



Service Manual



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Specifications (Nominal)

Power Source	117V AC/13.8V DC
Size	14 ³ / ₄ " x 13" x 5 ¹ / ₂ "

Receiver Section

Sensitivity (AM/SSB)	0.5/0.25 μ V
Squelch Threshold (AM/SSB)	0.5/0.5 μ V
Squelch Deepest Point	1000 μ V
"S" Meter S-9	100 μ V
Clarifier	\pm 1.25 KHz
Maximum AF Output Power	4.0 W
AF Output Power/10% Distortion	3.0 W
Selectivity BW @ 6 dB Down	\pm 6 KHz
Adjacent Channel Rejection	- 50 dB
Image Rejection	- 75 dB
Speaker Impedance	8 Ohm

Transmitter Section

Modulation (Peak)	100%
Power Output (AM/SSB)	4/12 W
Emission Type AM	6A3
Emission Type SSB	3A3J
Hum and Noise (Better than)	- 60 dB
Frequency Tolerance003%
Antenna Impedance	50 Ohm
Frequency Determining Method	PLL

Public Address

Output Power @ 10% Distortion	3.0 W
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Alignment of P.L.L. Portion (Refer to Fig. 1)

1. Test equipment required
 - a. RF V.T.V.M. or Oscilloscope (0-50MHz)
 - b. DC Voltmeter (10V full scale)
 - c. Frequency Counter (0-50MHz)
 - d. 50 ohm Load

2. Alignment Procedure
(Refer to Fig. 2, Test Setup)

Step	Pre-Set Condition	Connections	Adjustment	Remarks
1.	Channel 40 AM, RX mode Clarifier control in middle position	RF V.T.V.M. to TP10	L18	Adjust L18 for the maximum indication on RF V.T.V.M.
2.	same as step 1	DC Voltmeter to TP9	L13	Adjust L13 to obtain approx. 3.5V on the DC Voltmeter.
3.	Channel 19 USB, RX mode	RF V.T.V.M. to secondary of L14 (TP 1) LOCAL OUT	L14	Adjust L14 for the maximum indication on RF V.T.V.M.
4.	same as step 3	Frequency Counter to secondary of L14 (TP 1)	CT3	Adjust CT3 to obtain 34.9875MHz ± 20Hz indication.
5.	Channel 19 AM, RX mode	same as above	L20	Adjust L20 to obtain 34.9850MHz ± 20Hz indication.
6.	Channel 19 LSB, RX mode	same as above	L19	Adjust L19 to obtain 34.9825MHz ± 20Hz indication.
7.	Channel 19 LSB, TX mode	same as above	VR3	Adjust VR3 to obtain 34.9825MHz ± 20Hz indication.

Alignment of Carrier Oscillator (Refer to Figs. 1 & 2)

1. Test equipment required
 - a. RF V.T.V.M. or Oscilloscope (0-10MHz)
 - b. Frequency Counter (0-10MHz)
 - c. 50 ohm Load

2. Alignment Procedure

Step	Preset Condition	Connections	Adjustment	Remarks
1.	Channel 19 USB, RX mode	Frequency Counter to the Base of TR13 (TP-3)	CT 1	Adjust CT1 to obtain 7.8025MHz + 5Hz, - 0Hz indication.
2.	Change over to LSB mode	same as step 1	CT 2	Adjust CT2 to obtain 7.7975MHz + 0Hz, - 5Hz indication.
3.	Channel 19 AM, TX mode. Disconnect TP7, TP8.	same as step 1	L 17	Adjust L17 to obtain 7.8000MHz \pm 5Hz indication.

Alignment of Transmitter Portion (Refer to Fig. 1)

1. Test equipment required
 - a. AF Signal Generator (1) for 500 Hz & 1,000 Hz
 - b. AF Signal Generator (2) for 2,400 Hz
 - c. AF Attenuator, 600-ohm, attenuation range 0-80dB, 0.1dB step
 - d. AF V.T.V.M. (150mV Full scale)
 - e. RF V.T.V.M. (50V Full scale)
 - f. RF Output Power Meter (10W MAX, Thru-line type)
 - g. 50-ohm Dummy Load
 - h. RF Attenuator (0-80dB)
 - i. Oscilloscope (DC-50MHz)
 - j. Spectrum Analyzer
 - k. DC Voltmeter
 - l. DC Current Meter (150mA Full scale)

2. Alignment Procedure

Connect the test equipments according to the test set-up shown in Fig. 3.

Step	Preset Condition	Connections	Adjustment	Remarks
1.	Channel 19 USB, TX mode. No modulation	DC Current Meter TP8	VR8	Adjust VR8 to obtain the current approx. 30 mA. After adjustment connect TP8
2.	same as step 1	DC Current Meter TP7	VR9	Adjust VR9 to obtain the current approx. 50 mA. After adjustment connect TP7.
3.	same as step 1		VR5	Adjust VR5 to obtain the minimum carrier leakage.
4.	same as step 1		VR5	same as above
5.	Repeat Steps 3 and 4, to obtain approximately the same amount of carrier leakage on USB and LSB modes, and at the same time to make the leakage minimum.			
Step	Preset Condition	Connections	Adjustment	Remarks
6.	Channel 19, USB, TX mode. AF input of 2-tone, about 500 mV to Mike Jack.	Set VR7 at C.W. position	L26, L28, L29, L36	Adjust L26, L27, L28, L29 and L36 to obtain the maximum indication on RF V.T.V.M.
7.	Channel 19, USB, TX mode. AF input of 2-tone, RF output of about 4W PEP.	same as above	L26, L27, L28, L29	Adjust L26 and L29 to obtain the maximum indication on the RF V.T.V.M.
8.	Channel 19, AM, TX mode. AF input 500mV to Mike Jack.	same as above	L36	Adjust L36 to obtain the maximum indication on the RF V.T.V.M.
9.	same as step 6		VR7	Adjust VR7 to obtain RF output power of approx. 11.0W PEP.
10.	Channel 19 AM, TX mode. No modulation.		VR6	Adjust VR6 to obtain RF carrier power of 3.8W.
11.	same as step 6.		VR10	Adjust VR10 to obtain an indication of marked position on built-in meter.
12.	same as step 6	same as above	L39	Adjust L39 to minimize 54 MHz 2nd harmonics using Spectrum Analyzer.
13.	Check spurious emissions of AM and SSB using Spectrum Analyzer.			

Alignment of Receiver Portion (Refer to Figs. 1 & 2)

1. Test Equipment Required

- Signal Generator (27MHz band. 1,000Hz 30% amplitude modulation must be available and 50 ohm output impedance)
- DC, Volt Meter
- AF V.T.V.M. (5V Full scale)
- 8-ohm DUMMY Load

2. Alignment Procedure

Connect the AF V.T.V.M. & 8-ohm DUMMY Load to EXT SP Jack (J402) during the alignment of receiver portion.

Step	Preset Condition	Condition of Signal Generator	Adjustment	Remarks
1.	Channel 19 NB: OFF ANL: OFF SQL: Min. RF GAIN: Max. VOL: Max. MODE: USB PA-CB: CB	27.185MHz No modulation Output level: 0.25uV	Frequency of Signal Generator	Adjust frequency of Signal Generator to obtain AF output signal of 1,000Hz at CLARIFIER control in middle position.
2.	same as step 1	same as step 1	L3, L4, L5, L6 L7, L8, L9, L10	Adjust L3, L4, L5, L6, L7, L8, L9, L10 for the maximum AF output power.
3.	same as step 1, except mode AM.	1KHz 30% mod. 27.185MHz Output level: 1uV	L3	Adjust L3 for the maximum indication on AF V.T.V.M.
4.	same as step 1	27.185MHz No modulation Output level: 100uV	VR1	Adjust VR1 to obtain "S-9" indication of S-meter.
5.	same as step 1, except SQL: Max.	27.185MHz No modulation Output Level: 1,000uV	VR2	Adjust VR2 till AF signal observed. After adjustment set SQL at minimum.
6.	Channel 19 NB: ON SQL: Min. RF GAIN: Max. VOL: Max. MODE: AM	same as step 5	L1, L2	Adjust L1, L2 to obtain the maximum DC voltage at TP6.

Alignment of Built-In DC Power Supply (Refer to Fig. 3)

1. Test equipment required
 - a. DC Voltmeter (15V Full scale)
2. Alignment Procedure

Step	Preset Condition	Connections	Adjustment	Remarks
1	Channel 19 or arbitrary channel. AM, RX mode.	DC voltmeter to the emitter of transistor TR401.		
2	same as step 1	AC power cable to 117V/60Hz source.	RT301	Adjust RT301 on the power supply board to obtain 13.8V on the DC voltmeter.

Fig. 1

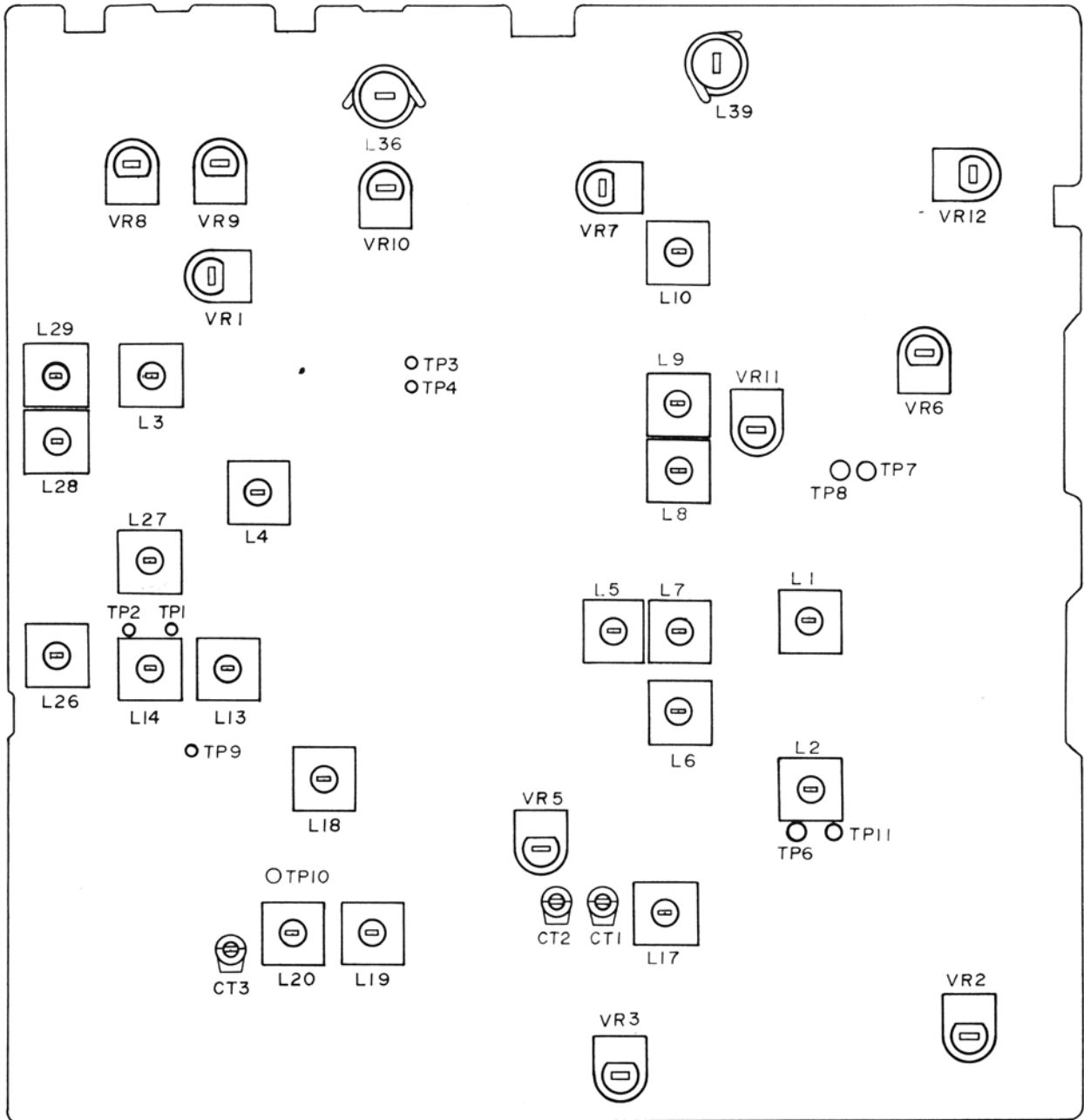


Fig. 2 PLL and Receiver Test Setup

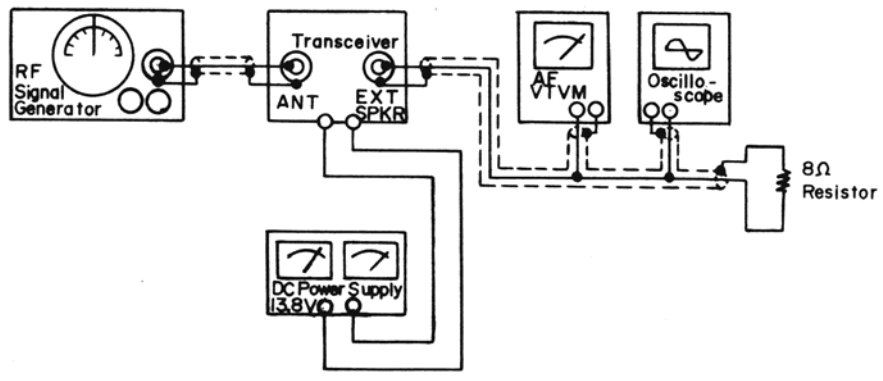
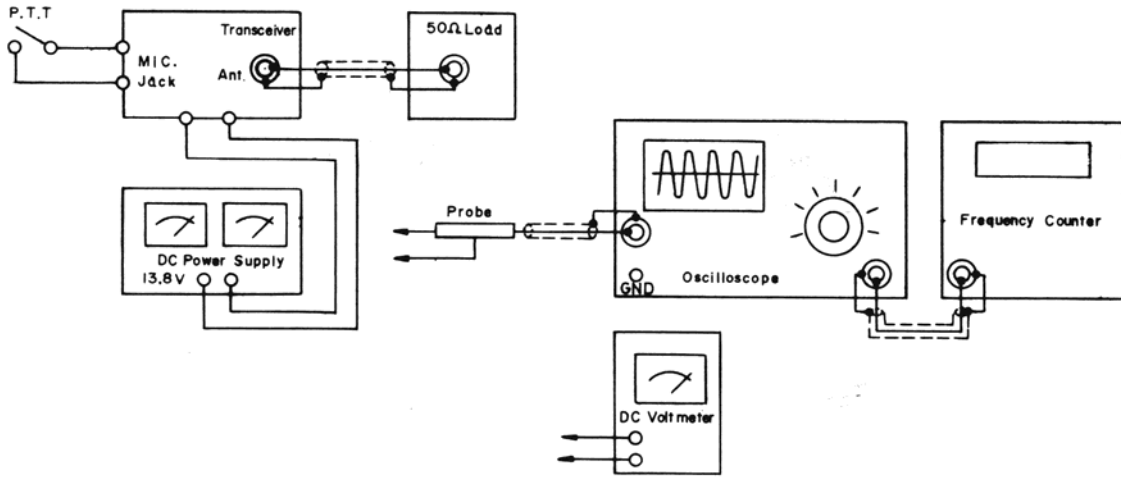
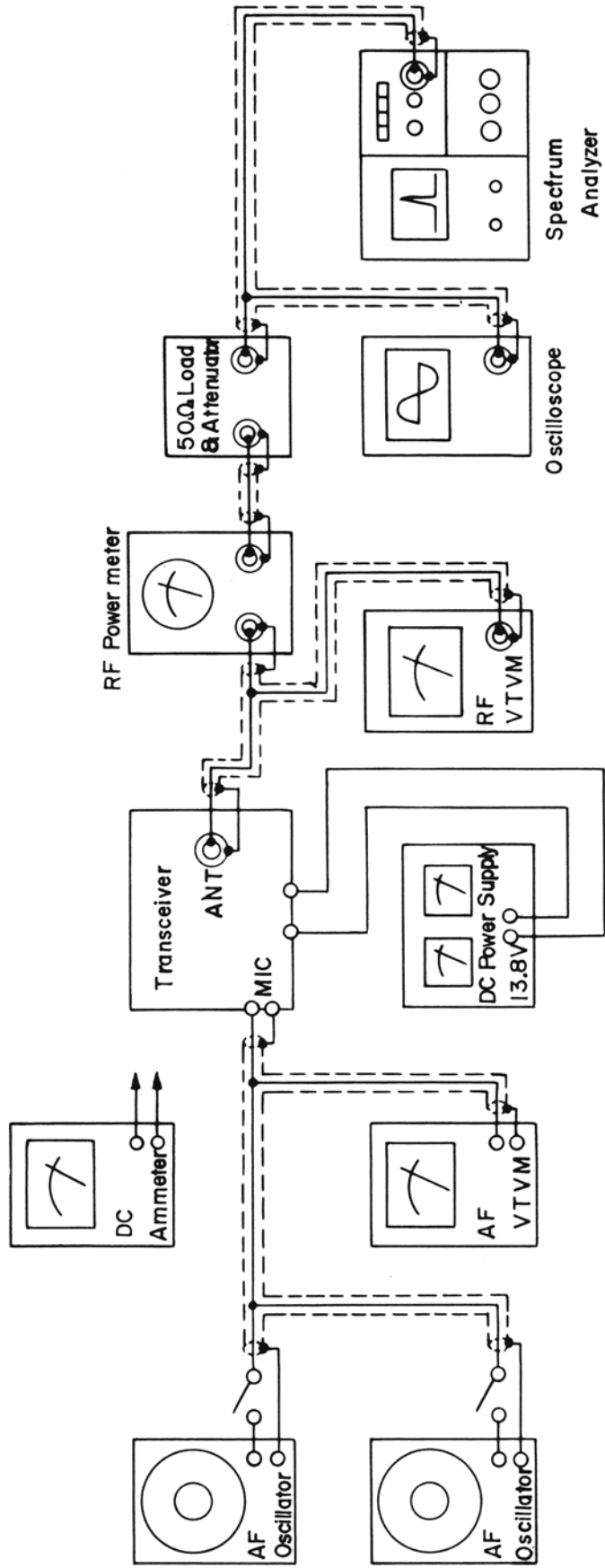


Fig. 3 Transmitter Test Setup



Voltage Chart

TRANSISTOR

NO	1		2		3		4		5		6		7		8		9	
	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
TX or RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
BASE	0	1.2	0	0.7	0	2.4	0	0	0	0	0	0	0	7.3	0	0	0	2.1 (0.45)
COLLECTOR	0	7.8	0	2.4	0	7.5	0	8.0	0	8.0	0	7.3	0	0	0	0	0	7.8 (8.0)
EMITTER	0	0.5	0	0	0	1.6	0	0.5	0	0	0	0	0	8.0	0	0	0	1.4 (0)
REMARKS	NB ON		NB ON		NB ON		NB ON		NB ON								()---RF Gain MIN	

10		11		12		13		14		15		16		17		18		19	
TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
0	0.3	0	3.0	0	0	0	1.2 (1.3)	2.8	7.7 (7.0)	0	0 (2.5)	0	2.9	0	0.73	0	2.5	3.9	3.9
0	7.8	7.3	2.3	0	8.0	0	1.7 (7.8)	0	8.0 (7.3)	0	8.0 (7.3)	0	7	0	3.6	0	7.0	8.0	8.0
0	0.1	0	2.3	0	0.5	0	0.6 (1.7)	0	0.6 (8.0)	0	0.5 (1.9)	0	2.2	0	0	0	1.8	3.3	3.3
						()---SQ MAX		()---SQ MAX		()---SQ MAX									

20			21			22		23		24		25		26		27		28		29	
AM TX	AM RX	SSB TX	AM TX	AM RX	SSB TX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
0	0	2.5	0.75	0.2	0.2 (0.2)	2.2	2.2	1.4	1.4	3.5	3.5	0 (0)	0	/		1.5 (4.3)	4.0 (4.3)	1.7	1.7	0.9	0.9
7.5	0.2	0	0	0	0 (1.8)	7.5	7.5	7.9	7.9	7.2	7.2	6.5 (6.5)	6.5			1.8 (0.1)	0.2 (0)	3.0	3.0	1.7	1.7
0	0	0	0	0	0 (0)	1.5	1.5	0.9	0.9	2.8	2.8	3.5 (1.7)	0			1.2 (8.0)	2.8 (2.8)	1.1	1.1	0.35	0.35
			SSB --- ()---SSB									---AM ()---SSB		---AM ()---SSB							

30			31		32		33		34		35		36		37			38	
TX	RX	PA	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	PA	TX	RX
3.0	3.0	1.4	6.5	6.5	0	0.7	0.85 (0.85)	0.85	5.6 (6.0)	6.0	5.6 (6.0)	6.5	0	3.3	0.6	7.6	7.6	1.2	0
0	0	2.0	0	0.7	0	0	6.5 (6.5)	6.5	13.8 (13.8)	13.8	13.8 (13.8)	13.8	0	6.2	0	13.8	13.8	8.0	0
3.0	3.0	2.0	6.8	6.8	0	0	1.5 (4.3)	4.0	5.0 (13.8)	13.8	5.6 (6.0)	6.0	0	2.6	0	7.4	7.4	0.55	0
						---AM ()---SSB		---AM ()---SSB		---AM ()---SSB									

TRANSISTOR

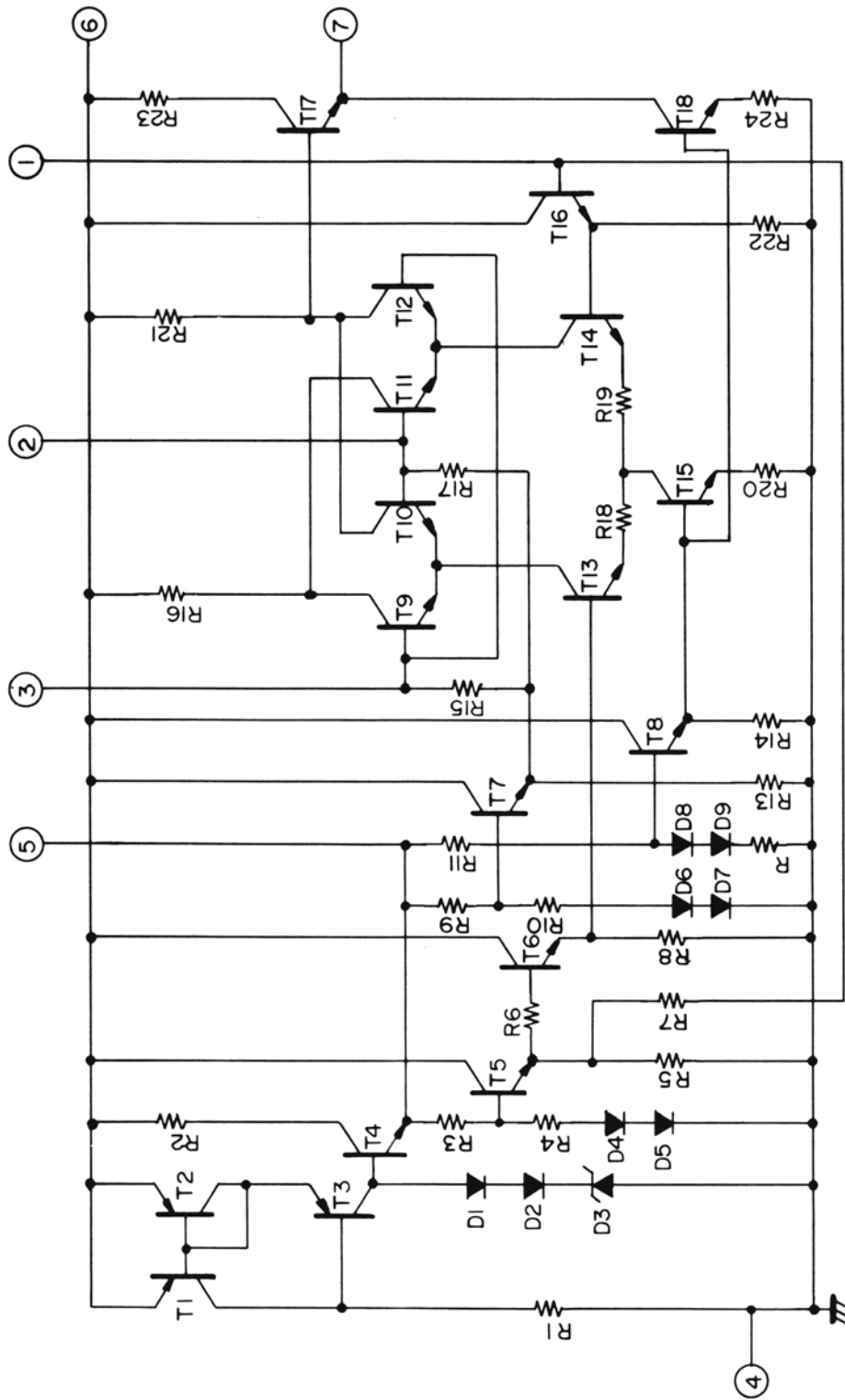
NO	TR 39		40		41		42		44		45		301		302		401	
	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
TX or RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
BASE	0.7 (0.7)	0	1.2	0	0.7 (0.7)	0	0	3.6	0.6	0	1.4	8.0	6.5	6.5	15.0	15.0	14.4	14.4
COLLECTOR	5.0 (13.8)	13.8	7.6	0	5.0 (13.8)	13.8	0	8.0	0	0	0	0	5.0	15.0	18.0	22.0	18.0	22.0
EMITTER	0 (0)	0	0.7	0	0 (0)	0	0	2.9	0	0	0	6.0	6.0	6.0	14.4	14.4	13.8	13.8
REMARKS	---AM ()---SSB				---AM ()---SSB													

VOLTAGE CHART

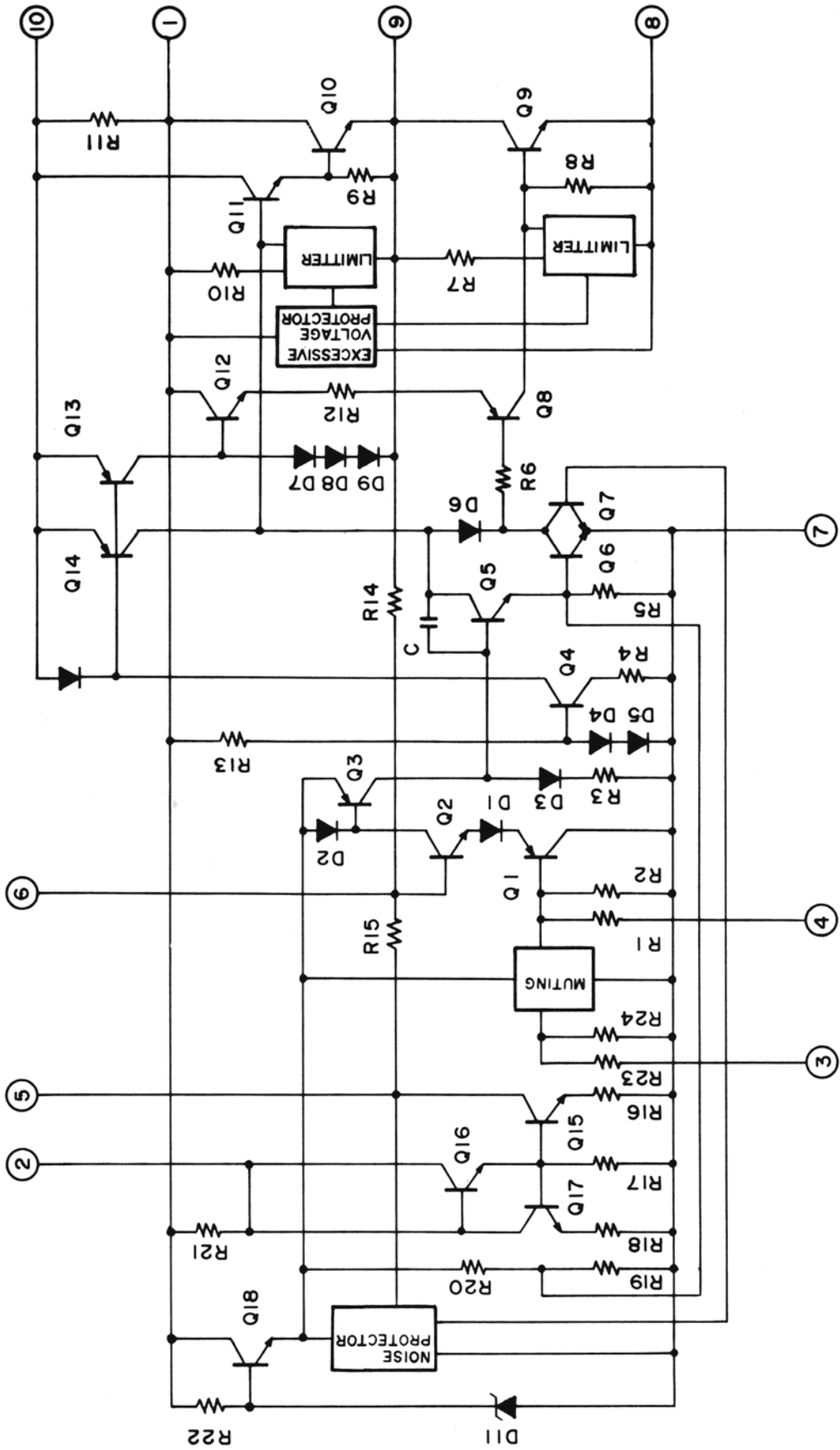
I.C. PIN NO																			REMARKS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
IC1	7.8	0	0	0	3.0	0	0	8.0	7.3	4.0									TX & RX
IC2	3.0	4.0	5.0	3.0	3.0	8.0	4.0	4.5	8.0	0	4.8	0	0	4.8	0	4.8	3.5	0	TX & RX
IC3	2.8	3.2	3.2	0	5.7	7.2	7.4 (3.8)												() --- TX
IC4	13.8	3.0	0	0	1.8	1.8	0	0	7.0	13.2									TX & RX
IC5	8.0	13.8	8.0	0	13.8 (0)	8	—	0	0	0									() --- TX
IC6	0	0 (7.8)	0 (7.8)	0	0 (7.8)	0 (0)	0 (2.8)	0 (2.8)	0 (2.8)	0 (1.5)	0 (1.4)	0 (1.4)	0 (1.4)	0					() --- TX

F.E.T. NO	FET I	
	TX	RX
TX or RX	0	0.2
GATE	0	3.3
SOURCE	0	8.0
DRAIN	0	
REMARKS		

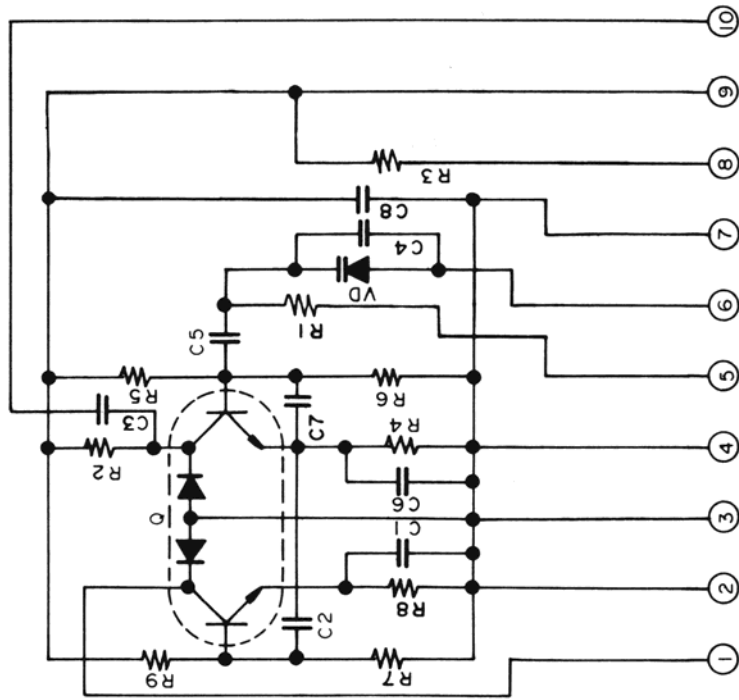
AN612



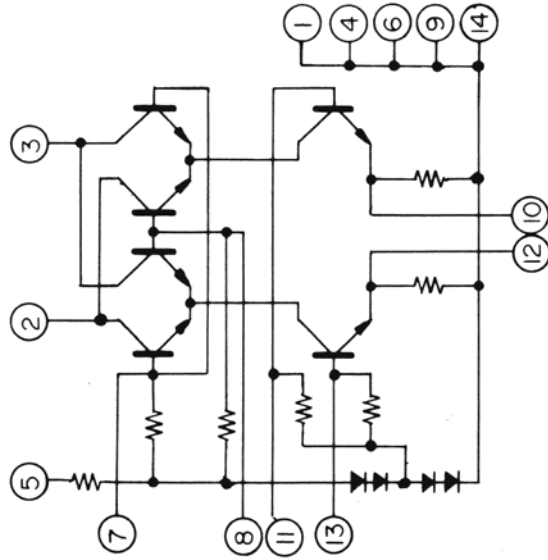
TA7222P



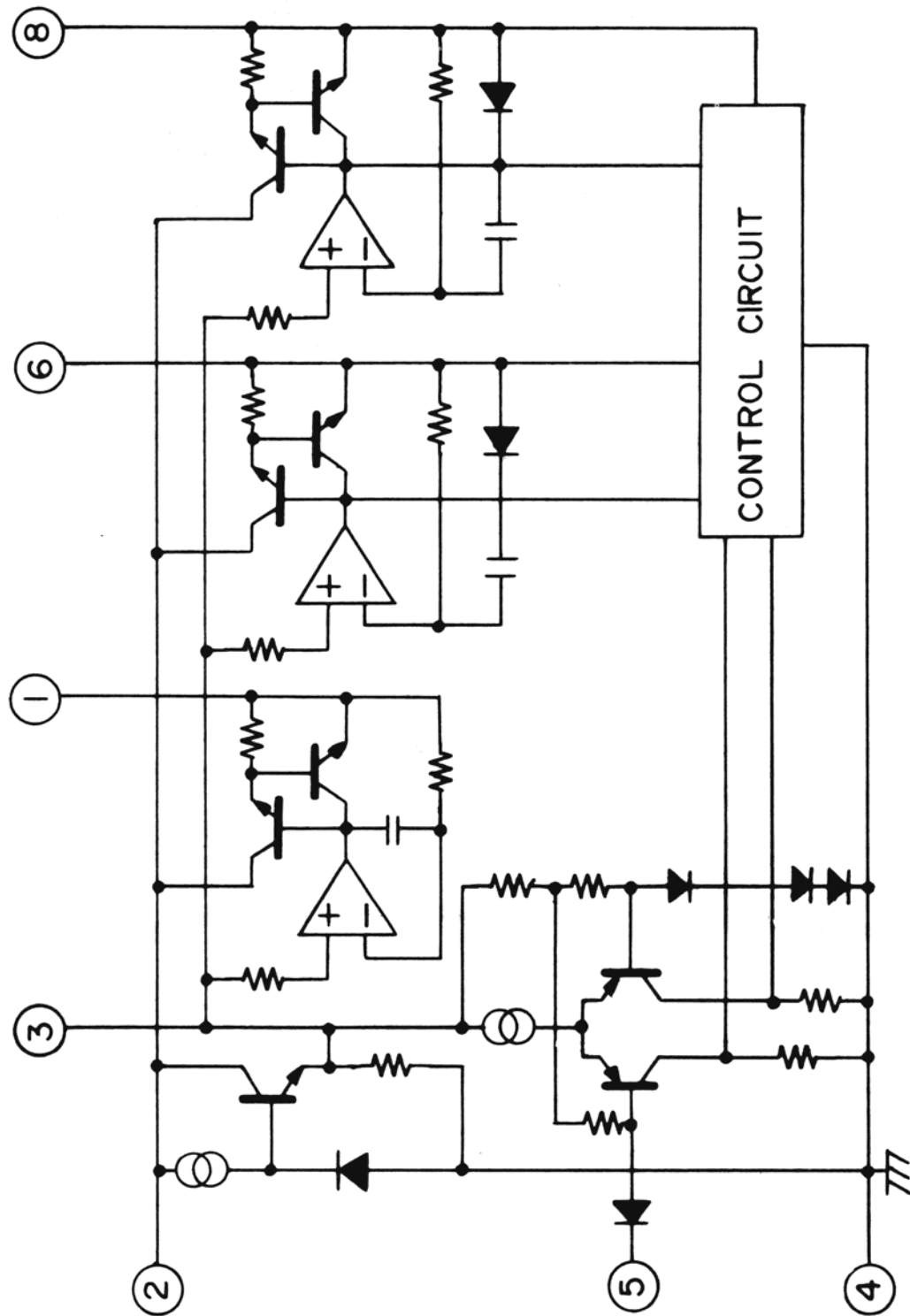
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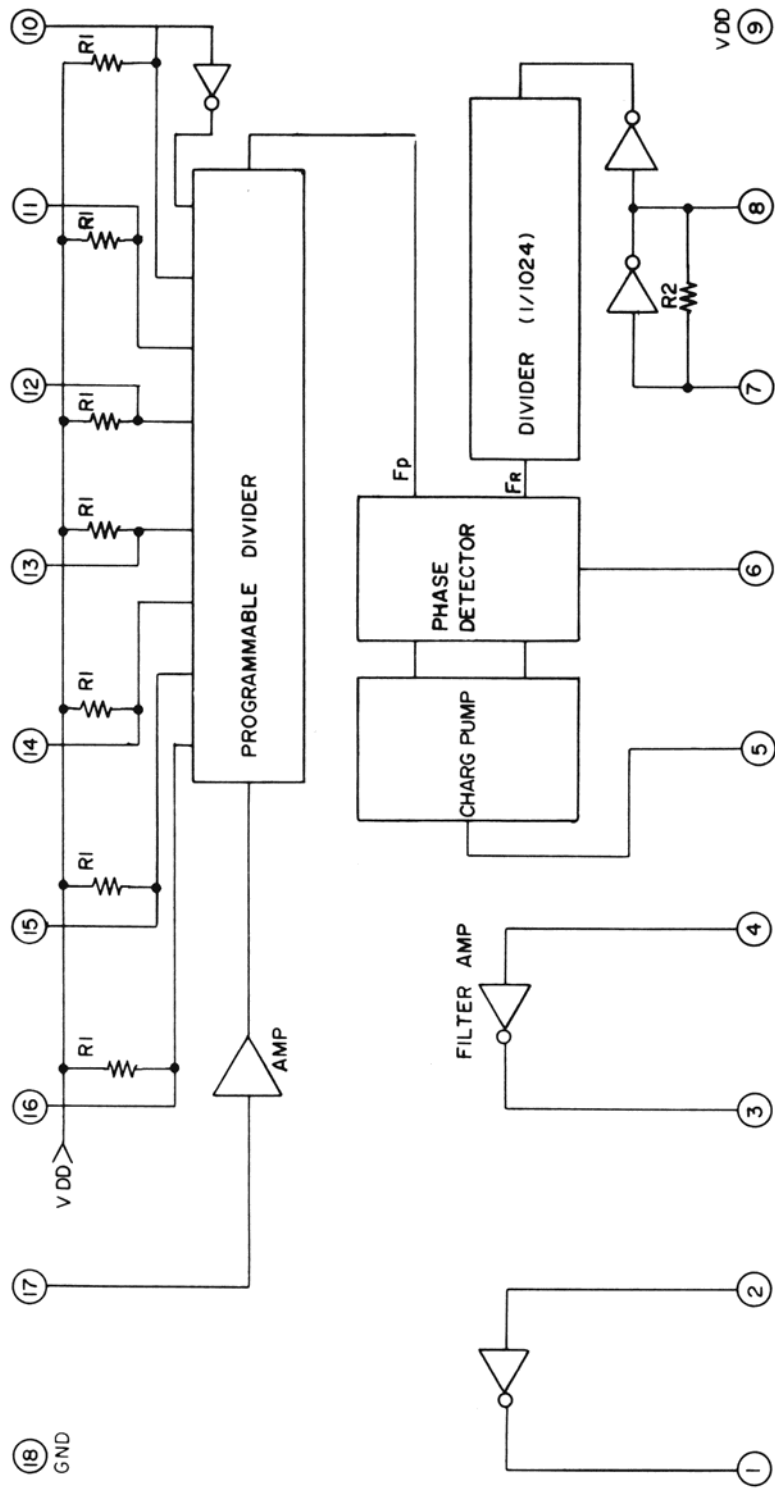
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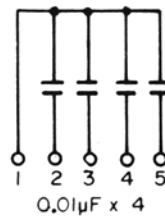
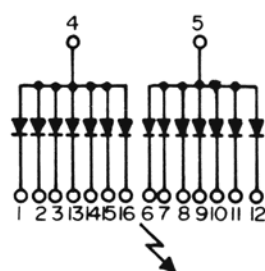
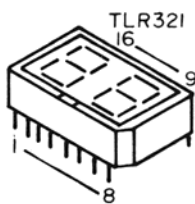
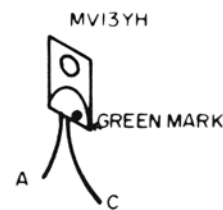
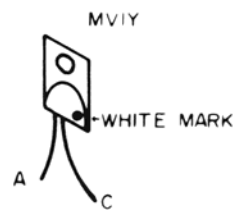
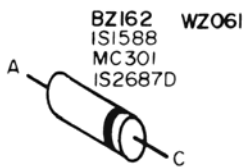
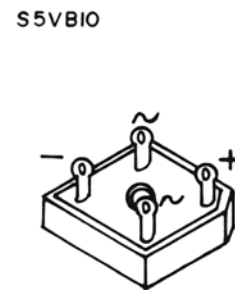
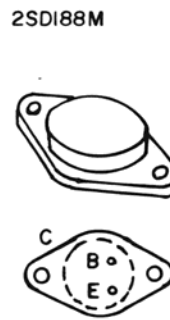
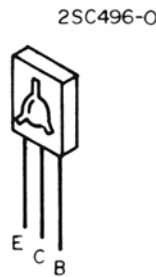
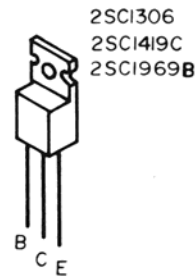
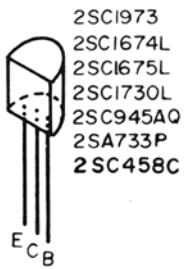
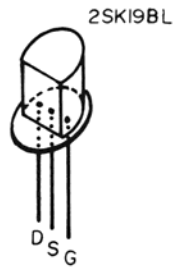
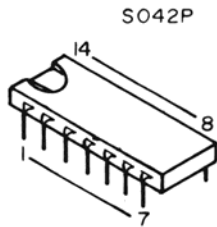
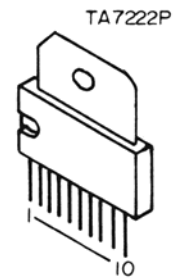
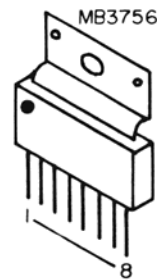
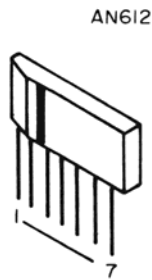
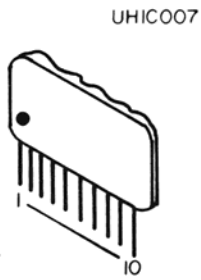
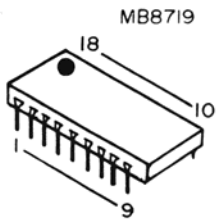


MB3756



MB8719





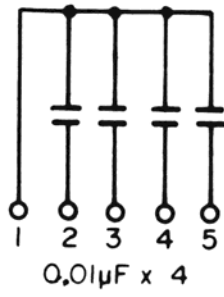
NOTE

FET D — DRAIN
S — SOURCE
G — GATE

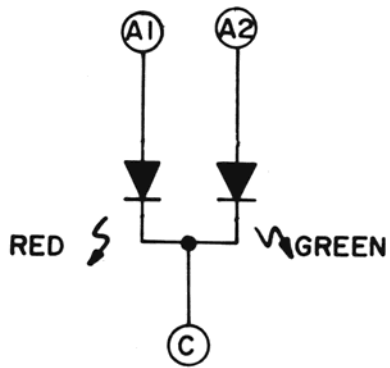
TR. E — EMITTER
C — COLLECTOR
B — BASE

DIODE A — ANODE
C — CATHODE

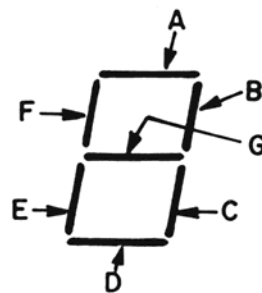
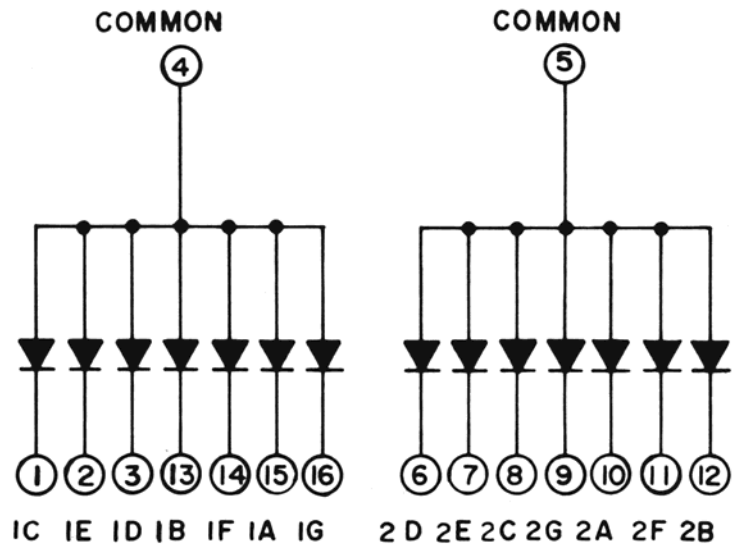
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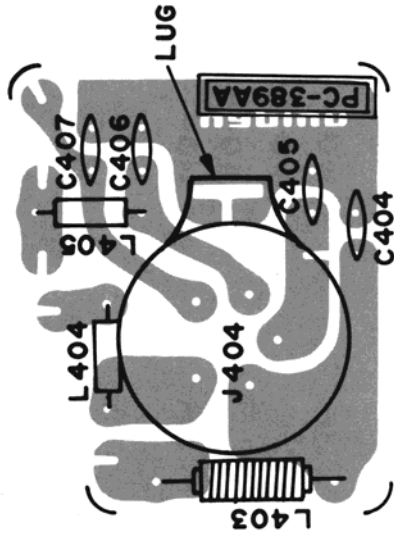
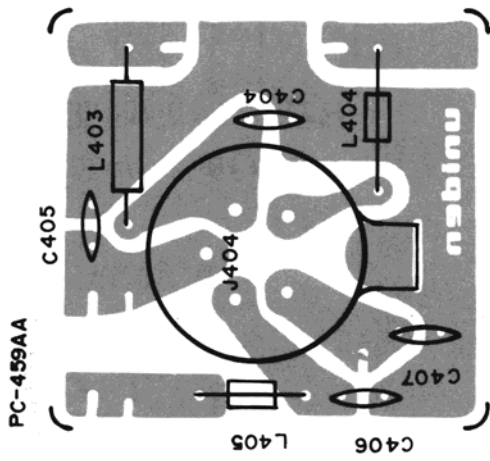


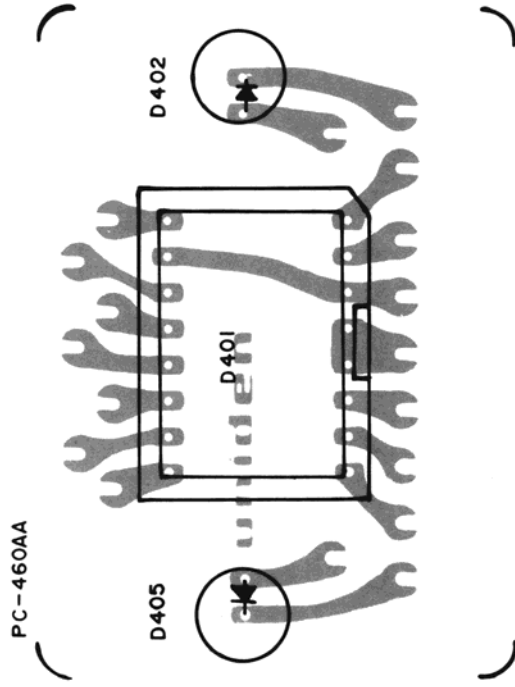
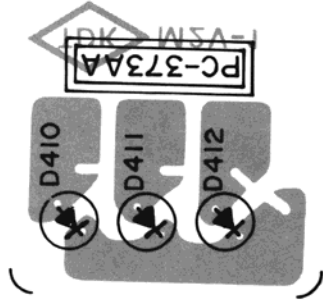
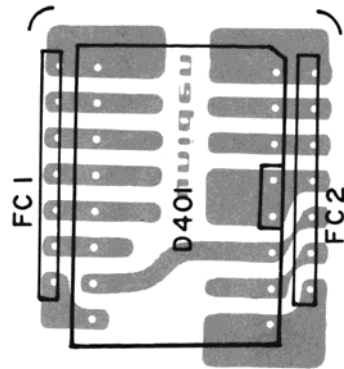
TLRG 101

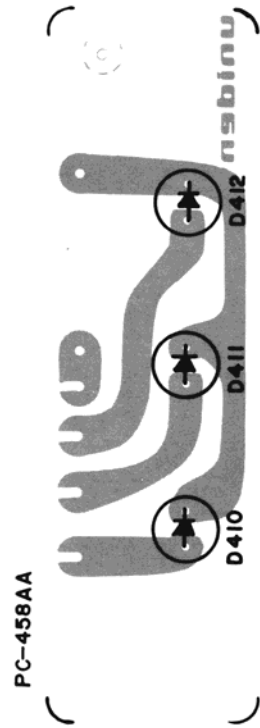
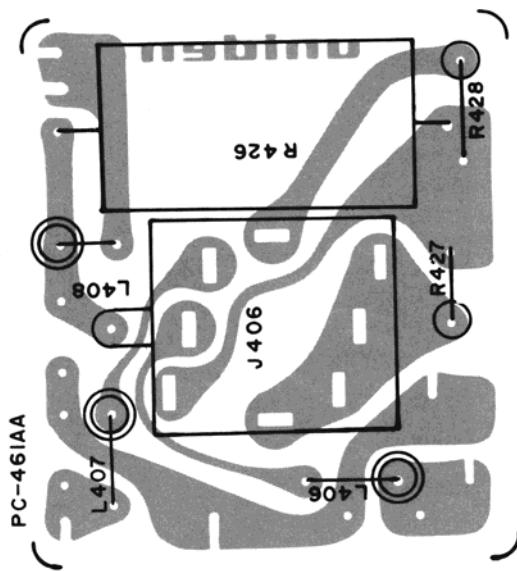


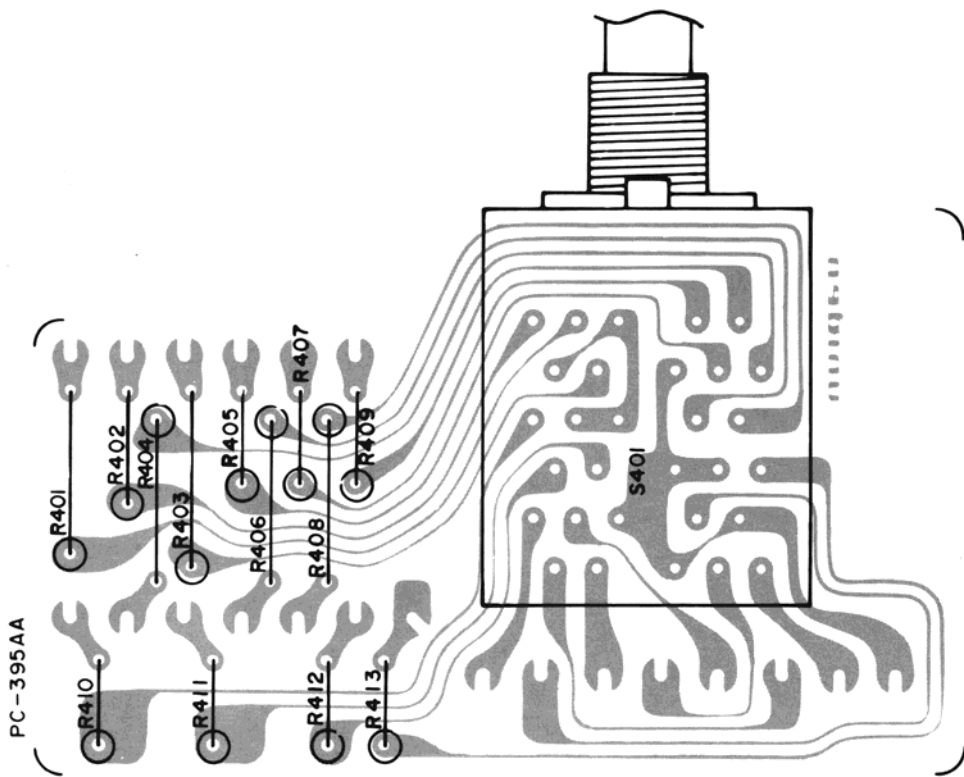
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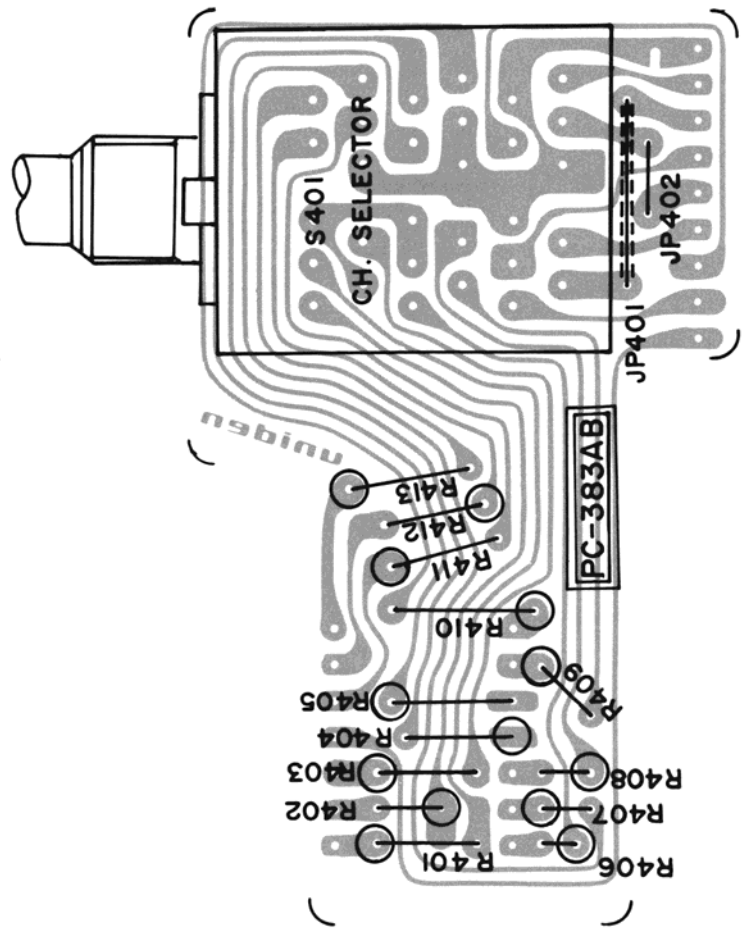




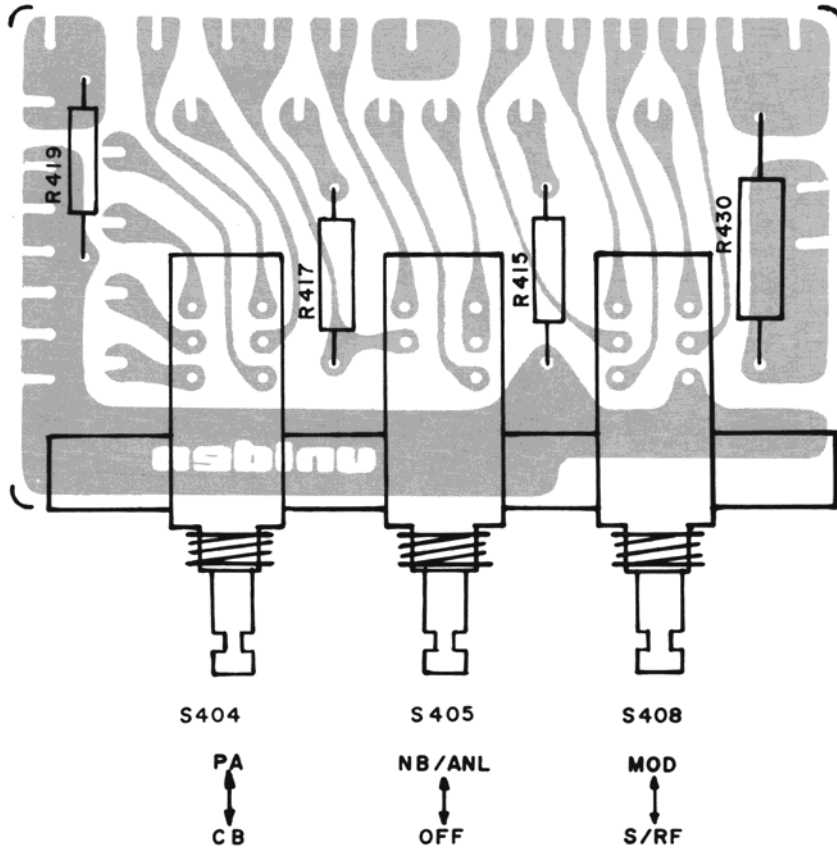




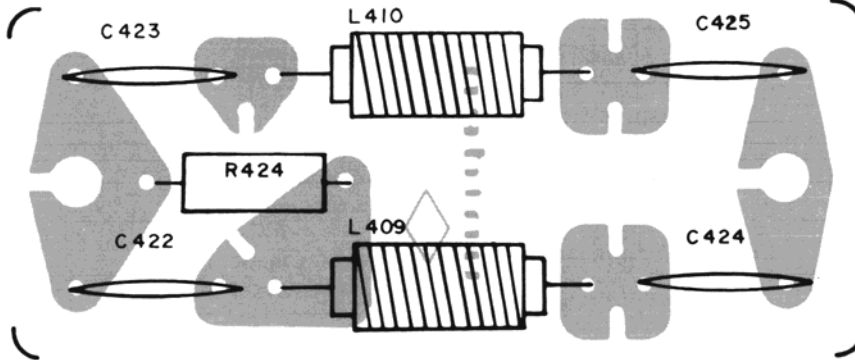




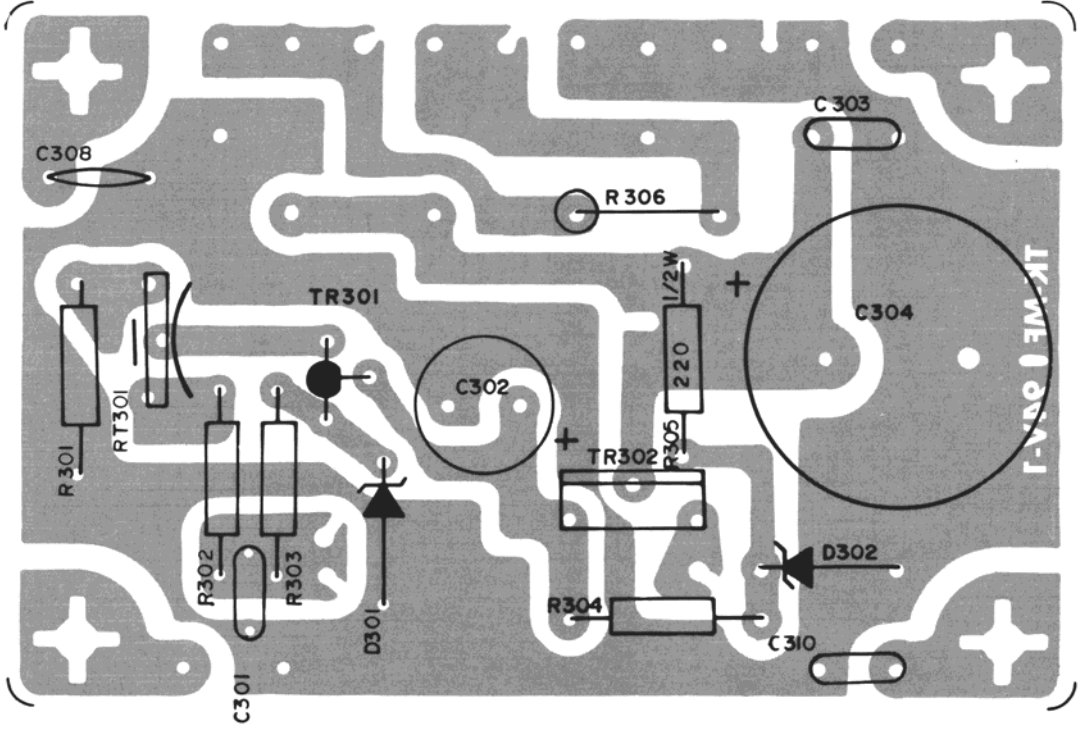
PC-457AA



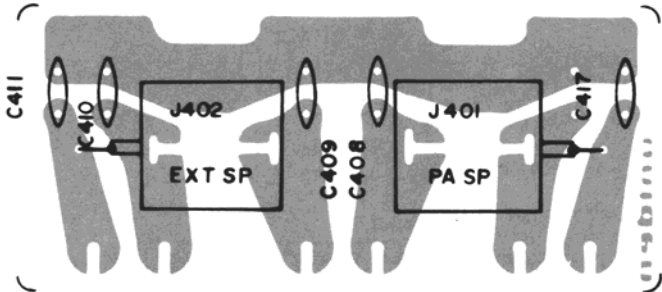
PC-372 AA

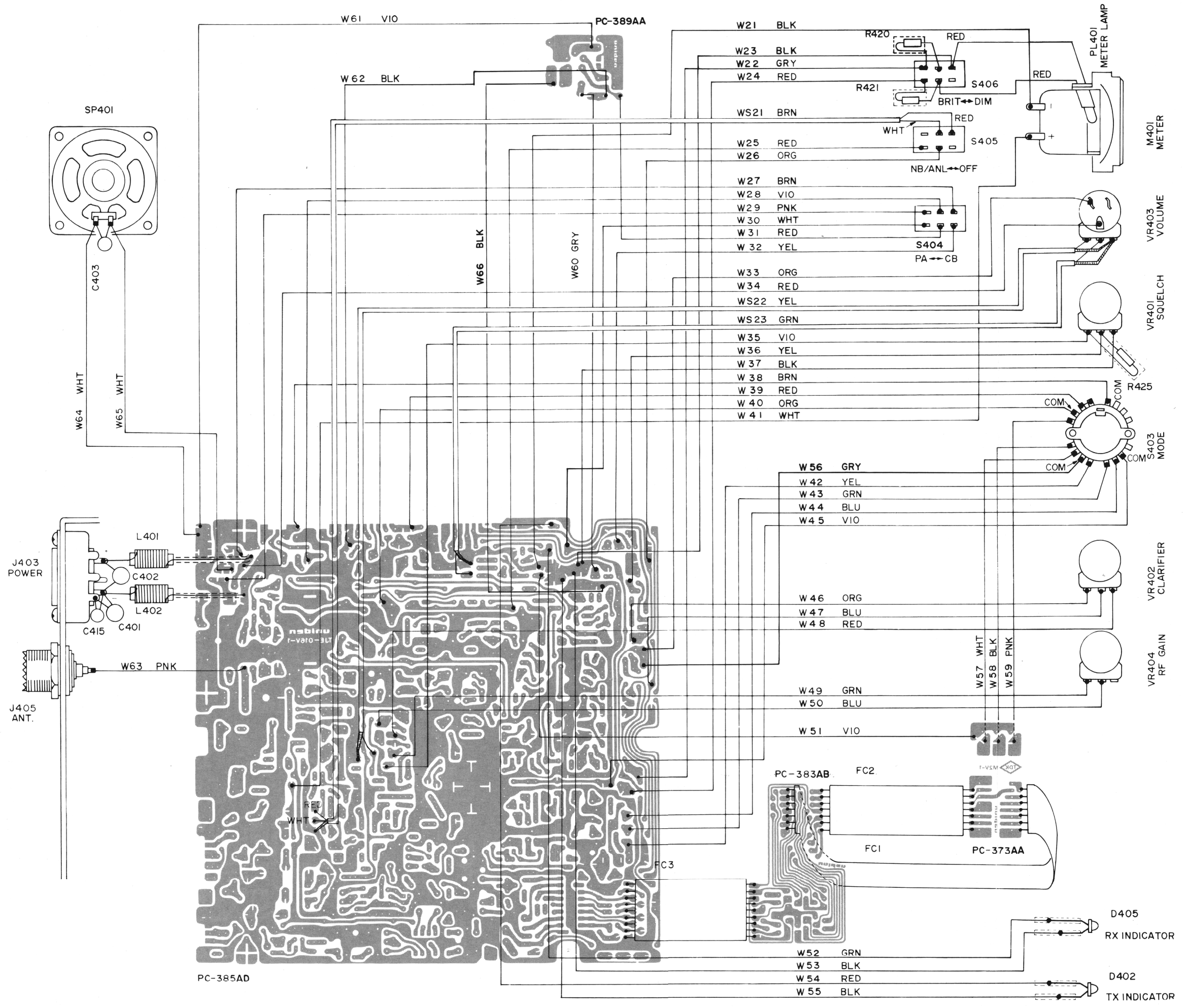


PC-006EB



PC-401AA





W61 VIO

PC-389AA

W21 BLK

W23 BLK

W22 GRY

W24 RED

WS21 BRN

W25 RED

W26 ORG

W27 BRN

W28 VIO

W29 PNK

W30 WHT

W31 RED

W32 YEL

W33 ORG

W34 RED

WS22 YEL

WS23 GRN

W35 VIO

W36 YEL

W37 BLK

W38 BRN

W39 RED

W40 ORG

W41 WHT

W56 GRY

W42 YEL

W43 GRN

W44 BLU

W45 VIO

W46 ORG

W47 BLU

W48 RED

W49 GRN

W50 BLU

W51 VIO

W52 GRN

W53 BLK

W54 RED

W55 BLK

W57 WHT

W58 BLK

W59 PNK

SP401

C403

W64 WHT

W65 WHT

J403 POWER

L401

C402

L402

C415

C401

J405 ANT.

W63 PNK

W66 BLK

W60 GRY

PL401 METER LAMP

M401 METER

VR403 VOLUME

VR401 SQUELCH

S403 MODE

VR402 CLARIFIER

VR404 RF GAIN

PC-383AB

FC2

FC1

PC-373AA

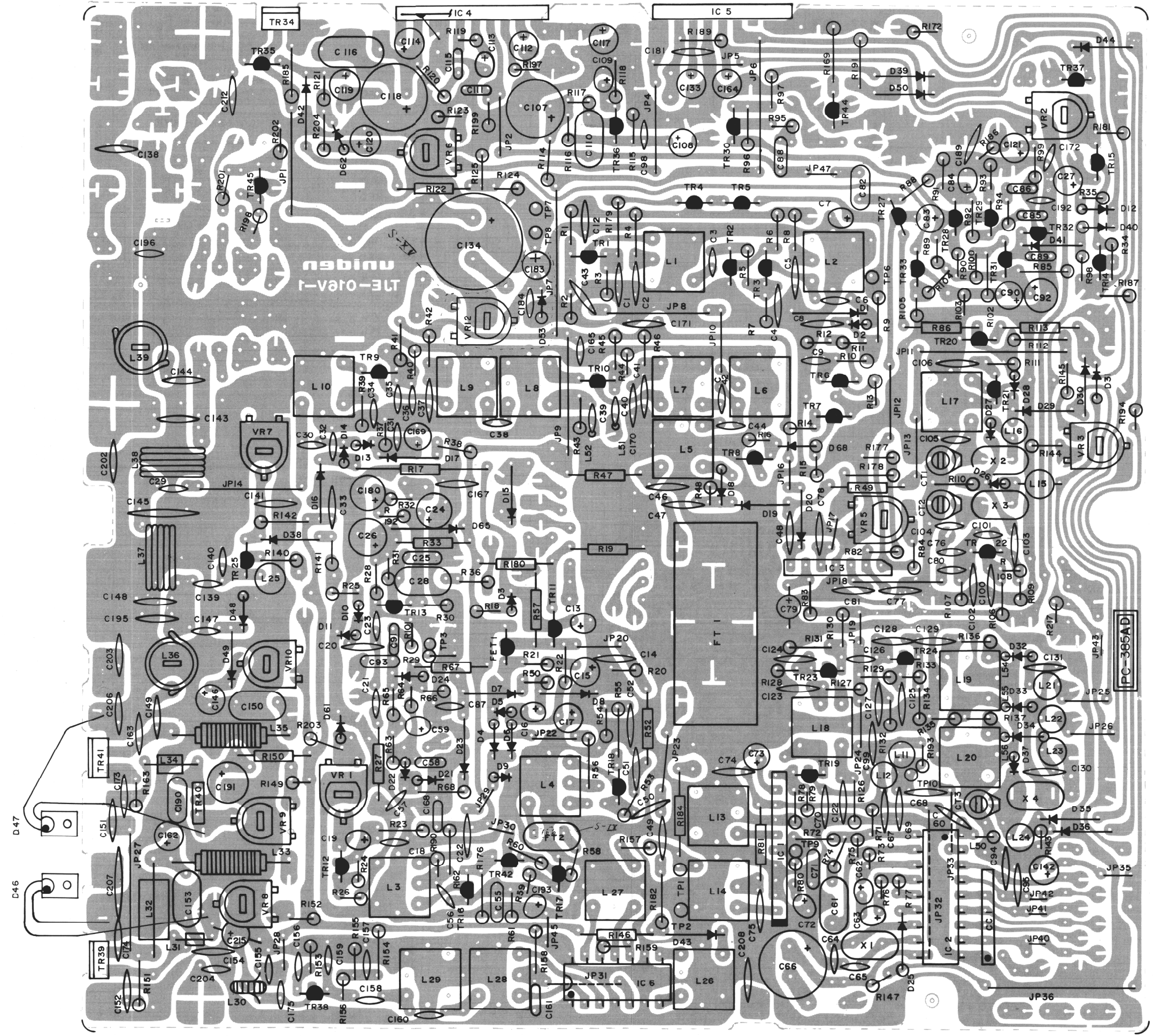
D405

RX INDICATOR

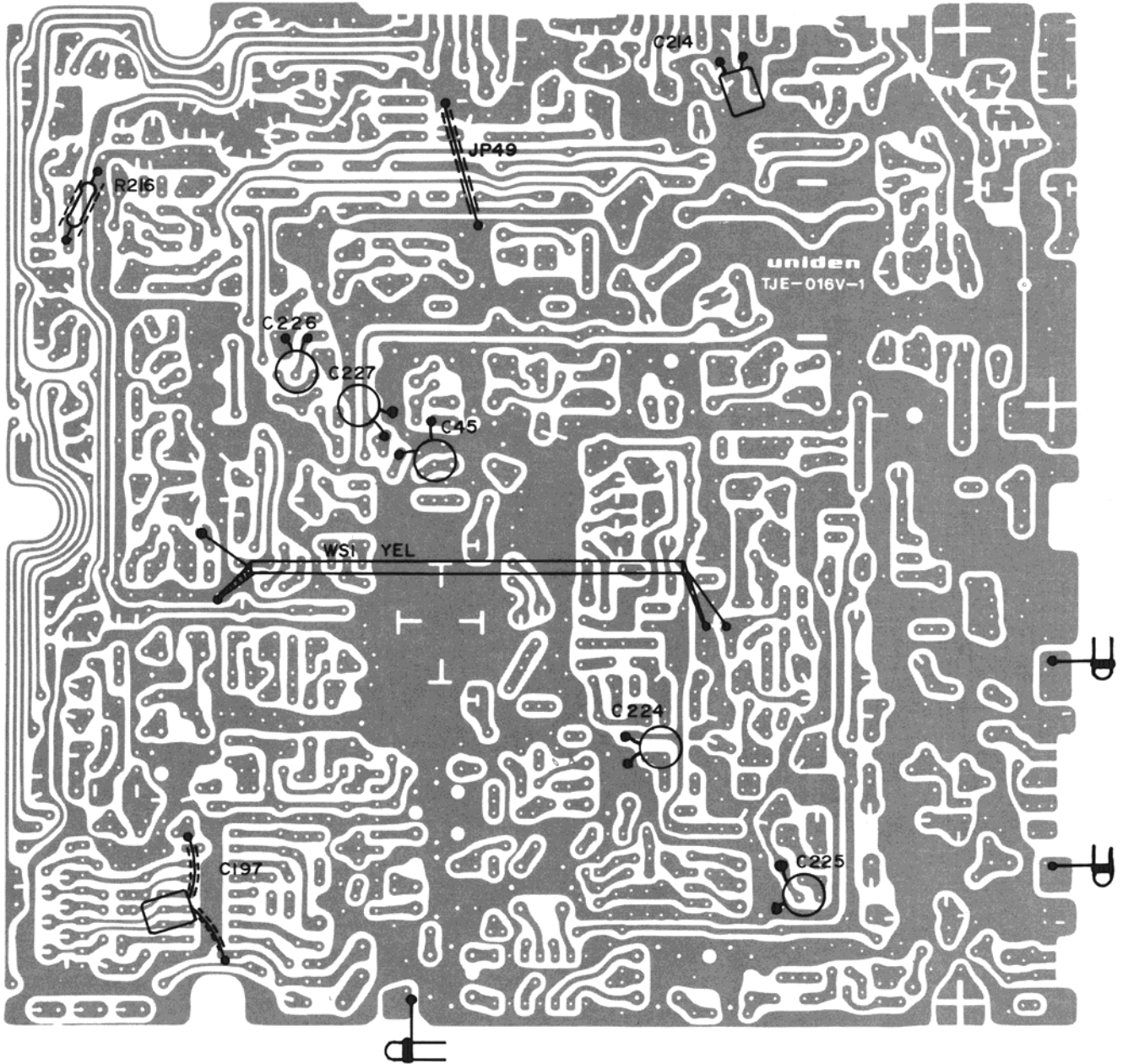
D402

TX INDICATOR

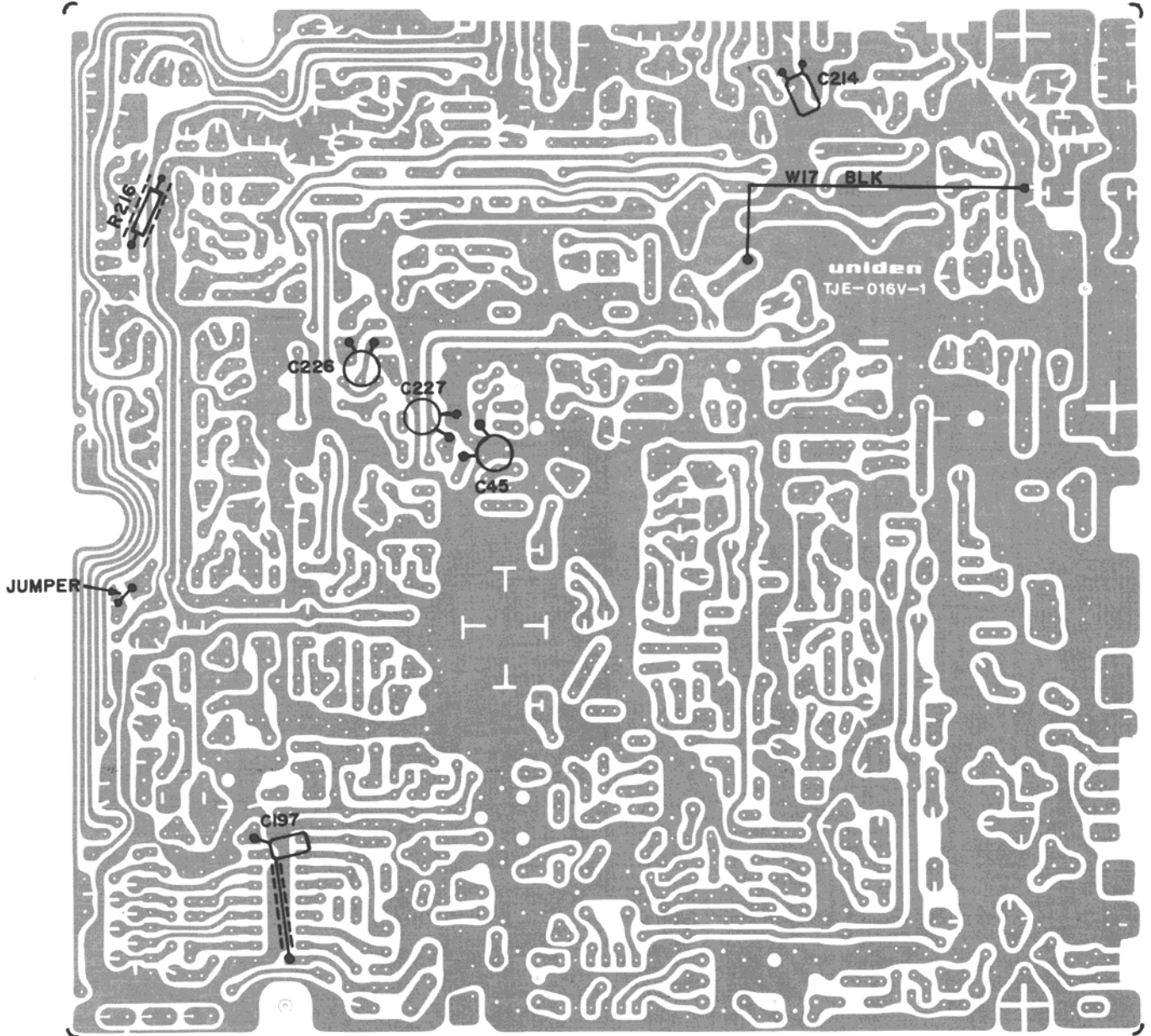
PC-385AD

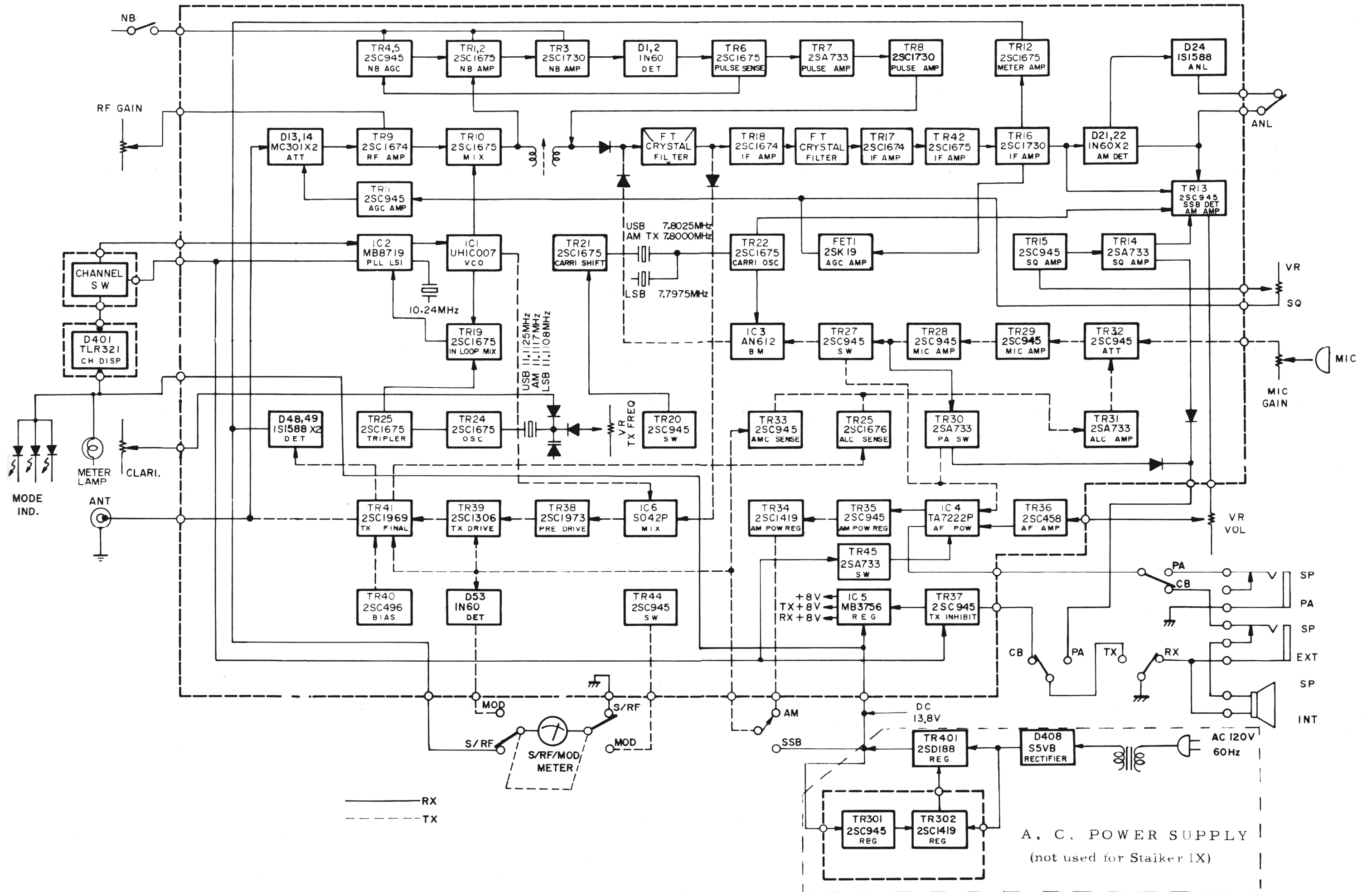


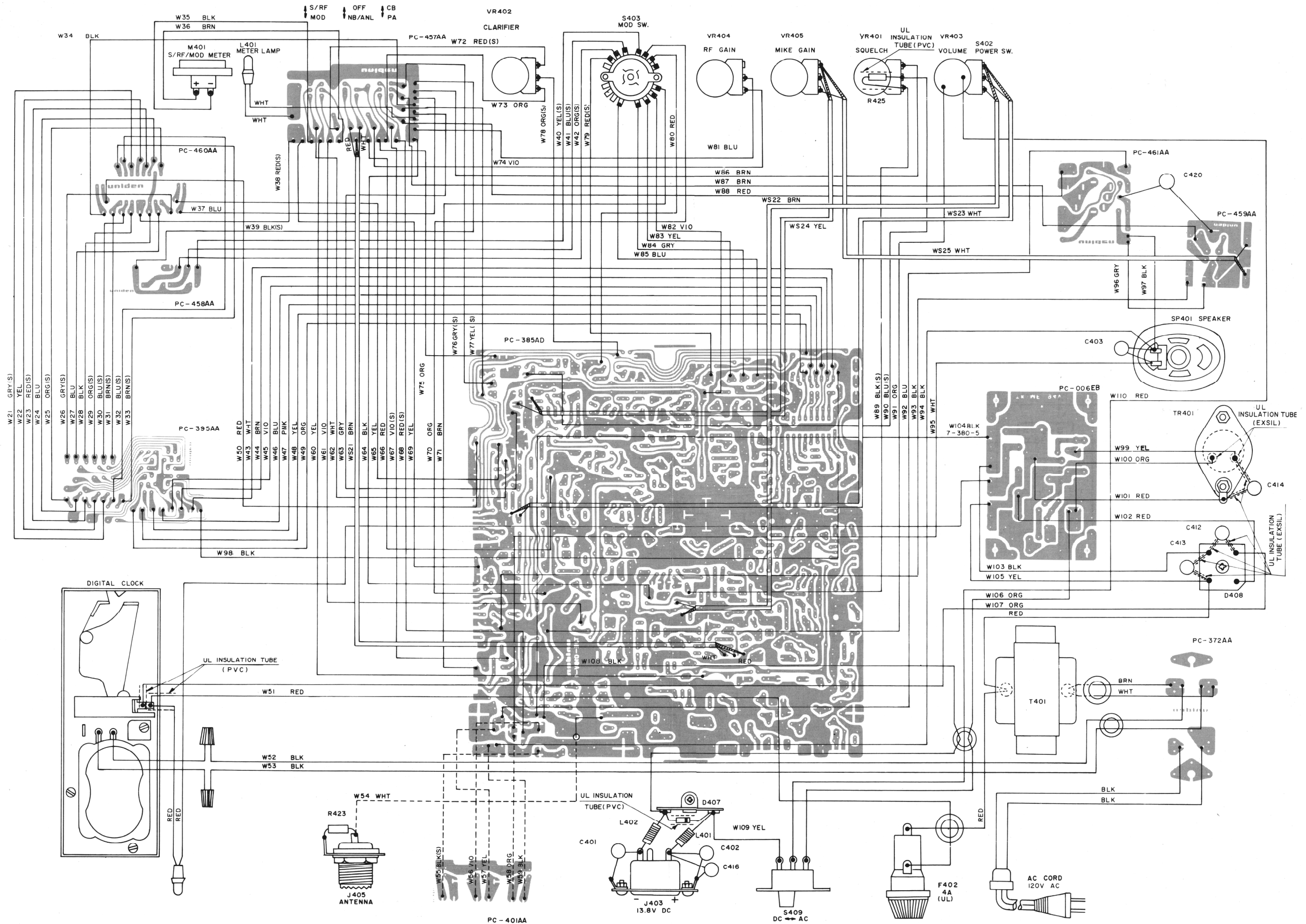
PC-385AD

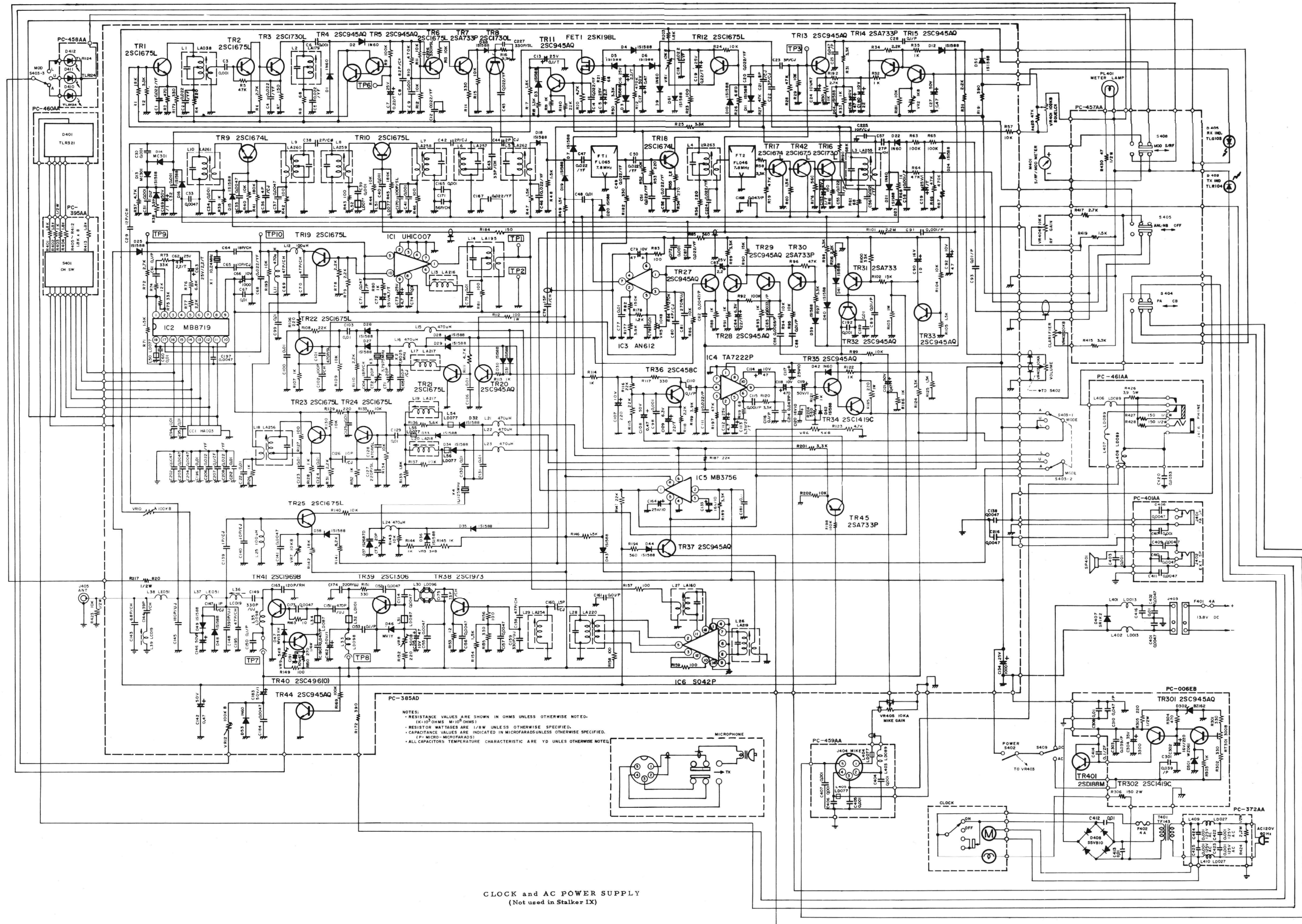


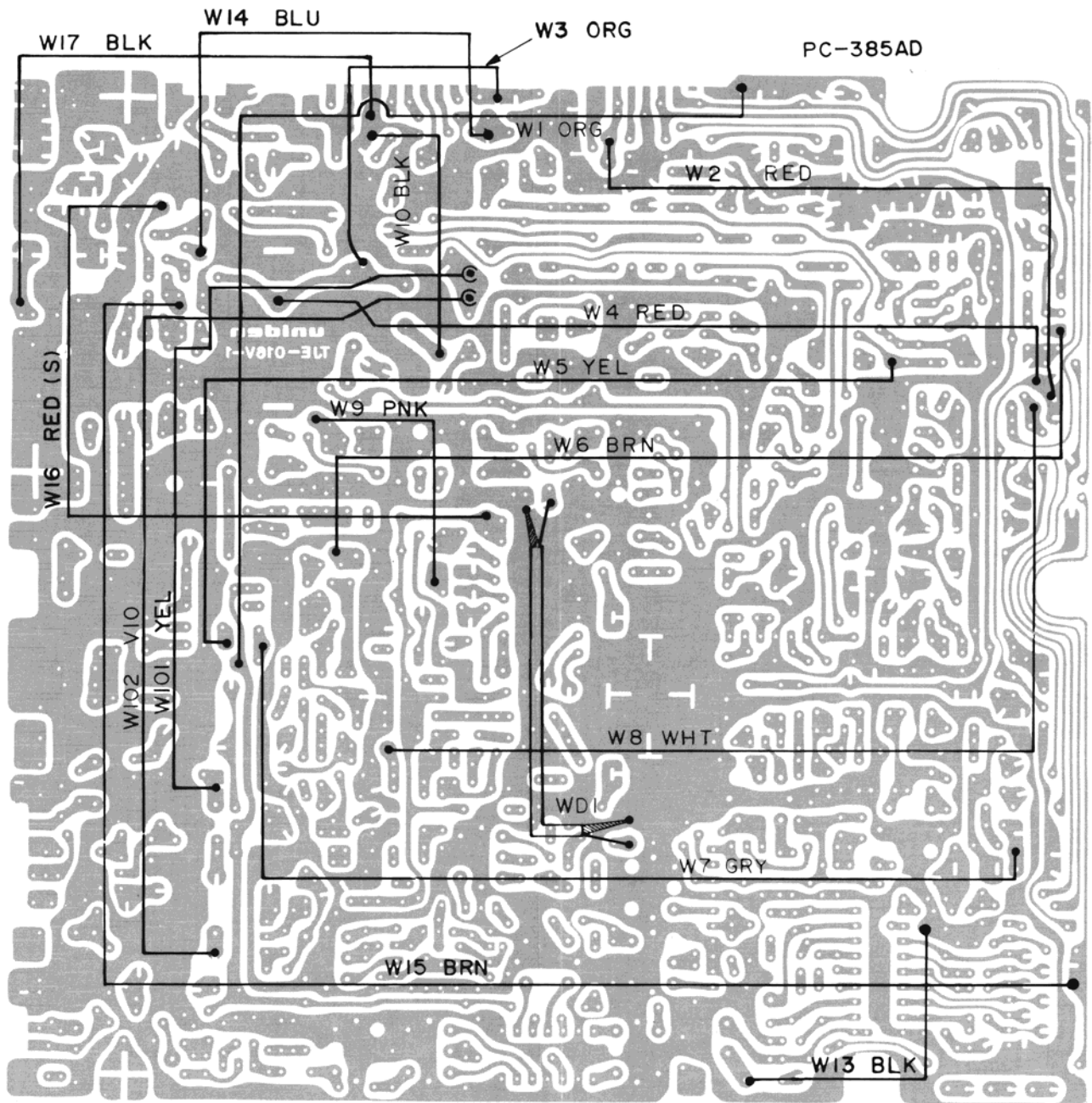
PC-385AD

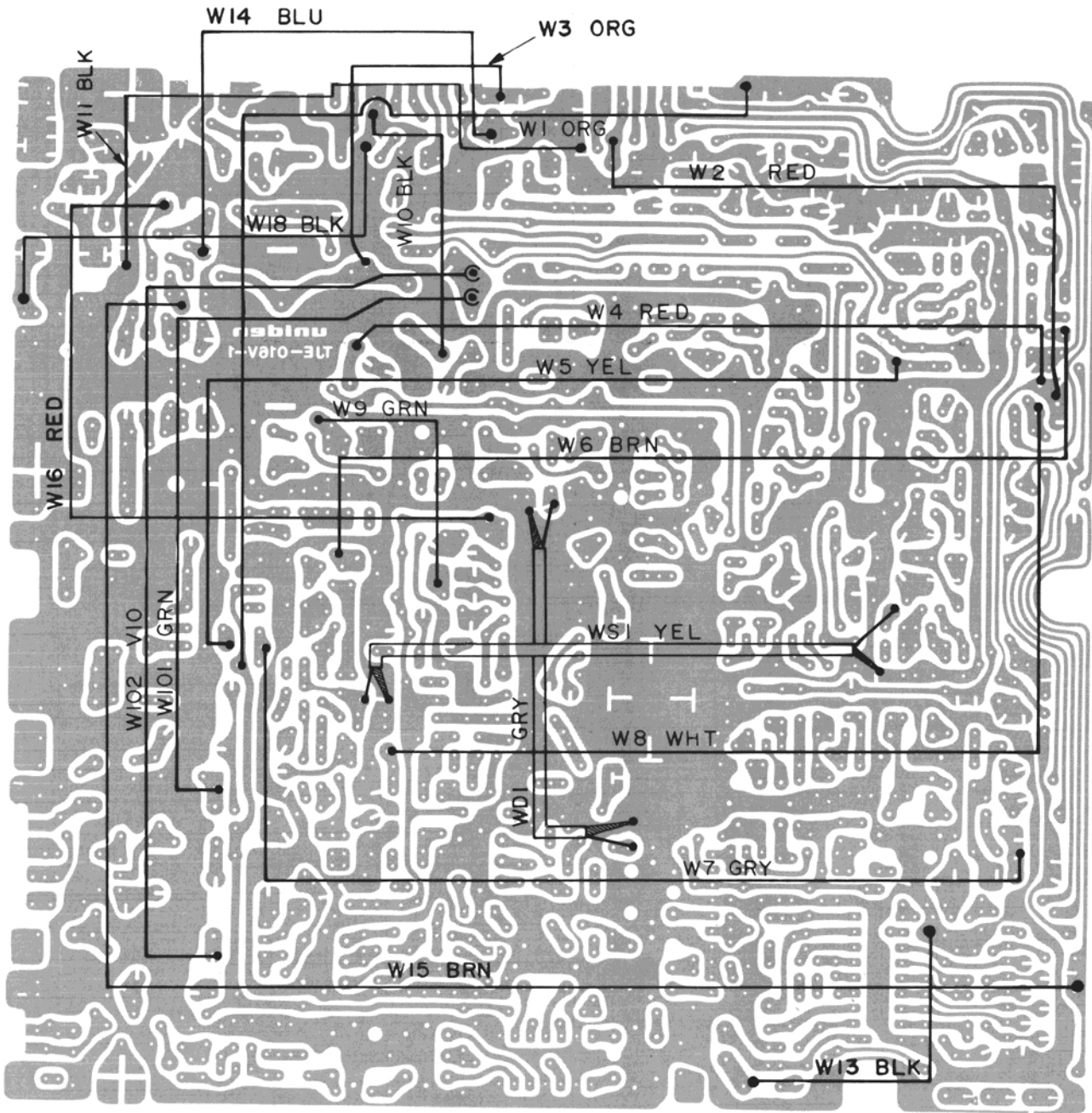












PC-385AD

STALKER IX

Computer No.	Symbol No.	Part No.	Description
D1696	IC 2	DDEY101001	IC MB8719
D1697	IC 3	DDEY130001	IC AN612
D1698	IC 5	DDEY131001	IC MB3756
D1699	IC 6	DDEY132001	IC SO42P
D1700	IC 1	DDEY133001	IC UHIC 007
D1701	IC 4	DDEY146001	IC TA7222P
B1081	FET 1	DDCY001002	Field Effect Transistor 2SK19 BL
B1011	TR7, 14, 30, 31, 45	DDBY003001	Transistor 2SA733 P
B1065	TR 39	DDBY230001	Transistor 2SC1306
B1054	TR4, 5, 8, 11, 13, 15, 20, 27, 28, 32, 33, 35, 37	DDBY224003	Transistor 2SC945A-Q
D1702	TR 26, 40	DDBY246001	Transistor 2SC496-O
B1068	TR 1, 2, 6, 10, 12, 19, 21, 22, 23, 24, 25, 42	DDBY259001	Transistor 2SC1675 L
B1263	TR 3, 16	DDBY269001	Transistor 2SC1730 L
B1264	TR 38	DDBY272001	Transistor 2SC1973
B1024	TR 36	DDBY273001	Transistor 2SC458-C
D1306	TR 34	DDBY278001	Transistor 2SC1419 C
D1703	TR 9, 17, 18	DDBY295002	Transistor 2SC 1674 L
D1704	TR 41	DDBY307003	Transistor 2SC1969-B
D1705	D 13, 14	DDAY090001	Diode MC301
D1706	D402, 410, 411, 412	DDAY100001	Diode, LED TLR 124
D1707	D 405	DDAY116001	Diode, LED TLG124A
D1708	D 46	DDFY020001	Varistor MV-1Y
D1709	D 47	DDFY021001	Varistor MV-13YH
D1710	L 13	LLAY216001	Coil LA 216
D1711	L 17, 19	LLAY217001	Coil LA 217
D1712	L 20	LLAY218001	Coil LA 218
D1713	L 26	LLAY219001	Coil LA 219
D1714	L 28	LLAY220001	Coil LA 220
D1715	L 29	LLAY254001	Coil LA 254
D1716	L 3	LLAY255001	Coil LA 255
D1717	L 18	LLAY256001	Coil LA 256
D1718	L 6	LLAY257001	Coil LA 257
D1719	L 7	LLAY258001	Coil LA 258
D1720	L 8	LLAY259001	Coil LA 259
D1721	L 9	LLAY260001	Coil LA 260
D1722	L 10	LLAY261001	Coil LA 261
D1723	L 5	LLAY262001	Coil LA 262
D1724	L 4	LLAY263001	Coil LA 263
D1725	L 403	LLDY089001	Coil LD 089
D1726	L 30	LLDY096001	Coil LD 096
D1727	L 33, 35	LLDY098001	Coil LD 098
D1728	L 32	LLDY101001	Coil LD 101
D1729	T 1	TTFY147001	Coil AF Choke TF 147
D1730	VR 403, 402	RRVY008001	RV 008 10K ohm A (VOLUME)
D1731	VR 404	RRVY324001	RV 324 10K ohm B (RF GAIN)
D1732	VR 401	RRVY126001	RV 126 100K ohm B (SQUELCH)
D1733	VR 402	RRVY139001	RV 139 20K ohm B (Clarifier)
D1734	X 4	QQXY098001	Crystal 11.1125 QX 098
D1735		PPCY383011	PCB 383 AA CH SW, PCB
D1736		PPCY373011	PCB 373 AA LED PCB

Computer No.	Symbol No.	Part No.	Description
D1737	FT 1	FFLY065001	Filter, Crystal FL065
D1738	S 403	SSRY205001	Switch Rotary SR 205 (Mode)
D1739	S 401	SSRY208001	Switch Rotary SR 208 (CH)
D1740	S 404, 405, 406	SSWY146001	Switch Slide SW 146 PA/CB DIM/BRT, NB-ANL
D1741	M 401	ZMTY097001	Meter MT-097
D1742		WWFY005174	Flat Cable WF005
D1743		WWFY005102	Flat Cable WF005
D1744		WWFY011105	Flat Cable WF011
D1745		MDBP05979	Cover, Top
D1746		MDMP205980	Cover, Bottom
D1747		MDMP206472	Mounting Bracket
D1748		MDMP206472	Panel Front
D1749		MDMP406425	Channel Knob
D1750		MDMP402181	Knob
D1751		MDNP406474	Nameplate, Control
D1752		MDAP406473	Nameplate, Brand
D1753		MDAP406475	Plate Decoration
D1754		MDPP306477	Display Box
D1755		MZPT508801	Owners Manual
D1756		MZPT508807	Schematic Diagram
D1862		AMKY106001	Microphone MK-106

STALKER XV

Computer No.	Symbol No.	Part No.	Description	
D1700	IC-1	DDEY13301	Integrated Circuit	UHIC-007
D1696	IC-2	DDEY101001	Integrated Circuit	MB8719
D1697	IC-3	DDEY130001	Integrated Circuit	AN 612
D1701	IC-4	DDEY146001	Integrated Circuit	TA7222P
D1698	IC-5	DDEY131001	Integrated Circuit	MB3756
D1699	IC-6	DDEY132001	Integrated Circuit	SO42P
B1081	FET-1	DDCY001002	Field Effect Transistor, 2SK19 BL	
B1011	TR 7, 14, 30, 31, 45	DDBY003001	Transistor	2SA733P
B1054	TR 4, 5, 8, 11, 13, 15, 20, 27, 28, 29, 32, 33, 35, 37, 44, 301	DDBY224003	Transistor	2SC945A-Q
B1036	TR 39	DDBY230001	Transistor	2SC1306
D1702	TR 40	DDBY246001	Transistor	2SC496-O
B1068	TR 1, 2, 6, 10, 12, 19, 21, 22, 23, 24, 25, 42	DDBY259001	Transistor	2SC1675-L
B1263	TR3, 16	DDBY269001	Transistor	2SC1730-L
B1264	TR 38	DDBY272001	Transistor	2SC1973
B1024	TR 36	DDBY273001	Transistor	2SC458-C
D1306	TR 34, 302	DDBY278002	Transistor	2SC1419-C
D1703	TR 9, 17, 18	DDBY295002	Transistor	2SC1614-L
D1704	TR 41	DDBY307001	Transistor	2SC1969-B
E1207	TR 401	DDBY403001	Transistor	2SD188-M
C1051	D 1, 2, 9, 21, 22, 42, 53	DDAY001004	Diode	IN60
E1006	D 407	DDAY002002	Diode	SRIK-2
E1007	D 3, 4, 5, 6, 7, 8, 10, 11, 12, 15, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40, 41, 43, 44, 48, 49, 50, 61, 62, 64	DDAY047001	Diode	1S1588
B1267	D 37	DDAY067001	Diode, Vari Cap	1S2687-D
D1705	D 13, 14	DDAY090001	Diode	MC 301
D1210	D 401	DDAY078001	Diode, LED	TLR 321
D1706	D 410, 411, 412	DDAY100001	Diode, LED	TLR 124
C1150	D 402	DDAY007001	Diode, LED	TLR 104
D1708	D 46	DDFY020001	Varistor	MV 1Y
D1709	D 47	DDFY021001	Varistor	MV 13YH
C1151	D 405	DDAY032001	Diode, LED	TLG103
D1394	D 408	DDAY066001	Diode	S5VB10
E1000	D 301	DDAY008001	Diode, Zenor	WZ061
E1001	D 302	DDAY009003	Diode, Zenor	BZ 162
C1194	L 1	LLAY038001	Coil	LA038
C1218	L 27	LLAY160001	Coil	LA160
D1345	L 2	LLAY179001	Coil	LA179
D1344	L 14	LLAY195001	Coil	LA195
D1710	L 13	LLAY216001	Coil	LA216
D1711	L 17, 19	LLAY217001	Coil	LA217
D1712	L 20	LLAY218001	Coil	LA218
D1713	L 26	LLAY219001	Coil	LA219

Computer No.	Symbol No.	Part No.	Description
D1714	L 28	LLAY220001	Coil LA220
D1715	L 29	LLAY254001	Coil LA254
D1716	L 3	LLAY255001	Coil LA255
D1717	L 18	LLAY256001	Coil LA256
D1718	L 6	LLAY257001	Coil LA257
D1719	L 7	LLAY258001	Coil LA258
D1720	L 8	LLAY259001	Coil LA259
D1721	L 9	LLAY260001	Coil LA260
D1722	L 10	LLAY261001	Coil LA261
D1723	L 5	LLAY262001	Coil LA262
D1724	L 4	LLAY263001	Coil LA263
E1155	L 36, 39	LLCY019001	Coil LC019
D1350	L 401, 402	LLDY013001	Coil LD013
C1204	L 50, 51, 52, 404, 405	LLDY077001	Coil LD077
D1580	L 31, 34	LLDY087001	Coil LD087
D1725	L 403, 406, 407, 408	LLDY089001	Coil LD089
D1726	L 30	LLDY096001	Coil LD096
D1727	L 33, 35	LLDY098001	Coil LD098
D1728	L 32	LLDY101001	Coil LD101
E1159	L 409, 410	LLDY027001	Coil LD027
C1203	L 37, 38	LLEY051011	Coil LE051
D1405	L 12, 25	LLZY012001	Inductor, Molded LZ012, 100uH
B1281	L 11, 15, 16, 21, 22, 23, 24	LLZY012004	Inductor, Molded LZ012 400uH
C1193	T401	TTFY143001	Transformer, Power TF 143
E1202	VR 8	RRVY189002	Res. Semi Fixed RV 189 500 ohm B
E1203	VR 2	RRVY189003	Res. Semi Fixed RV 189 1K ohm B
E1204	VR 3	RRVY189004	Res. Semi Fixed RV 189 3K ohm B
E1205	VR 6, 9	RRVY189010	Res. Semi Fixed RV 189 5K ohm B
E1206	VR 1, 5, 7	RRVY189005	Res. Semi Fixed RV 189 10K ohm B
D1776	VR 10, 12	RRVY189008	Res. Semi Fixed RV 189 100K ohm B
E1207	RT 301	RRVY146002	Res. Semi Fixed RV 146 300 ohm B
D1730	VR 403, S402	RRVY008001	10K ohm A VOLUME Resistor, Variable
D1731	VR 404	RRVY324001	Resistor Variable, 10K ohm B RF Gain
D1732	VR 401	RRVY126001	Resistor Variable, 100K ohm B Squelch
D1733	VR 402	RRVY139001	Resistor Variable, 20K ohm B Clarifier
E1208	VR 405	RRVY036001	Resistor Variable, 10K ohm A Mike Gain
B1206	CC 1	HHAY003001	Capacitor Array, HA 003
D1378	CT 1, 2, 3	CCVY028004	Capacitor, Trimmer CV028 20pF
B1217	X 1	QQXY077001	Crystal QX 007 10.24 MHz
C1152	X 3	QQXY083001	Crystal QX 083 7.7975 MHz
C1153	X 2	QQXY084001	Crystal QX 084 7.8025 MHz
D1734	X 4	QQXY098001	Crystal QX 098 11.1125 MHz
E1209		PPCY385014	PC-385AD Main PCB PC Board
E1210		PPCY395011	PC-395AA CH, SW PCB
E1211		PPCY460011	PC-460AA, CH, LED, PCB
E1212		PPCY459011	PC-459AA, Mic Jack PCB

Computer No.	Symbol No.	Part No.	Description
E1213		PPCY458011	PC-458AA Mode LED PCB
E1214		PPCY457011	PC-457AA Push SW PCB
E1215		PPCY461011	PC-461AA Phone Jack PCB
E1216		PPCY372011	PC-372AA Filter PCB
E1217		PPCY006052	PC-006EB PWR Supply PCB
E1218		PPCY401011	PC-401AA SP Jack PCB
D1737	FT-1	FFLY065001	Filter, Crystal FL 065
D1377	FT 2	FFLY046001	Filter, Crystal FL 046
D1738	S403	SSRY205001	Switch Rotary SR 205 (Mode)
D1739	S401	SSRY208001	Switch Rotary SR 208 (CH/SW)
E1219	S404, 405, 408	SSWY144001	Switch Push SW144 (PA, CB, NB/ANL, MOD)
E1220	S409	SSWY099001	Switch Slide SW099 (AC-DC, SW)
E1221	SP 401	ASPY050001	Speaker SP 050
E1222	M 401	ZMTY135001	Meter Mt 135
J1181		AMKY108001	Microphone MK-108
D1326		ZCKY007001	Clock, Digital CK 007
E1223	J 406	JJKY005002	Jack, Phone JK 005
E1224	J 401, 402	JJKY010001	Jack JK-010 PA SP, EXT. SP
C1131	J 403	JJKY052001	Receptacle, DC Power JK 052
E1225	J 405	JJKY068001	Connector, M Type, ANT, JK 068
E1226	J 404	JJKY107001	Jack, Microphone JK 107
E1227	PL 401	VPLY065001	Pilot Lamp PL 065 250m/m
E1228		ZFHY002001	Holder, Fuse FH 002
E1229	F 401, 402	ZFSY012006	Fuse 4 A FS012
E1230		WWZY022001	AC Power Cord WZ 022
E1231		WZDZ070273	DC Power Cord W070
E1232		MDPP306553	Display Box
E1233		MZPT509401	Owners Manual
E1234		MZPT509407	Schematic Diagram/Bill of Material