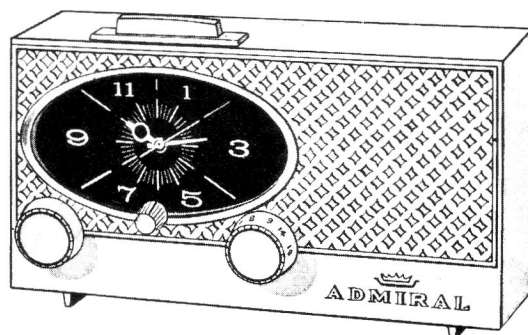


ADMIRAL

CLOCK RADIO



Y3550 SERIES

SPECIFICATIONS

ANTENNA: Built-in loop.

CIRCUIT: Superheterodyne using 5 miniature tubes.

FREQUENCY RANGE: Standard broadcast band;
535 KC to 1620 KC.

INTERMEDIATE FREQUENCY: 455 KC.

POWER SUPPLY: 117 volts, 60 cycles, A.C.

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 loop are mounted on an etched circuit board. The use of etched circuitry provides an efficient, compact and practically trouble free receiver.

VOLTAGE PRECAUTION

DO NOT CONNECT AN EARTH GROUND WIRE TO THE RECEIVER.

The etched circuit board 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.

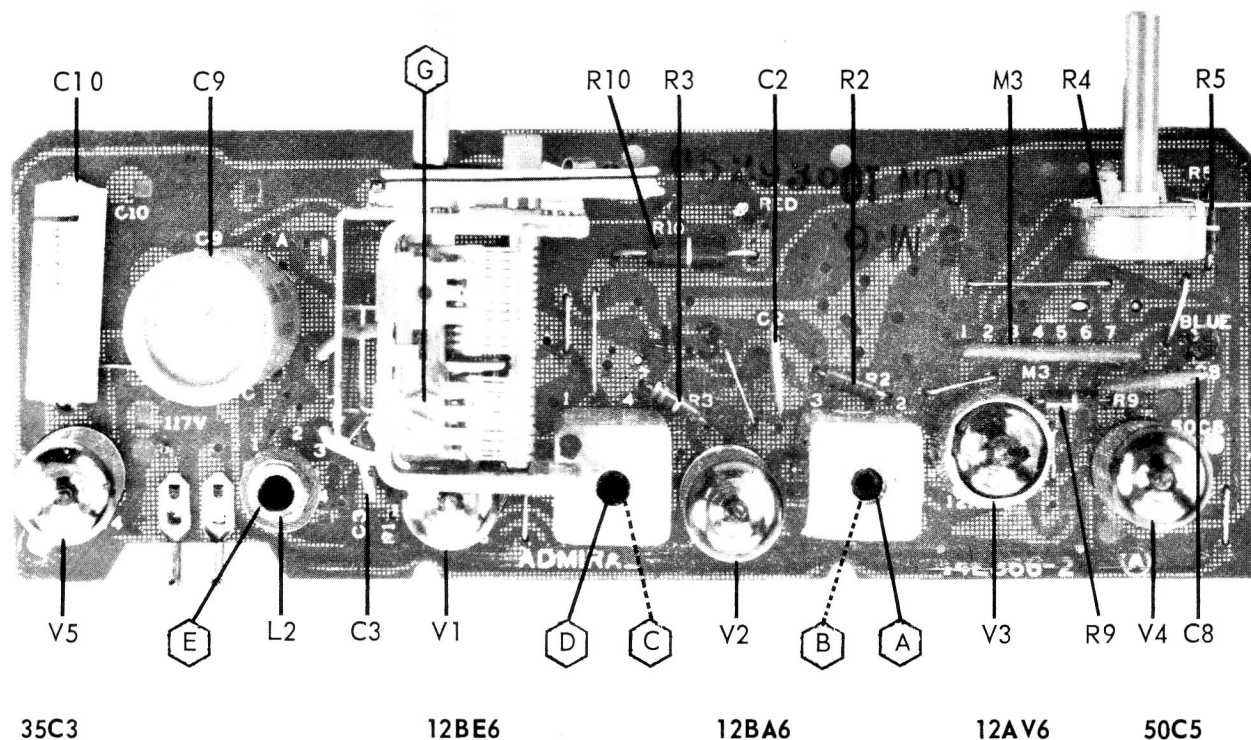
MODEL	COLOUR	CHASSIS
Y3553	White	5D6EX
Y3554	Pink	
Y3557	Beige	
Y3559	Blue	

COMPONENTS 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 bottom of the board.

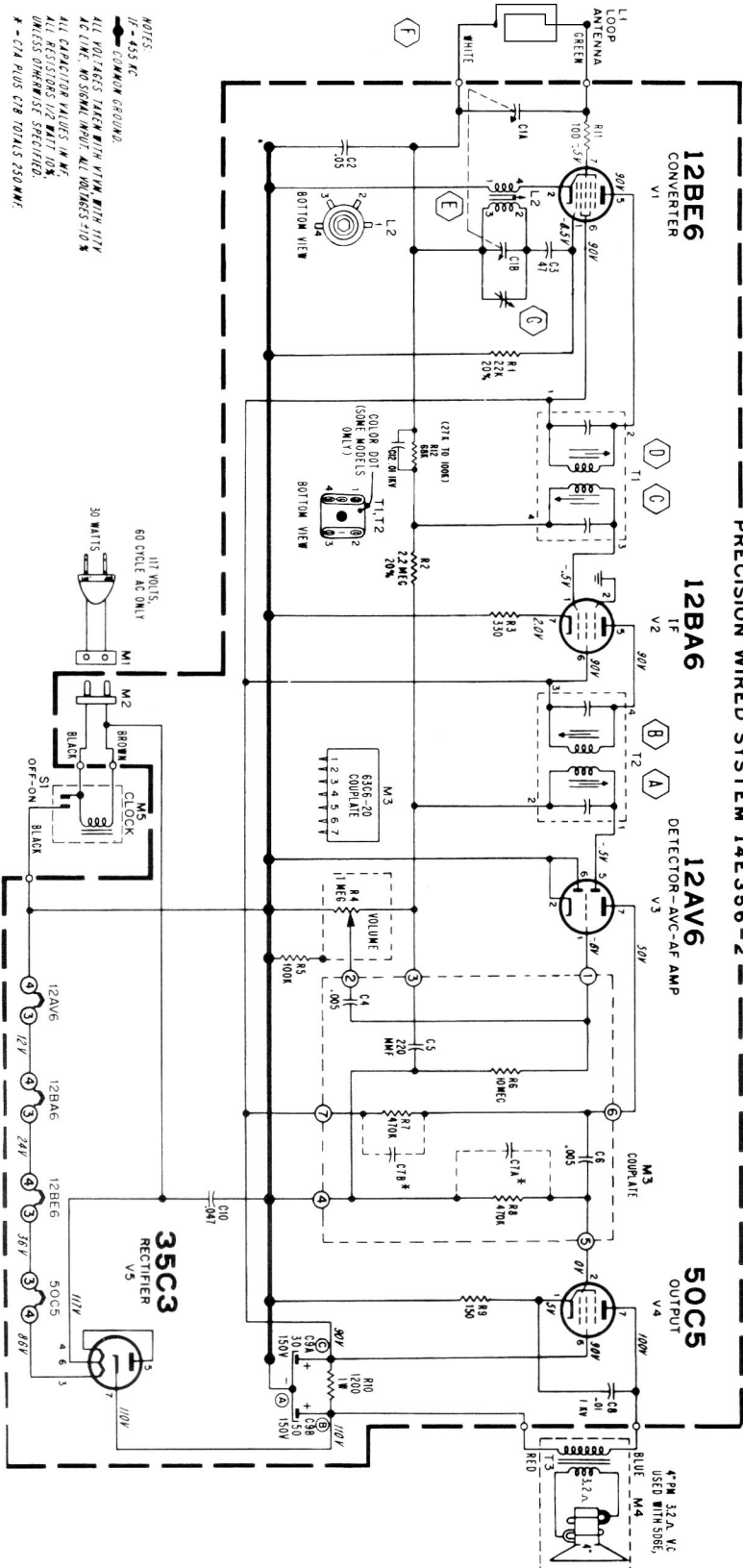
If a unit such as the oscillator coil or IF transformer is to be replaced, first remove old part by heating the mounting lugs with a pencil type soldering tool (35 watts or less) and straighten with pick and long nose pliers. Brush away any loose solder with a stiff glue brush. Before inserting new part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

ALIGNMENT PROCEDURE					
Use an isolation transformer or connect a .1 mf capacitor in series with low side of signal generator. CAUTION: Do not connect an earth ground wire directly to chassis. Set volume control full on. Connect output meter across output secondary. Disconnect speaker and use a 3.2 ohm load.			Use lowest setting of signal generator capable of producing adequate indication on lowest scale of meter. By using alignment tool 98A30-7, you can align both IF transformer slugs from the top of the can. Repeat adjustments to insure best results.		
STEP	CONNECTION OF SIGNAL GENERATOR	SIGNAL GENERATOR FREQUENCY	RECEIVER GANG SETTING	ADJUSTMENT DESCRIPTION	ADJUSTMENT USE INSULATED TOOL
1	Through a .1 mf capacitor to stator, antenna section of tuning capacitor.	455KC	Fully Open	2nd IF 1st IF	(A) (B) (C) (D) For Max
2	Repeat step 1 for maximum output.				
3	Use a radiated signal loop of several turns of wire, or place generator lead close to receiver loop for adequate signal pickup.	1620KC	Fully Open	Osc Trimmer	(G) for Max
4	Same as step 3	535KC	Fully Closed	Osc Slug	(E) for Max
5	Repeat steps 3 & 4 several times until there is no further increase in Output and oscillator tracks properly.				
6	Same as step 3	1400KC	1400KC	Antenna Trimmer	(F) for Max



TOP VIEW OF CHASSIS SHOWING COMPONENTS AND ALIGNMENT POINTS

PRECISION WIRED SYSTEM 14E356-2



PARTS LIST FOR 5D6EX CHASSIS

RESISTORS

Sym.	Description	Part No.
R1	22K ohms, $\frac{1}{2}$ W, 20%.....	6088-223
R2	2.2 megohms, $\frac{1}{2}$ W, 20%.....	6088-225
R3	330 ohms, $\frac{1}{2}$ W, 10%.....	6088-331
R4	Control 1 megohm Vol.....	75C77-3
R5	100K ohms, $\frac{1}{2}$ W, 10%.....	6088-104
R9	150 ohms, $\frac{1}{2}$ W, 10%.....	6088-151
R10	1.2K ohms, 1W, 10%.....	60814-122
R11	100 ohms, $\frac{1}{2}$ W, 10%.....	6088-101
R12	100K ohms, $\frac{1}{2}$ W, 10%.....	6088-104

CAPACITORS

C1	Gang Cond.....	68C96-2
C2	.05 mfd, 50V.....	65C45-32
C3	47 mmfd, 500V, 20%.....	65D10-198
C8	.01 mfd, 1KV, GMV.....	65M1-3
C9A	30 mfd, 150V, Electrolytic....	67B39-1
C9B	50 mfd, 150V, Electrolytic....	67B39-1
C10	.02 mfd, 1000V.....	65D10-239
C12	.01 mfd, 1KV, GMV.....	65M1-3

COILS & TRANSFORMERS

L2	Coil, Oscillator.....	69C292-1
T1	Transformer I. F. (1st).....	72C170-5
T2	Transformer I. F. (2nd).....	72C227-4

MISCELLANEOUS CHASSIS PARTS

S1	On-off-switch.....	Part of clock
M3	Couplate.....	63D6-20
	Connector, Interlock.....	9B42-2
	Socket, Tube Min. 7 Pin.....	87D35-47
	Tube Socket, Min. 7 Pin (with Gnd. Strap).....	87D35-49
	Tube Shield, 7 Pin.....	87B52-2

CABINET PARTS LIST

Description	Part No.
Spring.....	19D1-75-60
Clock Face.....	21C153-3
Clock Xtal.....	24C55-2
Hour Hand.....	25D92-5
Minute Hand.....	25D92-6
Second Hand.....	25D92-7
Alarm Hand.....	25D92-8
Support, P. C. Board.....	33B464-1
Knob, Tuning White Y3553.....	33C601-7
Knob, Volume White Y3553.....	33C601-8
Knob, Tuning Pink Y3554.....	33C601-9
Knob, Volume Pink Y3554.....	33C601-10
Knob, Tuning Beige Y3557.....	33C601-11
Knob, Volume Beige Y3557.....	33C601-12
Knob, Tuning Blue Y3559.....	33C601-13
Knob, Volume Blue Y3559.....	33C601-14
Button, Doze, Pink Y3554.....	33C602-1
Button, Doze, Beige Y3557.....	33C602-2
Button, Doze, Blue Y3559.....	33C602-3
Button, Doze White Y3553.....	33C602-7
Escutcheon.....	33C613-1
Cabinet, White Y3553.....	34E204-6
Cabinet Pink Y3554.....	34E204-7
Cabinet Beige Y3557.....	34E204-8
Cabinet Blue Y3559.....	34E204-9
Operating Instructions.....	41L15-18
Trimmer.....	66A33-1
Loop Ant. & Cab't Back.....	69N16-2
Speaker 4" W/Transformer.....	78D142-8
Line Cord & Plug.....	89C62-4
Clock.....	91C66-2
Knob (Clock).....	91C66-10
Time Set Shaft.....	91C68-2