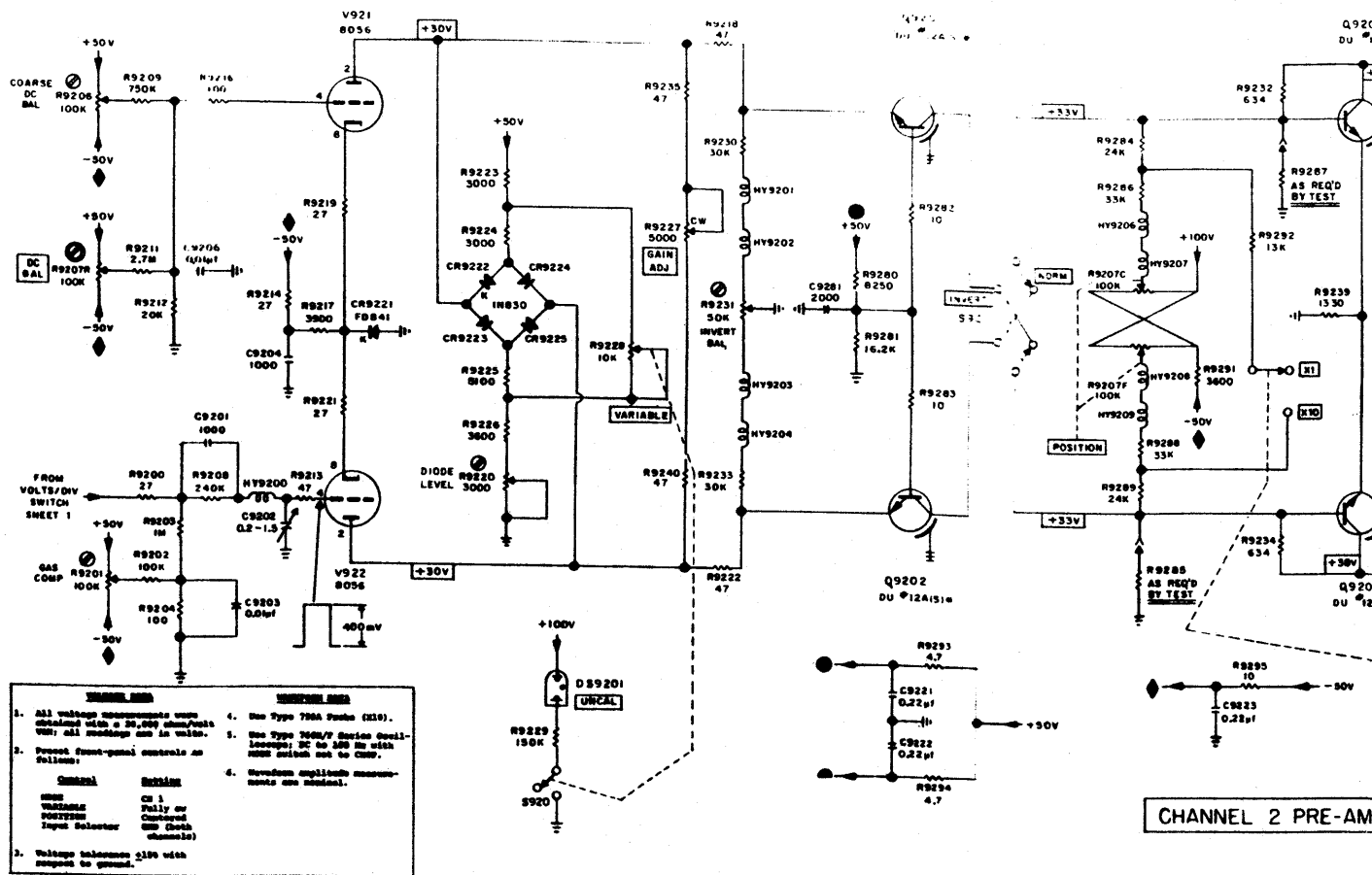






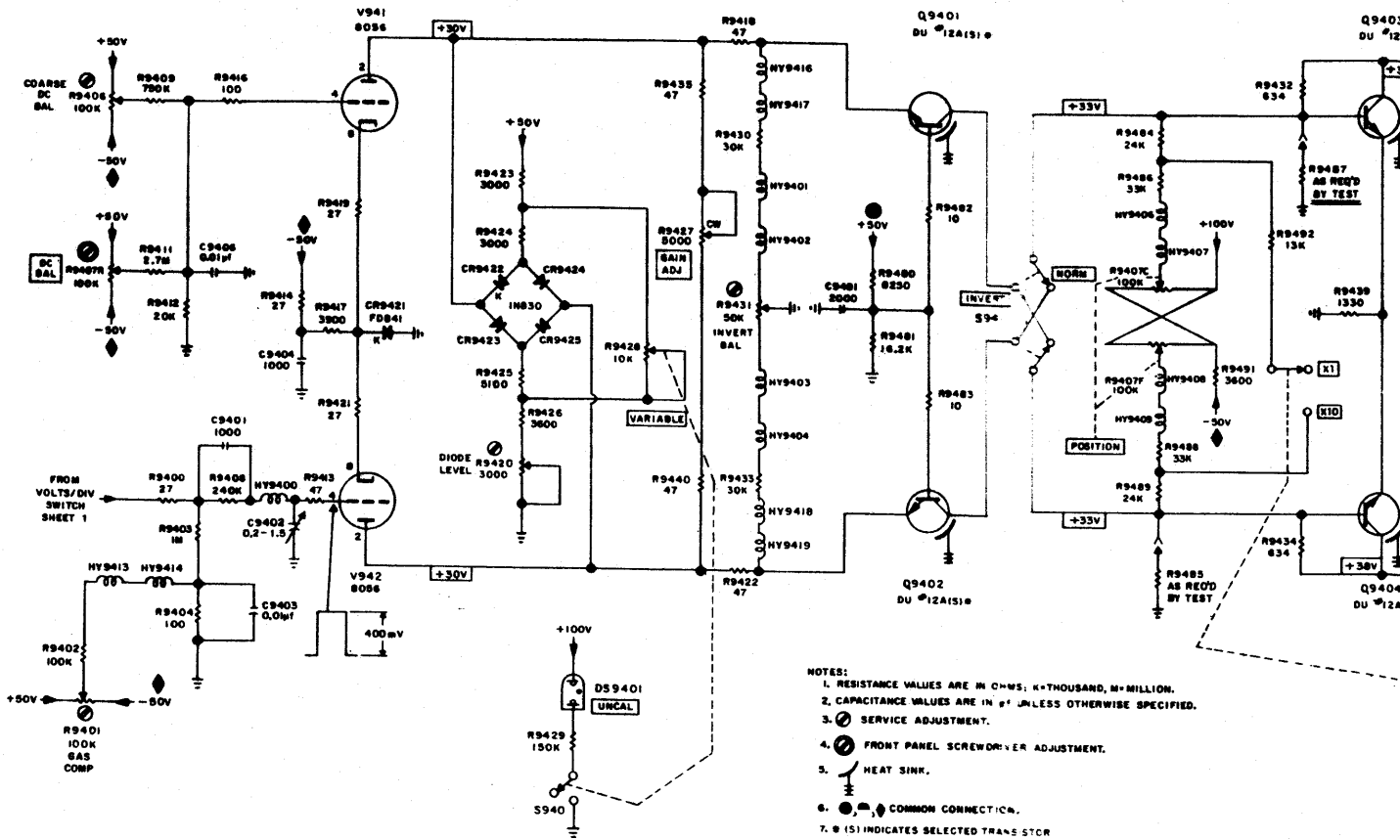


CHANNEL 1 PRE-AM



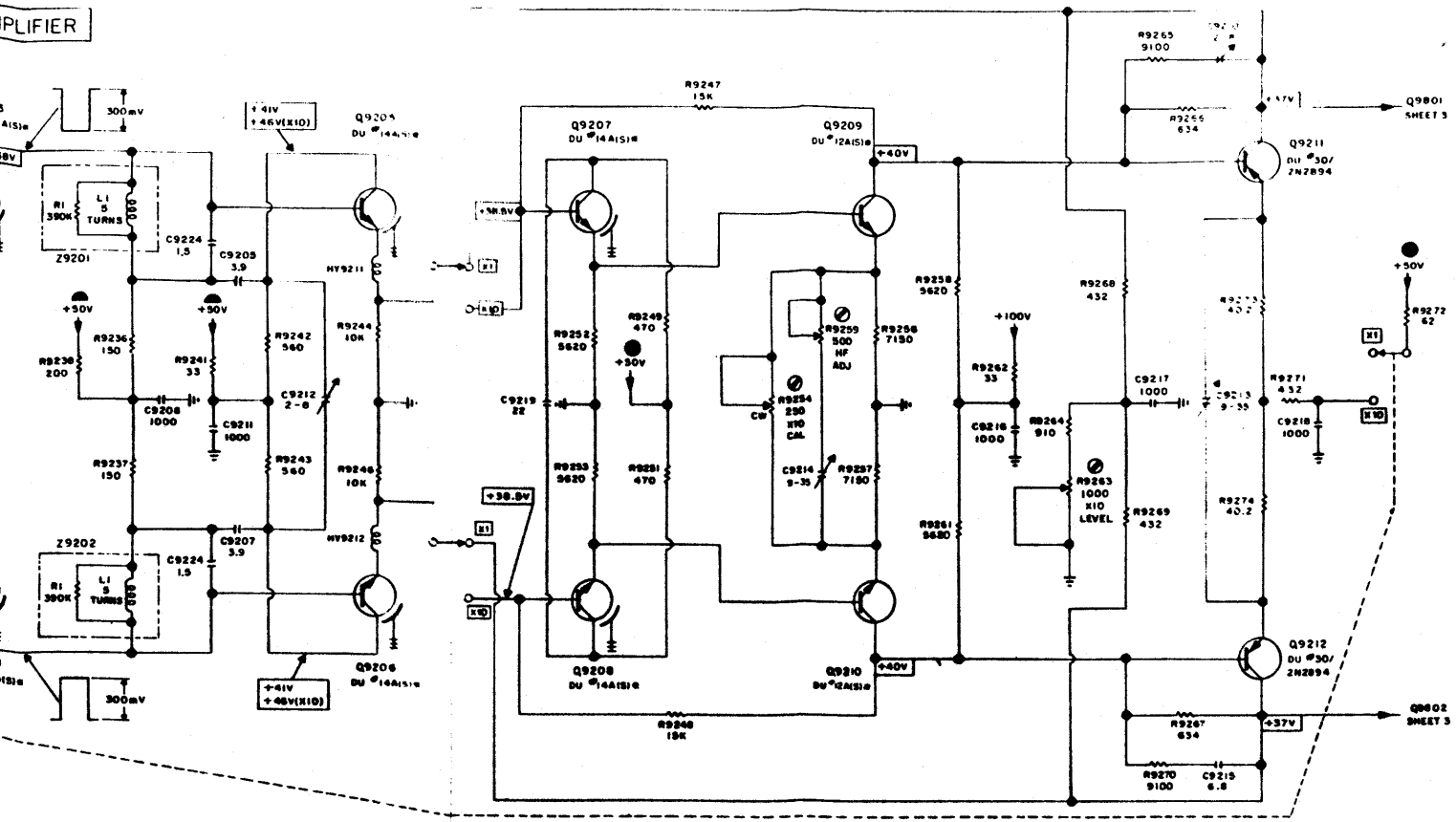
- GENERAL DATA**
- All voltage measurements were obtained with a 20,000 ohm/ohm VOM; all readings are in volts.
  - Percent front-panel controls as follows:
  - Voltage tolerance  $\pm 1\%$  with respect to ground.
  - Use Type 786A Tubes (X10).
  - Use Type 786B/V Series Diodes; DC to 300 Hz with heat sink not to Comp.
  - Deviation amplification measurements are needed.
- | Control        | Setting            |
|----------------|--------------------|
| DC BAL         | 0                  |
| VOLTS/DIV      | 1                  |
| POSITION       | Center             |
| Input Selector | SW (both channels) |
3. Voltage tolerance  $\pm 1\%$  with respect to ground.

CHANNEL 2 PRE-AM

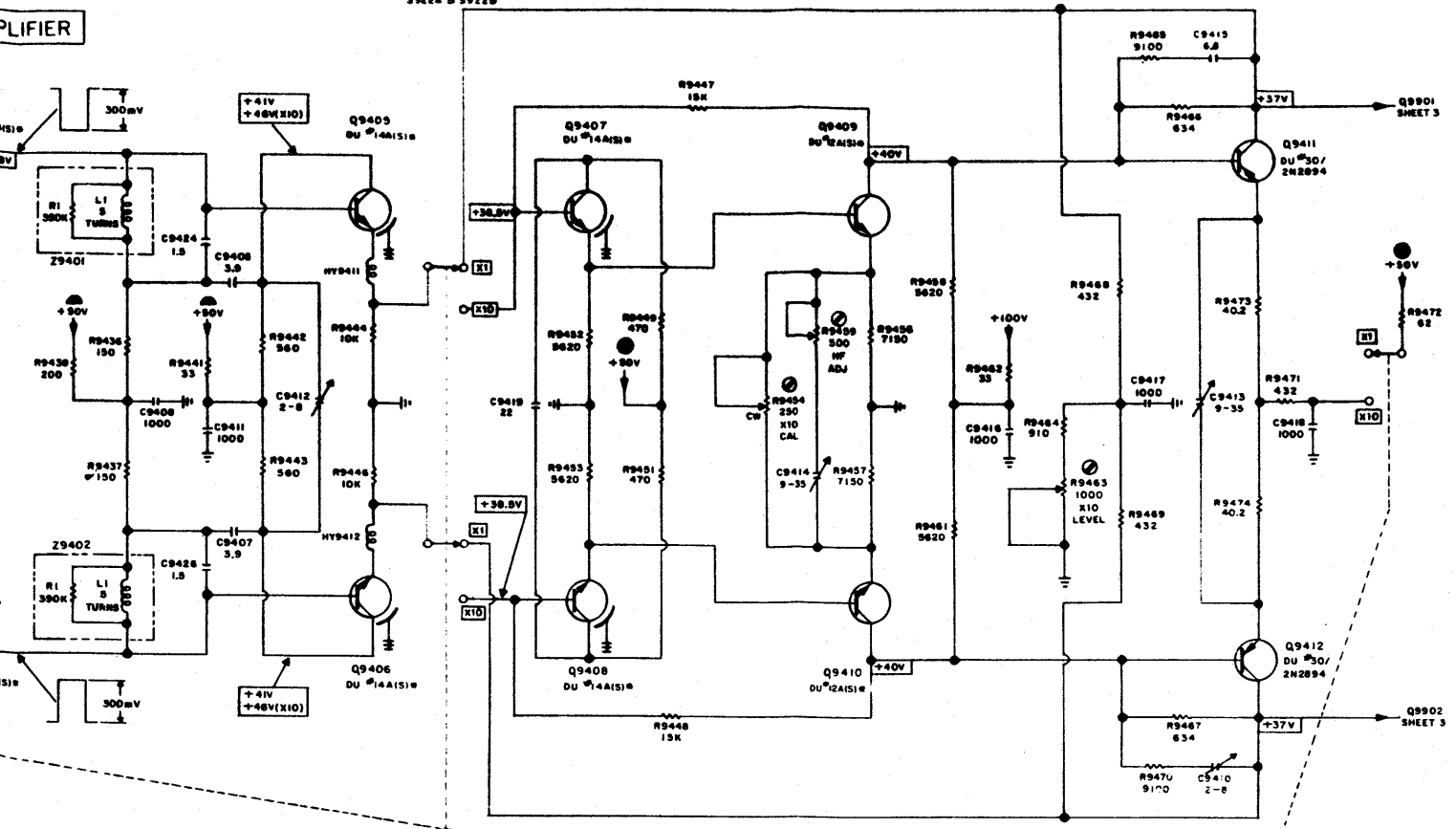


- NOTES:**
- RESISTANCE VALUES ARE IN OHMS, K-THOUSAND, M-MILLION.
  - CAPACITANCE VALUES ARE IN  $\mu$  UNLESS OTHERWISE SPECIFIED.
  - SERVICE ADJUSTMENT.
  - FRONT PANEL SCREWDRIVER ADJUSTMENT.
  - HEAT SINK.
  - COMMON CONNECTION.
  - (S) INDICATES SELECTED TRANSISTOR.

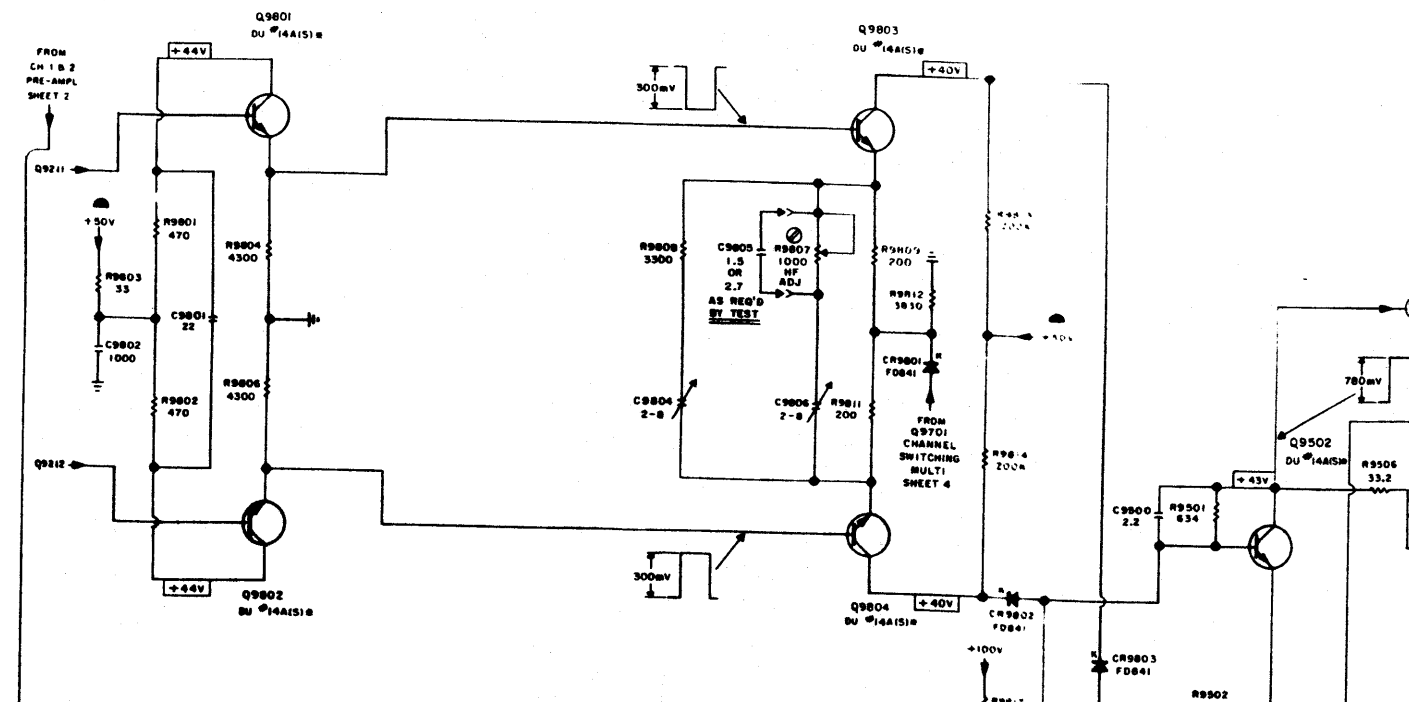
AMPLIFIER



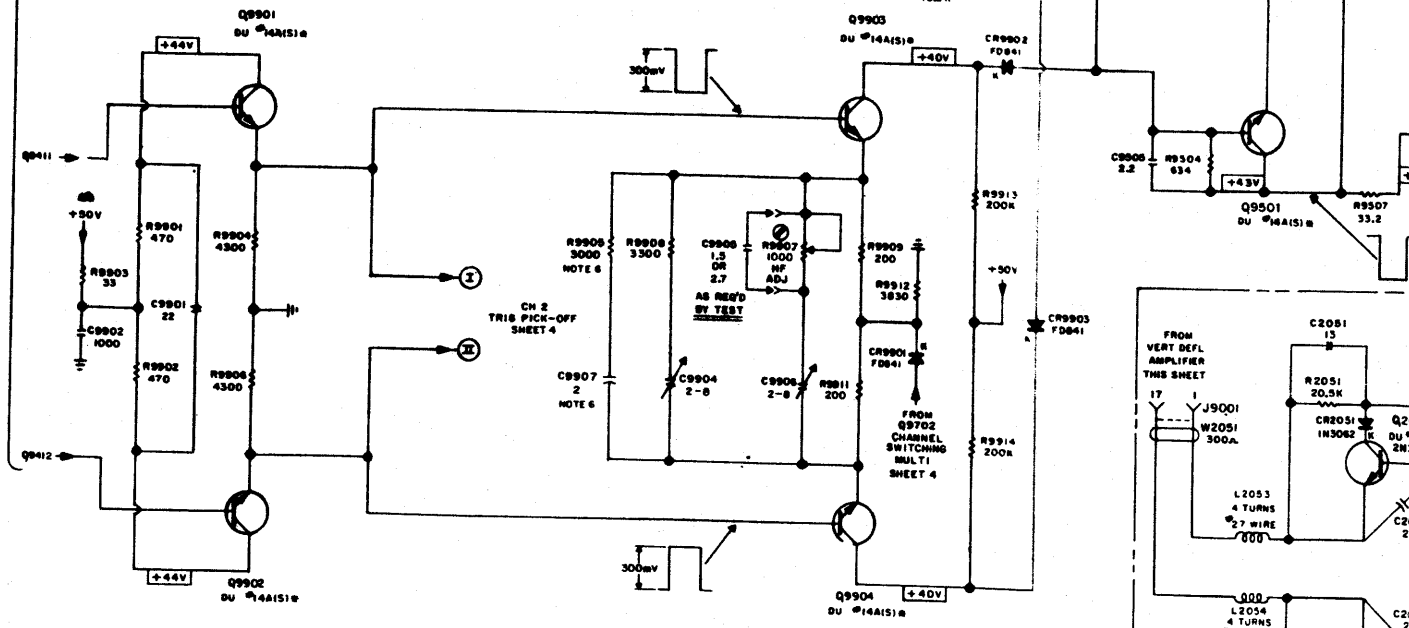
AMPLIFIER



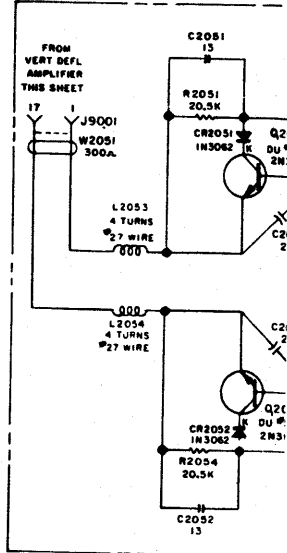
CHANNEL 1 PRE-AMPLIFIER  
&  
SWITCHING AMPLIFIER



CHANNEL 2 PRE-AMPLIFIER  
&  
SWITCHING AMPLIFIER

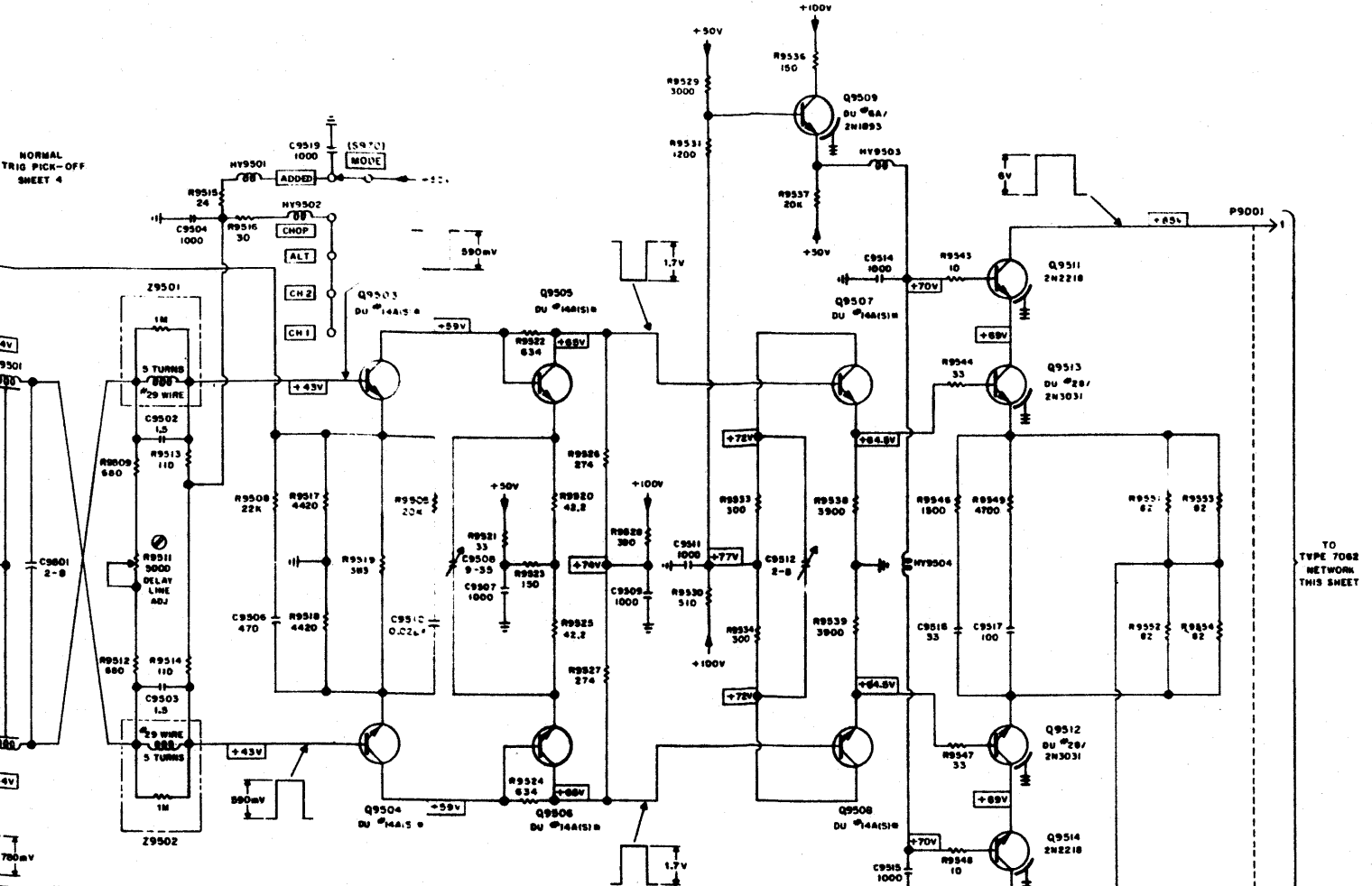


- NOTES:
1. RESISTANCE VALUES ARE IN OHMS, K=THOUSAND, M=MILLION.
  2. CAPACITANCE VALUES ARE IN pF UNLESS OTHERWISE SPECIFIED.
  3. SERVICE ADJUSTMENT.
  4. HEAT SINK.
  5. COMMON CONNECTION. (SEE SHEET 2).
  6. TEST OPTION, REMOVE R9905 & C9907 AS REQUIRED TO PROVIDE OPTIMUM PULSE RESPONSE.
  7. (S) INDICATES SELECTED TRANSISTOR.

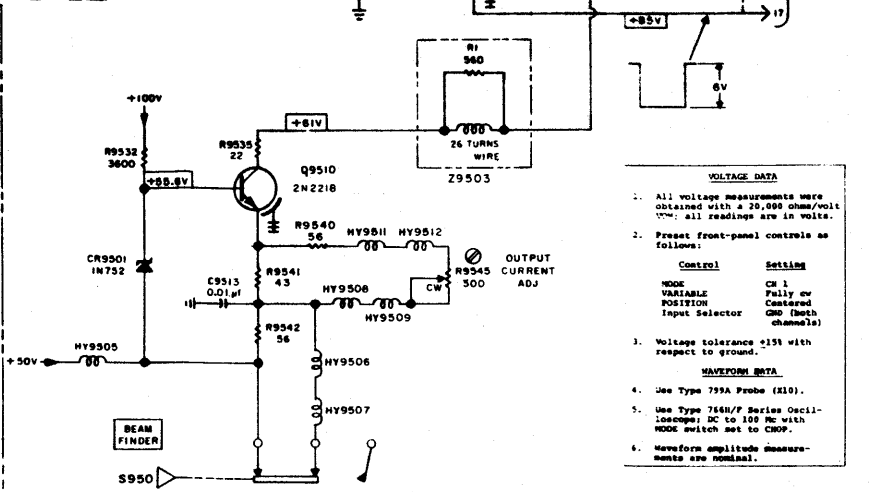
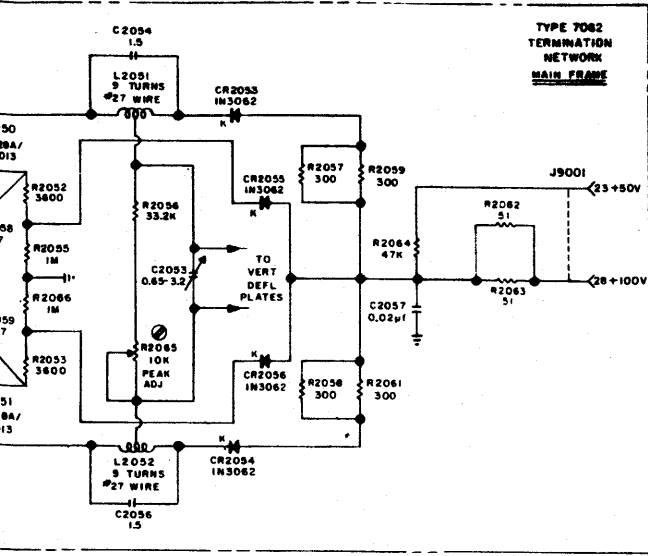


# VERTICAL REFLECTION AMPLIFIER

NORMAL TRIG PICK-OFF SHEET 4



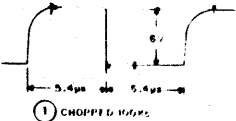
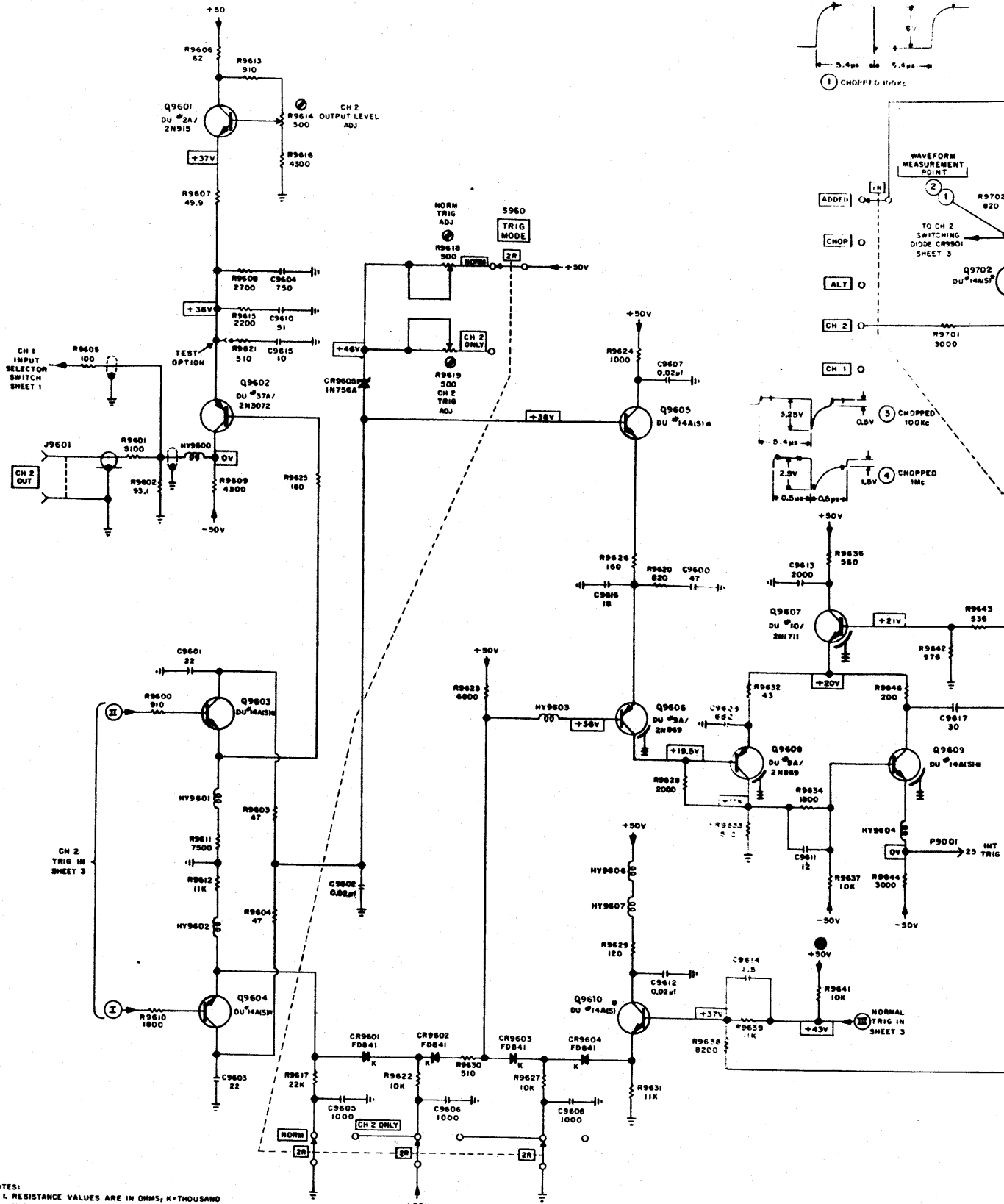
TO TYPE 70B2 NETWORK THIS SHEET



- VOLTAGE DATA**
- All voltage measurements were obtained with a 20,000 ohm/volt VOM; all readings are in volts.
  - Front panel controls as follows:
 

Control	Setting
MODE	CH 1
VARIABLE POSITION	Centered
Input Selector	On (both channels)
  - Voltage tolerance ±5% with respect to ground.
- WAVEFORM DATA**
- Use Type 733A Probe (R10).
  - Use Type 766H/P Series Oscilloscope; DC to 100 Mc with MODE switch set to CHOP.
  - Waveform amplitude measurements are nominal.

# TRIGGER CIRCUIT

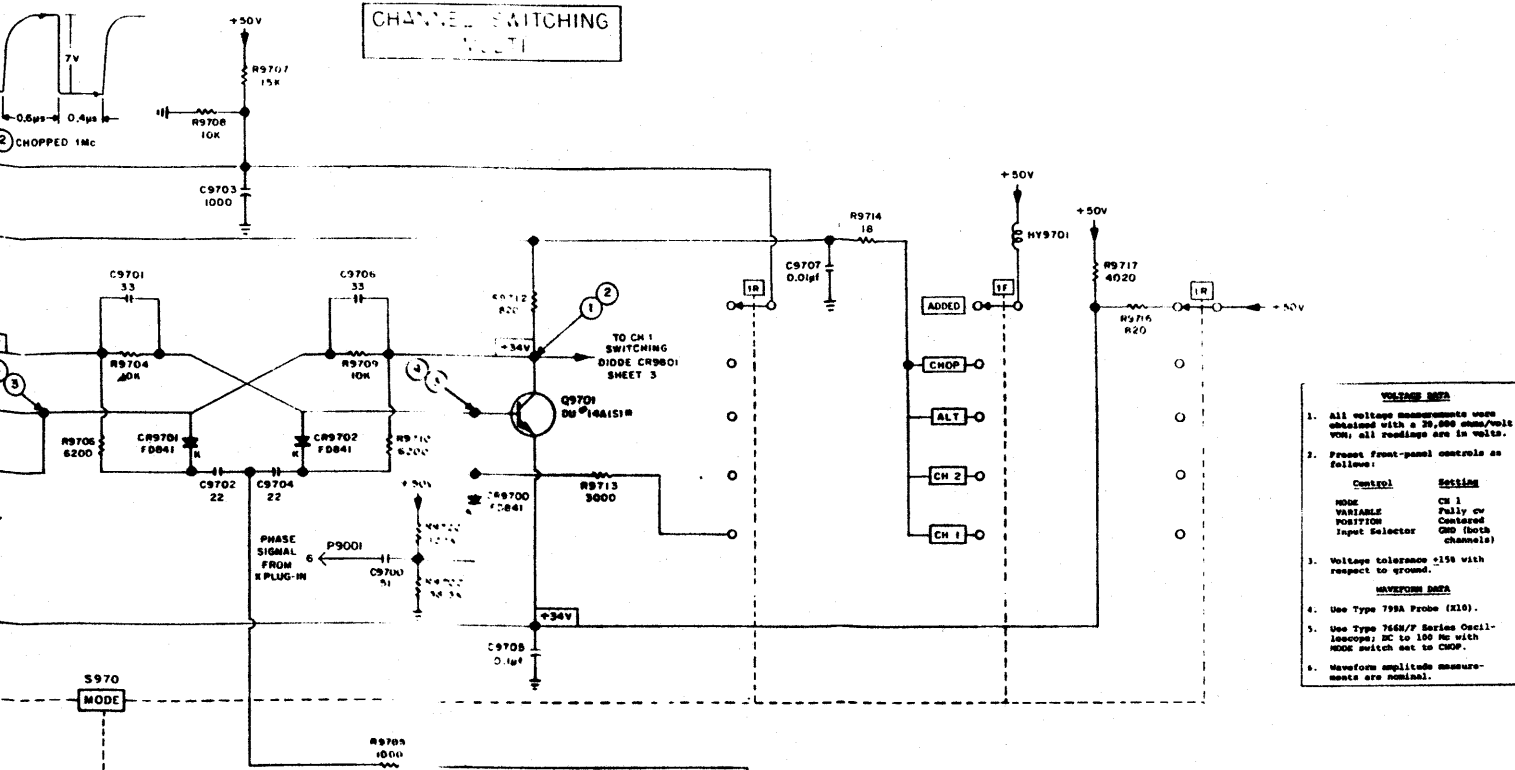


- NOTES:
1. RESISTANCE VALUES ARE IN OHMS; K=THOUSAND M=MILLION.
  2. CAPACITANCE VALUE ARE IN pF UNLESS OTHERWISE SPECIFIED.
  3. SERVICE ADJUSTMENT.
  4. HEAT SINK.
  5. COMMON CONNECTION. (SEE SHEET 3)

6 # (S) INDICATES SELECTED TRANSISTOR.



# CHANNEL SWITCHING



- VOLTAGE DATA**
- All voltage measurements were obtained with a 20,000 ohms/volt VOM; all readings are in volts.
  - Present front-panel controls are as follows:
 

Control	Setting
MODE	CH 1
VARIABLE	Fully cw
POSITION	Centered
Input Selector	CH0 (both channels)
  - Voltage tolerance  $\pm 15\%$  with respect to ground.
- WAVEFORM DATA**
- Use Type 798A Probe (X10).
  - Use Type 764/F Series Oscilloscope; DC to 100 Mc with MODE switch set to CHOP.
  - Waveform amplitude measurements are minimal.

# BTO

# BLANKING CIRCUIT

