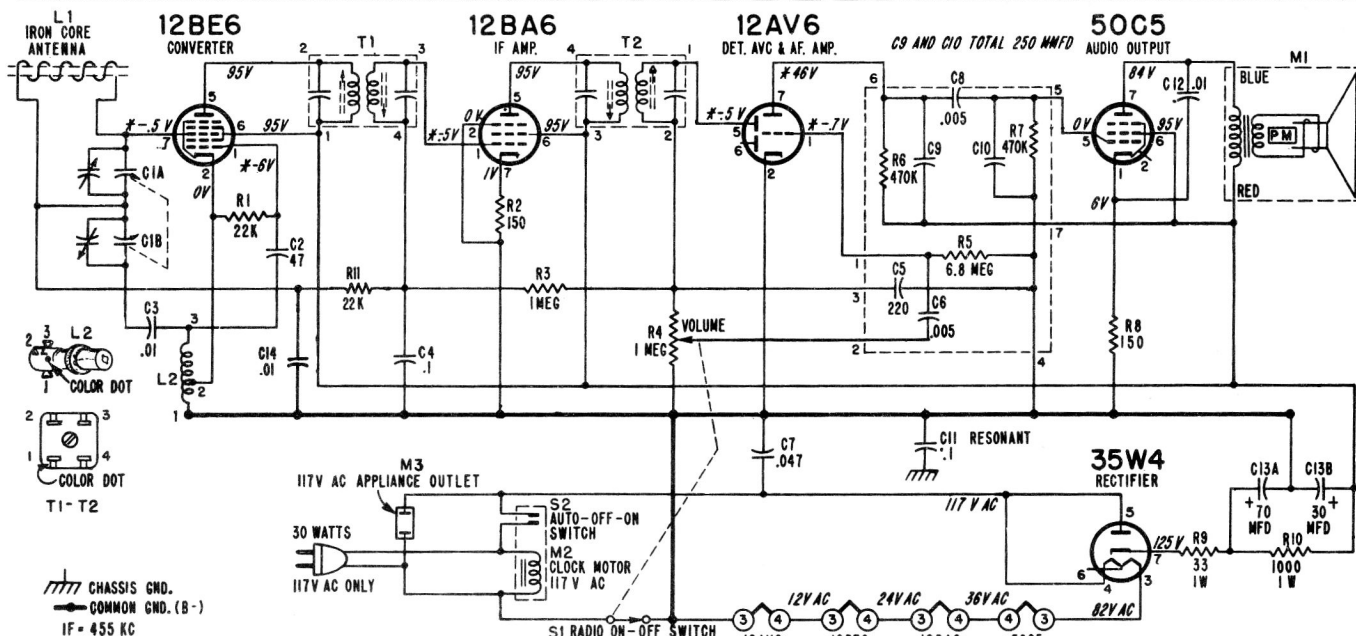
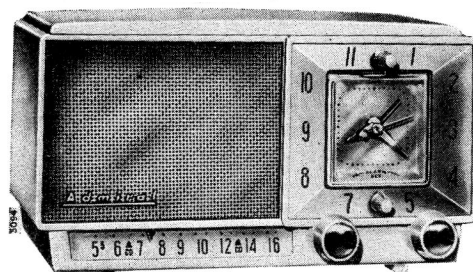




*These voltage readings will be either lower or practically zero if taken with a 1000 ohms-per-volt meter.

VOLTAGE DATA

- Voltages shown on schematic diagram.
- All readings made between tube socket terminals and B minus (terminal of On-Off switch).
- Measured on 117 Volt AC line.
- Volume control minimum; dial set at low frequency end.
- Voltages measured with vacuum-tube voltmeter.



Model 5E31X, Ebony, 5E32X Mahogany, 5E33X Ivory, 5E38X Green, 5E39X Gray.

RESISTORS			COILS, TRANSFORMERS, ETC.			CABINET PARTS		
SYM.	DESCRIPTION	PART NO.		DESCRIPTION	PART NO.		DESCRIPTION	PART NO.
R1	22,000 ohms, 1/2 watt....	60B8-223	L1	Iron Core Antenna and Cabinet Back.....	69X171-1		Cabinet, Plastic	
R2	150 ohms, 1/2 watt.....	60B8-151	L2	Coil, Oscillator.....	69A52-7		Ebony	34D67-1
R3	1 megohm, 1/2 watt.....	60B8-105	T1	Transformer, 1st IF	72C28-7		Mahogany.....	34D67-2
R4	1 megohm, Volume Con. (R4 includes switch S1)	75B1-58	T2	Transformer, 2nd IF	72C28-7		Ivorv.....	34D67-3
* R5	6.8 megohms, 1/4 watt...		M1	Speaker (4" PM) and Output Transformer.....	78B85-1		Green.....	34D67-4
* R6	470,000 ohms, 1/4 watt..		M3	Outlet Appliance.....	87A21-1		Gray.....	34D67-5
* R7	470,000 ohms, 1/4 watt..		S1	Switch, Radio On-Off....	Part of R4		Grille, Metal.....	36B46
R8	150 ohms, 1/2 watt.....	60B8-151	S2	Switch, Auto-On-Off....	Part of M2		Knobs, Tuning & Volume	
R9	33 ohms, 1 watt.....	60B28-3		Couplate.....	63B6-7		Ebony.....	33A81-1
R10	1000 ohms, 1 watt.....	60B28-2		(Includes R5,R6,R7, C5, C6, C8, C9, C10)			Ivory.....	33A81-2
R11	22,000 ohms, 1/2 watt....	60B8-223					Maroon.....	33A81-3
CAPACITORS			MISCELLANEOUS PARTS				Green.....	33A81-4
C1A	290 mmfd, max. Ant.		Bracket, Pointer Support	15A936			Gray.....	33A81-5
C1B	104 mmfd, max. Osc. gang	60B51-1	Clip, IF Transformer Mounting	72C28-10		CLOCK PARTS		
	(Dial drum spotwelded to gange)		Drum, Dual Pulley.....	17A5-2		M2 Clock Complete for 117 volts, 60 cycles.....	91C9-1	
C2	47 mmfd, ceramic	65C6-79	Drum, Single Pulley.....	17A1-2		Knob, Clock.....		
C3	.01 mfd, ceramic	65C10-3	Grommet, Rubber (gang mtg.)	12B1-2		Ebony.....	91C9-11	
C4	.1 mfd, 200 volts, paper..	64B5-30	Line Cord & Plug.....	89A34-1		Maroon.....	91C9-12	
* C5	220 mmfd, ceramic		Manual, Customer			Ivory.....	91C9-13	
* C6	.005 mfd, ceramic		Instructions.....	41X20-32EF		Green.....	91C9-14	
C7	.047 mfd, 400 volts	64B9-28	Pointer, Dial.....	25A57		Gray.....	91C9-15	
* C8	.005 mfd, ceramic		Shaft, Tuning.....	28A70-1		Window (plastic).....	24A13	
* C9	See note		Socket, Tube.....	87A3-4				
* C10	on schematic		Spacer, Metal "T" (for mtg. gang).....	29A2-3-71				
C11	.1 mfd, 600 volts, Resonant.....	64W2-2	Spring, Dial Cord Tension	19C1-5				
C12	.01 mfd, ceramic.....	65C10-3	Washer, "E" (for tuning shaft).....	4B12-4				
C13A	70 mfd, 150 volts							
C13B	30 Mfd, 150 volts elect	67A17-1						
C14	.01 mfd, ceramic.....	65C10-3						

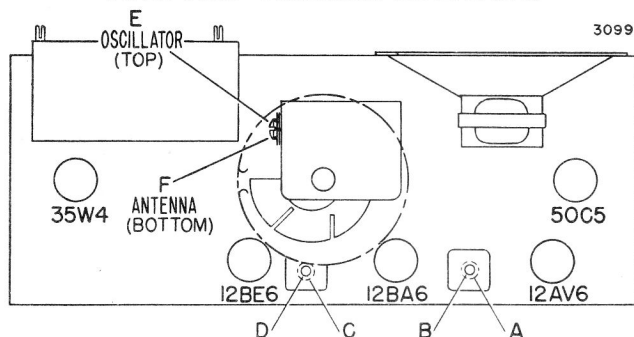
§Part of couplate (part No. 63B 6-7). Numbers on schematic correspond to lead numbers on couplate.

ALIGNMENT PROCEDURE

- Turn receiver volume control full on (fully clockwise).
- Use an isolation transformer if available; otherwise, connect a .1 mfd. capacitor in series with low side of signal generator and connect to chassis.
- Caution: Do not connect a ground wire directly to chassis.
- Connect output meter across speaker voice coil.
- Use lowest output of signal generator required for midscale meter indication and proceed in the following sequence.
- Repeat adjustments to insure good results.

Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustment
1	250 mmfd. condenser	Antenna stator of tuning capacitor	455 KC	Gang fully open	2nd IF 1st IF	*A, B, *C, D	Maximum output
2	250 mmfd. condenser	Antenna stator of tuning capacitor	1620 KC	Gang fully open	Oscillator	E	Maximum output
Set tuning pointer with tuning gang tuned to 1400 KC generator signal; see illustration below.							
3	Loop of several turns of wire, or place generator lead close to receiver loop for adequate signal pickup.	No actual connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna	F	Maximum output
*Adjustments A and C made from the underside of the chassis.							

TUBE AND TRIMMER LOCATION



Adjustments A and C made from underside of chassis.

OPERATING RADIO MANUALLY

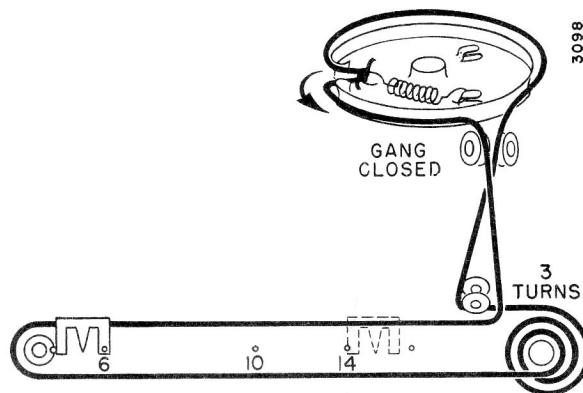
When the "Auto-Off-On" switch is set to the "On" position, the radio may be operated manually with the "Off-Volume" knob. The On-Off switch in the radio will not control the clock or the appliance outlet.

TO REMOVE CLOCK FROM CABINET

To remove the clock, proceed as follows:

1. Remove the radio chassis from the cabinet.
2. Remove four screws which mount the clock to the cabinet.
3. Carefully remove the clock. Do not unsolder electrical connections unless complete removal of the clock is required.

DIAL STRINGING AND POINTER SETTING



Dial stringing and pointer with solid lines shown with gang closed. Dashed line pointer position (1400 KC) shown when tuning gang is tuned to generator signal.

PARTS AND SERVICE FOR CLOCK

Consult your Admiral distributor for the address of the nearest parts and service station for clocks used in Admiral radios.

Canadian Admiral Corporation