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## ALIGNMENT-RECEIVER

### A. EQUIPMENT REQUIRED:

- a) Signal Generator: 27MHz Band.  
1.000Hz, 30% AM Modulation and  
Output Impedance 50 ohm.
- b) AF Output Meter (V. T. V. M.)
- c) Power supply (DC 13.8V)
- d) Dummy load (8 ohm, 5 watts, Resistive)

### B. PROCEDURE:

Remarks: Warm up the unit and test equipments at least 15 minutes before starting alignment.

Output level: Keep signal generator output low enough to prevent AGC overload.

(Below approx. 2 volts on output meter)

Step	SG Connection & Frequency	Set Condition	Output Meter Connection	Adjustment	Remarks
1.	To antenna jack (J1). Freq: 27.115MHz	SQ: Min. VOL: Max. DELTA TUNE: 0 ANL: OFF	To EXT. SP. jack (J3).	T1, 2, 3, 4, 6, 7 and T8.	Adjust for max. point
2.	Same as Step 1. and output level: 0.5 $\mu$ V	Same as Step 1.	Same as Step 1.	VR 4.	Adjust for 2V AF output.
3.	Same as Step 1. and output level 300 $\mu$ V	SQ: Max. VOL: Max. ANL: OFF	Same as Step 1.	VR 4.	Adjust for a open squelch point.
4.	Same as Step 1. and output level: 100 $\mu$ V	Same as Step 1.	Same as Step 1.	VR 3.	Adjust for "S-9" on "S" meter of the unit.
5.	Repeat the above adjustments, in order to make sure that adjustments have been made correctly.				

## TRANSISTOR VOLTAGE CHART

TR No	Rx			Tx			PA		
	B	E	C	B	E	C	B	E	C
1	1.2	0.6	5.2	0.2	0.1	0.6	0.2	0	0.6
2	1.2	0.6	9.1	0.2	0	9.2	0.2	0	9.2
3	2.4	2.0	12.3	2.4	2.0	12.3	0	0	0
4	1.2	0.6	9.1	0	0	9.2	0	0	9.2
5	1.3	0.7	4.9	0.2	0	0.6	0.2	0	0.6
6	1.2	0.5	9.2	1.2	0.5	9.2	1.2	0.5	9.2
7	1.2	0.5	9.2	1.2	0.5	9.2	1.2	0.5	9.2
8	0.6	0	7.8	0.05	0	7.8	0.05	0	7.8
9	1.8	1.2	3.7	1.8	1.2	3.7	1.8	1.2	3.7
10	2.1	1.5	10.5	2.2	1.5	10.5	2.2	1.5	10.5
11	0.6	0.05	13.4	0.6	0.05	13.4	0.6	0.05	13.4
12	0.6	0.05	13.4	0.6	0.05	13.4	0.6	0.05	13.4
13	3.6	5.5	13.2	2.1	2.2	9.9	0	0	0
14	1.3	0.4	12.5	1.3	0.4	12.5	0	0	0
15	1.8	5.5	13.5	1.4	1.1	13.5	0	0	0
16		0	13.4		0	12.4		0	13.4
17		0	13.4		0	12.4		0	13.4
18		0	13.4		0	5.5		0	13.4

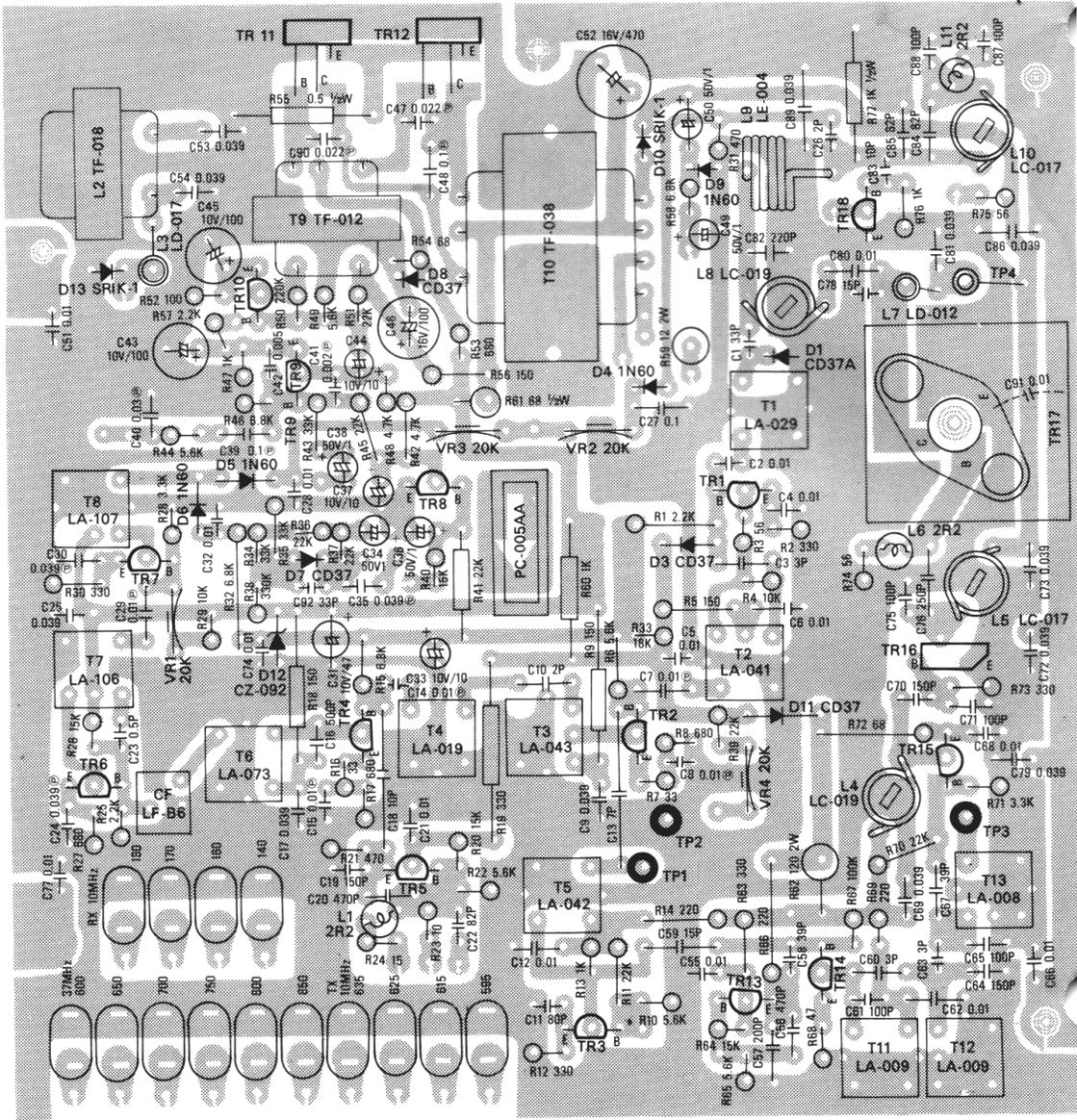
NOTE: 1. In PA mode the PTT switch should be depressed when making measurements.

2. B: Base E: Emitter C: Collector

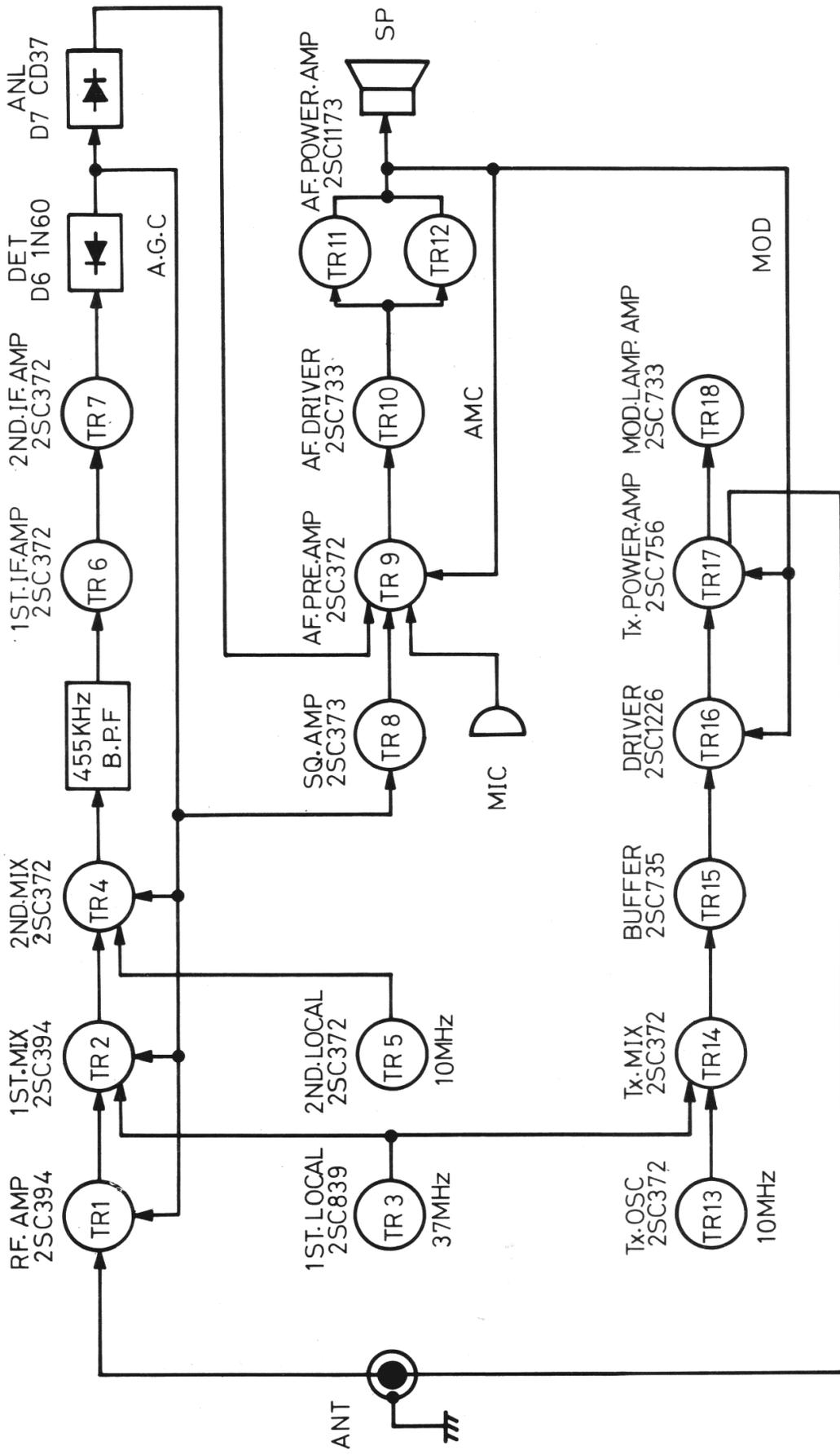
3. Operating Voltage: 13.8V

4. Unit: V

# PC BOARD DETAIL



# BLOCK DIAGRAM



## SECTION 5 REPLACEMENT PARTS

### CAPACITORS

SYMBOL	DESCRIPTION
C-1,92	33pF 50V, Ceramic
C-2,4,5,6,12,21,28,32,51,55, 62,66,68,74,77,80,91	0.1 $\mu$ F 25V, Ceramic
C-3,60,63	3pF 50V, Ceramic
C-7,8,14,15,29	0.1 $\mu$ F 50V, Ceramic
C-9,17,25,53,54,69,72,73,79, 81,86,89	0.039 $\mu$ F 25V, Ceramic
C-10,26	2pF 50V, Ceramic
C-11,22,84,85	82pF 50V, Ceramic
C-13	7pF 50V, Ceramic
C-16	500pF 50V, Ceramic
C-18,83	10pF 50V, Ceramic
C-19,64,70	150pF 50V, Ceramic
C-20,56	470pF 50V, Ceramic
C-23	0.5pF 50V, Ceramic
C-24,30,35	0.039 $\mu$ F 50V, Mylar
C-27	0.1 $\mu$ F 12V, Ceramic
C-31	47 $\mu$ F 10V, Electrolytic
C-33,37,44	10 $\mu$ F 10V, Electrolytic
C-34,36,38,49,50	1 $\mu$ F 50V, Electrolytic
C-39,48	0.1 $\mu$ F 50V, Mylar
C-40	0.033 $\mu$ F 50V, Mylar
C-41	0.0022 $\mu$ F 50V, Mylar
C-42	0.0047 $\mu$ F 50V, Ceramic
C-43,45	100 $\mu$ F 10V, Electrolytic
C-46	100 $\mu$ F 16V, Electrolytic
C-47,90	0.022 $\mu$ F 50V, Mylar
C-52	470 $\mu$ F 16V, Electrolytic
C-57	200pF 50V, Ceramic
C-58,67	39pF 50V, Ceramic
C-59,78	15pF 50V, Ceramic
C-61,65,71,75,87,88	100pF 50V, Ceramic
C-76	250pF 50V, Ceramic
C-82	220pF 50V, Ceramic

## REPLACEMENT PARTS

### RESISTORS

SYMBOL	DESCRIPTION
R-1,25,57	2.2K Ohm $\frac{1}{4}$ W, Carbon
R-2,12,30,63,73	330 Ohm $\frac{1}{4}$ W, Carbon
R-3,74,75	56 Ohm $\frac{1}{4}$ W, Carbon
R-4,29	10K Ohm $\frac{1}{4}$ W, Carbon
R-5,56	150 Ohm $\frac{1}{4}$ W, Carbon
R-6,10,22,44,49,65	5.6K Ohm $\frac{1}{4}$ W, Carbon
R-7,16	33 Ohm $\frac{1}{4}$ W, Carbon
R-8,17,27,53	680 Ohm $\frac{1}{4}$ W, Carbon
R-9,18	150 Ohm $\frac{1}{4}$ W, Carbon
R-11,36,37,39,45,51,70	22K Ohm $\frac{1}{4}$ W, Carbon
R-13,47,76	1K Ohm $\frac{1}{4}$ W, Carbon
R-14,66,69	220 Ohm $\frac{1}{4}$ W, Carbon
R-15,32,46,58	6.8K Ohm $\frac{1}{4}$ W, Carbon
R-19	330 Ohm $\frac{1}{4}$ W, Carbon
R-20,26,40,64	15K Ohm $\frac{1}{4}$ W, Carbon
R-21,31	470 Ohm $\frac{1}{4}$ W, Carbon
R-23	10 Ohm $\frac{1}{4}$ W, Carbon
R-24	15 Ohm $\frac{1}{4}$ W, Carbon
R-28,71	3.3K Ohm $\frac{1}{4}$ W, Carbon
R-33	18K Ohm $\frac{1}{4}$ W, Carbon
R-34,35,43	33K Ohm $\frac{1}{4}$ W, Carbon
R-38	330K Ohm $\frac{1}{4}$ W, Carbon
R-41	22K Ohm $\frac{1}{4}$ W, Carbon
R-42,48	4.7K Ohm $\frac{1}{4}$ W, Carbon
R-50	220K Ohm $\frac{1}{4}$ W, Carbon
R-52	100 Ohm $\frac{1}{4}$ W, Carbon
R-54,72	68 Ohm $\frac{1}{4}$ W, Carbon
R-55	0.5 Ohm $\frac{1}{2}$ W, Metal-covered
R-59	12 Ohm 2 W, Metal-covered
R-60	1K Ohm $\frac{1}{4}$ W, Carbon
R-61	68 Ohm $\frac{1}{2}$ W, Solid
R-62	120 Ohm 2 W, Metal-covered
R-67	100K Ohm $\frac{1}{4}$ W, Carbon
R-68	47 Ohm $\frac{1}{4}$ W, Carbon
R-77	1K Ohm $\frac{1}{2}$ W, Solid

## REPLACEMENT PARTS

### TRANSISTORS

SYMBOL	DESCRIPTION
TR-1	2SC394 RF Amplifier
TR-2	2SC394 1st Receiver Mixer
TR-3	2SC839 37 MHz. 1st Local
TR-4	2SC372 2nd Receiver Mixer
TR-5	2SC372 10 MHz. 2nd Local
TR-6	2SC372 455 KHz. IF Amplifier
TR-7	2SC372 455 KHz. IF Amplifier
TR-8	2SC373 Squelch Amplifier
TR-9	2SC372 1st AF Amplifier
TR-10	2SC733 2nd AF Amplifier
TR-11	2SC1173 AF Power Amplifier
TR-12	2SC1173 AF Power Amplifier
TR-13	2SC372 Transmit Oscillator
TR-14	2SC372 Transmit Mixer
TR-15	2SC735 Transmit Buffer
TR-16	2SC1226 Transmit Driver
TR-17	2SC756 Transmit Final
TR-18	2SC733 Modulation Lamp Amplifier

### DIODES

SYMBOL	DESCRIPTION
D-1	CD37A Receiver AF Amplifier Protector
D-3	CD37 Mode Switching
D-4	1N60 Transmit Power Meter Detector
D-5	1N60 S Meter Detector
D-6	1N60 Detector
D-7	CD37 ANL Gate
D-8	Varistor
D-9	1N60 AMC Detector
D-10	SR1K-1 Modulation Stabilizer
D-11	CD37 Mode Switching
D-12	CZ-092 Receiver Voltage Regulator
D-13	SR1K-1 Protector

### INDUCTANCE

SYMBOL	DESCRIPTION
L-1,6,11	2R2, Micro Inductor
L-2	TF-018, Choke Transformer

## REPLACEMENT PARTS

SYMBOL	DESCRIPTION
T-3	TC-71095, Coil
T-8	TC-71025, Coil
T-10	TC-71023, Coil
L-7	TC-71029, Coil
L-9	TC-71031, Coil
T-1	TKXN-22160BU, Coil
T-2	TKXC-22534BU, Coil
T-3	TKAC-22536, Coil
T-4	TKAC-21165A, Coil
T-5	TKXC-22535BM, Coil
T-6	YEN-20844BM, Coil
T-7	YOC-15001F, Coil
T-8	YMC-15002A, Coil
T-9	TF-012, Input Transformer
T-10	TF-038, Output Transformer
T-11,12	KXN-13638HM, Coil
T-13	KXN-13636BM, Coil

## VARIABLE RESISTORS

SYMBOL	DESCRIPTION
VR-1,2,3,4	20K Ohm, 2P 6BM, Semi-fixed
VR-5	5K Ohm (B), Variable
VR-6	10K Ohm (A), Variable with switch

## CRYSTALS

SYMBOL	DESCRIPTION
X-1	QX-009 37.600 MHz
X-2	QX-009 37.650 MHz
X-3	QX-009 37.700 MHz
X-4	QX-009 37.750 MHz
X-5	QX-009 37.800 MHz
X-6	QX-009 37.850 MHz
X-7	QX-005 10.180 MHz
X-8	QX-005 10.170 MHz
X-9	QX-005 10.160 MHz
X-10	QX-005 10.140 MHz
X-11	QX-006 10.635 MHz

## REPLACEMENT PARTS

SYMBOL	DESCRIPTION
X-12	QX-006 10.625 MHz
X-13	QX-006 10.615 MHz
X-14	QX-006 10.595 MHz

## MISCELLANEOUS PARTS

Ceramic Filter LF-B6  
Crystal Socket SK-001  
Slide Switch SW-023  
Rotary Switch SR-046  
Rotary Switch SR-050  
Speaker SP-004  
S/RF Meter MT-018  
Antenna Connector M-R  
Microphone Plug SM-144  
Microphone Jack JK-001  
DC Power Cord Receptacle  
Inline Fuse Holder  
Fuse 2 Amp.  
Pilot Lamp 14V 50mA, Clear  
Pilot Lamp 8V 80mA, Yellow  
Pilot Lamp 4.5V 40mA, Red  
Microphone  
Front Panel, ABS  
Metal Cabinet  
Metal Chassis  
Mounting Cradle  
Channel Selector Knob  
Channel Number Disc  
Power On-Off/Volume Control Knob  
Squelch Control Knob  
Receiv-O-Slide Control Knob  
Brand Plate, Woodgrain  
Front Plate, Silver Hairline Finish  
Microphone Plate  
FCC Plate  
Set Screw For Mounting Cradle  
Set Screw For Cabinet  
Styrofoam Box

## FACTORY WARRANTY POLICY

This electronic equipment, manufactured by Pearce-Simpson, Inc., is warranted in accordance with the following terms and conditions —

A. PEARCE-SIMPSON, INC. WILL:

Replace any defective part of this equipment during the 90 day period following purchase.

Repair, at our factory, without charge, this equipment, if a defect develops during the first 90 days following purchase. (This repair service is free only at the factory. No reimbursements can be made for non-factory repair charges.)

B. THE PURCHASER WILL:

Return the warranty registration card within 10 days of purchase.

Pay all transportation charges involved when equipment is returned for factory repair, provide information regarding nature of failure, and accept freight collect shipment of repaired equipment.

The above is void if equipment is modified or repaired without authorization, subjected to misuse, abuse, accident, water damage or other neglect, or has its serial number defaced or removed, or if more than 18 months has elapsed since factory shipment date to dealer.

No obligation is assumed by Pearce-Simpson, Inc., to update previously manufactured equipment.

This warranty is in lieu of all other warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with the sale of our products.

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