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ROLAND
MODELS 5PL, 5P5-1, 5P5U-1

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TRADE NAME	Roland Models 5PL, 5P5-1, 5P5U-1					
MANUFACTURER	Roland Radio Corp., 12-30 Anderson Ave., Mt. Vernon, N. Y.					
TYPE SET	Three Power Portable AM Receiver					
TUBES (Four)	Types 1R5 Converter, 1U4 IF Amplifier, 1U5 Det-AVC-AF Amp., 3V4 Output					
POWER SUPPLY	105-125 Volts AC-DC (or) 7.5 Volts "A" Supply & 67.5 Volts "B" Supply					
RATING	.15 Amp. @ 117 Volts AC (or) 65MA @ 7.5 Volts DC & 6.5MA @ 67.5 Volts DC					
TUNING RANGE—BROADCAST	535KC - 1620KC					
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting. Loop should be maintained in same relative position to chassis as when receiver is in cabinet. Use battery power, if possible. If AC power is used, use an isolation transformer when available. If not, connect a .1MFD capacitor in series with low side of the signal generator and B-.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.01MFD	High side to pin 6 (grid) of 1R5 (V1). Low side to B-.	455KC (400% Mod)	Tuning gang fully open.	Across voice coil.	A1, A2, A3, A4	Adjust for maximum output. If AC power is used without an isolation transformer, reduce dummy antenna to 200MMF to reduce hum modulation.
	Loop	1620KC	"	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	"	1400KC	Tune to 1400KC signal.	"	A6	"

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PARTS LIST AND DESCRIPTIONS
 TUBES (GENERAL ELECTRIC, SYLVANIA)

ROLAND
 MODEL 5PL

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	Converter		1R5	V3	Det-AVC-AF Amp		1U5
V2	IF Amplifier		1U4	V4	Output		3V4

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	VOLT.	REPLACEMENT DATA				
			ROLAND PART No.	AEROVOX PART No.	CORNELL DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.
C1A	60	150		PR5150/25V	BBRT84215	WT240	
B	60	150		4040/100	BRH251		
C	100	25					

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	VOLT.	REPLACEMENT DATA				
			ROLAND PART No.	AEROVOX PART No.	CORNELL DUBILIER PART No.	ERIE PART No.	MALLORY PART No.
C2	.05	200		BDP-05	DF-503	CU3285	
C3	1	1000		NFO-SIL 5	TCZ-1R5	TZ204	
C4	2	27		BDP-01	DD-103	K062	
C5	220	27		DL-00022	DD-221	G051	
C6	220	2000		BDP-002	DD-202	K072	
C7	10000			BDP-01	DD-103	K062	
C8	10000			P2268N-1	DF-104	CU3291	
C9	.047	200		BDP-05	DF-503	CU34547	
C10		400					

CONTROLS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA			INSTALLATION NOTES
			ROLAND PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	
R1	1Meg	$\frac{1}{2}$		VC-82		Volume

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING OHMS	WATT	REPLACEMENT DATA		NOTES
			ROLAND PART No.	IRC PART No.	
R2	100K			BTS-100K	
R3	15K			BTS-15K	
R4	680Ω			BTS-680	
R5	3.3Meg 5%			BTS-3.3Meg 5%	

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA			NOTES
		ROLAND PART No.	Holidenon PART No.	Merit PART No.	
T1	8000Ω 3-4Ω	TR-108		A-2927 (1)	(1) Bend ears under.

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		ROLAND PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L1	Loop Stick					
L2	Osc. Coil	LPFE21-1	14-1073			
L3	Input IF	LF-62	16-6800	BC-358	10-C1	
L4	Output IF	LF-62	16-6801	BC-359	10-C2	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	ROLAND PART No.	REPLACEMENT DATA
K1	IF Grid Filter	10Meg 1000MMF		
K2	Detector-Audio Net	4.7Meg 1Meg 3.3Meg 10Meg 200MMF 1000MMF 150MMF 150MMF 5000MMF		
				Aerovox Centralab Sprague

SELENIUM RECTIFIER

ITEM No.	RATING CURRENT	REPLACEMENT DATA			NOTES
		ROLAND PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	
M1	.060A		1386	RS065Q	

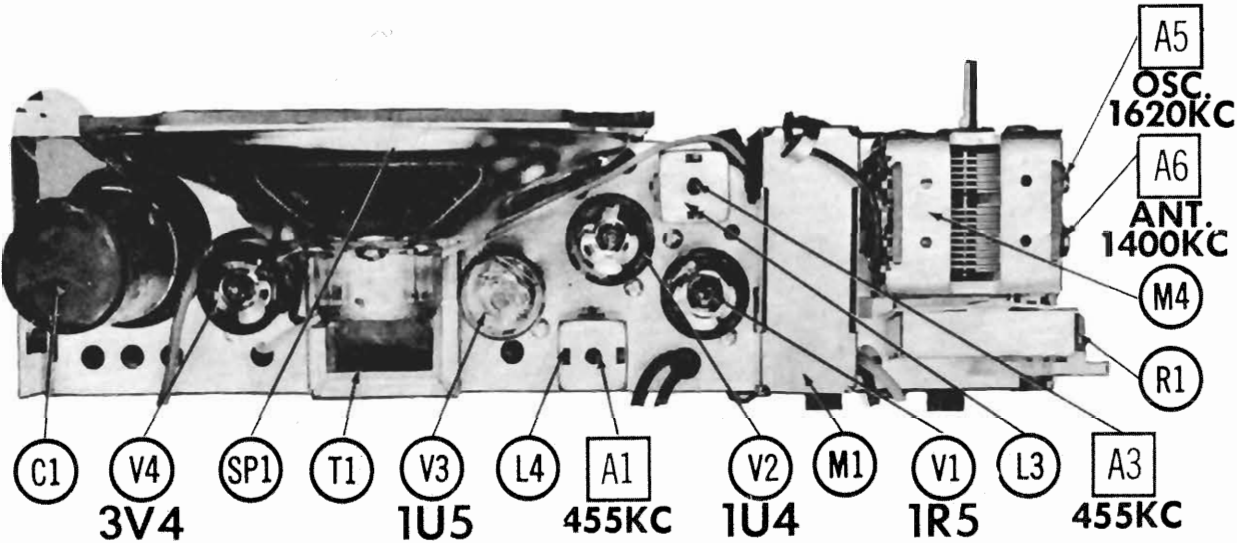
BATTERIES

ITEM No.	VOLTAGE	ROLAND PART No.	REPLACEMENT DATA			INSTALLATION NOTES
			EVEREADY	"A"	"B"	
M2	7 1/2V "A"		T17	C5	P45	
M3	67 1/2V "B"					

MISCELLANEOUS

ITEM No.	PART NAME	ROLAND PART No.	NOTES
M4	Tuning Cap.	CV-74	
M5	Switch		
M6	Switch		

CHASSIS—TOP VIEW



CHASSIS—BOTTOM VIEW

