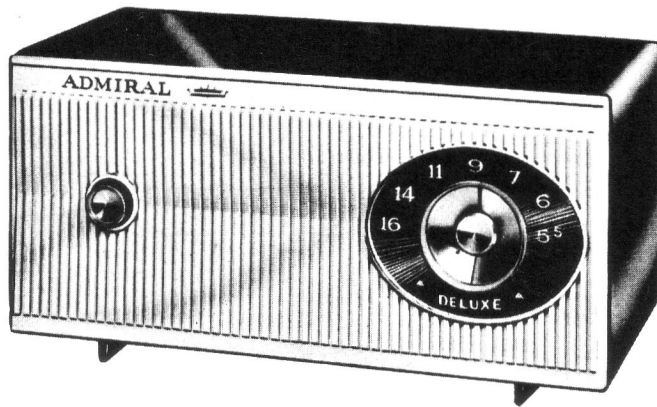


ADMIRAL

RADIO 5P5X CHASSIS



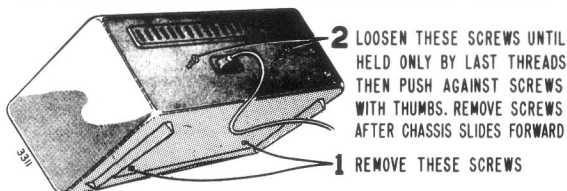
SPECIFICATIONS

- ANTENNA:** Built-in loop, or Ferrite Rod.
- CIRCUIT:** Superheterodyne using 5 miniature tubes.
- FREQUENCY RANGE:** Standard broadcast band: 535 to 1620 KC.
- INTERMEDIATE FREQUENCY:** 455 KC.
- POWER SUPPLY:** 117 volts, 60 cycles, AC or DC.
- POWER CONSUMPTION:** 30 watts.
- SPEAKER:** 4" PM with Alnico V magnet. Voice coil impedance, 3.2 ohms.

GENERAL

All components, except the speaker (with output transformer) and the antenna rod, (or loop) are mounted on an etched circuit board. The use of etched circuitry provides an efficient, compact and practically trouble free receiver.

TO REMOVE CHASSIS FOR SERVICING TUBES



Rear View of Cabinet Showing Chassis Mounting Screws.

MODEL	COLOR	CHASSIS
Y3012X	Coral and White	5P5X
Y3016X	Yellow and White	
Y3019X	Grey and White	

The cabinet is removed as shown in figure, the front panel is part of the chassis assembly.

COMPONENT REPLACEMENT

Defective resistors and capacitors should be removed by clipping leads as close to the unit as possible then the new part neatly soldered to the old leads. If any resistor or capacitor is found inconvenient to replace

on the top side of board, it is permissible to solder component on the rear of the board.

If a unit such as the oscillator coil or IF transformer is to be replaced, first remove old part by heating the mounting lugs with a pencil type soldering tool (35 watts or less) and straighten with pick and long nose pliers. Brush away any loose solder with a stiff glue brush. Before inserting new unit make certain all lug holes are free of solder, to prevent damage to wiring or component or both.

SERVICE HINTS

When taking voltage or resistance measurements, use test prods with needle points to avoid short circuits between sections of the circuit wiring.

An open or damaged section of the etched wiring may be repaired by soldering a short jumper wire across the break.

VOLTAGE DATA

- All readings made between tube socket terminals and common ground.
 - Dial turned to low frequency end; volume control
- at minimum.
 - Line voltage 117 Volts AC.
 - All voltages measured with vacuum-tube voltmeter.

ALIGNMENT PROCEDURE

- Use an isolation transformer if available; otherwise, connect a .1 mfd. capacitor in series with low side of signal generator and connect to etched circuit ground (see figure 5).
 - Set volume control full on.
 - Connect output meter across output secondary. For best results disconnect voice coil and use a 3.2 ohm load.
- Use lowest setting of signal generator capable of producing adequate indication on lowest scale of output meter.
 - Use a non-metallic alignment tool with a blade 3/32" wide for aligning IF transformers.
 - Repeat adjustments to insure good results.

STEP	CONNECTION OF SIGNAL GENERATOR	SIGNAL GENERATOR FREQUENCY	RECEIVER GANG SETTING	ADJUSTMENT
1	Through a .1 mf capacitor to stator, Antenna section of gang tuning capacitor	455 KC	Gang fully open	**"A", "B", *"C" and "D" for maximum output
2	Same as "STEP 1"	1620 KC	Gang fully open	"E" for maximum output
3	Use a radiated signal. Loop of several turns of wire, or place generator lead close to receiver loop or rod for adequate signal pickup.	1400 KC	Tune in on generator signal	"F" for maximum output

*Adjustments "A" and "C" made from underside of chassis; see figure.

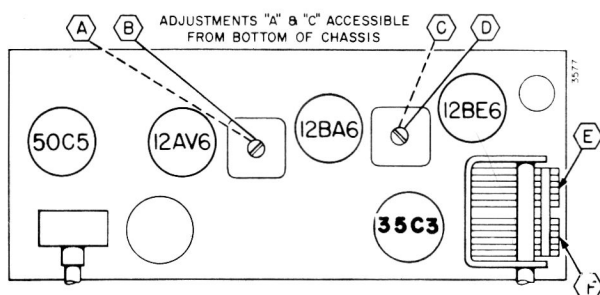


Figure Top View of Chassis Showing Tube and Alignment Points Locations.

VOLTAGE PRECAUTION

DO NOT CONNECT AN EARTH GROUND WIRE TO THE RECEIVER.

The chassis of this receiver is connected directly to one side of the power line. To prevent damage to test equipment or to etched wiring, do not place chassis directly on a metal bench, or other metal objects.

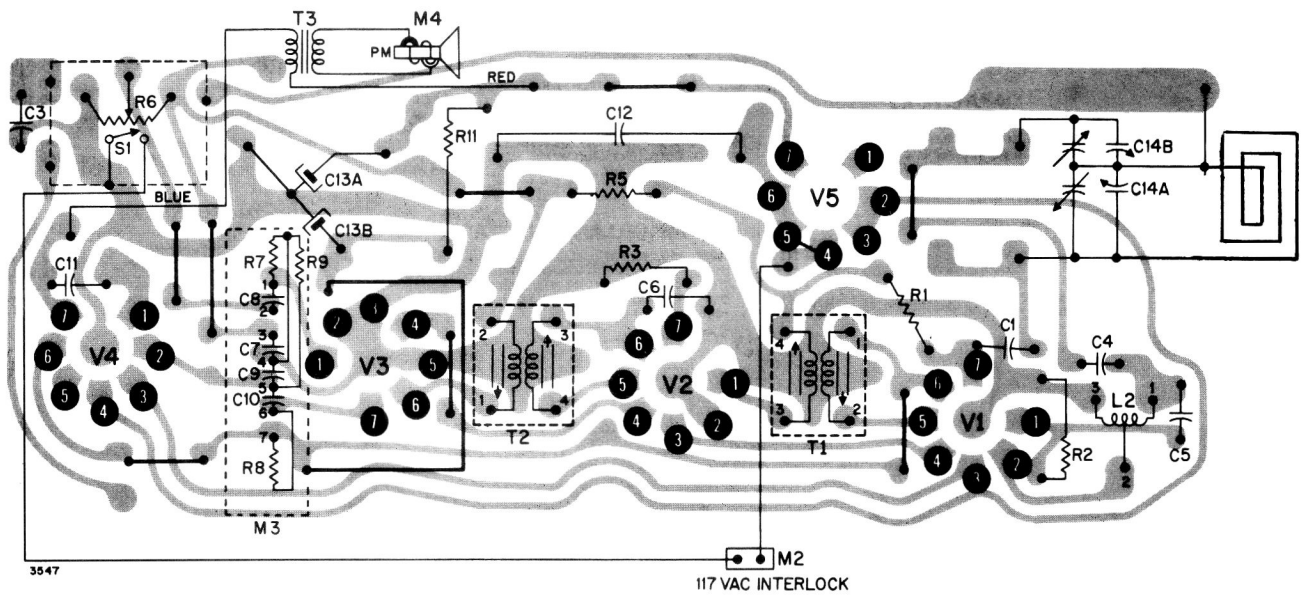
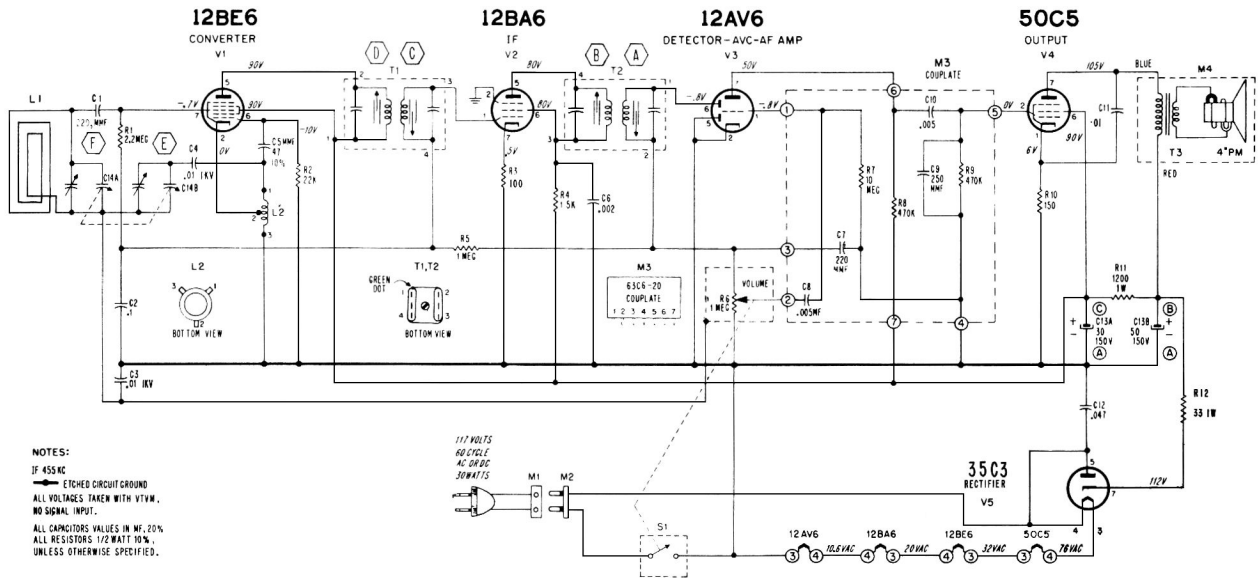


Figure 5. Bottom View of Etched Circuit Board. Gray area represents etched wiring; black symbols and lines represents components and connections on opposite side.

5P5X PARTS LIST

RESISTORS

Sym.	Description	Part No.
R1	Res. 2.2 meg, $\frac{1}{2}W$, 10%.....	60B8-225
R2	Res. 22K ohm, $\frac{1}{2}W$, 10%.....	60B8-223
R3	Res. 100 ohm, $\frac{1}{2}W$, 10%.....	60B8-101
R4	Res. 1.5K ohm, $\frac{1}{2}W$, 10%.....	60B8-152
R5	Res. 1 meg ohm, $\frac{1}{2}W$, 10%.....	60B8-105
R6	VolumeControl.....	75C56-1
R7	10 meg ohm.....	Part of M3
R8	470K ohms.....	Part of M3
R9	470K ohms.....	Part of M3
R10	Res. 150 ohm, $\frac{1}{2}W$, 10%.....	60B8-151
R11	Res. 1.2K ohm, 1W, 10%.....	60B14-122
R12	Res. 33 ohm, 1W, 10%.....	60B14-330

CAPACITORS

C1	Cond. 220 mmfd, 500V.....	65D10-83
C2	Cap. .1 mfd, 400V.....	64L6-26
C3	Cond. .01 mfd, GMV, 1KV.....	65M1-3
C4	Cond. .01 mfd, GMV, 1KV.....	65M1-3
C5	47 mmfd, 20%, 500V.....	65D10-198
C6	Cond. .002 mfd, 500V.....	65D10-125
C7	220 mmfd.....	Part of M3
C8	.005 mfd.....	Part of M3
C9	250 mmfd.....	Part of M3
C10	.005 mfd.....	Part of M3
C11	.01 mfd, 500V.....	65D10-41
C12	.047 mfd, 20%, 400V.....	64L6-28
C13A	30 mfd, 150V Electrolytic.....	67B39-1
C13B	50 mfd, 150V Electrolytic.....	67B39-1
C14A	326.8 mmfd Gang.....	68C76-4
C14B	102.1 mmfd	

COILS

L1	Loop Antenna.....	69C242-3
L2	Coil, Oscillator.....	69A217-6

TRANSFORMERS

Description	Part No.
T1 Transformer I. F.....	72C170-5
T2 Transformer I. F.....	72C170-4
T3 Output Transformer.....	Part of M4

MISCELLANEOUS

M1 Line Cord & Plug.....	89B62-4
M2 A.C. Interlock Plug.....	88W36
M3 Couplate, Audio.....	63C6-20
M4 Speaker Assembly (includes T3 Output Transformer).....	78B142-3
S1 Switch, On-Off.....	Part of R6

MISCELLANEOUS CHASSIS PARTS

Bracket, Antenna Mtg.....	15B1665-1
Tube Socket, Min., 7 Pin (for Mtg. 50C5, 35C3).....	87D35-13
Tube Socket, Min., 7 Pin (With Gnd. Strap) (for mtg. 12BE6, 12AV6).....	87D35-14
Tube Shield, 7 Pin (Shields 12BE6, 12AV6).....	87B52-2

CABINET PARTS

Knob, Tuning.....	33C415-1
Knob, Off-On-Vol.....	33C415-2
Cabinet Front, White.....	34D164-1
Cabinet, Grey (Y3019X).....	34D129-42
Cabinet, Coral (Y3012X).....	34D129-38
Cabinet, Yellow (Y3016X).....	34D129-39
Operating Instructions.....	41L15-2

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