

uniden®

AMATEUR TRANSCEIVER

MODEL : HR-2510

**SERVICE INFORMATION
MANUAL**

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AMATEUR TRANSCEIVER

MODEL : HR-2510

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WIRING DIAGRAM	(E32-2928)
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Note: Circuit design and specifications are subject to change without notice.

1. SPECIFICATIONS

AMATEUR RADIO MODEL : HR2510 (UT-550B)

GENERAL

1. Channel and Frequency Range : A Band 28.0000 ~ 28.4999 MHz
B Band 28.5000 ~ 28.9999 MHz
C Band 29.0000 ~ 29.4999 MHz
D Band 29.5000 ~ 29.6999 MHz
2. Crystal : 3
3. Microphone : 500 Ohm, Dynamic Type with Channel up down
4. Speaker : 8 Ohm, 3 W
5. Antenna Connector : M Type
6. Jacks & Connectors : MIC 5P, DC Power 2P, 9 PIN ACC CONNECTOR
7. Controls : Mode Selector CW-LSB-USB-AM-FM, MIC Gain, TX, DIM, SCAN, SPAN, Meter Select, Beep, Band, F-Lock, CH up/down, PA, NB, Frequency Knob, ON/OFF Power Switch & Volume, Auto SQ & Squelch, RF Gain, RIT, SWR/CAL
8. Illumination : Band No. Indication LCD
Channel No. Indication LCD
Frequency Indication LCD
S/RF, MOD, SWR Indication LCD
9. LCD Meter : RF Power Indication, Signal Strength, Modulation, CAL, SWR
10. Size : 186 mm (W) × 263 mm (D) × 62 mm (H)
11. Weight : 1.9 kg
12. Accessories : DC Power Cable with Fuse
Microphone & Mic Hanger
Mounting Bracket with Screws
Short Plug
9 pin Accessory Plug
13. Display Box Size : 376 (W) × 230 (D) × 110 (H)
14. Display Box Weight : 2.75 kg (include Unit and ACC.)
15. Quantity / Shipping Carton : 6 pcs.
16. Size / Shipping Carton : 730 (W) × 416 (D) × 270 (H)
17. Weight / Shipping carton : 18 kg (Per 6 pcs.)
18. Case Mark : UCA Standard Style

MEASUREMENT CONDITIONS

1. Power Source : 13.8 V (DC)
2. Antenna Impedance : 50 Ohm
3. Test Temperature : 25°C
4. AM Modulation Frequency : 1 kHz
5. FM Modulation Frequency : 1 kHz
6. SSB Modulation Frequency, Two Tone : 500 Hz & 2400 Hz
7. Mean Signal Input Level : 1000 uV
8. Reference AM Modulation Percentage : 1 kHz, 30%
9. Reference FM Deviation : 1.5 kHz
10. Reference Audio Output Power : 0.5 W
11. Audio Frequency : 1 kHz
12. Audio Output Load : 8 Ohm Resistive

TRANSMITTER SECTION

<u>ITEMS</u>		<u>UNIT</u>	<u>NOMINAL</u>	<u>LIMIT</u>	
1. Frequency Tolerance at 25°C (5 minutes after Switch on)	AM	Hz	± 300	± 1500	
	SSB	Hz	± 300	± 1500	
	FM	Hz	± 300	± 1500	
	CW	Hz	± 300	± 1500	
2. Carrier Power	AM	W	10.0	8.0 ~ 14.0	
	FM	W	10.0	8.0 ~ 14.0	
	CW	W	21.0	18.0 ~ 26.0	
3. PEP Power, Two Tone, SSB		W _{pep}	21.0	18.0 ~ 26.0	
4. Spurious Harmonic Emission	AM	dB	-50	-40	
	SSB	dB	-50	-40	
	FM	dB	-50	-40	
	CW	dB	-50	-40	
5. Carrier Suppression	SSB	dB	-55	-40	
6. Unwanted Sideband Suppression (at 2500 Hz 4 W _{pep} 16 dB up Single tone)					
	SSB	dB	-45	-35	
7. Battery Drain at No Modulation	AM	mA	3000	4500	
	SSB	mA	800	1500	
	FM	mA	3000	4500	
	CW	mA	5000	6500	
8. Battery Drain					
	AM : MAX Modulation	mA	3000	4500	
	SSB : MAX W _{pep} , Two Tone	mA	3000	4500	
	FM : MAX Modulation	mA	3000	4500	
CW : TX Mode, No Key Down	mA	800	1200		
9. Modulation Frequency Response (1 kHz, 0 dB Reference)					
	Lower at 450 Hz	AM	dB	-4	-10
		SSB	dB	-4	-10
		FM	dB	-4	-10
	Upper at 2.5 kHz	AM	dB	-4	-10
		SSB	dB	-4	-10
		FM	dB	-4	-10
	10. Microphone Sensitivity				
AM : For 50% Modulation		mV	1.0	2.0	
SSB : For 10 W _{pep} Output		mV	1.0	2.0	
FM : For 1 kHz Deviation	mV	1.5	3.0		
11. AMC Range					
	AM : 50 ~ 100% Modulation	dB	50	40	
	SSB : 16 ~ 26 W _{pep}	dB	50	40	
12. MIC Gain (ATTENATE)		dB	-10	-6	

RECEIVER SECTION (NB Switch OFF)

1. Max. Sensitivity	AM	uV	0.5	2.0	
	CW/SSB	uV	0.25	1.0	
2. Sensitivity for 10 dB S/N	AM	uV	0.5	2.0	
	CW/SSB	uV	0.25	1.0	
	FM : 20 dB S/N	FM	uV	0.5	3.0
3. AGC Figure of Merit, 50 mV for 10 dB Change in Audio Output	AM	dB	80	70	
	CW/SSB	dB	80	70	
4. Overall Audio Fidelity at 6 dB down					
	Upper Frequency	AM	Hz	2000	1500 ~ 4000
		SSB	Hz	3000	2000 ~ 4500
		FM	Hz	1500	1000 ~ 3000
	Lower Frequency	AM	Hz	300	100 ~ 500
		SSB	Hz	300	100 ~ 500
	FM	Hz	300	100 ~ 500	
5. Adjacent Channel Selectivity (10 kHz, 1 GEN)	AM	dB	70	60	
6. Maximum Audio Output Power	AM	W	4.0	2.5	
	CW/SSB	W	4.0	2.5	
	FM	W	4.0	2.5	
7. Audio Output Power at 10 % THD	AM	W	2.5	2.0	
	CW/SSB	W	2.5	2.0	
	FM	W	2.5	2.0	
8. RF Gain	AM	dB	55	30 ~ 70	
	CW/SSB	dB	55	30 ~ 70	
	FM	dB	55	30 ~ 70	
9. S/N Ratio at 1 mV Input	AM	dB	30	25	
	FM	dB	35	25	
10. Squelch Sensitivity at Threshold	AM	uV	0.5	2.0	
	CW/SSB	uV	0.5	2.0	
	FM	uV	0.5	2.0	
11. Squelch Sensitivity at Tight	AM	uV	1000	250 ~ 4000	
	CW/SSB	uV	1000	250 ~ 4000	
	FM	uV	1000	250 ~ 4000	
12. S Meter Sensitivity at "S-9" (No Modulation)	AM	uV	100	25 ~ 400	
	CW/SSB	uV	100	25 ~ 400	
	FM	uV	100	25 ~ 400	
13. Image Rejection Ratio	AM	dB	65	50	
	CW/SSB	dB	65	50	
	FM	dB	65	50	
14. i-f Rejection Ratio	AM	dB	65	50	
	CW/SSB	dB	65	50	
	FM	dB	65	50	

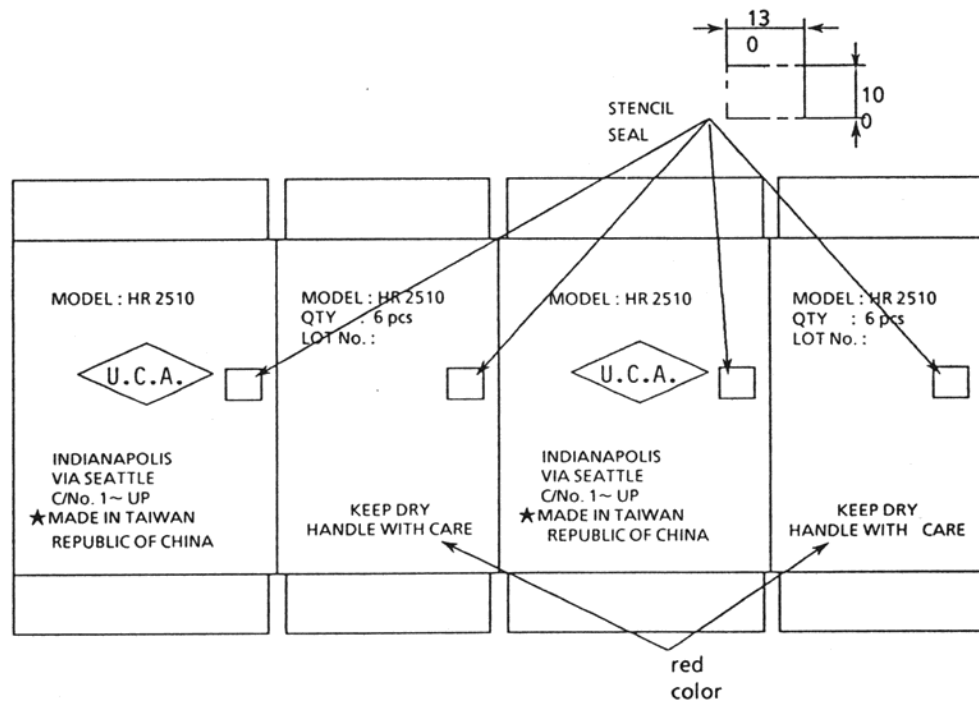
ITEMS		UNIT	NOMINAL	LIMIT
15. Oscillator Dropout Voltage	AM	V	9	11
	CW/SSB	V	9	11
	FM	V	9	11
16. Battery Drain at No Signal	AM	mA	500	800
	CW/SSB	mA	500	800
	FM	mA	500	800
17. Battery Drain at Max. Audio Output	AM	mA	1000	1500
	CW/SSB	mA	1000	1500
	FM	mA	1000	1500
18. Clarifier Range	AM	kHz	± 3.0	± 2.2 ~ ± 4.0
	CW/SSB	kHz	± 3.0	± 2.2 ~ ± 4.0
	FM	kHz	± 3.0	± 2.2 ~ ± 4.0

PUBLIC ADDRESS

ITEMS	UNIT	NOMINAL	LIMIT
1. Output Power at 10% Distortion	W	2.5	2

NOTE :

- (1) Shall have reverse polarity protection and operable with negative ground only.
- (2) Operating Power Voltage : 13.8V + 15 - 20% DC
- (3) Standard Operating Temperature : -10°C ~ +50°C
- (4) Storage Temperature : -30°C ~ +60°C



2. ALIGNMENT PROCEDURES

ALIGNMENT OF TRANSMITTER PORTION

1. Test Equipment Required

DC Power Supply (13.8V) more than 10A	
AF S.S.G. AM FM (1kHz, 500Hz and 2400Hz)	
RF VTVM	Oscilloscope
DC AM METER	RF Power Meter
AF VTVM	Dummy Load (50 ohm)
FM Linear Detector	

2. Preparation for Alignment

VR112 : Clockwise	PA SW : OFF
VR113 : Counter Clockwise	METER SW : RF
VR103 : Clockwise	Mic Gain SW : OFF
SWR/CAL : Middle Position	TX SW : OFF
FREQ. : 28.000 MHz	

3. Alignment Procedure

Step	Preset to	Adjustment	Remarks
1	Mode : USB No.mod.	VR112 <i>FINAL BIAS</i>	Remove the B002(PB-100) from Main PCB. Connect a DC AM Meter(+) to TP4, (-) to TP3. Adjust VR112 for 50 mA reading on the DC AM Meter.
2	Ditto	VR113 <i>DRIVER BIAS</i>	Connect the DC AM Meter(+) to TP4, (-) to TP2. Adjust VR113 for 50 mA reading on the DC AM Meter.
3	1mV modulation	L111	Disconnect the DC AM Meter. Reinstall the B002 to the Main PCB. Connect a RF Power meter to the ANT.jack. Connect a RF VTVM, an oscilloscope and an FM Linear Detector across an RF Dummy load to the RF Power meter. Adjust L111 for maximum reading on the RF VTVM. During this step, set the AF oscillator so that the output is less than 20V. Repeat this step two times.
4	30mV modulation	VR104 <i>ALC</i>	Adjust VR104 for 32.5V reading on the RF VTVM.
5	Ditto	VR106 <i>CARRIER BAL.</i>	Adjust VR106 so that the carrier leakage at USB and LSB become minimum and almost equal.
6	Mode : CW Non Mod.	<i>Am</i> VR103 <i>Power</i>	Connect a SW to between Pin 8 and 9 of ACC connector. When turn on the SW, adjust VR103 for 21W reading on the power meter.

ALIGNMENT OF P. L. L. AND CARRIER OSCILLATOR PORTION

1. Test Equipment Required

DC Power Supply (13.8V)
DC Voltmeter
Dummy Load (50 ohm)

Oscilloscope
Frequency Counter

2. Preparation for alignment

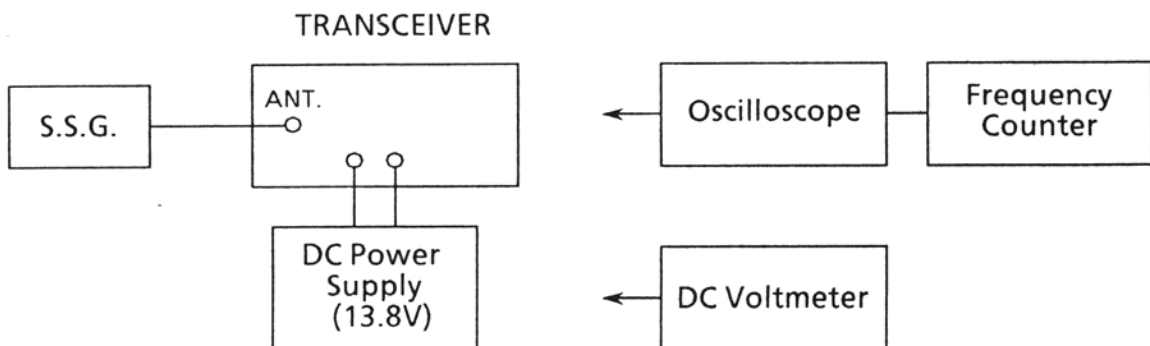
PA SW : OFF
RIT : Middle Position

MODE SW : AM
TX : OFF

3. Alignment Procedure

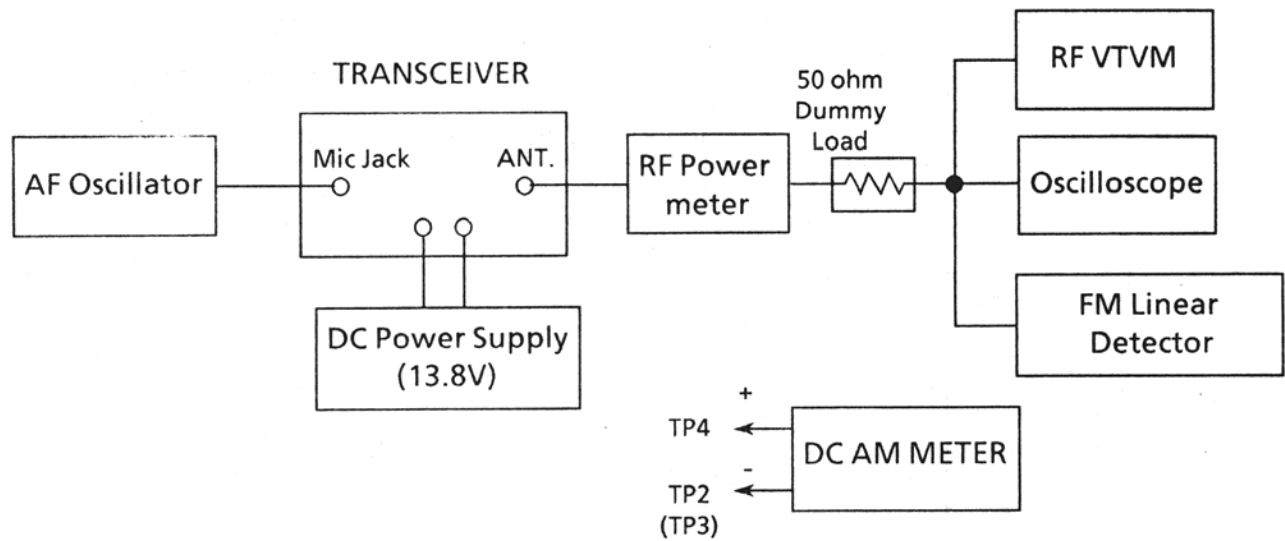
Step	Preset to	Adjustment	Remarks
1	Mode: RX,AM SG : 28MHz	L315	Connect an oscilloscope to TP306. Adjust L315 for 6.200MHz \pm reading on the oscilloscope.
2	Ditto	L318	Connect the oscilloscope to TP304. Adjust L318 for 38.695MHz \pm 20 Hz reading on the oscilloscope.
3	Mode: RX,AM SG:29.6999MHz	L317	Connect a DC voltmeter to TP303. Adjust L317 for 6.5 \pm 0.1V reading on the DC Voltmeter.
4	Mode: RX,CW SG : 28MHz	L117	Connect the oscilloscope to TP1. Adjust L117 for 10.6950MHz \pm 20 Hz reading on the oscilloscope.
5	Mode: RX,LSB	L118	Adjust L118 for 10.6925 MHz (-40Hz to +0Hz) reading on the oscilloscope.
6	Mode:RX,USB	L116	Adjust L116 for 10.6975 MHz \pm 20 Hz reading on the oscilloscope.
7	Mode:RX,USB	VR111 <i>TX FREQ</i>	Connect the oscilloscope to TP5. Adjust VR111 for 38.6975MHz \pm 20Hz reading on the oscilloscope.

TEST EQUIPMENT CONNECTION



Step	Preset to	Adjustment	Remarks
7	Mode : AM Non Mod	VR107 <i>Am pwr</i>	Adjust VR107 for 10W reading on the RF power meter.
8	Ditto	VR117 <i>RF MTR</i>	Adjust VR117 so that "9" LCD just lights on.
9	1kHz, 30mV Modulation	VR114 <i>Amc</i>	Adjust VR114 to obtain the 85% negative reading on the oscilloscope.
10	1kHz, 1mV Modulation INDIC : MOD	VR115 <i>Mod MTR</i>	Adjust VR115 so that "9" LCD just lights on.
11	Mode : FM 1kHz, 30mV Modulation	VR105 <i>Fm Dev.</i>	Adjust VR105 for ± 3 kHz deviation reading on the FM Linear Detector.
12	Mode: CW No Mod. Vol. : Max.	VR116 <i>CW Side Tone</i>	Connect an AF VTVM across a dummy load (8ohm) to between Pin 1 and Pin 2 of ACC connector. When turn on the SW, adjust VR116 for 0.4V reading on the AF VTVM.

TEST EQUIPMENT CONNECTION



ALIGNMENT OF RECEIVER PORTION

1. Test Equipment Required

AF VTVM
 Oscilloscope
 S.S.G.(28.000MHz , 1kHz, 30% Mod. and 50-ohm Impedance)

DC Power Supply (13.8V)
 Dummy Load (8 ohm)

2. Alignment Procedure

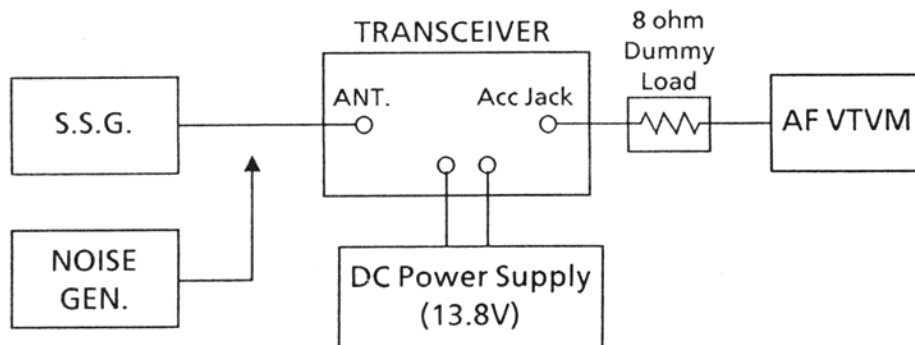
NB SW : OFF
 PA SW : OFF
 Beep SW : OFF
 VOLUME : MAX
 RIT : Middle position

Mode : AM
 Squelch : Min. (Auto SQ OFF)
 RF Gain : MAX
 TX : OFF

3. Alignment Procedure

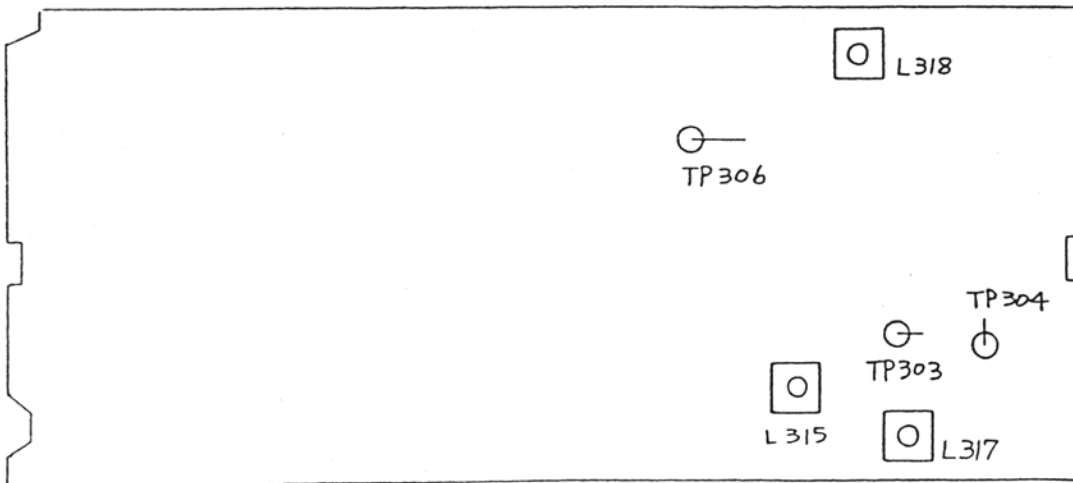
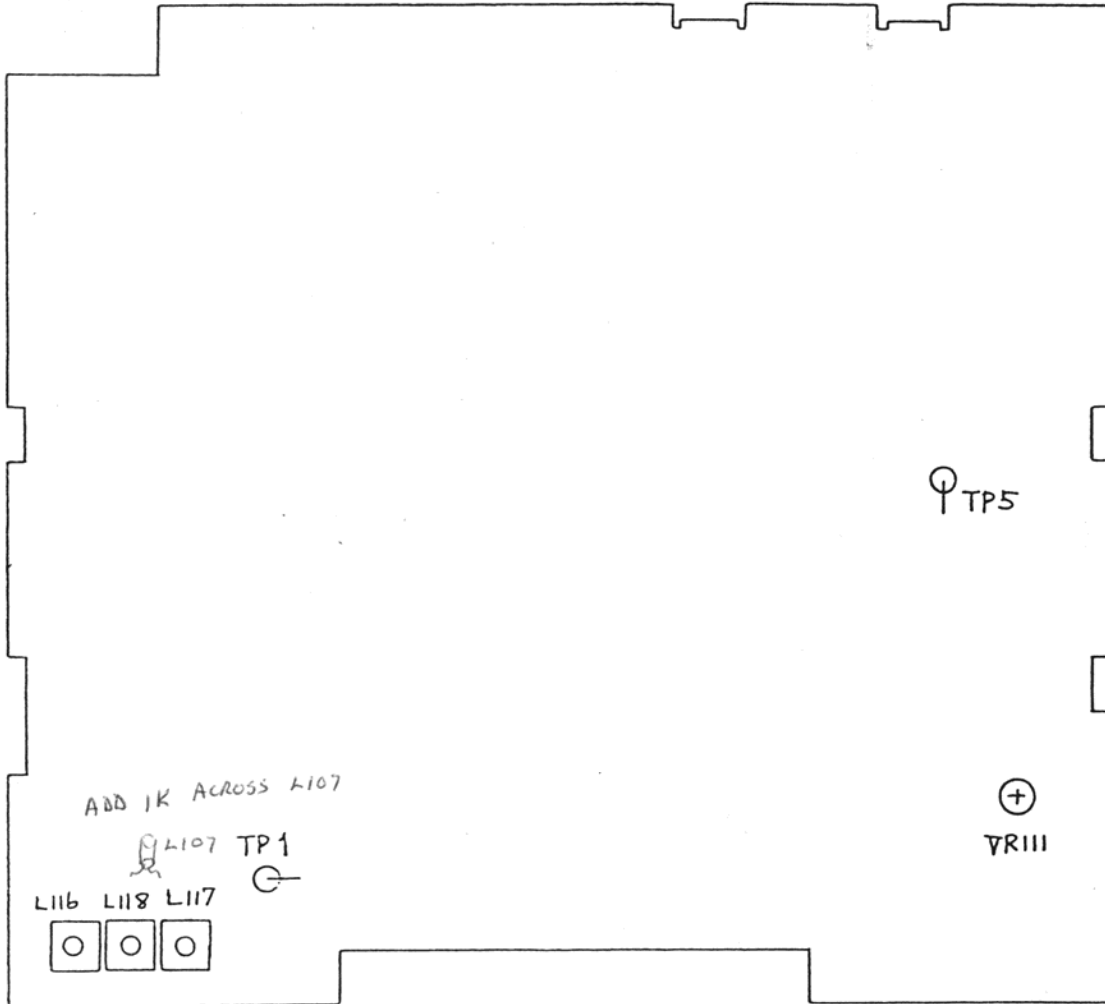
Step	Preset to	Adjustment	Remarks
1		L101, L104, L113, L115 and L105	Alignment of sensitivity Adjust coils for maximum reading on the AF VTVM.(During this step, set the S.S.G.attenuator so that the standard output is less than 0.5W (2V / 8ohm).
2		VR102 <i>SQUELCH</i>	Alignment of Squelch Set the output of S.S.G. to 66 dB \pm 2 dB and squelch to maximum. Adjust VR102 so that the squelch just breaks.
3		VR101 <i>S-MTR</i>	Alignment of S- Meter Set the output of S.S.G. to 46 dB, no modulation. Adjust VR101 so that "9" LCD just lights on.
4	Mode : FM S.S.G.: 1mV (1.5kHz Dev.)	L401	Adjust L401 for maximum reading on the AF VTVM.
5	Mode : AM Noise GEN. to the ANT.Jack	L203	Adjust L203 for minimum reading on the AF VTVM. (Noise GEN. OUTPUT : 50Hz SQ WAVE 2Vp-p)

TEST EQUIPMENT CONNECTION

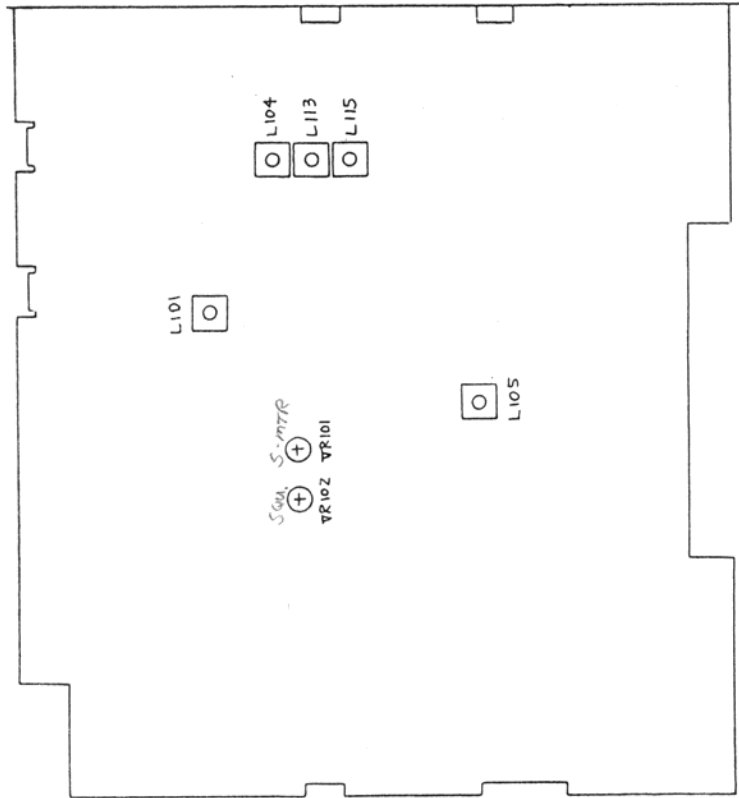


3. ALIGNMENT POINTS

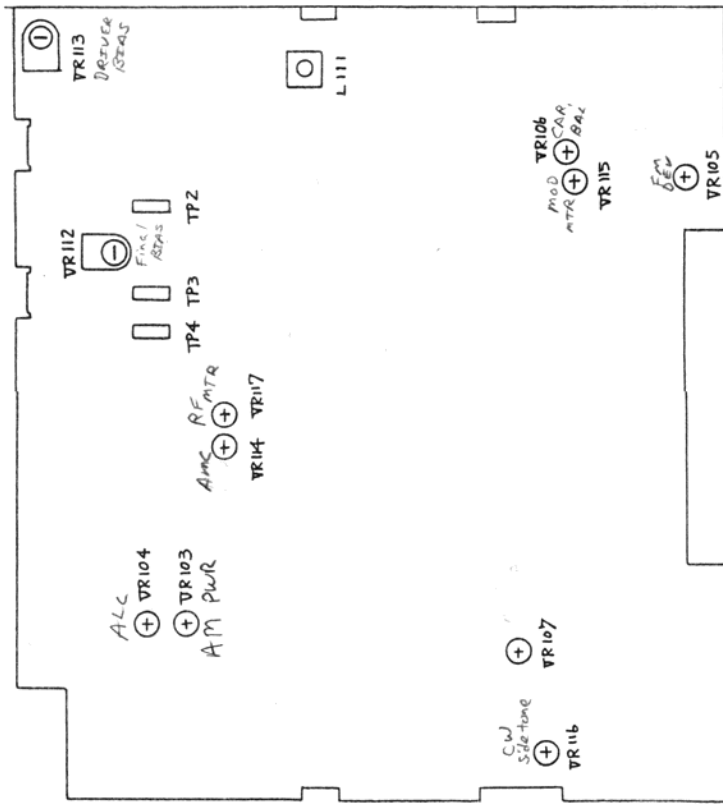
Alignment for PLL and Carrier Oscillator Portion



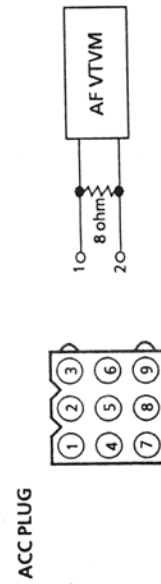
Alignment for Receiver Portion



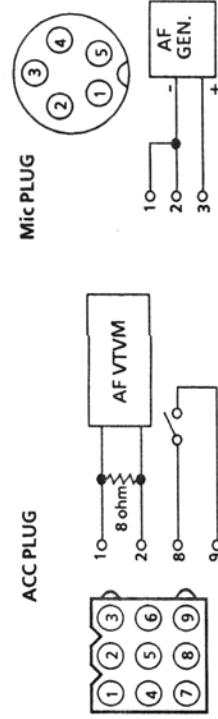
Alignment for Transmitter Portion



CONNECTION FOR RX ALIGNMENT

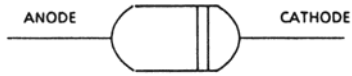


CONNECTION FOR Tx ALIGNMENT

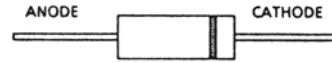


4. SEMICONDUCTOR LEAD IDENTIFICATION

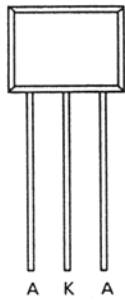
DIODE



1N4148
HZ5C-1
HZ3B3
1N60 AM
1N60 P
1N4003



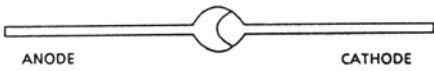
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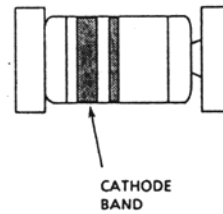
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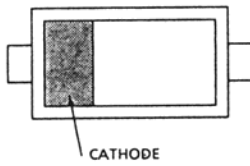
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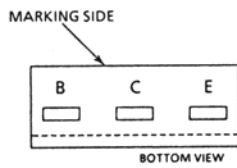
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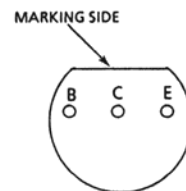
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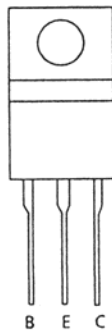
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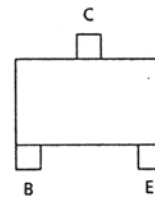
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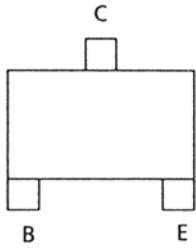
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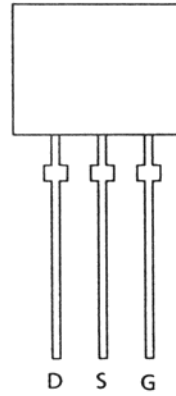
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TRANSISTOR

TRANSISTOR



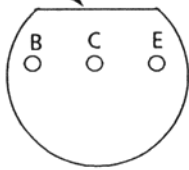
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2SC2812-L5
2SC2814-F5
2SC3121



G: GATE
S: SOURCE
D: DRAIN

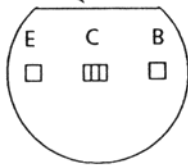
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MARKING SIDE

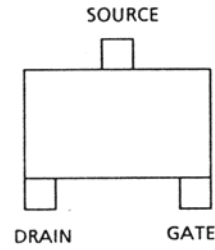


2SC2086-D

MARKING SIDE

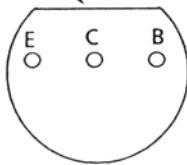


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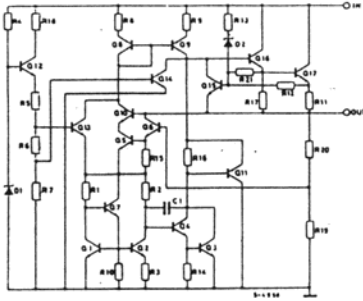
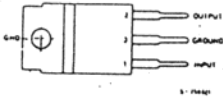
MARKING SIDE



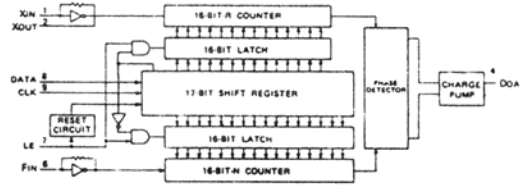
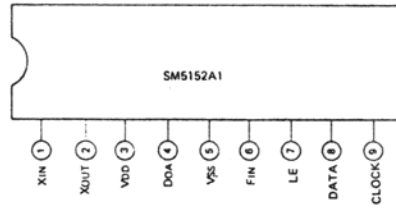
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L78M05CV

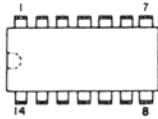
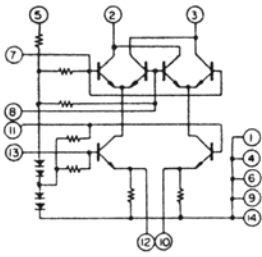
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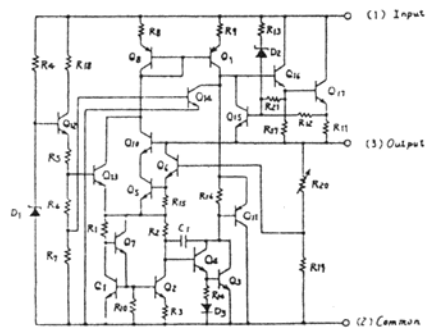
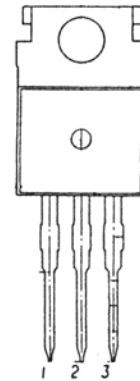
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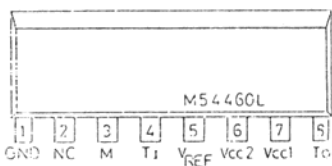
SO42P



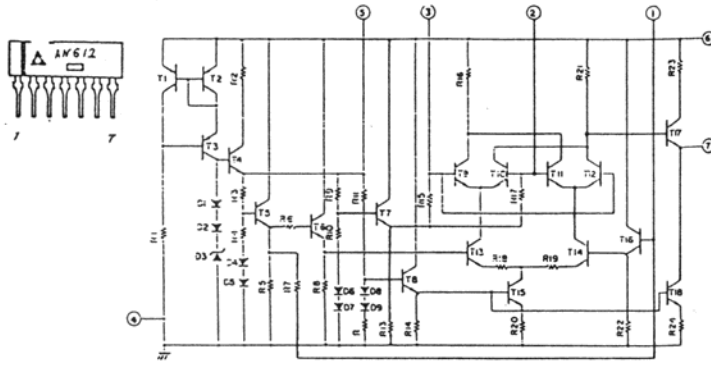
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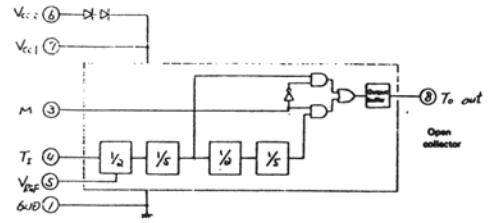
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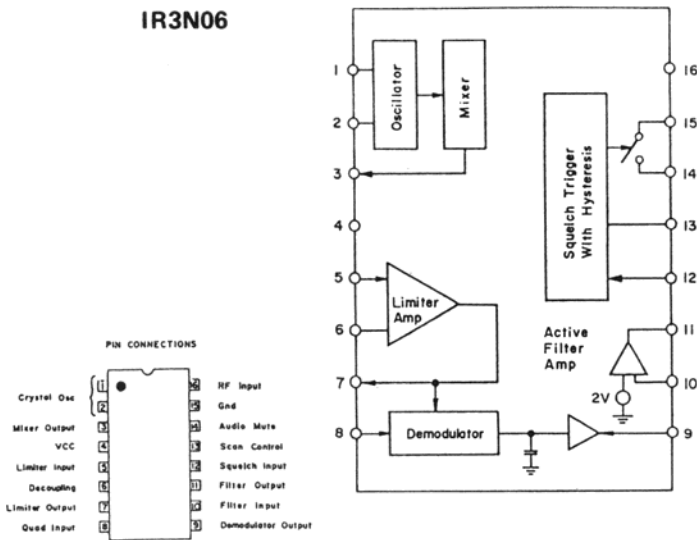
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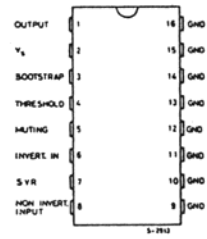
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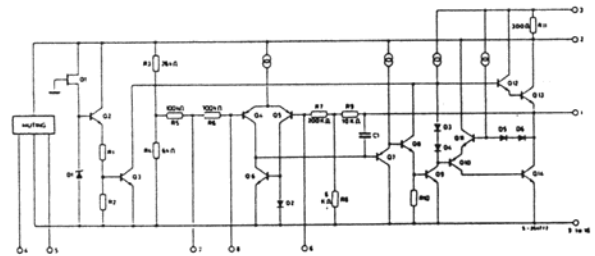
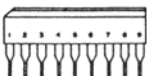
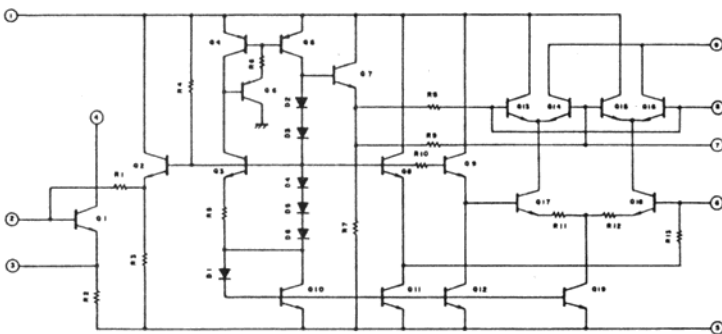


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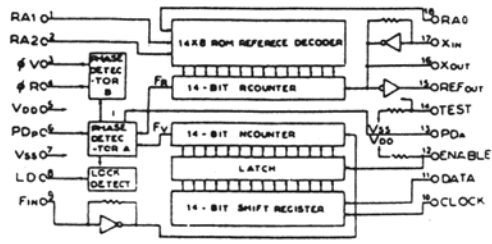
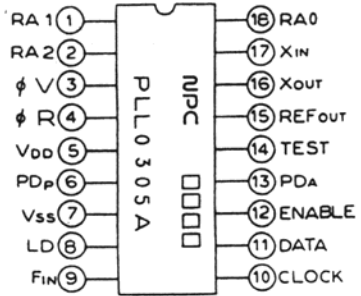


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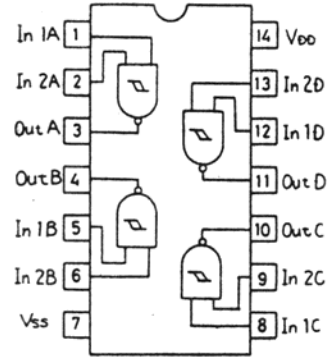
BALANCED MODULATOR-DEMODULATOR



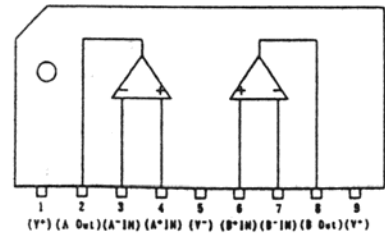
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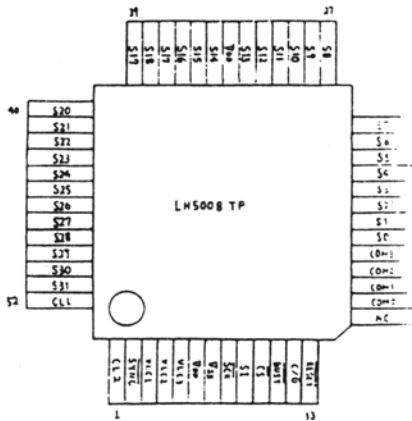
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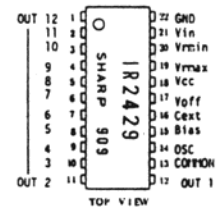
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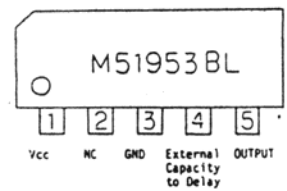
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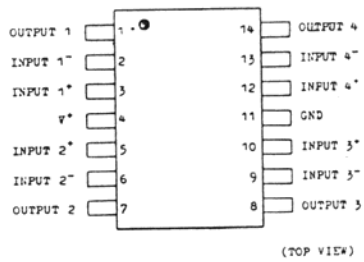
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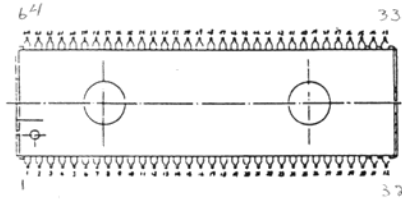
M51953BL



NJM2902N



UC1201



UC1201

Pin No.	Name	Pin No.	Name	Pin No.	Name	Pin No.	Name
1	LCD1 (\overline{SCK})	17		33	BEEP	49	
2	LCD2 (\overline{SI})	18	CWFiL	34	AMATEUR	50	
3	LCD3 (\overline{CS})	19		35	GND	51	
4	LCD4 ($\overline{C/\overline{B}}$)	20	BPF2	36	$\overline{L\overline{O}C\overline{B}}$	52	
5	LCD5 (\overline{RESET})	21		37	$\overline{VCX\overline{O}1}$	53	
6	RF	22	FKNDB1	38	$\overline{VCX\overline{O}2}$	54	ABSEL
7	M $\overline{O}D$	23	FKNDB2	39	$\overline{VCX\overline{O}3}$	55	S $\overline{O}U$
8	CAL	24	AM	40	$\overline{VCX\overline{O}4}$	56	S $\overline{T}\overline{O}P$
9	SWR	25	USB	41	$\overline{VCX\overline{O}5}$	57	BPF3
10	R $\overline{O}W1$	26	L $\overline{S}B$	42	$\overline{VCX\overline{O}6}$	58	WATCH \overline{D}
11	R $\overline{O}W2$	27	CW	43		59	T $\overline{O}NE$
12	R $\overline{O}W3$	28	DATA	44	$\overline{P\overline{O}W\overline{O}FF}$	60	BPF1
13		29	CLK	45	MUP	61	LCD6 (\overline{BWS})
14	C $\overline{O}L1$	30	STB1	46	M $\overline{D}\overline{O}WN$	62	Tx $\overline{O}UT$
15	C $\overline{O}L2$	31	STB2	47	PTT	63	MUTE
16	C $\overline{O}L3$	32		48	F $\overline{L}\overline{O}C\overline{K}$	64	CFILTE

5. PARTS PRICE LIST

Parts price is subject to change without notice.

(SYMBOL)	(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)	(SYMBOL)	(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)	(SYMBOL)	(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)
C072	BGG514725Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.21	C127	BCCG813315Z	CAPACITOR:CERAMIC	1	\$ 0.21	C134	BCKR815615Z	CAPACITOR:CERAMIC	1	\$ 0.16
C073	BGG511035Z	CAPACITOR:SEMI CONDUCTOR(SR)	1	\$ 0.23	C128	BCEFR12286Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.40	C135	BCKD811026Z	CAPACITOR:CERAMIC	1	\$ 0.14
C074	BGG514725Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.21	C129	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.34	C136	BCKD811026Z	CAPACITOR:CERAMIC	1	\$ 0.14
C075	BCEFR12216Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.37	C130	BCEFR14706Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.16	C137	BCEFR12206Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C076	BCEFR81091Z	CAPACITOR:CERAMIC	1	\$ 0.17	C131	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16	C138	BCKG814720Z	CAPACITOR:CERAMIC	1	\$ 0.15
C077	BCC815091Z	CAPACITOR:CERAMIC	1	\$ 0.17	C132	BCCR812215Z	CAPACITOR:CERAMIC	1	\$ 0.37	C139	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16
C078	BCEL811090Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C133	BCCG512235Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.26	C140	BCCG514735Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.35
C079	BCCG814715Z	CAPACITOR:CERAMIC	1	\$ 0.24	C134	BCKR815615Z	CAPACITOR:CERAMIC	1	\$ 0.16	C141	BCCG814715Z	CAPACITOR:CERAMIC	1	\$ 0.24
C080	BGAZ111016Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C135	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16	C142	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16
C081	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16	C136	BCKD811026Z	CAPACITOR:CERAMIC	1	\$ 0.14	C143	BCCU811015Z	CAPACITOR:CERAMIC	1	\$ 0.19
C082	BCCG811515Z	CAPACITOR:CERAMIC	1	\$ 0.16	C137	BCEFR12206Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C144	BCCU813315Z	CAPACITOR:CERAMIC	1	\$ 0.28
C083	BCCG812715Z	CAPACITOR:CERAMIC	1	\$ 0.19	C138	BCKG814720Z	CAPACITOR:CERAMIC	1	\$ 0.15	C145	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16
C084	BCEFR812204Z	CAPACITOR:CERAMIC	1	\$ 0.17	C139	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.15	C146	BCCG511025Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.21
C085	BCCR815605Z	CAPACITOR:CERAMIC	1	\$ 0.19	C140	BCCG514735Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.35	C147	BCCG513335Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.34
C086	BCCR811505Z	CAPACITOR:CERAMIC	1	\$ 0.17	C141	BCCG814715Z	CAPACITOR:CERAMIC	1	\$ 0.24	C148	BCEL812280Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C087	BCEL814790Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C142	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16	C149	BCEFR311006Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28
C088	BCEL114700Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.34	C143	BCCU811015Z	CAPACITOR:CERAMIC	1	\$ 0.19	C150	BCKC514730Z	CAPACITOR:CERAMIC	1	\$ 0.26
C089	BCEL811090Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C144	BCCU813315Z	CAPACITOR:CERAMIC	1	\$ 0.28	C151	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16
C090	BCEL114700Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.34	C145	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16	C152	BCEFR51026Z	CAPACITOR:ELECTROLYTIC	1	\$ 2.13
C091	BCCG512235Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.26	C146	BCCG511025Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.21	C153	BGAZ111016Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C092	BCCG511835Z	CAPACITOR:SEMI CONDUCTOR(SR)	1	\$ 0.26	C147	BCCG513335Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.34	C154	BCEFR51026Z	CAPACITOR:ELECTROLYTIC	1	\$ 2.13
C093	BCCG511035Z	CAPACITOR:SEMI CONDUCTOR(SR)	1	\$ 0.26	C148	BCEL812280Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C155	BCCG511035Z	CAPACITOR:SEMI CONDUCTOR(SR)	1	\$ 0.23
C094	BCEFR14716Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.58	C149	BCEFR311006Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28	C156	BCKR811035Z	CAPACITOR:CERAMIC	1	\$ 0.37
C095	BGG511045Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.34	C150	BCKC514730Z	CAPACITOR:CERAMIC	1	\$ 0.26	C157	BCCR811015Z	CAPACITOR:CERAMIC	1	\$ 0.21
C096	BCEFR14706Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.34	C151	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16	C158	BCEFR114706Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.34
C097	BCEFR14706Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C152	BCEFR51026Z	CAPACITOR:ELECTROLYTIC	1	\$ 2.13	C159	BCEFR14706Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.23
C098	BCEFR812290Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C153	BGAZ111016Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C201	BCEFR314726Z	C-CERAMIC MELF	1	\$ 0.56
C099	BCEFR814796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C154	BCEFR51026Z	CAPACITOR:ELECTROLYTIC	1	\$ 2.13	C202	BCEFR14735Z	C-CERAMIC M/L (3216) TAPE	1	\$ 0.33
C100	BCCG814715Z	CAPACITOR:CERAMIC	1	\$ 0.24	C155	BCCG511035Z	CAPACITOR:SEMI CONDUCTOR(SR)	1	\$ 0.23	C203	BCEL311000Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C101	BCEFR814796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C156	BCKR811035Z	CAPACITOR:CERAMIC	1	\$ 0.37	C204	BCEL811004Z	C-CERAMIC MELF	1	\$ 0.21
C102	BGG511045Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.34	C157	BCCR811015Z	CAPACITOR:CERAMIC	1	\$ 0.21	C205	BCEFR14735Z	C-CERAMIC M/L (3216) TAPE	1	\$ 0.56
C103	BCKD811026Z	CAPACITOR:CERAMIC	1	\$ 0.14	C158	BCEFR114706Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.34	C206	BCEFR314726Z	C-CERAMIC MELF	1	\$ 0.23
C104	BGG514725Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.21	C159	BCEFR14706Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.23	C207	BCEFR11025Z	C-CERAMIC MELF	1	\$ 0.21
C105	BCCG511035Z	CAPACITOR:SEMI CONDUCTOR(SR)	1	\$ 0.23	C201	BCEFR314726Z	C-CERAMIC MELF	1	\$ 0.56	C208	BCEFR18205Z	C-CERAMIC MELF	1	\$ 0.26
C106	BCCG514735Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.35	C202	BCEFR14735Z	C-CERAMIC M/L (3216) TAPE	1	\$ 0.56	C209	BCEFR18205Z	C-CERAMIC MELF	1	\$ 0.26
C107	BCCG514735Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.35	C203	BCEL311000Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C210	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28
C108	BCEL114700Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.34	C204	BCEL811004Z	C-CERAMIC MELF	1	\$ 0.21	C211	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28
C109	BCEL811090Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C205	BCEFR14735Z	C-CERAMIC M/L (3216) TAPE	1	\$ 0.56	C212	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28
C110	BCEFR311006Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28	C206	BCEFR314726Z	C-CERAMIC MELF	1	\$ 0.23	C213	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28
C111	BCEL311000Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C207	BCEFR11025Z	C-CERAMIC MELF	1	\$ 0.21	C214	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28
C112	BCCR811015Z	CAPACITOR:CERAMIC	1	\$ 0.21	C208	BCEFR18205Z	C-CERAMIC MELF	1	\$ 0.26	C215	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28
C113	BCCR813305Z	CAPACITOR:CERAMIC	1	\$ 0.17	C209	BCEFR18205Z	C-CERAMIC MELF	1	\$ 0.26	C300	BCEL14790Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C114	BCCR811815Z	CAPACITOR:CERAMIC	1	\$ 0.28	C210	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28	C301	BCEFR14735Z	C-CERAMIC M/L (3216) TAPE	1	\$ 0.56
C115	BCCR811815Z	CAPACITOR:CERAMIC	1	\$ 0.28	C211	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28	C302	BCEL112200Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C116	BCCR811515Z	CAPACITOR:CERAMIC	1	\$ 0.28	C212	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28	C303	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C117	BCCG813915Z	CAPACITOR:CERAMIC	1	\$ 0.21	C213	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28	C304	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C118	BCKG814720Z	CAPACITOR:CERAMIC	1	\$ 0.15	C214	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28	C305	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C119	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28	C215	BCEFR14786Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.28	C306	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C120	BCCG815615Z	CAPACITOR:CERAMIC	1	\$ 0.34	C300	BCEL14790Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C307	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C121	BCCG511025Z	CAPACITOR:SEMI-CONDUCTOR(SR)	1	\$ 0.21	C301	BCEFR14735Z	C-CERAMIC M/L (3216) TAPE	1	\$ 0.56	C308	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C122	BCKG811030Z	CAPACITOR:CERAMIC	1	\$ 0.16	C302	BCEL112200Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C309	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C123	BCKD811026Z	CAPACITOR:CERAMIC	1	\$ 0.14	C303	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C310	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C124	BCCG815615Z	CAPACITOR:CERAMIC	1	\$ 0.34	C304	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C311	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C125	BCCG815615Z	CAPACITOR:CERAMIC	1	\$ 0.34	C305	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C312	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33
C126	BCCG818215Z	CAPACITOR:CERAMIC	1	\$ 0.36	C306	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33	C313	BCEFR14796Z	CAPACITOR:ELECTROLYTIC	1	\$ 0.33

(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)	(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)
C308	BCVP811815Z	C-CERAMIC MELF	180PF 50V K B C-140 TAPE 1	C363	BCVP814726Z	C-CERAMIC MELF	4700PF 16V M X C-140 TAPE 1
C309	BCXE813935Z	C-CERAMIC M/L (3216) TAPE	0.039UF 50V K C(B) 1	C364	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1
C310	BCXL814790Z	CAPACITOR:ELECTROLYTIC	4.7UF 50V 1	C365			
C311	BCGC513335Z	CAPACITOR:SEMI-CONDUCTOR(SR)	0.033UF 25V K 1	C366	BCXE814735Z	C-CERAMIC M/L (3216) TAPE	0.047UF 50V K C(B) 1
C312	BCXD811015Z	C-CERAMIC MELF	100PF 50V J CH C-140 TAPE 1	C367	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1
C313	BCVM811804Z	C-CERAMIC M/L (3216) TAPE	18PF 50V J CH C-140 TAPE 1	C368	BCVL813904Z	C-CERAMIC MELF	39PF 50V J SL C-140 TAPE 1
C314	BCXD812215Z	C-CERAMIC MELF	220PF 50V K CG 1	C369	BCVQ311036Z	C-CERAMIC MELF	0.01UF 16V M Y C-140 TAPE 1
C315	BCVM812091Z	C-CERAMIC MELF	2PF 50V C CH C-140 TAPE 1	C370	BCVQ311036Z	C-CERAMIC MELF	0.01UF 16V M Y C-140 TAPE 1
C316	BCXD816805Z	C-CERAMIC M/L (3216) TAPE	68PF 50V K CG 1	C371			
C317	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1	C372	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1
C318	BCVQ311036Z	C-CERAMIC MELF	0.01UF 16V M Y C-140 TAPE 1	C373	BCVM815092Z	C-CERAMIC MELF	59PF 50V D CH C-140 TAPE 1
C319	BCGC511035Z	CAPACITOR:SEMI CONDUCTOR(SR)	0.01UF 25V K 1	C374	BCVM811004Z	C-CERAMIC MELF	10PF 50V J CH C-140 TAPE 1
C320	BCXL814790Z	CAPACITOR:ELECTROLYTIC	4.7UF 50V 1	C375	BCXL814790Z	CAPACITOR:ELECTROLYTIC	4.7UF 50V 1
C321	BCXE814735Z	C-CERAMIC M/L (3216) TAPE	0.047UF 50V K C(B) 1	C376	BCVQ311036Z	C-CERAMIC MELF	0.01UF 16V M Y C-140 TAPE 1
C322	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1	C377	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1
C323	BCVQ311036Z	C-CERAMIC MELF	0.01UF 16V M Y C-140 TAPE 1	C378	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1
C324	BCVL815604Z	C-CERAMIC MELF	56PF 50V J SL C-140 TAPE 1	C379	BCVL813304Z	C-CERAMIC MELF	33PF 50V J SL C-140 TAPE 1
C325	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1	C380	BCXL814790Z	CAPACITOR:ELECTROLYTIC	4.7UF 50V 1
C326	BCVL819092Z	C-CERAMIC MELF	9PF 50V D SL C-140 TAPE 1	C381	BCXL814790Z	CAPACITOR:ELECTROLYTIC	4.7UF 50V 1
C327	BCVL812204Z	C-CERAMIC MELF	22PF 50V J SL C-140 TAPE 1	C382	BCXE814725Z	C-CERAMIC M/L (3216) TAPE	0.0047UF 50V K C(B) 1
C328	BCVL813904Z	C-CERAMIC MELF	39PF 50V J SL C-140 TAPE 1	C383	BCVQ311036Z	C-CERAMIC MELF	0.01UF 16V M Y C-140 TAPE 1
C329	BCVL816092Z	C-CERAMIC MELF	6PF 50V D SL C-140 TAPE 1	C384			
C330	BCVP813915Z	C-CERAMIC MELF	390PF 50V K B C-140 TAPE 1	C385	BCXL811090Z	CAPACITOR:ELECTROLYTIC	1UF 50V 1
C331	BCVL811804Z	C-CERAMIC MELF	18PF 50V J SL C-140 TAPE 1	C386			
C332	BCVQ311036Z	C-CERAMIC MELF	0.01UF 16V M Y C-140 TAPE 1	C387	BCXE812235Z	C-CERAMIC M/L (3216) TAPE	0.022UF 50V K C(B) 1
C333	BCVP811515Z	C-CERAMIC MELF	150PF 50V K B C-140 TAPE 1	C388	BCXL812296Z	CAPACITOR:ELECTROLYTIC	2.2UF 50V M 1
C334				C389	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1
C335	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1	C390	BCXL811080Z	CAPACITOR:ELECTROLYTIC	0.1UF 50V 1
C336				C391	BCVM810262	CAPACITOR:ELECTROLYTIC	1000UF 6.3V M C-157
C337	BCVL811504Z	C-CERAMIC MELF	15PF 50V J SL C-140 TAPE 1	C392	BCA214716Z	CAPACITOR:ELECTROLYTIC	470UF 10V M C-186
C338	BCVL818092Z	C-CERAMIC MELF	8PF 50V D SL C-140 TAPE 1	C393	BCVL813304Z	C-CERAMIC MELF	33PF 50V J SL C-140 TAPE 1
C339	BCVL812704Z	C-CERAMIC MELF	27PF 50V J SL C-140 TAPE 1	C394	BCXL811080Z	CAPACITOR:ELECTROLYTIC	0.1UF 50V 1
C340	BCVL812204Z	C-CERAMIC MELF	22PF 50V J SL C-140 TAPE 1	C395	BCVM810262	CAPACITOR:ELECTROLYTIC	1000UF 6.3V M C-157
C341	BCVL812091Z	C-CERAMIC MELF	2PF 50V C SL C-140 TAPE 1	C396	BCA214716Z	CAPACITOR:ELECTROLYTIC	470UF 10V M C-186
C342	BCVL811804Z	C-CERAMIC MELF	18PF 50V J SL C-140 TAPE 1	C397			
C343	BCXE814735Z	C-CERAMIC M/L (3216) TAPE	0.047UF 50V K C(B) 1	C398	BCXL811080Z	CAPACITOR:ELECTROLYTIC	0.1UF 50V 1
C344	BCVL811804Z	C-CERAMIC MELF	18PF 50V J SL C-140 TAPE 1	C399			
C345	BCVL811504Z	C-CERAMIC MELF	15PF 50V J SL C-140 TAPE 1	C400	BCVQ311036Z	C-CERAMIC MELF	0.01UF 16V M Y C-140 TAPE 1
C346	BCVL818092Z	C-CERAMIC MELF	8PF 50V D SL C-140 TAPE 1	C401	BCVR314726Z	C-CERAMIC MELF	4700PF 16V M X C-140 TAPE 1
C347	BCVL811504Z	C-CERAMIC MELF	15PF 50V J SL C-140 TAPE 1	C402	BCER114706Z	CAPACITOR:ELECTROLYTIC	47UF 10V M C-09S
C348	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1	C403	BCXE814735Z	C-CERAMIC M/L (3216) TAPE	0.047UF 50V K C(B) 1
C349	BCVP811015Z	C-CERAMIC MELF	100PF 50V K B C-140 TAPE 1	C404			
C350	BCXL814780Z	CAPACITOR ELECTROLYTIC	0.47UF 50V 1	C405	BCVM811804Z	C-CERAMIC MELF	18PF 50V J RH C-140 TAPE 1
C351	BCVP811015Z	C-CERAMIC MELF	100PF 50V K B C-140 TAPE 1	C406	BCXE814735Z	C-CERAMIC M/L (3216) TAPE	0.047UF 50V K C(B) 1
C352	BCXE814735Z	C-CERAMIC M/L (3216) TAPE	0.047UF 50V K C(B) 1	C407			
C353	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1	C408	BCVM811804Z	C-CERAMIC MELF	18PF 50V J RH C-140 TAPE 1
C354				C409	BCXE814735Z	C-CERAMIC M/L (3216) TAPE	0.047UF 50V K C(B) 1
C355	BCXE814735Z	C-CERAMIC M/L (3216) TAPE	0.047UF 50V K C(B) 1	C410			
C356	BCVP811025Z	C-CERAMIC MELF	0.001U 50V K B C-140 TAPE 1	C411			
C357				C412			
C358	BCXD811515Z	C-CERAMIC M/L (3216) TAPE	150PF 50V K CG 1	C413			
C359	BCXD814715Z	C-CERAMIC M/L (3216) TAPE	470PF 50V K CG 1	C501	BCXL814790Z	CAPACITOR:ELECTROLYTIC	4.7UF 50V 1
C360	BCVM815092Z	C-CERAMIC MELF	59PF 50V D CH C-140 TAPE 1	C502	BCXL813304Z	CAPACITOR:ELECTROLYTIC	3.3UF 50V 1
C361	BCVM811204Z	C-CERAMIC MELF	12PF 50V J CH C-140 TAPE 1	C503	BCAZ901016Z	CAPACITOR:ELECTROLYTIC	100UF 6.3V M C-156
C362	BCXD811015Z	C-CERAMIC M/L (3216) TAPE	100PF 50V K CG 1	C551	BCKGB11030Z	CAPACITOR:CERAMIC	0.01UF 50V Z YF 1
				C552			
				C801	BCGC512235Z	CAPACITOR:SEMI-CONDUCTOR(SR)	0.022UF 25V K 1
				D101	BDAY0090001	DIODE	MC-301 1
				D102			
				D103			
				D104	BDAY0258001	DIODE	1M4148,UM1DEN 1
				D105			

(SYMBOL)(PARTS CODE) (DESCRIPTION)	(QTY) (LIST PRICE)	(SYMBOL)(PARTS CODE) (DESCRIPTION)	(QTY) (LIST PRICE)
D106 BDAY0258001 DIODE	1 \$ 0.09	D164 BDFY0058001 VARI STOR	1 \$ 1.66
D107 1M4148, UNIDEN	1 \$ 0.09	D165 1M4148, UNIDEN	1 \$ 1.66
D108	1 \$ 0.09	D166 BDAY0258001 DIODE	1 \$ 0.09
D109	1 \$ 0.09	D167	1 \$ 0.09
D110	1 \$ 0.09	D168	1 \$ 0.09
D111 BDAY0001001 DIODE	1 \$ 0.33	D169	1 \$ 0.09
D112 1M60 AM	1 \$ 0.33	D170	1 \$ 0.09
D113 BDAY0258001 DIODE	1 \$ 0.09	D171	1 \$ 0.09
D114	1 \$ 0.09	D172	1 \$ 0.09
D115	1 \$ 0.09	D173	1 \$ 0.09
D116	1 \$ 0.09	D174	1 \$ 0.09
D117 BDAY0001001 DIODE	1 \$ 0.33	D175	1 \$ 0.09
D118 1M60 AM	1 \$ 0.33	D176	1 \$ 0.09
D119 BDAY0258001 DIODE	1 \$ 0.09	D177	1 \$ 0.09
D120	1 \$ 0.09	D178	1 \$ 0.09
D121	1 \$ 0.09	D201	1 \$ 0.33
D122	1 \$ 0.09	D202	1 \$ 0.33
D123	1 \$ 0.09	D203	1 \$ 0.24
D124	1 \$ 0.09	D301	1 \$ 0.96
D125	1 \$ 0.09	D303	1 \$ 0.96
D126	1 \$ 0.09	D304	1 \$ 0.96
D127	1 \$ 0.09	D305	1 \$ 0.96
D128	1 \$ 0.09	D306	1 \$ 0.96
D129	1 \$ 0.09	D307	1 \$ 0.96
D130	1 \$ 0.09	D308	1 \$ 3.77
D131	1 \$ 0.09	D311	1 \$ 0.24
D132	1 \$ 0.09	D312	1 \$ 0.21
D133	1 \$ 0.09	D313	1 \$ 0.21
D134	1 \$ 1.10	D315	1 \$ 0.24
D135 BDFY0004003 VARI STOR	1 \$ 0.09	D316	1 \$ 0.21
D136 BDAY0258001 DIODE	1 \$ 0.09	D318	1 \$ 0.24
D137	1 \$ 0.09	D319	1 \$ 0.24
D138	1 \$ 0.09	D321	1 \$ 0.24
D139	1 \$ 0.09	D322	1 \$ 0.24
D140	1 \$ 0.09	D323	1 \$ 0.24
D141	1 \$ 0.09	D324	1 \$ 0.24
D142	1 \$ 0.09	D551	1 \$ 0.34
D143	1 \$ 0.09	D552	1 \$ 0.34
D144	1 \$ 0.09	J301	1 \$ 0.61
D145	1 \$ 0.09	J302	1 \$ 0.93
D146 BDAY0269003 DIODE:ZENER	1 \$ 0.26	J303	1 \$ 0.93
D147 BDAY0269002 DIODE:ZENER	1 \$ 0.26	J304	1 \$ 1.22
D148 BDAY0258001 DIODE	1 \$ 0.09	J305	1 \$ 1.22
D149	1 \$ 0.09	J306	1 \$ 0.93
D150	1 \$ 0.09	J307	1 \$ 0.61
D151	1 \$ 0.09	J308	1 \$ 1.29
D152	1 \$ 0.12	J311	1 \$ 1.29
D153	1 \$ 0.12	J312	1 \$ 2.11
D154 BDAY0258001 DIODE	1 \$ 0.09	J513	1 \$ 2.11
D155	1 \$ 0.09	J651	1 \$ 4.86
D156	1 \$ 0.09	L101	1 \$ 1.77
D157	1 \$ 0.09	L102	1 \$ 0.34
D158	1 \$ 0.09	L103	1 \$ 0.34
D159	1 \$ 0.09	L104	1 \$ 1.33
D160	1 \$ 0.09	L105	1 \$ 1.33
D163	1 \$ 0.09		

(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)	(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)	
L106	BLZY0016471	INDUCTOR:MOLDED	1	\$ 0.46	LZ-016	5L0609-471K 470UH	1	\$ 0.46
L107			1	\$ 0.46			1	\$ 0.46
L108			1	\$ 0.46			1	\$ 0.46
L109	BLZY0016101	INDUCTOR:MOLDED	1	\$ 0.46	LZ-016	5L0609-101K 100UH	1	\$ 0.46
L111	BLBY0342001	COIL	1	\$ 1.33	LB-342	199CC-13524R	1	\$ 1.33
L113	BLBY0341001	COIL	1	\$ 1.33	LB-341	199CC-13499A	1	\$ 1.33
L115			1	\$ 1.33			1	\$ 1.33
L116	BLBY0209001	COIL	1	\$ 2.44	LB-209	113CN-6485Z	1	\$ 2.44
L117	BLBY0137001	COIL	1	\$ 1.06	LB-137	113CN-6344Z	1	\$ 1.06
L118			1	\$ 1.06			1	\$ 1.06
L121	BLEY0096001	COIL	1	\$ 0.17	LE-096	8 1/2T	1	\$ 0.17
L122	BLEY0092001	COIL	1	\$ 0.16	LE-092	6 1/2T	1	\$ 0.16
L123	BLEY0093001	COIL	1	\$ 0.70	LE-093	7 1/2T	1	\$ 0.70
L124	BLDY0228001	COIL	1	\$ 1.62	LD-228	AT0502T-3012	1	\$ 1.62
L126	BLDY0221001	COIL	1	\$ 0.20	LD-221		1	\$ 0.20
L129	BLDY0087001	COIL	1	\$ 0.19	LD-087	BF04-3*5*1	1	\$ 0.19
L131			1	\$ 3.07	LE-201	02.4 3 1/2T	1	\$ 3.07
L132	BLEY0201001	COIL	1	\$ 3.89	LD-229		1	\$ 3.89
L134	BLDY0229001	COIL	1	\$ 2.51	LD-230		1	\$ 2.51
L135	BLDY0230001	COIL	1	\$ 1.87	LF-125	332PC-2673Y	1	\$ 1.87
L136			1	\$ 1.87	LF-246	00.6 3 1/2T	1	\$ 1.87
L203	BLFY0125001	COIL	1	\$ 1.87	LF-132	A294SN-146418	1	\$ 1.87
L301	BLFY0246001	COIL	1	\$ 1.87	LF-131	A294SN-1373AQ	1	\$ 1.87
L302	BLFY0132001	COIL	1	\$ 0.81	LZ-051	SPO305-3R3K 3.3UH	1	\$ 0.81
L303	BLFY0131001	COIL	1	\$ 1.06	LZ-051	SPO305-4R7K 4.7UH	1	\$ 1.06
L304			1	\$ 0.81			1	\$ 0.81
L305	BLZY0051339	INDUCTOR:MOLDED	1	\$ 0.81	LZ-051	SPO305-100K 10UH	1	\$ 0.81
L306	BLZY0051479	INDUCTOR:MOLDED	1	\$ 0.34	LZ-051	SPO305-6R8K 6.8UH	1	\$ 0.34
L307			1	\$ 0.34	LF-159	341LC-1286N	1	\$ 0.34
L308	BLZY0051100	INDUCTOR:MOLDED	1	\$ 0.34	LZ-051	SPO305-6R8K 6.8UH	1	\$ 0.34
L309	BLZY0051689	INDUCTOR:MOLDED	1	\$ 0.34	LZ-051	SPO305-2R7M 2.7UH	1	\$ 0.34
L310	BLFY0159001	COIL	1	\$ 1.87	LF-130	A294SN-1372AQ	1	\$ 1.87
L311	BLZY0051689	INDUCTOR:MOLDED	1	\$ 1.87	LF-131	A294SN-1373AQ	1	\$ 1.87
L312	BLZY0051279	INDUCTOR:MOLDED	1	\$ 1.50	LF-172	A294SN-152918	1	\$ 1.50
L313	BLFY0130001	COIL	1	\$ 1.87	LZ-044	262LY-682K 6.8MH	1	\$ 1.87
L314	BLFY0131001	COIL	1	\$ 1.87	LF-134	A294SNS-15071B	1	\$ 1.87
L315	BLFY0172001	COIL	1	\$ 2.51	LF-133	A294SNS-14411B	1	\$ 2.51
L316	BLZY0044682	INDUCTOR:MOLDED	1	\$ 2.76	LF-158	341LC-1282FQZ	1	\$ 2.76
L317	BLFY0134001	COIL	1	\$ 0.81	LF-072	SPLC-1055Z	1	\$ 0.81
L318	BLFY0133001	COIL	1	\$ 0.81	LZ-051	SPO305-471K 470UH	1	\$ 0.81
L319	BLFY0158001	COIL	1	\$ 0.81			1	\$ 0.81
L401	BLFY0072001	COIL	1	\$ 0.73	DB-295	25C1674-L	1	\$ 0.73
L651	BLZY0051471	INDUCTOR:MOLDED	1	\$ 0.99	DC-019	25K192A-BL	1	\$ 0.99
L652			1	\$ 0.73	DB-259	25C1675-L	1	\$ 0.73
L653			1	\$ 0.73	DB-295	25C1674-L	1	\$ 0.73
Q101	B08C1674111	TRANSISTOR	1	\$ 0.61	DB-259	25C1675-L	1	\$ 0.61
Q102	B08C0192533	FIELD EFFECT TRANSISTOR	1	\$ 0.61	DB-269	25C1730-L	1	\$ 0.61
Q103	B08C1675111	TRANSISTOR	1	\$ 0.61	DB-224	25C945A-Q	1	\$ 0.61
Q104	B08C1674111	TRANSISTOR	1	\$ 0.61			1	\$ 0.61
Q105	B08C1675111	TRANSISTOR	1	\$ 0.61			1	\$ 0.61
Q106			1	\$ 0.61			1	\$ 0.61
Q107	B08C1730111	TRANSISTOR	1	\$ 1.21			1	\$ 1.21
Q108	B08C0945507	TRANSISTOR	1	\$ 0.53			1	\$ 0.53
Q109			1	\$ 0.53			1	\$ 0.53
Q111			1	\$ 0.53			1	\$ 0.53
Q112	B08C0945507	TRANSISTOR	1	\$ 0.46	DB-224	25C945A-Q	1	\$ 0.46
Q113			1	\$ 0.46			1	\$ 0.46
Q114			1	\$ 0.46			1	\$ 0.46
Q115			1	\$ 0.46			1	\$ 0.46
Q116			1	\$ 1.33			1	\$ 1.33
Q117			1	\$ 1.33			1	\$ 1.33
Q118			1	\$ 1.33			1	\$ 1.33
Q119	B08C1675111	TRANSISTOR	1	\$ 0.61	DB-259	25C1675-L	1	\$ 0.61
Q120	B08A0733506	TRANSISTOR	1	\$ 0.57	DB-003	25A733A-P	1	\$ 0.57
Q121	B08C0945507	TRANSISTOR	1	\$ 0.53	DB-224	25C945A-Q	1	\$ 0.53
Q122			1	\$ 0.53			1	\$ 0.53
Q123	B08C1973315	TRANSISTOR	1	\$ 3.25	DB-272	25C1973-SSB	1	\$ 3.25
Q124	B08B0525103	TRANSISTOR	1	\$ 0.75	DB-106	25B525-C	1	\$ 0.75
Q125	B08C0945507	TRANSISTOR	1	\$ 0.53	DB-224	25C945A-Q	1	\$ 0.53
Q126	B08C0945507	TRANSISTOR	1	\$ 0.81	DB-383	25C3242A-E	1	\$ 0.81
Q127	B08C3242536	TRANSISTOR	1	\$ 0.53	DB-224	25C945A-Q	1	\$ 0.53
Q128	B08C0945507	TRANSISTOR	1	\$ 0.53			1	\$ 0.53
Q129			1	\$ 0.53			1	\$ 0.53
Q131	B0820529001	TRANSISTOR	1	\$ 5.02	DB-529	MRF-477	1	\$ 5.02
Q132	B08C2166103	TRANSISTOR	1	\$ 2.19	DB-331	25C2166-C	1	\$ 2.19
Q133	B08C2086104	TRANSISTOR	1	\$ 0.53	DB-228	25C2086-D	1	\$ 0.53
Q134	B08C0945507	TRANSISTOR	1	\$ 0.53	DB-224	25C945A-Q	1	\$ 0.53
Q135			1	\$ 0.53			1	\$ 0.53
Q136			1	\$ 0.42			1	\$ 0.42
Q137	B08C2712124	TRANSISTOR	1	\$ 0.57	DB-381	25C2712-Y TAPPING	1	\$ 0.57
Q138	B08A0733506	TRANSISTOR	1	\$ 0.40	DB-003	25A733A-P	1	\$ 0.40
Q201	B08C2814641	TRANSISTOR	1	\$ 0.40	DB-744	25C2814-F5 TAPPING	1	\$ 0.40
Q202			1	\$ 0.40			1	\$ 0.40
Q203			1	\$ 0.40			1	\$ 0.40
Q204	B08C2812642	TRANSISTOR	1	\$ 0.32	DB-743	25C2812-L5 TAPPING	1	\$ 0.32
Q205			1	\$ 0.32			1	\$ 0.32
Q206	B08A179643	TRANSISTOR	1	\$ 0.36	DB-048	25A1179-M6 TAPPING	1	\$ 0.36
Q207	B08C2814641	TRANSISTOR	1	\$ 0.40	DB-744	25C2814-F5 TAPPING	1	\$ 0.40
Q301	B08C3121000	TRANSISTOR	1	\$ 1.14	DB-724	25C3121 TAPPING	1	\$ 1.14
Q302			1	\$ 1.14			1	\$ 1.14
Q303			1	\$ 1.14			1	\$ 1.14
Q304			1	\$ 1.45			1	\$ 1.45
Q305	B08C80302124	FIELD EFFECT TRANSISTOR	1	\$ 1.45	DC-025	25K302-Y TAPPING	1	\$ 1.45
Q306			1	\$ 1.45			1	\$ 1.45
Q307			1	\$ 0.40	DB-744	25C2814-F5 TAPPING	1	\$ 0.40
Q308	B08C2814641	TRANSISTOR	1	\$ 0.36	DB-048	25A1179-M6 TAPPING	1	\$ 0.36
Q311	B08A179643	TRANSISTOR	1	\$ 0.36			1	\$ 0.36
Q312			1	\$ 0.36			1	\$ 0.36
Q313			1	\$ 0.36			1	\$ 0.36
Q314			1	\$ 0.42	DB-381	25C2712-Y TAPPING	1	\$ 0.42
Q315	B08C2712124	TRANSISTOR	1	\$ 0.36	DB-048	25A1179-M6 TAPPING	1	\$ 0.36
Q316	B08A179643	TRANSISTOR	1	\$ 0.42	DB-381	25C2712-Y TAPPING	1	\$ 0.42
Q317	B08C2712124	TRANSISTOR	1	\$ 0.40	DB-744	25C2814-F5 TAPPING	1	\$ 0.40
Q401	B08C2814641	TRANSISTOR	1	\$ 0.05	5.6K 1/6W J		1	\$ 0.05
R001	BRF7615624Z	R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	8.2K 1/6W J		1	\$ 0.05
R002	BRF7618224Z	R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	1K 1/6W J		1	\$ 0.05
R003	BRF7611024Z	R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	1.5K 1/6W J		1	\$ 0.05
R004	BRF7611524Z	R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.09	68K 1/8W J TAPPING		1	\$ 0.09
R005	BRF76186834Z	RESISTOR:CARBON MELF CHIP	1	\$ 0.53			1	\$ 0.53
R006	BRF7611014Z	R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.53			1	\$ 0.53

(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)	(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)
R007	BRFT6184724Z	R: CARBON AXIAL LEAD(TAPE)	4.7K 1/6W J	R063	BRFT614734Z	R: CARBON AXIAL LEAD(TAPE)	47K 1/6W J
R008	BRFT611014Z	R: CARBON AXIAL LEAD(TAPE)	100 1/6W J	R064	BRFT613324Z	R: CARBON AXIAL LEAD(TAPE)	3.3K 1/6W J
R009	BRFT613324Z	R: CARBON AXIAL LEAD(TAPE)	3.3K 1/6W J	R065	BRUB612224Z	RESISTOR: CARBON FORMED VERT	2.2K 1/6W J
R010	BRFT613314Z	R: CARBON AXIAL LEAD(TAPE)	330 1/6W J	R066	BRFT611034Z	R: CARBON AXIAL LEAD(TAPE)	10K 1/6W J
R011	BRFT611034Z	R: CARBON AXIAL LEAD(TAPE)	10K 1/6W J	R067	BRFT611024Z	R: CARBON AXIAL LEAD(TAPE)	1K 1/6W J
R012	BRFT618214Z	R: CARBON AXIAL LEAD(TAPE)	820 1/6W J	R068	BRFT611034Z	R: CARBON AXIAL LEAD(TAPE)	10K 1/6W J
R013	BRFT616814Z	R: CARBON AXIAL LEAD(TAPE)	680 1/6W J	R069	BRFT611024Z	R: CARBON AXIAL LEAD(TAPE)	1K 1/6W J
R014	BRFT618224Z	R: CARBON AXIAL LEAD(TAPE)	8.2K 1/6W J	R070	DRFT613924Z	R: CARBON AXIAL LEAD(TAPE)	3.9K 1/6W J
R015	BRFT612234Z	R: CARBON AXIAL LEAD(TAPE)	22K 1/6W J	R071	BRFT612224Z	R: CARBON AXIAL LEAD(TAPE)	2.2K 1/6W J
R016	BRFT611024Z	R: CARBON AXIAL LEAD(TAPE)	1K 1/6W J	R072	BRFT611024Z	R: CARBON AXIAL LEAD(TAPE)	1K 1/6W J
R018	BRFT615624Z	R: CARBON AXIAL LEAD(TAPE)	5.6K 1/6W J	R073	BRFT613314Z	R: CARBON AXIAL LEAD(TAPE)	330 1/6W J
R019	BRFT611024Z	R: CARBON AXIAL LEAD(TAPE)	1K 1/6W J	R074	BRFT611514Z	R: CARBON AXIAL LEAD(TAPE)	150 1/6W J
R020	BRFT615624Z	R: CARBON AXIAL LEAD(TAPE)	5.6K 1/6W J	R075	BRFT611014Z	R: CARBON AXIAL LEAD(TAPE)	100 1/6W J
R021	BRFT611224Z	R: CARBON AXIAL LEAD(TAPE)	1.2K 1/6W J	R076	BRFT611544Z	R: CARBON AXIAL LEAD(TAPE)	150K 1/6W J
R022	BRFD182234Z	RESISTOR: CARBON MELF CHIP	22K 1/8W J	R077	BRFT612744Z	R: CARBON AXIAL LEAD(TAPE)	270K 1/6W J
R023	BRFT616814Z	R: CARBON AXIAL LEAD(TAPE)	680 1/6W J	R078	BRFT611554Z	R: CARBON AXIAL LEAD(TAPE)	1.5M 1/6W J
R024	BRUB612224Z	RESISTOR: CARBON FORMED VERT	2.2K 1/6W J	R079	BRUB618224Z	RESISTOR: CARBON FORMED VERT	8.2K 1/6W J
R026	BRFT614734Z	R: CARBON AXIAL LEAD(TAPE)	47K 1/6W J	R080	BRUB611044Z	RESISTOR: CARBON FORMED VERT	100K 1/6W J
R027	BRFT611014Z	R: CARBON AXIAL LEAD(TAPE)	100 1/6W J	R081	BRFT614734Z	R: CARBON AXIAL LEAD(TAPE)	47K 1/6W J
R028	BRFT612714Z	R: CARBON AXIAL LEAD(TAPE)	270 1/6W J	R082	BRUB611034Z	RESISTOR: CARBON FORMED VERT	10K 1/6W J
R029	BRFT611514Z	R: CARBON AXIAL LEAD(TAPE)	150 1/6W J	R084	BRFT611034Z	R: CARBON AXIAL LEAD(TAPE)	10K 1/6W J
R030	BRFT611034Z	R: CARBON AXIAL LEAD(TAPE)	10K 1/6W J	R085	BRFT614744Z	R: CARBON AXIAL LEAD(TAPE)	470K 1/6W J
R031	BRUB616804Z	RESISTOR: CARBON FORMED VERT	68 1/6W J	R086	BRFT611014Z	R: CARBON AXIAL LEAD(TAPE)	100 1/6W J
R032	BRFT612224Z	R: CARBON AXIAL LEAD(TAPE)	2.2K 1/6W J	R087	BRUB611034Z	RESISTOR: CARBON FORMED VERT	10K 1/6W J
R033	BRFT613324Z	R: CARBON AXIAL LEAD(TAPE)	3.3K 1/6W J	R088	BRFT612734Z	R: CARBON AXIAL LEAD(TAPE)	27K 1/6W J
R034	BRUB611524Z	RESISTOR: CARBON FORMED VERT	1.5K 1/6W J	R089	BRFT614734Z	R: CARBON AXIAL LEAD(TAPE)	47K 1/6W J
R035	BRFT611044Z	R: CARBON AXIAL LEAD(TAPE)	100K 1/6W J	R090	BRFT612734Z	R: CARBON AXIAL LEAD(TAPE)	27K 1/6W J
R036	BRUB611044Z	RESISTOR: CARBON FORMED VERT	100K 1/6W J	R091	BRUB614734Z	RESISTOR: CARBON FORMED VERT	47K 1/6W J
R038	BRFT611044Z	R: CARBON AXIAL LEAD(TAPE)	100K 1/6W J	R092	BRUB615604Z	RESISTOR: CARBON FORMED VERT	56 1/6W J
R039	BRUB616814Z	RESISTOR: CARBON FORMED VERT	680 1/6W J	R093	BRFT612224Z	R: CARBON AXIAL LEAD(TAPE)	2.2K 1/6W J
R040	BRFT611014Z	R: CARBON AXIAL LEAD(TAPE)	100 1/6W J	R094	BRUB614724Z	RESISTOR: CARBON FORMED VERT	4.7K 1/6W J
R041	BRFT613334Z	R: CARBON AXIAL LEAD(TAPE)	33K 1/6W J	R096	BRUB612754Z	RESISTOR: CARBON FORMED VERT	2.7M 1/6W J
R042	BRFT618234Z	R: CARBON AXIAL LEAD(TAPE)	82K 1/6W J	R097	BRUB613324Z	RESISTOR: CARBON FORMED VERT	3.3K 1/6W J
R043	BRFT613934Z	R: CARBON AXIAL LEAD(TAPE)	39K 1/6W J	R098	BRUB614724Z	RESISTOR: CARBON FORMED VERT	4.7K 1/6W J
R044	BRFT618244Z	R: CARBON AXIAL LEAD(TAPE)	820K 1/6W J	R099			
R045	BRFT612224Z	R: CARBON AXIAL LEAD(TAPE)	2.2K 1/6W J	R100	BRFT613324Z	R: CARBON AXIAL LEAD(TAPE)	3.3K 1/6W J
R046	BRFT611544Z	R: CARBON AXIAL LEAD(TAPE)	150K 1/6W J	R101	BRUB612244Z	RESISTOR: CARBON FORMED VERT	220K 1/6W J
R047	BRFT611024Z	R: CARBON AXIAL LEAD(TAPE)	1K 1/6W J	R102	BRFT611524Z	R: CARBON AXIAL LEAD(TAPE)	1.5K 1/6W J
R048	BRFT611034Z	R: CARBON AXIAL LEAD(TAPE)	10K 1/6W J	R103	BRFT614734Z	R: CARBON AXIAL LEAD(TAPE)	47K 1/6W J
R049	BRUB611524Z	RESISTOR: CARBON FORMED VERT	1.5K 1/6W J	R104	BRUB614744Z	RESISTOR: CARBON FORMED VERT	470K 1/6W J
R050	BRFT612744Z	R: CARBON AXIAL LEAD(TAPE)	270K 1/6W J	R105	BRUB614714Z	RESISTOR: CARBON FORMED VERT	470 1/6W J
R051				R106	BRUB615624Z	RESISTOR: CARBON FORMED VERT	5.6K 1/6W J
R052	BRFT611044Z	R: CARBON AXIAL LEAD(TAPE)	100K 1/6W J	R107	BRUB612234Z	RESISTOR: CARBON FORMED VERT	22K 1/6W J
R053	BRFT611034Z	R: CARBON AXIAL LEAD(TAPE)	10K 1/6W J	R108	BRUB614714Z	RESISTOR: CARBON FORMED VERT	470 1/6W J
R054	BRUB611044Z	RESISTOR: CARBON FORMED VERT	100K 1/6W J	R109	BRUB611524Z	RESISTOR: CARBON FORMED VERT	1.5K 1/6W J
R055	BRFT611044Z	R: CARBON AXIAL LEAD(TAPE)	100K 1/6W J	R110	BRFT612224Z	R: CARBON AXIAL LEAD(TAPE)	2.2K 1/6W J
R056	BRUB616834Z	RESISTOR: CARBON FORMED VERT	68K 1/6W J	R111			
R057	BRFT611054Z	R: CARBON AXIAL LEAD(TAPE)	1M 1/6W J	R112	BRFT611024Z	R: CARBON AXIAL LEAD(TAPE)	1K 1/6W J
R058	BRFT616834Z	R: CARBON AXIAL LEAD(TAPE)	68K 1/6W J	R113	BRUB611034Z	RESISTOR: CARBON FORMED VERT	10K 1/6W J
R059	BRUB612244Z	RESISTOR: CARBON FORMED VERT	220K 1/6W J	R114	BRFT612224Z	R: CARBON AXIAL LEAD(TAPE)	2.2K 1/6W J
R060	BRUB612734Z	RESISTOR: CARBON FORMED VERT	27K 1/6W J	R115	BRFT611014Z	R: CARBON AXIAL LEAD(TAPE)	100 1/6W J
R061	BRFT18324Z	R: CARBON AXIAL LEAD(TAPE)	3.3K 1/8W J	R116	BRFT614714Z	R: CARBON AXIAL LEAD(TAPE)	470 1/6W J
R062	BRFT611024Z	R: CARBON AXIAL LEAD(TAPE)	1K 1/6W J	R117	BRFT611834Z	R: CARBON AXIAL LEAD(TAPE)	18K 1/6W J

(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)	(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)
R118	BRFT611524Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R173	BRFT613324Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R119	BRUB611034Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R174	BRFT616834Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R120	BRFT611524Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R175	BRFT613304Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R121	BRUB613324Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R176	BRFT611014Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R122	BRFT613324Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R177	BRFT611524Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R123	BRUB618214Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R178	BRFT614734Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R124	BRFT611024Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R179	BRFT613324Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R125	BRUB611034Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R180	BRFT614704Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R126	BRUB612234Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R181	BRFT611524Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R127	BRUB611524Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R182	BRFT614714Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R128	BRFT611024Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R183	BRUB611024Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07
R129	BRUB611024Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R184	BRFT612224Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R130	BRFT612224Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R185	BRFT611524Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R131	BRFT611034Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R186	BRFT614734Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R132	BRFT614744Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R187	BRFT611034Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R133	BRFT614724Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R188	BRUB611034Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07
R134	BRUB614724Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R189	BRUB614734Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07
R135	BRUB612244Z RESISTOR:CARBON FORMED VERT	1	\$ 0.05	R190	BRUB612244Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07
R136	BRFT611034Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R191	BRUB612244Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R137	BRUB614724Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R192	BRFT613324Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R138	BRUB612234Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R193	BRUB611024Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07
R139	BRFT611034Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R194	BRFT614734Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.03
R140	BRFT615614Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R195	BRFT614734Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.03
R141	BRZY0025001 JUMPER CHIP	1	\$ 0.09	R196	BRUB611034Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07
R142	BRUB611034Z RESISTOR:CARBON FORMED VERT	1	\$ 0.05	R197	BRUB612234Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07
R143	BRFT611094Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R198	BRUB611024Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07
R144	BRFT611044Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R199	BRZY0025001 JUMPER CHIP	1	\$ 0.09
R145	BRFT612214Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R200	BRZY0025001 JUMPER CHIP	1	\$ 0.09
R146	BRFT612234Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R201	BRFD181034Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R147	BRFT615634Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R202	BRFD182214Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R148	BRFT614724Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R203	BRFD183334Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R149	BRFT613324Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R204	BRFD186814Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R150	BRUB611234Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R205	BRFD181014Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R151	BRFT611524Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R206	BRFD184734Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R152	BRFT615614Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R207	BRFD181524Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R153	BRUB613304Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R208	BRFD183314Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R154	BRFT616844Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R209	BRFD186804Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R155	BRFT611034Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R210	BRFT181044Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.03
R156	BRFT613324Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R211	BRZY0025001 JUMPER CHIP	1	\$ 0.09
R157	BRFT611004Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R212	BRFD181034Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R158	BRFT128204Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R213	BRZY0025001 JUMPER CHIP	1	\$ 0.09
R159	BRFT613314Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R214	BRFD181034Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R160	BRUB611024Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R215	BRFD184744Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R161	BRUB614704Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R216	BRFD181034Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R162	BRFT611014Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R217	BRFD181034Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R163	BRFT611504Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R218	BRFD183314Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R164	BRFT611514Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R219	BRFD183314Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R165	BRUB613314Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R220	BRFD181034Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R166	BRFT611524Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.07	R221	BRFD181034Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R167	BRUB611014Z RESISTOR:CARBON FORMED VERT	1	\$ 0.05	R222	BRFC181064Z RESISTOR:CARBON FIXED CHIP	1	\$ 0.09
R168	BRFT611024Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R301	BRFD181064Z RESISTOR:CARBON FIXED CHIP	1	\$ 0.09
R169	BRFT611524Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R302	BRFD188224Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R170	BRUB611024Z RESISTOR:CARBON FORMED VERT	1	\$ 0.05	R303	BRFT611034Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R171	BRFT611014Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R304	BRFD181034Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
R172		1	\$ 0.05	R305	BRFD184724Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
				R306	BRFD181024Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
				R307	BRFD181024Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09
				R308	BRFD181034Z RESISTOR:CARBON MEF CHIP	1	\$ 0.09

(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)	(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)
R309	BRFT183324Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.03	R371	BRFD182224Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R311	BRFD181034Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R372	BRFD181054Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R312		1	\$ 0.09	R374	BRFD181044Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R313	BRFD181534Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R375	BRFD181034Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R314	BRFD181024Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R376		1	\$ 0.09
R315		1	\$ 0.09	R377	BRFD181024Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R316	BRFD181234Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R379	BRFD181044Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R317	BRFT181034Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.03	R381	BRFD181034Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R318	BRFD181014Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R382		1	\$ 0.09
R319		1	\$ 0.09	R383		1	\$ 0.09
R320	BRFD183314Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R384		1	\$ 0.09
R321	BRFT183314Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.03	R385		1	\$ 0.09
R322	BRFD181024Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R387	BRFD181024Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R323	BRFT611024Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.03	R391	BRFD182744Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R324	BRFD184704Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R392	BRFD184724Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R325	BRFD182224Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R393	BRFD184714Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R326	BRFD181024Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R394	BRFD186814Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R327	BRFD188214Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R395	BRFD186824Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R328	BRUB184714Z RESISTOR:CARBON FORMED VERT	1	\$ 0.07	R402	BRFD181234Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R329	BRFD184704Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R403	BRFD182234Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R331	BRFD181024Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R404	BRFD181024Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R332		1	\$ 0.09	R405		1	\$ 0.09
R333	BRFD181034Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R406	BRFT614714Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05
R334		1	\$ 0.09	R407	BRFD181024Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R335	BRFD183324Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R408	BRFD181014Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R336	BRFD181034Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R409	BRFD181004Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R337		1	\$ 0.09	R411	BRFD182224Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R338	BRFD182234Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R412		1	\$ 0.09
R339	BRFD181814Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R413	BRFD184734Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R341		1	\$ 0.09	R414	BRFD186834Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R342	BRFD183324Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R415	BRFD181014Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R343	BRFD182214Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R416	BRFD181034Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R344	BRFD184724Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R451		1	\$ 0.09
R345	BRFD185624Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R457		1	\$ 0.09
R346	BRFD186814Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R459		1	\$ 0.09
R347	BRFT611524Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R461		1	\$ 0.09
R348	BRFD183324Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R462		1	\$ 0.09
R349	BRFD181814Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R463		1	\$ 0.09
R351	BRFD181524Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R464		1	\$ 0.09
R352	BRFD181814Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R465		1	\$ 0.09
R353	BRFD183324Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R466		1	\$ 0.09
R354	BRFT184724Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.03	R478		1	\$ 0.09
R355	BRZV0025001 JUMPER CHIP	1	\$ 0.09	R481		1	\$ 0.09
R356	BRFT611034Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R482	BRFD184724Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09
R357	BRFD181034Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R483		1	\$ 0.09
R358	BRFD184724Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R484		1	\$ 0.09
R359	BRFD181224Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R486		1	\$ 0.09
R360	BRFD186834Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R487		1	\$ 0.09
R361	BRFD181224Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R488		1	\$ 0.09
R362	BRFD181034Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R489		1	\$ 0.09
R363	BRFD181024Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R491		1	\$ 0.09
R364	BRFD185624Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09	R492		1	\$ 0.09
R365	BRFT6113934Z R:CARBON AXIAL LEAD(TAPE)	1	\$ 0.05	R495		1	\$ 0.09
R366	BRFD183324Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09				
R370	BRFD181524Z RESISTOR:CARBON MELF CHIP	1	\$ 0.09				

(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)	(SYMBOL)(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)
JP025	BYYY0052007 JUMPER WIRE	1	\$ 0.03	JP801	BYYY0052002 JUMPER WIRE	1	\$ 0.03
JP026	BYYY0052001 JUMPER WIRE	1	\$ 0.03	JP802	BYYY0052003 JUMPER WIRE	1	\$ 0.03
JP027	BYYY0052005 JUMPER WIRE	1	\$ 0.03	LC501	BOL Y0027001 LIQUID CRYSTAL DISPLAY	1	\$ 24.72
JP028	BYYY0052003 JUMPER WIRE	1	\$ 0.03	MC511	8MKY0388001 MICROPHONE	1	\$ 24.00
JP029	BYYY0052001 JUMPER WIRE	1	\$ 0.03	PL501	BPLY0102001 P.ILOT LAMP	1	\$ 1.99
JP030		1	\$ 0.03	RR301	8HAY0117001 R:ARRAY	1	\$ 2.67
JP031		1	\$ 0.03	RR302	8HAY0096001 R:ARRAY	1	\$ 2.90
JP032	BYYY0052002 JUMPER WIRE	1	\$ 0.03	RR303	8HAY0093001 R:ARRAY	1	\$ 1.73
JP033	BYYY0052003 JUMPER WIRE	1	\$ 0.03	SP551	8SPY0181001 SPEAKER	1	\$ 6.24
JP034	BYYY0052007 JUMPER WIRE	1	\$ 0.03	TP002	BTPY0044001 TERMINAL:CHECK POINT	1	\$ 0.21
JP035	BYYY0052005 JUMPER WIRE	1	\$ 0.03	TP003		1	\$ 0.21
JP036	BYYY0052003 JUMPER WIRE	1	\$ 0.03	TP004		1	\$ 0.21
JP037		1	\$ 0.03	VR101	BRTY0528223 RESISTOR:SEMI-FIXED	1	\$ 1.06
JP038	BYYY0052002 JUMPER WIRE	1	\$ 0.03	VR102	BRTY0528473 RESISTOR:SEMI-FIXED	1	\$ 1.06
JP039		1	\$ 0.03	VR103	BRTY0528103 RESISTOR:SEMI-FIXED	1	\$ 1.06
JP040	BYYY0052001 JUMPER WIRE	1	\$ 0.03	VR104		1	\$ 1.06
JP041	BYYY0052007 JUMPER WIRE	1	\$ 0.03	VR105		1	\$ 1.06
JP042	BYYY0052001 JUMPER WIRE	1	\$ 0.03	VR106		1	\$ 1.06
JP043	BYYY0052002 JUMPER WIRE	1	\$ 0.03	VR107		1	\$ 1.06
JP044	BYYY0052003 JUMPER WIRE	1	\$ 0.03	VR111	BRTY0528103 RESISTOR:SEMI-FIXED	1	\$ 1.06
JP046	BYYY0052001 JUMPER WIRE	1	\$ 0.03	VR112	BRTY0182103 RESISTOR:SEMI-FIXED	1	\$ 1.01
JP047		1	\$ 0.03	VR113	BRTY0182102 RESISTOR:SEMI-FIXED	1	\$ 1.01
JP048		1	\$ 0.03	VR114	BRTY0528102 RESISTOR:SEMI-FIXED	1	\$ 1.06
JP049	BYYY0052003 JUMPER WIRE	1	\$ 0.03	VR115	BRTY0528103 RESISTOR:SEMI-FIXED	1	\$ 1.06
JP050	BYYY0052001 JUMPER WIRE	1	\$ 0.03	VR116		1	\$ 1.06
JP051		1	\$ 0.03	VR117	BRTY0528473 RESISTOR:SEMI-FIXED	1	\$ 1.06
JP052		1	\$ 0.03	VR302	BRTY0528101 RESISTOR:SEMI-FIXED	1	\$ 1.06
JP053		1	\$ 0.03	VR303		1	\$ 1.06
JP054	BYYY0052003 JUMPER WIRE	1	\$ 0.03	VR601	BRYV0672001 RESISTOR:VARIABLE	1	\$ 5.27
JP055	BYYY0052004 JUMPER WIRE	1	\$ 0.03	VR701	BRYV0677001 RESISTOR:VARIABLE	1	\$ 5.27
JP056		1	\$ 0.03	VR702	BRYV0678001 RESISTOR:VARIABLE	1	\$ 5.27
JP057		1	\$ 0.03	VR801	BRYV0652001 RESISTOR:VARIABLE	1	\$ 5.27
JP058		1	\$ 0.03	VR802	BRYV0679001 RESISTOR:VARIABLE	1	\$ 5.27
JP061	BYYY0052002 JUMPER WIRE	1	\$ 0.03	CZDZ071399Z	WIRES ASSEMBLED	1	\$ 9.08
JP063	BYYY0052003 JUMPER WIRE	1	\$ 0.03	CZDZ071398Z	WIRES ASSEMBLED	1	\$ 6.81
JP064	BYYY0052002 JUMPER WIRE	1	\$ 0.03	CZDZ071396Z	WIRES ASSEMBLED	1	\$ 9.08
JP065	BYYY0052001 JUMPER WIRE	1	\$ 0.03	CZDZ071395Z	WIRES ASSEMBLED	1	\$ 6.81
JP066	BYYY0052004 JUMPER WIRE	1	\$ 0.03	CZDZ071394Z	WIRES ASSEMBLED	1	\$ 6.83
JP067	BYYY0052002 JUMPER WIRE	1	\$ 0.03	CZDZ071392Z	WIRES ASSEMBLED	1	\$ 3.40
JP068	BYYY0052001 JUMPER WIRE	1	\$ 0.03	CZDZ071391Z	WIRES ASSEMBLED	1	\$ 20.40
JP069	BYYY0052002 JUMPER WIRE	1	\$ 0.03	CZDZ071389Z	WIRES ASSEMBLED	1	\$ 2.26
JP070	BYYY0052001 JUMPER WIRE	1	\$ 0.03	CZDZ071388Z	WIRES ASSEMBLED	1	\$ 4.54
JP071		1	\$ 0.03	MA015	BWZY0692001 CORD	1	\$ 4.05
JP072	BYYY0052004 JUMPER WIRE	1	\$ 0.03	MA016	BWZY0693001 CORD	1	\$ 4.19
JP073		1	\$ 0.03	MA018	BWZY0727001 CORD	1	\$ 0.07
JP074	BYYY0052001 JUMPER WIRE	1	\$ 0.03	MA019	BWZY0721001 DC CORD	1	\$ 0.07
JP075		1	\$ 0.03	MA021	BWZY071401Z WIRES ASSEMBLED	1	\$ 2.81
JP076	BYYY0052003 JUMPER WIRE	1	\$ 0.03	MA022	BWZY0715001 WIRE ASSEMBLED	1	\$ 0.65
JP077	BYYY0052001 JUMPER WIRE	1	\$ 0.03	MA023	BWZY0716001 WIRE ASSEMBLED	1	\$ 0.65
JP079		1	\$ 0.03	MA024	BWZY0725001 WIRES-ASSEMBLED	1	\$ 8.91
JP401	BYYY0052002 JUMPER WIRE	1	\$ 0.03	MA024	BWZY0726001 WIRES-ASSEMBLED	1	\$ 8.91
JP601		1	\$ 0.03	CZDZ071422Z	WIRE ASSEMBLY	1	\$ 0.65
JP602		1	\$ 0.03	Y1101	BYDY0010003 INSULATION SHEET	1	\$ 0.28
JP603	BYYY0052001 JUMPER WIRE	1	\$ 0.03	Y1102	BYDY0010003 INSULATION SHEET	1	\$ 0.28
		1	\$ 0.03	Y1103	BYDY0172001 BUSHING:TIGHT CERAMIC	1	\$ 0.28

(SYMBOL),(PARTS CODE)	(DESCRIPTION)	(QTY)	(LIST PRICE)
YM501	BYYY0047001 WIRE CLAMPER	1	\$ 0.09
YM502		1	\$ 0.09
YM503		1	\$ 0.09
YM504		1	\$ 0.09
YM505		1	\$ 0.09
YM506		1	\$ 0.09
YM507		1	\$ 0.09
YM508		1	\$ 0.09
YM509		1	\$ 0.09
YM510		1	\$ 0.09
FCR221155Z	CHASSIS:REAR		
GCM2420938Z	PLATE:DISPLAY		
GHDZ320936Z	HOLDER:LCD		
GMSC480407Z	SCREW: MOUNTING		
GNBP420940Z	BUTTON: CHANNEL		
GNBP421146Z	KNOB: PUSH		
GNBP421147Z	KNOB: PUSH		
HBCT380105A	MOUNTING BRACKET		
HCMB221190A	CASE: BOTTOM		
HCMZ221191Z	CASE: TOP		
HCS321192B	CHASSIS: SIDE		
HMSK418834B	HEAT SINK		
HHG402919Z	HANGER: MICROPHONE		
HSOP418267Z	SHIELD PLATE		
HSOP421141Z	FRAME: LCD		
HSOP421142Z	SHIELD PLATE		
HSOP421143Z	PLATE: ESD (R)		
HSOP421144Z	PLATE: ESD (L)		
HMSR480823Z	WASHER: ANT		
PLBC482147Z	LABEL: WARNING, DC CORD		
RETC421189Z	PLATE: LCD		
RUTC403865Z	WOOL-COATED PAPER: WOOL TACK		
RZEB418268Z	INSULATION PLATE		
TSTD0150007	TERMINAL: LUG SOLDER		
TSTD0200003	SPRING PLATE: KNOB		
VNYL1114000	VINYL BAG		
VNYL1122800	VINYL BAG		
VNYL2465270	VINYL BAG		
VNYL3101200	VINYL BAG		
VNYL3324500	VINYL BAG		
WSFC121185Z	STYROFOAM PAD (R)		
WSFC221184A	STYROFOAM PAD (F)		
WSL V421401Z	SPACER		
	SMR-2510 SERVICE MANUAL		
	ADC-12-PAINT BLACK	1	\$ 4.05
	PMMA,SILK	1	\$ 5.62
	ABS, WHITE	1	\$ 0.54
	ABS, BLACK	4	\$ 0.54
	ABS, SATIN CR	2	\$ 0.48
	ABS, DARK GRAY	5	\$ 0.33
	ABS, NEUTRAL GRAY	6	\$ 0.33
	SPCC 1.6T PAINT DARK GRAY	1	\$ 6.01
	VINYTOP, SB-K08, 1.0T, BLACK	1	\$ 6.53
	VINYTOP, SB-K08, 1.0T, BLACK	1	\$ 4.05
	SECC, 1.0T, NON OIL	2	\$ 0.12
	C5191R, 0.5T	1	\$ 0.09
	SPCC, 1.0T, NI	1	\$ 0.10
	SPTC 0.3T, NON OIL	1	\$ 0.33
	SPTC, 0.3T, NON OIL	1	\$ 0.33
	SPTC, 0.3T, NON OIL	1	\$ 0.33
	SPTC, 0.3T, NON OIL	1	\$ 0.33
	SPTC, 0.3T, NON OIL	1	\$ 0.33
	SPCC 0.5T NI	1	\$ 0.03
	PAPER, PRINT	1	\$ 0.15
	YUPO PAPER, 0.15T	1	\$ 0.09
	WOOL PAPER, 10*150*0.3T	4	\$ 0.03
	PVC 0.25T	2	\$ 0.24
	D3-2X14	2	\$ 0.07
	D6-02ZL9.53	7	\$ 0.44
	110X400X0.05T	1	\$ 0.60
	120X280X0.05T	1	\$ 0.11
	460X520X700X0.07T	0.166\$	1.6066
	100X120X0.1T	1	\$ 0.60
	320X450X0.1T	1	\$ 0.50
	**	1	\$ 1.20
	**	1	\$ 1.36
	**	1	\$ 0.26

6. IC VOLTAGE CHART

TRANSISTOR

UNIT : V

REF. NO	Tx Rx	Future	AM			FM			SSB(U/L)			CW		
			E	C	B	E	C	B	E	C	B	E	C	B
Q101	RX	RF GAIN ON/OFF	1.7 2.5	6.6 7.0	2.4 2.7									
Q102	RX		3.2	7.2	0									
Q103	Tx Rx		0 0.7	0.1 3.0	0 0.7									
Q104	TX RX		2.8 0.7	8.0 5.8	2.2 1.3									
Q105	TX RX		0 2.3	0.1 6.5	0.1 3.0									
Q106	TX RX													
Q107	TX RX		0 1.6	0 6.5	0 2.3									
Q108	TX RX		0 0	0 0	0.7 0.7				0 0	0 0.5	0 0			
Q109	TX RX	SQ ON/OFF	0.6 1.1 1.6	5.0 7.8 5.0	1.0 1.3 1.1									
Q118	TX RX		0 0	7.8 8.1	0 0.46									
Q111	TX RX		0 0	0 0	0 0				0 0	0 0	0.7 0.7			
Q114	TX RX		0 0	0 0	0 0.7				0 0	0 0	0 0.7			
Q115	TX RX		0 0	0.7 0	0.1 0									
Q116	TX RX		0.3 0.4	2.8 3.0	0.6 0.7									
Q138	TX RX		8.0 8.0	0 0	7.5 7.5				8.0 8.0	0 0	7.5 7.5			
Q123		PA·PTT ON/OFF	1.2/ 1.7	6.0/ 7.0	0.8/ 1.0									
Q126	TX RX		7.4 7.4	0 0	0 0							0.3 6.5	3.4 8.0	0.9 4.6
Q117	TX RX	SQ ON/OFF	0 %	0 %	0.6 0.6%									
Q135	TX RX		0.6 0.6	3.0 3.0	0.6 0.6									
Q128	TX RX											0.5 3.5	0.5 4.8	1.1 3.6
Q125	TX RX		7.3 7.4	7.8 0	8.0 8.0									

TRANSISTOR

UNIT : V

REF. NO	Tx Rx	Future	AM			FM			SSB(U/L)			CW		
			E	C	B	E	C	B	E	C	B	E	C	B
Q127	TX RX		0.1 7.2	8.1 8.0	0 7.7									
Q136	TX RX		0 0	0 8.0	0.7 0									
Q129	TX RX		0 0	0 0	0 0	0 0	0 0	0.7 0.7	0 0	0 0	0.7 0.7			
Q134	TX RX		2.9 0	4.3 0.1	2.2 0									
Q124	TX RX		0.6 0	7.8 0	1.3 0									
Q133	TX RX		0 0	12.3 13.0	0.7 0.1									
Q132	TX RX		0 0	11.5 13.0	0.4 0									
Q131	TX RX		0 0	0 0	0 0							0 0	0 0	0.6 0.6
Q112	TX RX		0 0	0 0	0.3 0.3							0 0	0 0	0.7 0.7
Q113	TX RX		0 0	0 0	0.3 0.3							0 0	0 2.5	0.5 0
Q119	TX RX		4.6 4.8	6.5 6.5	0.1 0							4.5 5.1	6.6 7.5	0.8 0
Q121	TX RX		7.2 0	7.5 7.5	1.2 0	7.8 0	7.5 7.5	1.2 0	7.8 0	7.5 7.5	1.2 0			
Q120	TX RX		7.8 0	7.3 0	7.2 7.2	7.8 0	7.8 0	7.2 0	7.8 0	7.8 0	7.2 0			
Q106	TX RX		2.6 0	6.8 0	3.2 0				2.5 2.1	6.8 5.7	3.2 2.7	2.5 2.5	6.6 6.5	3.0 3.0
Q122	TX RX		0 0	0 0	0.2 0.2							0 0	7.2 0	0.2 0.7
Q201	RX	NB ON							0.9	7.0	1.5			
Q202	RX	NB ON							0	2.3	0.7			
Q203	RX	NB ON							1.5	6.9	2.7			
Q204	RX	NB ON							0.9	7.2	0			
Q205	RX	NB ON							0	4.2	0			
Q206	RX	NB ON							6.5	0	4.4			
Q207	RX	NB ON							0	0	0			
Q401	RX	NB ON				2.0	5.8	2.6						

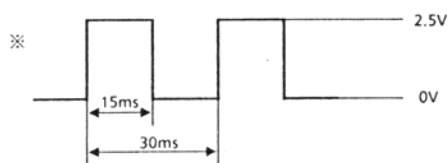
IC

UNIT : V

	IC101 NJM2902N		IC103 FDA1905	IC104 NJM4558S		IC105 AN612		IC106 TA7320P		IC107 HA17808W
		SQ			Tx		Tx		Tx	
1	0		6.8	7.6	7.2	3.0	3.0	0	6.2	13.2
2	0		13.2	4.1	4.0	3.2	3.2	0	3.3	0
3	0		12.0	2.7	2.6	3.2	3.2	0	2.7	8.0
4	8.0		4.0	4.1	4.0	0	0	0	7.6	
5	0		0.0	0	0	6.0	5.8	0	0	
6	0		2.4	3.5	3.3	7.4	7.3	0	2.7	
7	0		2.0	7.1	2.3	6.4	4.0	0	4.2	
8	0	6.8	1.5	1.3	5.7			0	4.2	
9	1.7			7.6	7.2			0	7.5	
10	1.7	6.8								
11	0									
12	0									
13	0									
14	0									

IC	UNIT : V					
	IC301	IC302	IC303	IC304	IC305	IC306
1	5.0	2.5	0	0	0	8.0
2	0	2.1	0	5.2	8.0	6.0
3	5.0	5.0	0	8.0	8.0	4.0
4	5.0	5.0	1.6	0	0	4.0
5	5.0	0	1.6	8.0	8.0	0
6	0	2.4	5.0	0	0	4.0
7	0	0	2.9	2.8	2.8	4.0
8	5.0	0	0.7	2.8	2.8	2.8~6.0
9	1.7	0		0	0	8.0
10	0			0.6	0.6	
11	0			1.3	1.3	
12	0			0.6	0.6	
13	4.0			1.3	1.3	
14	0			0	0	
15	2.5					
16	2.4					
17	2.0					
18	0					
19						
20						
21						
22						

IC	UNIT : V					
	IC307	IC311	IC312	IC314	IC316	IC501
1	8.0	13.8	13.8	5.0	5.0	*
2	7.4	0	0.6	2.0	0	*
3	1.0	8.0	5.6	0	5.0	*
4	1.0			1.2	0	*
5	0			5.0	5.0	*
6	4.2~4.9				5.0	*
7	4.2~4.9				0	*
8	2.5~4.9				0	*
9	8.0				0	*
10					5.0	*
11					5.0	*
12					0	*
13					5.0	*
14					5.0	*
15						3.5
16						1.0
17						4.2
18						4.3
19						0.7
20						0
21						0
22						0







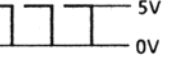
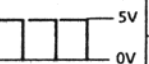
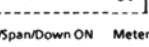
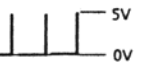
TRANSISTOR

UNIT : V


	E (S)	C (D)	B (G)	REMARKS
Q301	2.5	8.0	0.9	
Q302	2.5	7.8	4.0	
Q303	4.0	8.0	4.6	
Q304	2.9	8.0	3.5	
Q305	0.2	7.7	0	
Q306	0.3	3.9	0	
Q307	0.2	3.8	0	
Q308	4.0	5.3	4.5	
Q311	0 0	0 0	0 0.5	Rx / Tx Meter RF Tx other
Q312	0 0	0 0	0 0.5	Tx Meter MOD Rx / Tx other
Q313	0 0	0 0	0 0.5	Tx Meter CAL Rx / Tx other
Q314	0 0	0 0	0 0.5	Tx Meter SWR Rx / Tx other
Q315	0 0	7.3 0.7	0 0.7	Rx Tx
Q316	0	0.5	0	
Q317	5.0	0	5.0	

IC

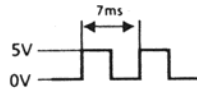
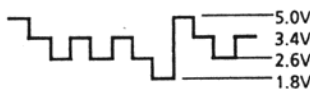
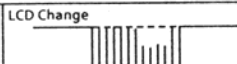

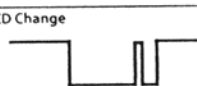
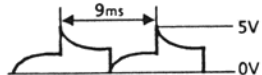
UNIT : V

IC315				Voltage		
Pin No.	Voltage		Pin No.	Voltage		
1	5	LCD Change 	17	5		
			18	0		
			19	5		
2	0	LCD Change 	20	0		
			21	0		
3	5	LCD Change 	22	5	(F.Knob)	
			23	0	(F.Knob)	
			24	5		
4	0	LCD Change 	25	5	(USB)	
			26	5	(LSB)	
			27	5	(CW)	
5	5		28	0	5V pulse (Freq. & TxRx Change)	
6	5	0 (Tx Meter RF)	0 (Rx)	29	0	5V pulse (Freq. & TxRx Change)
7	5	0 (Tx Meter MOD)	5 (Rx)	30	0	5V pulse (Freq. & TxRx Change)
8	5	0 (Tx Meter CAL)	5 (Rx)	31	0	5V pulse (Freq. & TxRx Change)
9	5	0 (Tx Meter SWR)	5 (Rx)	32	5	
10	5	Up/Down/Scan/Meter/Band SW		33		
11	5			34	0	
12	5			35	0	
13	5			36	5	
14	0	Band/Scan/Down ON		5V	Meter/Scan/Up ON	
15	0	Meter/Scan/Up ON		0V	Band/Scan/Down ON	
16	0	Band/Scan/Down ON	Meter/Scan/Up ON		5V 0V	

UNIT : V

IC315										
Pin No.	0* 0.KHz	1*	2*	3*	4*	5*	6*	7*	8*	9*
37	0	0	0	0	5	5	5	5	5	5
38	0	5	5	5	0	0	0	5	5	5
39	5	0	5	5	0	5	5	0	5	5
40	5	0	0	5	5	0	5	0	0	5
41	0	0	0	5	0	0	5	5	0	0
42	0	0	0	0	0	5	0	5	0	5
Pin No.	Voltage				Pin No.	Voltage				
43	0				55	0 (SQ Open)	5 (SQ Close)			
44	0				56	5				
45	5	0	(Push Mic up SW)		57	0				
46	5	0	(Push Mic Down SW)		58	5				
47	5	0	(PA SW OFF PTT ON Tx)		59	5				
48	5	0	(F.LOCK SW ON)		60	5				
49	0	5	(Power ON)		61	0	LCD Change			
50	5									
51	2.5	4 Vp-p (2.00MHz)								
52	2.5	4 Vp-p (2.00MHz)		62	5 (Tx)	0 (Rx)				
53	0				63	(Tx) 5 (CW) 0 (Rx) 5 (SQ) 0				
54	0				64	5				

UNIT : V

IC502						
Pin No.	Voltage			Pin No.	Voltage	
1				11	0	LCD Change
				12	0	LCD Change
2				13	5	LCD Change 5V 0V
3	2.4					
4	2.6			14		
5	1.8					
6	5.0					
7	0			15		
8	5	LCD Change		18		
						
9	0	LCD Change		19~32		
						
10	5	LCD Change		33	5.0	
						
				34~51		
				52		

7. FREQUENCY CHART

FREQUENCIES OF LOCAL OSCILLATORS

$$F_v = F + 10.6950 \text{ (MHz)} + \alpha$$

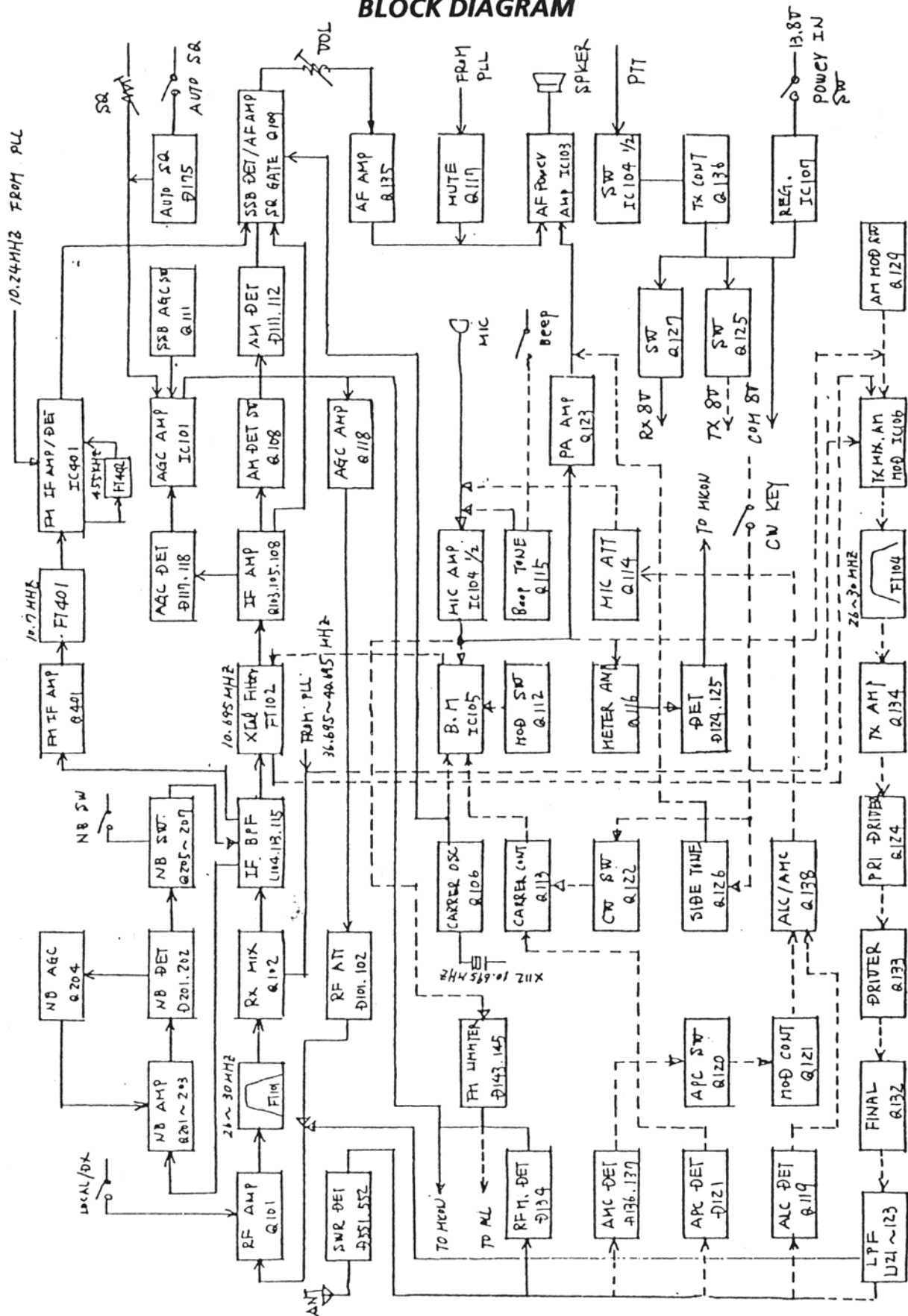
$$\left(\begin{array}{l} F : \text{TRANSMITTING AND RECEIVING FREQUENCY} \\ F_v : \text{VCO OUTPUT FREQUENCY} \\ \alpha \left\{ \begin{array}{ll} 0 & \text{(CW / FM / AM)} \\ +2.5 \text{ kHz} & \text{(USB)} \\ -2.5 \text{ kHz} & \text{(LSB)} \end{array} \right. \end{array} \right)$$

CHANNEL AND FREQUENCY RANGE

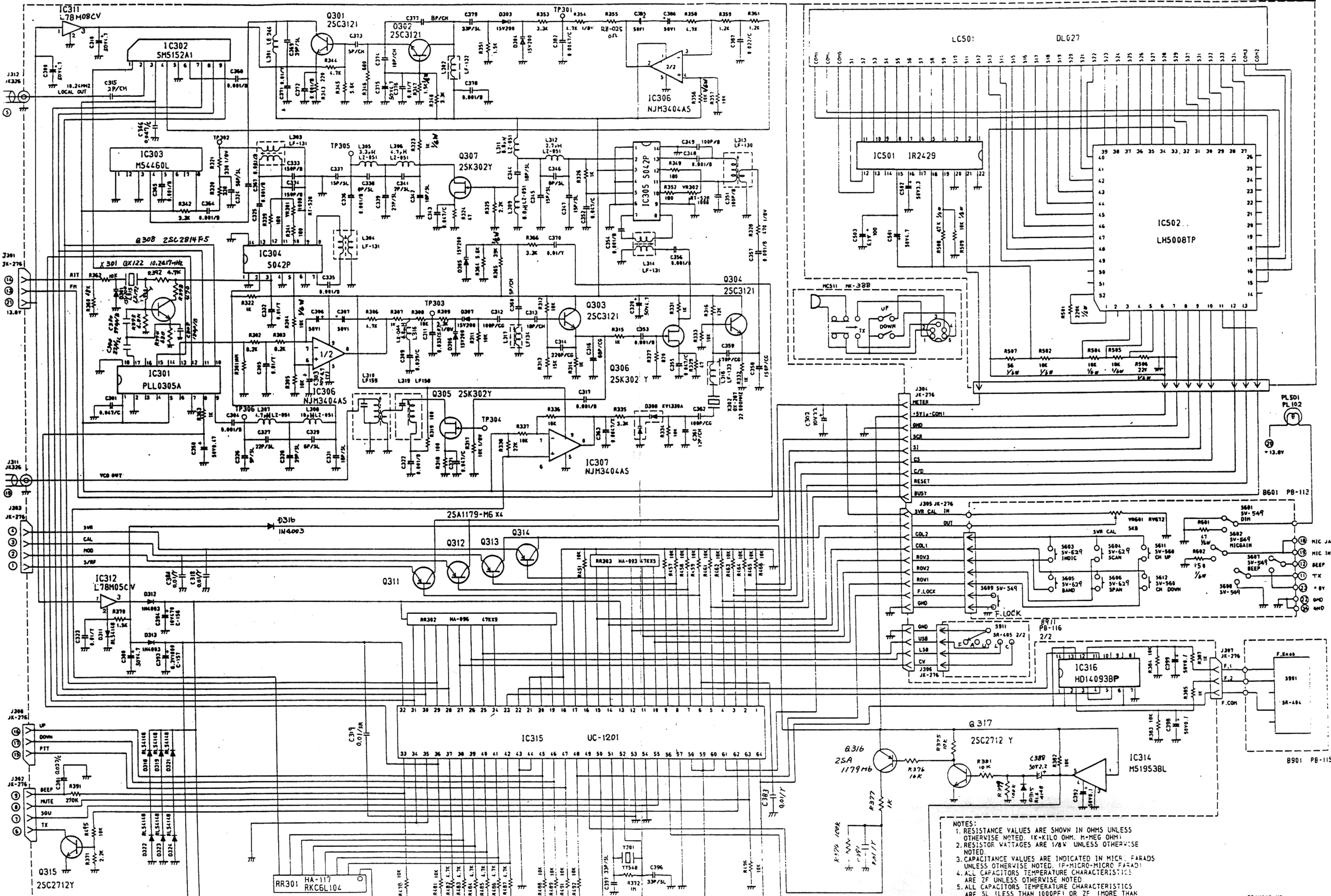
BAND	FREQUENCY RANGE
A	28.0000 ~ 28.4999 MHz
B	28.5000 ~ 28.9999 MHz
C	29.0000 ~ 29.4999 MHz
D	29.5000 ~ 29.6999 MHz

8. TECHNICAL DRAWINGS

BLOCK DIAGRAM



UT-SSD MAIN BL DIAGRAM



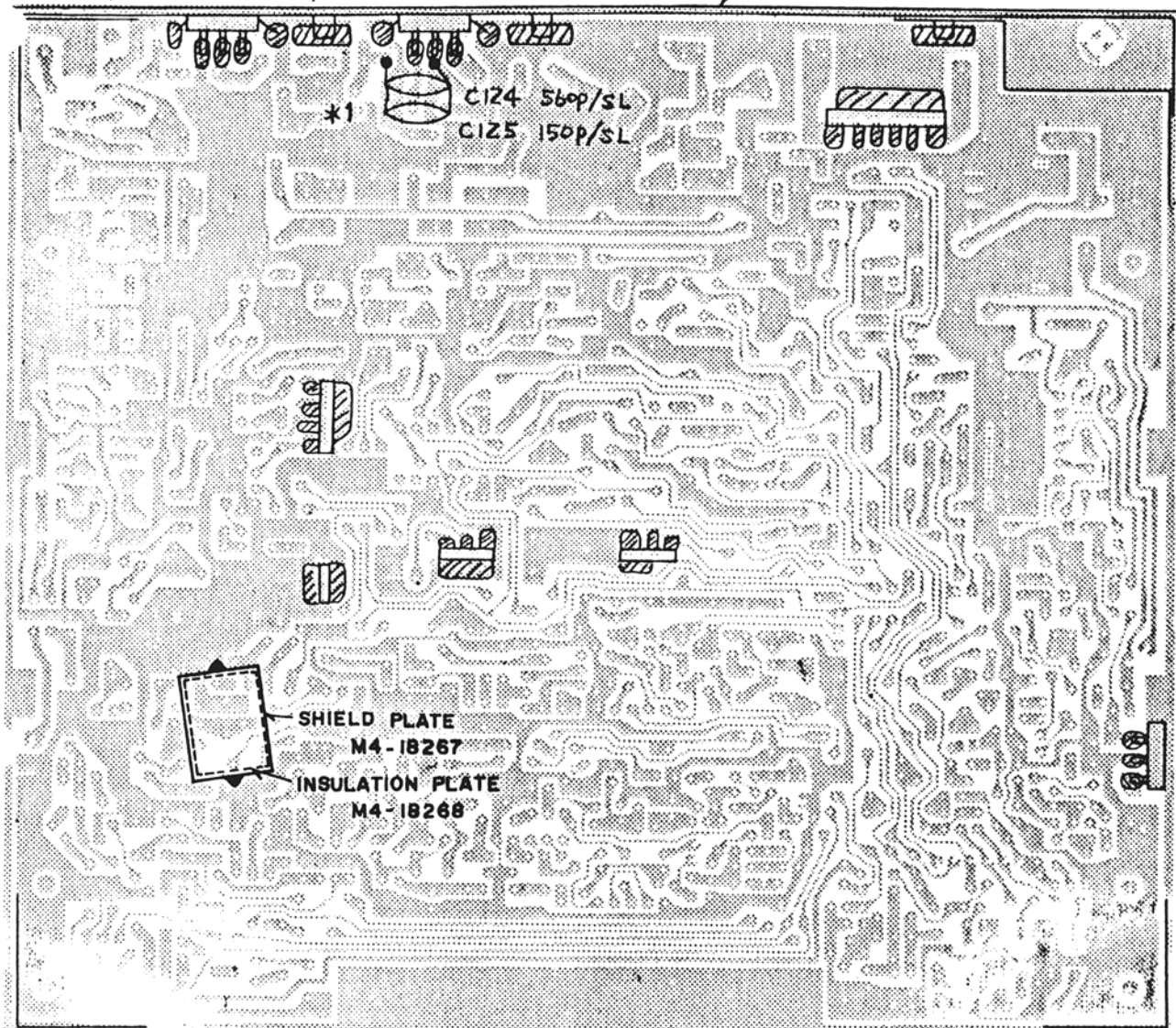
- NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. 1K-KILO OHM, M-MEG OHM
 2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
 3. CAPACITANCE VALUES ARE INDICATED IN MICR. FARADS UNLESS OTHERWISE NOTED. (P-MICRO-MICRO FARAD)
 4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE ZF UNLESS OTHERWISE NOTED.
 5. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL (LESS THAN 1000PF) OR ZF (MORE THAN 1000PF) UNLESS OTHERWISE NOTED.
 6. CHIP PARTS ARE NOT SPECIFIED IN THIS SCHEMATIC DIAGRAM. PLEASE REFER TO THE PARTS LIST FOR THE CHIP PARTS

B101
PB-111
(BOTTOM)

Ø 165
Q133

Ø 164
Q132

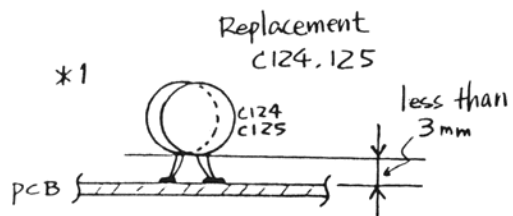
CHASSIS



 : SOLDERING

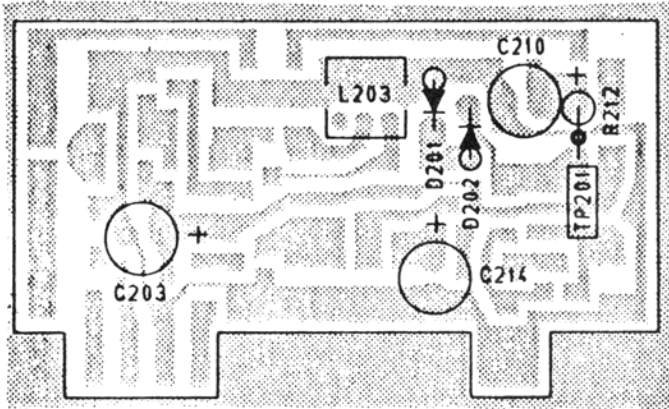
NOTE:

1. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=PICO-MICRO FARAD)



TITLE MAIN PCB	
PARTS ASS'Y (BOTTOM)	
DRAWING NO.	REV. MARK
E24-7566	

B201 PB-117AA (TOP VIEW)



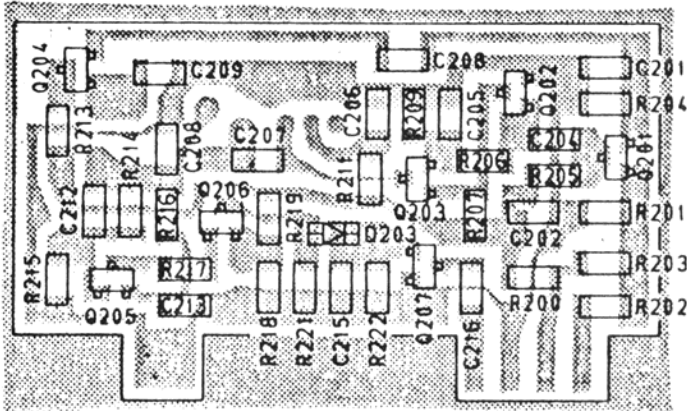
C203	16V10
C210	50V0.47 C-095
C214	16V10

D201	1N60AM
D202	1N60AM

R212	100K

L203	LF125

B201 (BOTTOM VIEW)



R200	RZ025
R201	10K
R202	220
R203	33K
R204	680
R205	100
R206	47K
R207	1.5K
R208	330
R209	330
R211	68
R213	RZ025
R214	10K
R215	10K
R216	470K
R217	10K
R218	3.3K
R219	330
R221	10K
R222	3.3K

C201	0.0047/X
C202	0.047/C
C204	10P/SL
C205	0.047/C
C206	0.0047/X
C207	0.001/B
C208	82P/B
C209	0.01/Y
C212	330P/B
C213	0.001/B
C215	330P/B
C216	0.01/Y

Q201	25C2814F5
Q202	25C2814F5
Q203	25C2814F5
Q204	25C2812L5
Q205	25C2812L5
Q206	25A1179M6
Q207	25C2814F5

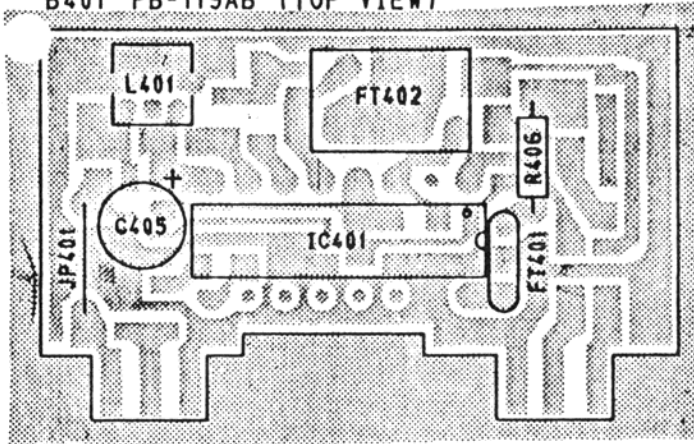
D203	RLS4148

NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM, M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)

TITLE	NB PCB
	PARTS ASSEMBLY
E24-7567	REV. MARK

B401 PB-119AB (TOP VIEW)



L401	LF072

R406	470 1/6W

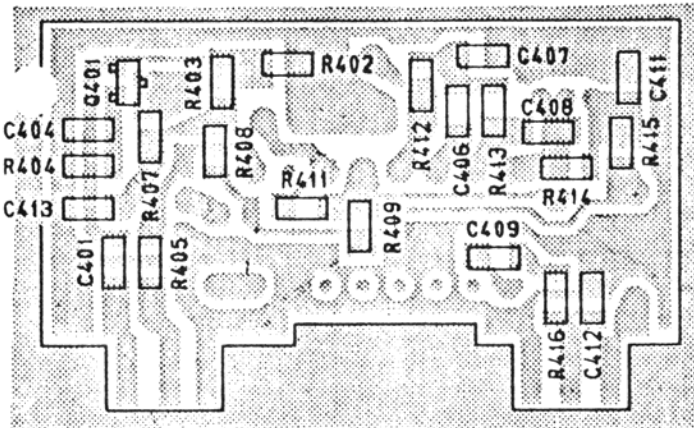
IC401	IR3N06

C405	10V47 C-095

FT401	FL048
FT402	FL066

JP401	7.5

(BOTTOM VIEW)



R402	12K
R403	22K
R404	1K
R405	1K
R407	1K
R408	100
R409	10
R411	2.2K
R412	2.2K
R413	47K
R414	68K
R415	100
R416	10K

C401	0.01/Y
C404	0.0047/X
C406	0.047/C
C407	0.047/C
C408	18P/RH
C409	0.047/C
C411	0.047/C
C412	0.047/C
C413	0.047/C

Q401	2SC2814F5

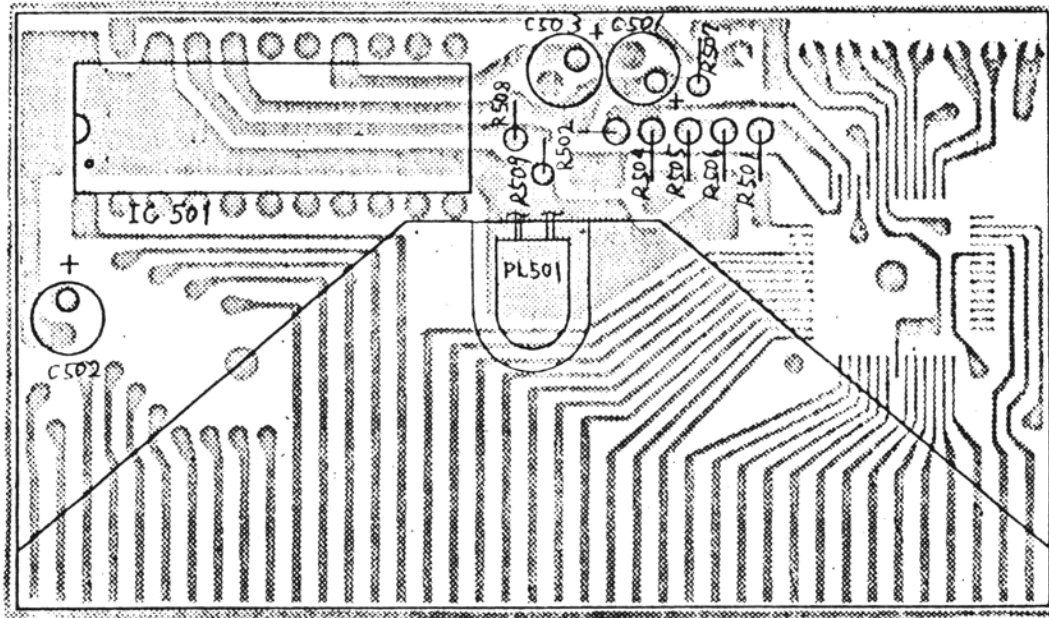
NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. 1K-KILO OHM. M-MEG OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. IP-MICRO-MICRO FARAD)

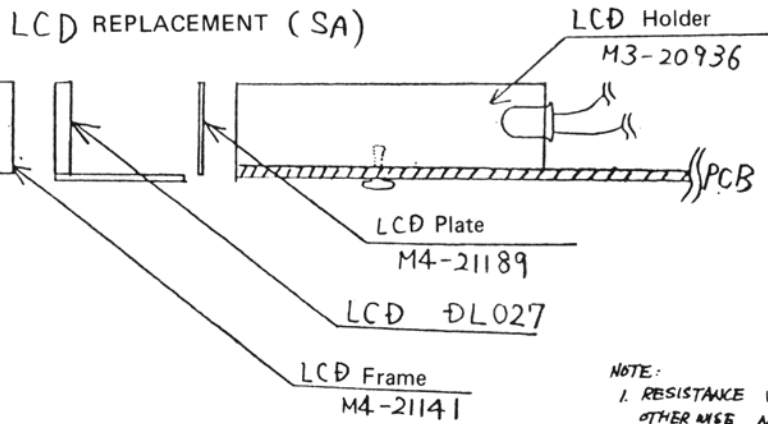
TITLE FM PCB PARTS ASSEMBLY	
E 24-7568	REV. MARK



B50/ PB112AA/LCD



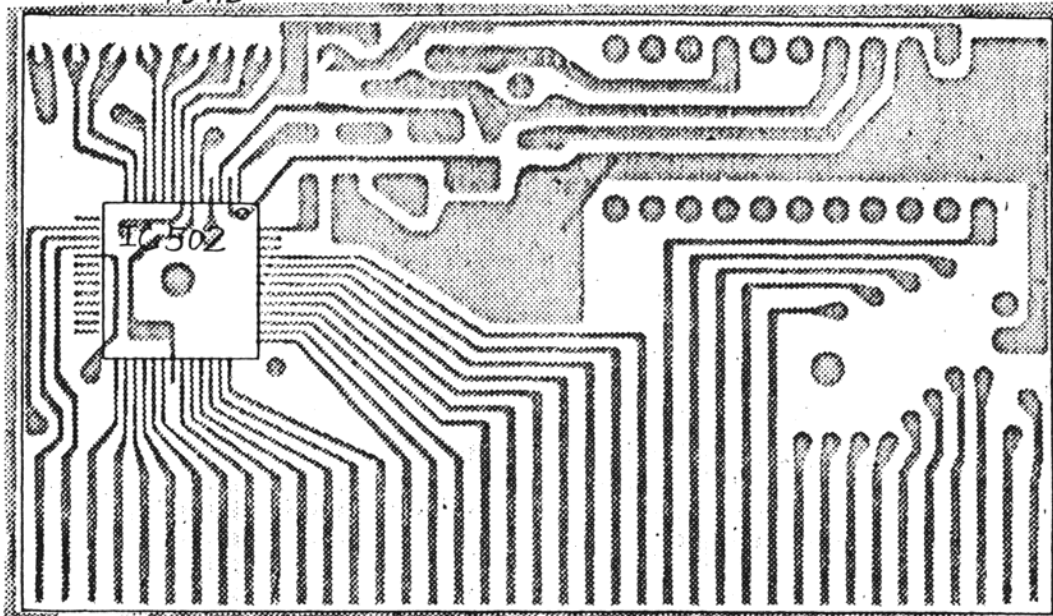
- IC 501 ... IR2429
- R501 ... 220k 1/6w
- 502 ... 10k
- 504 ... 10k
- 505 ... 10k
- 506 ... 22k
- 507 ... 56
- 508 ... 47k
- 509 ... 10k
- C501 ... 50V 4.7
- 502 ... 50V 3.3
- 503 ... 6.3V 100
- C503
- C-156
- PL501 ... PL102



- NOTE:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K= KIL OHM, M= MEG OHM)
 2. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P= MICRO-MICRO FARAD)

TITLE LCD PCB (TOP)	
PARTS ASSEMBLY	
DRAWING NO.	REV. MARK
E24-7569	

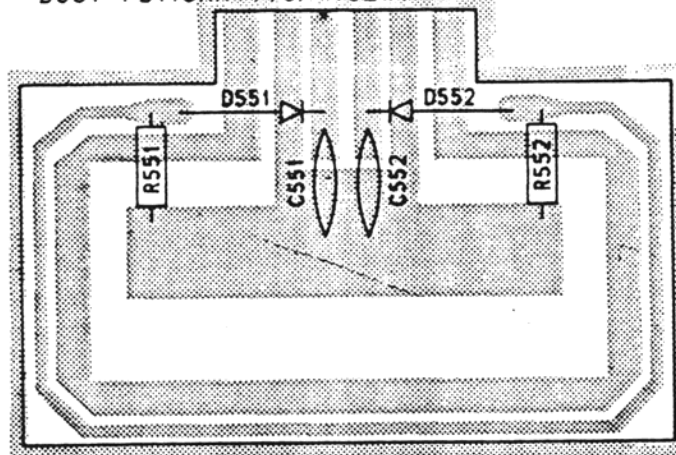
B501 PB112AA



IC 502 LH5008 TP

TITLE	LCD PCB (BOTTOM)	
	PARTS ASSEMBLY	
DRAWING NO.	E24-7570	REV. MARK

B551 PB118AA (TOP VIEW)



R551	220
R552	150
C551	0.01
C552	0.01
D551	1N60P
D552	1N60P

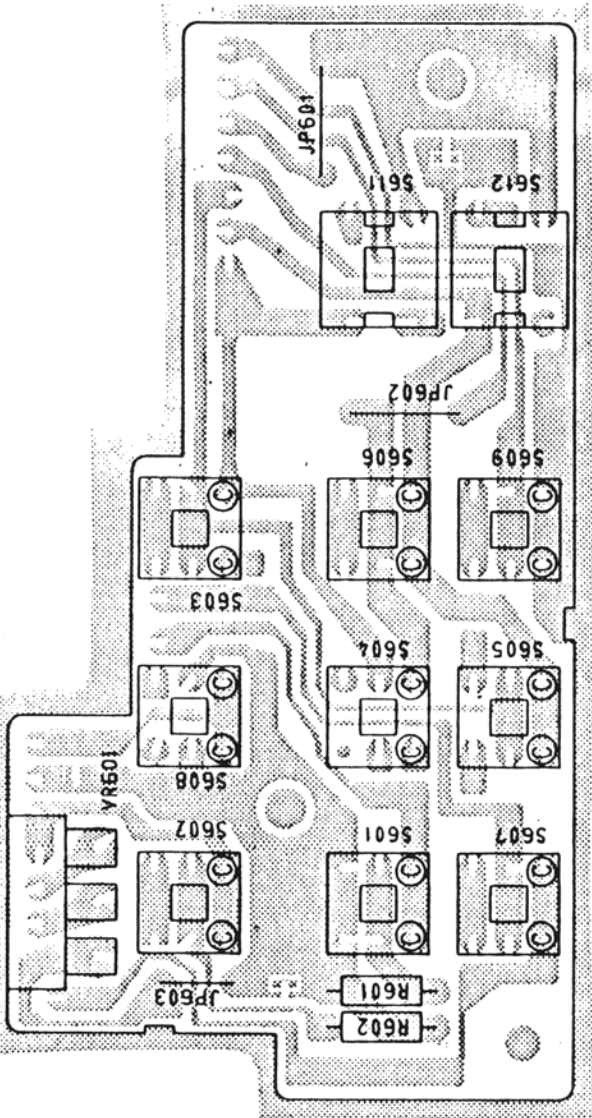
NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM. M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/6W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE YF UNLESS OTHERWISE NOTED.

TITLE	SWR PCB	
	PARTS ASSEMBLY TOP VIEW	
DRAWING NO.	E24-7571	REV. MARK

UT5508/PB113BA::52:1

B601 PB-113BA



S601	SW549
S602	SW549
S603	SW629
S604	SW629
S605	SW629
S606	SW629
S607	SW549
S608	SW549
S609	SW549
S611	SW560
S612	SW560

R601	47 1/6W
R602	150 1/6W

VR601	RV672 5KB

JP601	7.5mm
JP602	7.5mm
JP603	5.0mm

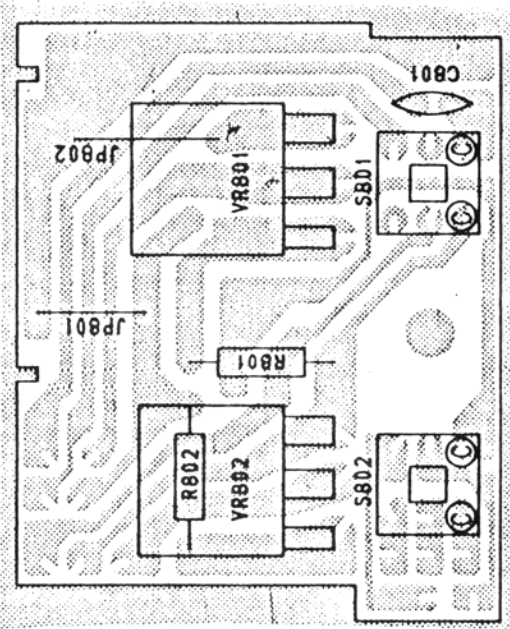
NOTE:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILLOHM, M=MEGA OHM)

TITLE SW PCB	
PARTS ASSEMBLY TOP VIEW	
REV.	MARK
E24-7572	

UT550B/PB120AB::52:1

B 801

PB-120AB



R801	2.2K	S801	SV549
R802	1K	S802	SV549

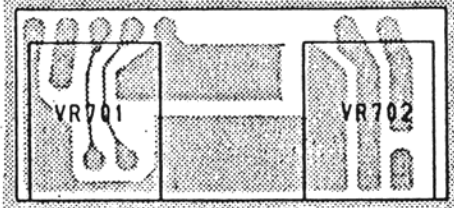
VR801	RV652	1K8	JP801	7.5mm
VR802	RV679	10KB	JP802	10mm

C801	0.022	1SR1

- NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K-KILO OHM, M-MEG OHM)
 2. RESISTOR WATTAGES ARE 1/6W UNLESS OTHERWISE NOTED.
 3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P-MICRO-MICRO FARAD)

TITLE	RIT PCB
PARTS ASSEMBLY TOP VIEW	REV. MARK
E 24-7573	

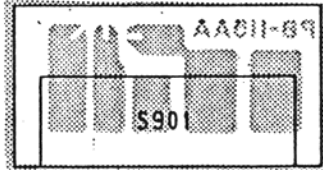
B701 PB-114AB (Vol PCB)



UT550/MIC.SW.CH.VOL:::52:1

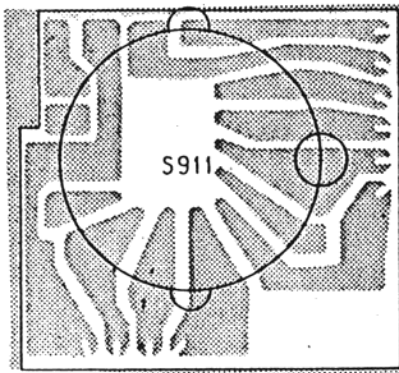
VR701	RV677	50KA
VR702	RV678	50KB

B901 PB-115AA (CH SW PCB)



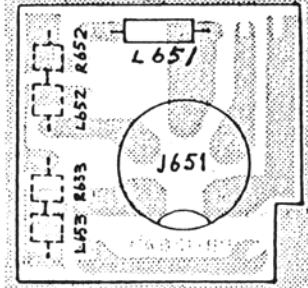
S901	SR404

B911 PB-116AA (MODE SW PCB)



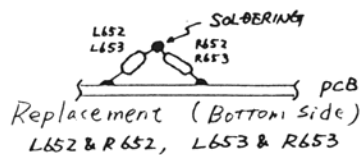
S911	SR405

B651 PB-126AB (MIC JACK PCB)



J651	JK191
L651	LZ051 470μH
L652	LZ051 470μH
L653	LZ051 470μH
R652	1.5K 1/6W
R653	1.5K 1/6W

NOTE:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILD OHM. M=MEG OHM)



TITLE PARTS ASSEMBLY TOP VIEW	
E24-7574	REV. MARK