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## **Uniden AX44 Service Manual**

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## AX 44 Service Manual



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Specifications	
Sens. For 500mw Squelch Threshold Squelch Deep S-9 Frequency Range 26.96 Type Of Emission AF Power At 10% Distortion IF Band Width AF Output Impedance Adjacent Channel Rejection Transmitter:	khz 8 ohm
Frequency Tolerance Frequency Range 26.965mh Type Of Emission Output Impedance	% <u>†</u> 1350 h z

### Note:

All Transmitter Adjustments Must Be Performed By A FCC 1st Or 2nd Class Radiotelephone License Holder.

## Alignment of Receiver Portion

## 1. Equipment Required

- a. Signal Generator (27 MHz Band, 1000 Hz, 30% AM Modulation & Output Impedance 50 ohm)
- b. Audio VTVM
- c. Oscilloscope
- d. Dummy Load (80hm, 5 watts, resistive)
- e. DC Power Supply (13.8 V, 2 Amp.)

## 2. Procedure

Step	SG Connection Frequency	Preset to	Audio VTVM	Adjustment	Remarks
1.	To Ant. Connector J401 Channel 19 Freq: 27.185 MHz	VOL: MAX SQL: MIN ANL: OFF NB OFF	To EXT. SPK. Jack 403	L1,2,3,4, 5,6,7	Adjust for a max. Audio Output
2.	Same as step l	same as Step l	Same as step 1.	VR2	Adjust for 2 V output with SG output level of 0.4uV.
3.	Same as step l	VOL MAX SQL MAX ANL OFF NB OFF	Same as step l	VR4 (Squelch)	Adjust 2 V output with SG output level of 1000uV
4.	Same as step l	Same as step l	Same as Step 1	VRI	Adjust for a reading of S-9 on the S-meter of the Transceiver with SG output level of 100 uV

AX 44

EIAJ-35

Attachment D

Ref. FCC Part 2.983 (d) (9)

Tune-up Procedure

ALIGNMENT OF P.L.L. PORTION

(Refer to Attachment B)

## 1. Test Equipments Required

- a. Oscilloscope (0-50 MHz)
- b. DC Volt Meter (10 Volts maximum, 100K ohm/Volt)

## 2. Alignment Procedure

Step	Preset to	Connections	Adjustment	Remarks
1	TX Mode No Modulation Channel 40	DC Volt Meter to Pin No. 7 of IC3 (TP2)	L15	Adjust L15 to obtain approx. 3.0 V reading
2	TX Mode No Modulation Channel l	Oscilloscope to secondary of Ll6 (TP3)	L16	Adjust Ll6 for the maximum indica-tion on Oscilloscope

## Alignment of Transmitter Portion

## (for Transmitter Section)

## 1. Equipment Required

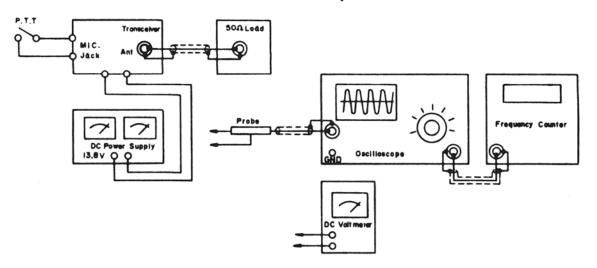
- a. VTVM (full scale· IV DC with RF Probe) b. RF Output Power Meter  $\,$
- c. Tunable Field Intensity Meter ( Wave Meter)d. Frequency Counter (0-30 MHz)
- e. DC Power Supply (13.8V/2-Amp.)
- f. 50 ohm load and Attenuator
- g. Oscilloscope (0-30 MHz)
- h. AF Oscillator

### 2. Procedure

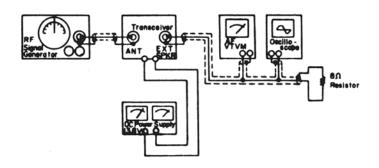
Step	Preset to	Condition	Alignment	Remarks
1.	TX Mode No Modulation Channel 19	RF Output Power Meter to ANT Jack J401 VTVM to TP4	L17,18	Adjust for a max. indication on VTVM
2.	Same as Step l	RF Output Power Meter to ANT Jack J401	L10,14	Adjust for a max. indication on RF Output Power Meter.
3.	Same as Step l	Same as Steo 2	L10	Adjust to obtain Nominal 3.8 W of RF Output Power.
4.				
5.		djustments, in order to dere made correctly.	confirm if	
6.	TX Mode Ch. 19 1 KHz 100mV applied to Mic. Input for MOD	Audio Generator to Microphone Jack J501 Oscilloscope to ANT. Jack J401 through a suitable load and attenuator.		Adjust for 95% Modulation
7.	Same as Step 1	RF Output Power Meter to Ant. Jack J401	VR3	Check that RF Output Power Meter reads 3.8 W then adjust VR3 so that the Meter pointer of the transceiver just approaches 3 to 4 mark.

		Э																20										
right	TX	С																19										
nm tes Bi		В																18			0							
* Indicates Bright		S	9.	1.6														17			7.0							
*07 #	RX	D	9.4	12.8														16			7.0							7
	R	G	0	0														15			0							
Laken with Channel 19		FET	-	2														14			7.0							
		_ 		8.6	8.6			0										13			7.0							
voltage Measurements Volt VTVM Or VOM	TX	C		8	12.0			1.8										12			9.							
ye Meas	H	щ		7.8	9.2			.2						Н				11			9.							
voitage Volt Vî		Э	5.0	8,6	8.6	2.8	9.9	0						Н				10	12.8		9.				-			+
All vo Per V		C	6.8	0	12.8	12.6	9.7	0	Н					Н		Н		6	6.8 13	8.4	2.9				-	$\vdash$		+
7 1	RX	В	5.2	9.2	9.5	3.3	2	.7						Н				8	0	4.6	0			-	-	-		+
44	-		_	9			18* 7	_	H			-	-	$\vdash$					$\vdash$	1.8	1.7			-	$\vdash$	$\vdash$		H
AX		TR	15	16	17	18	Ĩ	19	$\vdash$	_	_	_		7	4	80	0	7	0 0		2			-	-	$\vdash$		+
	×	Э		-		Н	H	_	Н	0 9	5 ! 0	9 1.1	_	8 2.7	8 1.4	3 .8		9	0 1.0	8.	2 3.	$\vdash$		$\vdash$	-	-	-	H
ch Ch.	TX	O			-			_		12.6	12.5	8.	_	2 5.8	2.8	2.3	0	2	1.0	4 0	8 3.2		_	-	L	$\vdash$	-	H
ctor Voltage Chart.		В	4.7		_			_		2	0	1.2		3.2	2.0	1.3	0	4	<u>.</u> .	2.4	6.8			L	L	_		4
Volta		ы	1.2	9.	0	1.1	0	0	(0)				9.	2.7	1.4			3	0	1,4	0			L	L	L		
ctor	RX	O	9.3	8.7	1.7	13.0	-:	1.2	(0)				5.5	5.8	2.8			2	6.3	2.2	2.8							
Semiconductor Voltage Chart. () Indicates Squelch Cl		В	1.9	1.2	9.	1.7	9.	0.	(9)				1.2	3.2	2.0			Pin 1	13.5	2.6	7.1							
Semi		TR	-	2	8	4	5	9	9	7	8	6	10	=	12	13	14	IC	-	2	3							

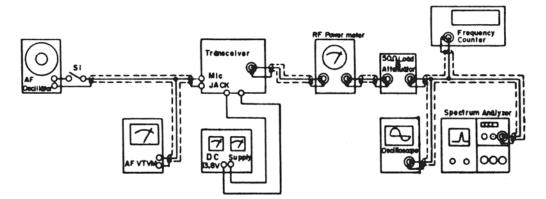
## **PLL Test Setup**

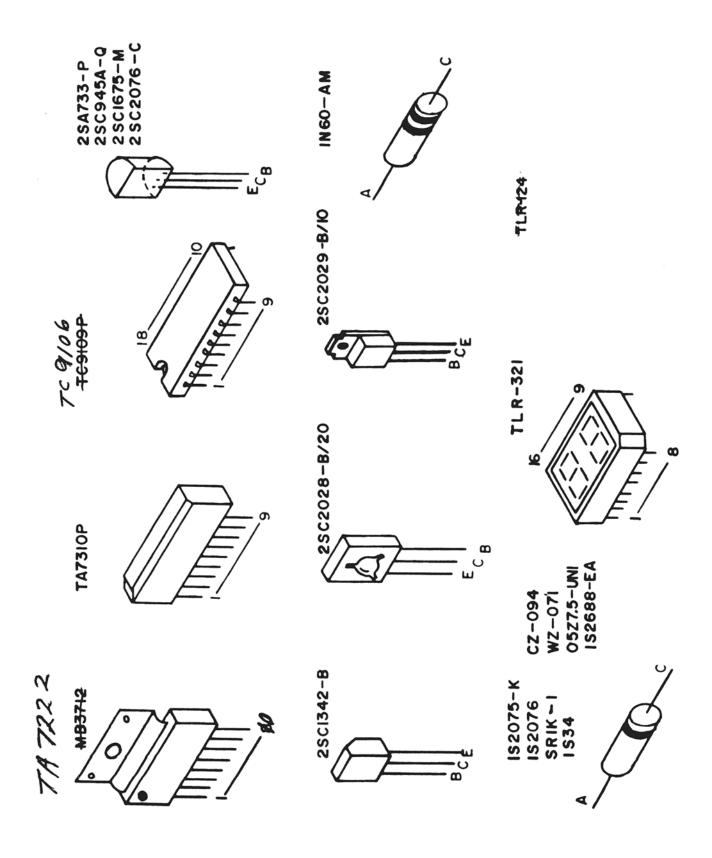


## **Receiver Test Setup**



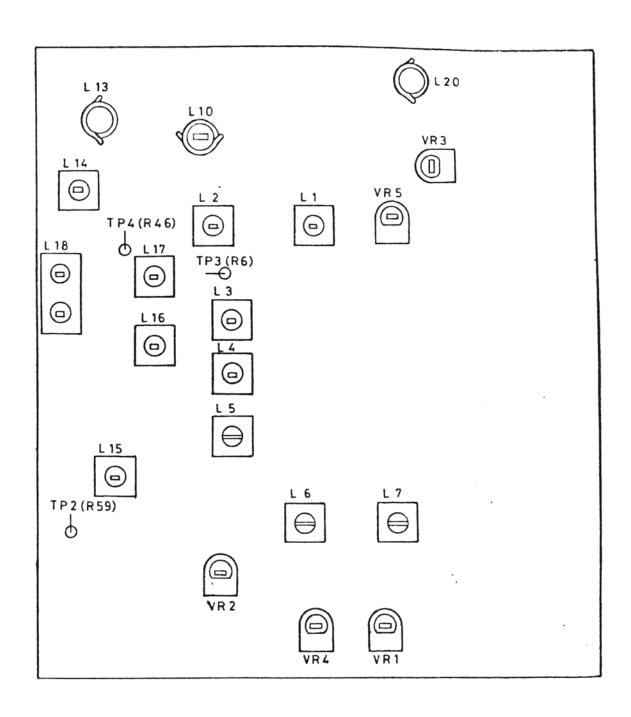
## **Transmitter Test Setup**

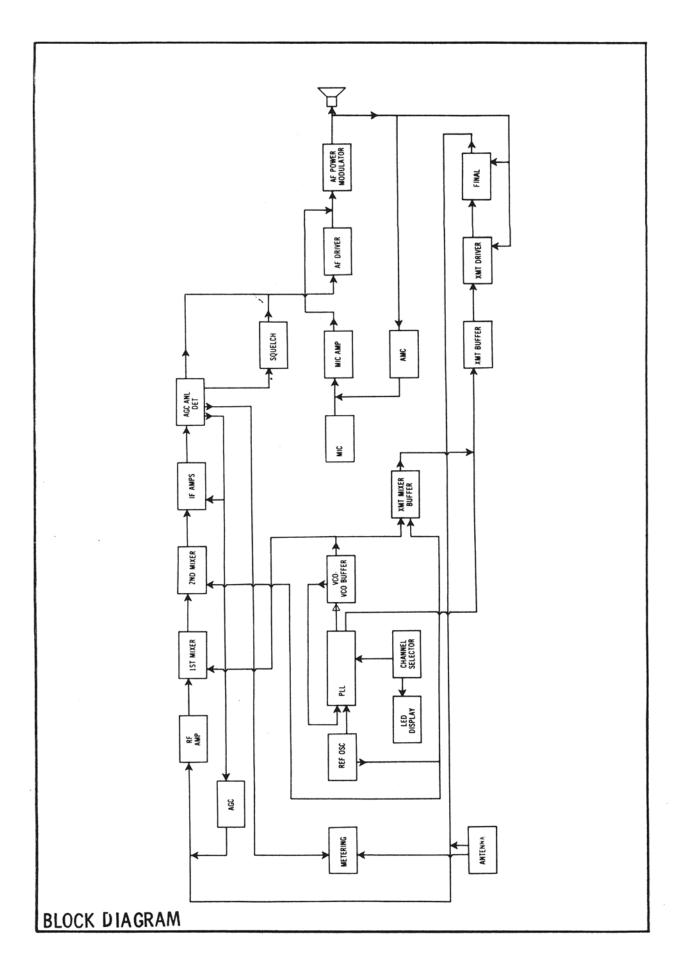


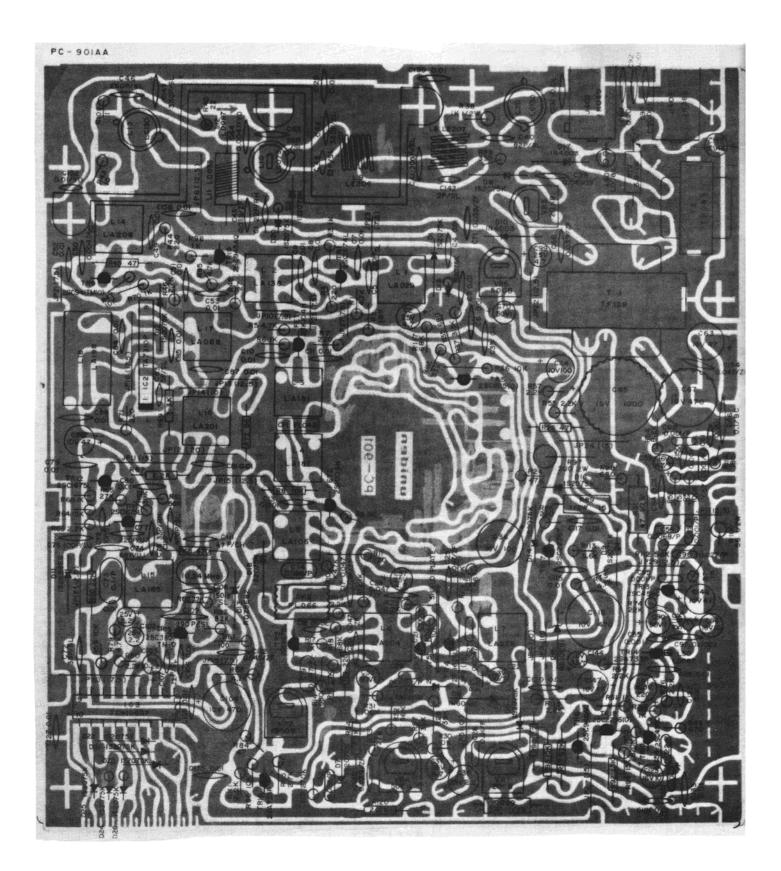


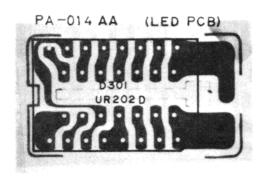
Channel			P	rogr	am C	ode			R/T-L	(Receive)	R/T=ll (Transmit)
Number	P0	Pl	P2	F3	P4	<b>P</b> 5	<b>P</b> 6	P7	N	$^{ m f}_{ m VCO}$	N fvco
I	0	0	0	0	0	0	0	0	3245	16.27	3345 16.725
2	C					O	O	O	3256	16.28	3347 16.735
3	O			O		O	O	O	3258	16.29	3349 16.745
4		O		S	O	O	O	O	3262	16.31	3353 16.765
4 5 6				C		O	O	O	3264	16.32	3355 16.775
		O				O	O	O	3266	16.33	3357 16.785
7	Q		$\circ$	O	O	O	O	O	3268	16.34	3359 16.795
8						O	O	O	3272	16.36	3363 16.815
9				O	O	O	O	O	3274	16.37	3365   16.825
10			O				O	O	3276	16.38	3367 16.835
11	O	O	O	O	O		O	O	3278	16.39	3369 16.845
12	O						O	O	3282	16.41	3373 16.865
13	O			O			O	O	3284	16.42	3375 16.875
14		O		O	O		O	O	3286	16.43	3377 16.885
15				O			O	O	3288	16.44	3379 16.895
16		O					O	O	3292	16.46	3383 16.915
17	O		O	O	O		O	O	3294	16.47	3385   16.925
18							O	O	3296	16.48	3387 16.935
19				O	O		O	O	3298	16.49	3389 16.945
20			O		O			O	3302	16.51	3393 16.965
21	O	O	O	O	O	O		O	3304	16.52	3395 16.975
22	O					O		0	3306	16.53	3397 16.985
23	O			0		O		O	3312	16.56	3403 17.015
24		O		O	O	O		O	3308	16.54	3399 16.995
25				O		O		O	3310	16.55	3401 17.005
26		O				0		O	3314	16.57	3405 17.025
27	O		O	O	O	O		O	3316	16.58	3407   17.035
28						O		O	3318	16.59	3409   17.045
29				O	O	O		O	3320	16.60	3411 17.055
30			O					O	3322	16.61	3413 17.065
31	O	O	O	O	O			O	3324	16.62	3415   17.075
32	O							O	3326	16.63	3417 17.085
33	O			O				O	3328	16.64	3419 17.095
34		O		O	O			O	3330	16.65	3421 17.105
35				O				O	3332	16.66	3423 17.115
36		O						O	3334	16.67	3425 17.125
37	O	_	О	O	O			O	3336	16.68	3427 17.135
38								O	3338	16.69	3429 17.145
39				O	O			O	3340	16.70	3431 17.155
40			O				O		3342	16.71	3433 17.165

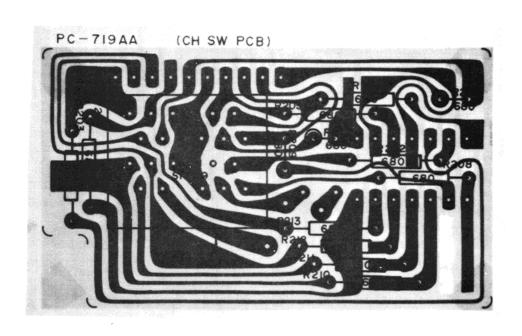
Rotary Switch  $P_O$   $P_7$  : None-mark is "ON", 0-mark is "Open" te)

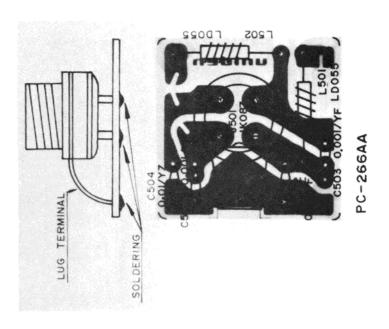












Part NO.	Generic NO.	Symbol	Description
3500-062	PC 719 AA		PC Board CH SW
3500-032	PC 266 AA		PC Board Mic Jack
2000-054	TA 7222AP	ICI	Integrated Circuit
2000-017	TA 7310 P	IC2	Integrated Circuit
2000-035	TC 9106 BP	IC3	Integrated Circuit
2000-107	2SK 104 - H	F E T 1,2	Field Effect Transistor
2000-218	2SA 733 - P	TR 14, 16	Transistor
2009-244	2SC 1815 - O	TR 5	Transistor
2000-258	2SC 945 A - Q	TR 6, 19	Transistor
2000-288	2SC 380 TM - O	TR 15	Transistor
2000-203	2SC 458 - C.	TR 10, 13	Transistor
2000-240	2SC 1674 - L	TR l	Transistor
2000-213	2SC 1675 - L	TR 2,3,4,11,12	Transistor
2000-249	2SC 2075	TR 7	Transistor
2000-207	2SC 2091	TR 8	Transistor
2000-247.	2SC 2236 - O	TR 18	Transistor
2000-248	2SC 2236 - Y	TR 17	Transistor
2000-246	2SC 941 TM-O	TR 9	Transistor
2000-303	IS 2075 - K	D1,2,5,7,8	Diode
2000-301	IN 60 - AM	D 4,6	Diode
2000-320	IN 4003	D 10, 17	Diode
2000-311	RD 7 5 E B 2	D 13	Diode Zener
2000-370	RD 10 E B 1	D 15	Diode Zener
2000-344	IS 2688 E B	D 11	Diode Vari-Cap
2000-343	TLRG 101	D 401	Diode LED
2000-306	UR 202 D	D 301	Diode LED
2000-347	TLR 124	D 402	Diode LED
2200-001	LA 029	Ll	Coil
2200-084	LA 088	L 17	Coil
2200-081	LA 106	L 5	Coil
2200-082	LA 138	L 2	Coil
2200-083	LA 165	L 15	Coil
2200-004	LA 181	L 3,4	Coil
2200-045	LA 198	L 18	Coil
2200-047	LA 201	L 16	Coil
2200-048	LA 204	L 6	Coil
2200-085	LA 208	L 14	Coil
2200-086	LA 276	L 7	Coil
2200-034	LC 073	L 10	Coil
2200-020	LC 130	L 13, 20	Coil
2200-017	LD 033	L 11	Coil
2200-083	LD 055	L 501,502	Coil
2200-052	LD 087	L 12,50	Ferrite Bead Core Ferrite Bead Core
2200-101	LD 088	L 401	Coil
2200-087	LE 206	L 9	
2200-548	LE 207	L 8 T 2	Coil Transformer AF Chock
2300-001 2600-001	TF 083	T l	Transformer Output
	TF 129 BV 182 500 B		R Semi-fixed
1900-205	RV 182 500 B RV 182 20KB	VR 2,5 VR 1,3	R Semi-fixed
1900-204 1900-153	RV 182 20KB RV 182 50KB	VR 1,3 VR 4	R Semi-fixed
1900-199	IV 102 JUND	VII 4	it belli-lined

Part No.	Generic No.	Symbol	Description
2200-301	FL 048	CF 1	Filter Ceramic
2200-302	FL 066	CF 2	Filter Ceramic
1900-322	3.9 ohm 1 WK	R 77	R Metal Film
1900-002	100 ohm 1/2 WK	R 99	R Carbon, Axial Lead
1900-040	2.2 ohm 1/8 WJ	R 90	R Carbon, Axial Lead
1900-008	56 ohm 1/8 WJ	R 72	R Carbon, Axial Lead
1900-010	220 ohm 1/8 WJ	R 19	R Carbon, Axial Lead
1900-012	470 ohm 1/8 WJ	R 68	R Carbon, Axial Lead
1900-014	680 ohm 1/8 WJ	R 201, 202, 205,	R Carbon, Axial Lead
		208, 210, 211, 212	
		213,214	
1900-043	2.7 K 1/8 WJ	R 46	R Carbon, Axial Lead
1900-015	1 K 1/8 WJ	R 6	R Carbon, Axial Lead
1900-016	1.5 K 1/8 WJ	R 92	R Carbon, Axial Lead
1900-018	2.2 K 1/8 WJ	R 67,120	R Carbon, Axial Lead
1900-019	3.3 K l/8 WJ	R 69	R Carbon, Axial Lead
1900-065	8.2 K l /8WJ	R 27	R Carbon, Axial Lead
1900-023	10 K 1/ <b>8</b> WJ	R 8, 59	R Carbon, Axial Lead
1900-024	15 K l/8 WJ	R 93	R Carbon, Axial Lead
1900-025	22 K 1/8 WJ	R 60	R Carbon, Axial Lead
1900-028	56 K 1/8 WJ	R 34	R Carbon, Axial Lead
1900-011	330 ohm 1/8 WJ	R 203	R Carbon, Axial Lead
1900-543	l ohm 1/8 WJ	R 108	R Carbon, Formed VERT
1900-006	10 ohm 1/8 WJ	R43	R Carbon, Formed VERT
1900-008	47 ohm 1/8 WJ	R 84	R Carbon, Formed VERT
1900-041	56 ohm 1/8 WJ	R 25	R Carbon, Formed VERT
1900-551	22 ohm 1/8 WJ	R 40	R Carbon, Formed VERT
1900-553	180 ohm 1/8 WJ	R 114	R Carbon, FormedVERT
1900-010	220 ohm 1/8 WJ	R 4,7,11,21, 44,71,88	R Carbon, Formed VERT
1900-009	100 1/8 WJ	R 81	R Carbon, Formed VERT
1900-011	330 ohml/8 WJ	R 39	R Carbon, Formed VERT
1900-012	470 ohm 1/8 WJ	R 49	R Carbon, Formed VERT
1900-014	680 ohm 1/8 WJ	R 14,98,35,206	R Carbon, Formed VERT
	2, 0	207, 209	1, 041301, 10111104 (2111
1900-015	1 K 1/8 W J	R 3, 9, 12, 17, 51	R Carbon, Formed VERT
		66,70,75,96,30	l
1900-018	2.2 K 1/8 WJ	R 13, 23, 55, 56, 5	57, R Carbon, Formed VERT
		63,76,80,111	
1900-043	2.7 K 1/8 WJ	R 85,82	R Carbon, Formed VERT
1900-019	3.3 K 1/8 WJ	R 37	R Carbon, Formed VERT
1900-020	4.7 K 1/8 WJ	R 1,5,10,58,	R Carbon, Formed VERT
1000 001	5 C V 1/0 WI	73,75,95	D Combon Formed VEDT
1900-021	5.6 K 1/8 WJ	R 110, 112, 113	R Carbon, Formed VERT
1900-065	8.2 K 1/8 WJ	R 54	R Carbon, Formed VERT
1900-023	10 K 1/8 W.I		86 R Carbon Formed VERT
1900-024	15 K 1/8 WJ	R 52,64,94	R Carbon, Formed VERT
1900 <b>-</b> 082 1900-025	18 K 1/8 WJ 22 K 1/8 WJ	R 2	R Carbon, Formed VERT
1900-025	22 K 1/8 WJ 27 K 1/8 WJ	R 28,74	R Carbon, Formed VERT
1900-026	33 K 1/8 WJ	R 16, 33, 65 R 116	R Carbon, Formed VERT R Carbon, Formed VERT
	47 K 1/8 WJ	R 116	R Carbon, Formed VERT
1900-027	41 IZ I\ O M O	N 24	it carbon, Formed VERT

Part No.	Generic No.	Symbol	Description
1900-028	56 K 1/8 WJ	R 32,61	R Carbon, Formed VERT
1900-045	68 K 1/8 WJ	R 18,117	R Carbon, Formed VERT
1900-083	270 K 1/8 WJ	R 15	R Carbon, Formed VERT
1900-084	820 K 1/8 WJ	R 50]	R Carbon, Formed VERT
1900-522	82 K 1/8 WJ	R 83	R Carbon, Formed VERT
1800-604	3.3 M 16 VM	C 144	C Tantalum
1800-616	4.7 M 16 VM	C 59	C Tantalum
1800-602	10 M 6.3 VM	C 22	C Tantalum
1800-302	1 M 50 V	C 30,90,70	C Electrolytic
1800-303	2.2 M 25 V	C 38, 101, 102	C Electrolytic
1800-303	4.7 M 25 V	C 2, 31, 37, 99	C Electrolytic
1800-306	10 M 16 V	C 94,123,155	C Electrolytic
1800-324	47 M 10 V	C 82,147,148	C Electrolytic
1800-324	47 M 16 V	C 63	C Electrolytic
1800-312	100 M 16 V	C 36	C Electrolytic
1800-312	100 M 10 V	C 114	C Electrolytic
1800-310	470 M 10 V		
1800-327		C 104,118 C 67	C Electrolytic
	470 M 16 V	C 65	C Electrolytic
1800-328	1000 M 16 V M		C Electrolytic
1800-502	0.22 M 16 VM	C 103	C Solid
1800-406	0.001 M 25 VM	C 21,57,62,89,9	
1800-419	0.002 M 25 VM	C 29,151	C Mylar
1800-419	0.0047 M 25 VM	C 27	C Mylar
1800-414	0.0068 M 25 VM	C 56	C Myalr
1800-402	0.01 M 25 VM	C 28	C Mylar
1800-408	0.022 M 25 VM	C 32, 54,96	C Mylar
1800-411	o. o47 M 25 VM	C 19	C Mylar
1800-405	0.068 M 25 VM	C 14, 510	C Mylar
1800 412	0.1 M 25 VM	C 73	C Mylar
1800-007	22 P 50 VKRH	C 1	C Ceramic
1800-005	33 P 50 VKRH	C 75	C Ceramic
1800-047	150 P 50 VKSL	C 108, 159	C Ceramic
1800-021	390 P 50 VKUJ	C 74	C Ceramic
1800-122	68 P 50 VKUJ	C 76	C Ceramic
1800-124	220 P 50 VKUJ	C 77	C Ceramic
1800-084	2 P 50 VCSL	C 142	C Ceramic
1800-045	5 P 50 VCSL	C 83	C Ceramic
1800-013	10 P 50 VCSL	C 78	C Ceramic
1800-031	33 P 50 VKSL	C 72, 402	C Ceramic
1800-014	22 P 50 VKSL	C 107,48	C Ceramic
1800-089	56 P 50 VKSL	C 45	C Ceramic
1800-039	220 P 50 VKSL	C 5	C Ceramic
1800-109	250 P 50 VKSL	C 46	C Ceramic
1800-040	330 P 50 VKSL	C 42, 149	C Ceramic
1800-074	470 P 50 VKSL	C 110,157	C Ceramic
1800-005	300 P 50 VKSL	C 41	C Ceramic
1800-148	0.01 M 50 VZYF	C3,4,6,7,8,	C Ceramic
		9,10,11,35,49,5	1,
		52,53,60,64,79	
		80,81,84,85,86,	
		87,98,105,106,	
		115,117,120,121,1	27,129
		130,131,133,135,	
		156,158,402,40	

Part No.	Generic No.	Symbol	Description
1800-701	0.1 M 25 VZBC	C 66	C Semiconductor
3000-155	SR - 319	S 201	Switch Rotary
3000-010	SW - 150	S 401, 403, 404	Switch Push
1900-130	RV 227 - 1 KB	VR 401	R Variable
1900-104	RV 320 - 50 KA	VR 403	F. Variable
1900-158	RV 241 - 50 KB	VR 402	R Variable
1900-131	RV 394 - 5 KA	VR 404	R Variable
3400-403	YD - 039	TA 7222 AP	Insulation sheet
3400-212	YD - 041	2 SC 2075	Insulation sheet
3400-212	YD - 032	2 SC 2091	Insulation sheet
3400-235	YD - 019		Bushing
1100-801	YY - 047		Clamper Wire
2100-013	QX - 074		Crystal
3100-009	SP - 057	SP 401	Speaker
2900-011	MT - 147	M 401	Meter
3200-005	MK - 221		Microphone
1100-002	JK - 068	J 401	Jack Antenna
1100-021	JK - 89	J 402,403	Jack Speaker
1100-003	JK - 052	J 405	Receptacle DC Power
2800-001	FS - 014 (2A)	F 401	Fuse
2700-001	W - 070088		DC Power Cord
3300-118			Cover Top
3300-160			Cover Bottom
3300-210			Mounting Bracket
3300-401			Hanger Microphone
3300-558			Shield Plate
1300-001			Knob Channel
1300=002			Knob
1300-003			Knob Core Push Button
1100-202			Screw Mounting
3400-018			Holder LED LED
1700-207			Label Serial No.
1600-004			Label Warning DC Cord
3400-128			Nameplate Control
3400-108			Optional Filter Display
1100-315			Washer Rubber
1100-702			Screw Pan Hd Plastic
1100-777			Screw Pan Hd Plastic
1100-708			Tapping Screw Round Hd
1100-709			Tapping Screw Round Hd
1100-725			Tap Tight Screw Bind Hd
1100-707			Tapping Screw Bind Hd
1100-711			Washer Lock
1100-712			Washer Star
1100-735			Nut Hex
1100-710			Nut Flange
1100-305			Spring Plate Knob
1100-311 1100-307			Rivet AL, ID Plate
1500-009			Terminal Lug, Solder
1500-009			Styrofoam Pad
1500-109			Styrofoam Pad
			Display Box
1600-191			Owners Instruction Manual
1600-201 1600-204			Warranty Card
1000-204			Emergency Card