

Model 5E31 Ebony, 5E32 Maroon, 5E33 Ivory, 5E38 Green, 5E39 Gray.

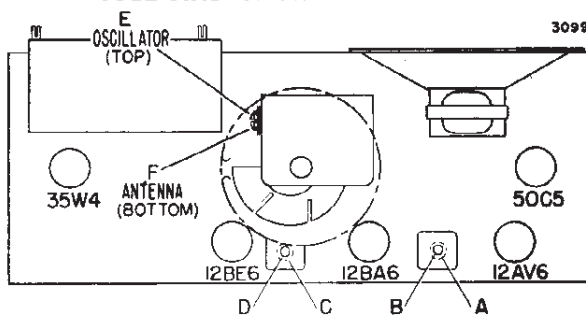
### ALIGNMENT PROCEDURE

- 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.
  - Connect output meter across speaker voice coil.
  - Use lowest output of signal generator required for midscal meter indication and proceed in the following sequence.
  - Repeat adjustments to insure good results.
- Caution: Do not connect a ground wire directly to chassis.

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. If IF transformers have hollow core slugs, these adjustments may all be made from the top of the chassis, if you use alignment tool #98A30-7 obtainable from your Admiral distributor. The core in the upper slug. If IF transformers have slotted head tuning slugs, use an alignment tool with a blade 3/32" wide.

### TUBE AND TRIMMER LOCATION



Adjustments A and C made from underside of chassis.

### OPERATING RADIO MANUALLY

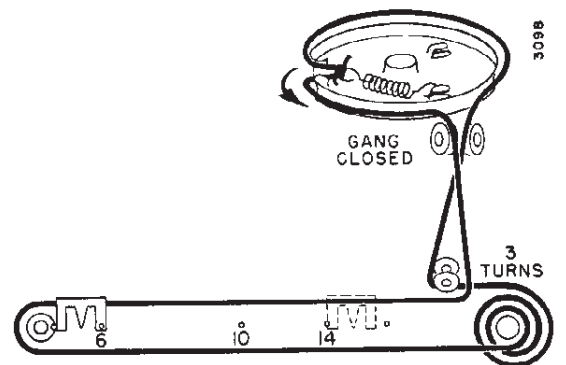
When the "Auto-Off-On" switch is set to the "On" position, the radio may be operated manually with the "Off-Volume" knob. The On-Off switch in the radio will not control the clock or the appliance outlet.

### TO REMOVE CLOCK FROM CABINET

To remove the clock, proceed as follows:

1. Remove the radio chassis from the cabinet.
2. Remove four Phillips 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

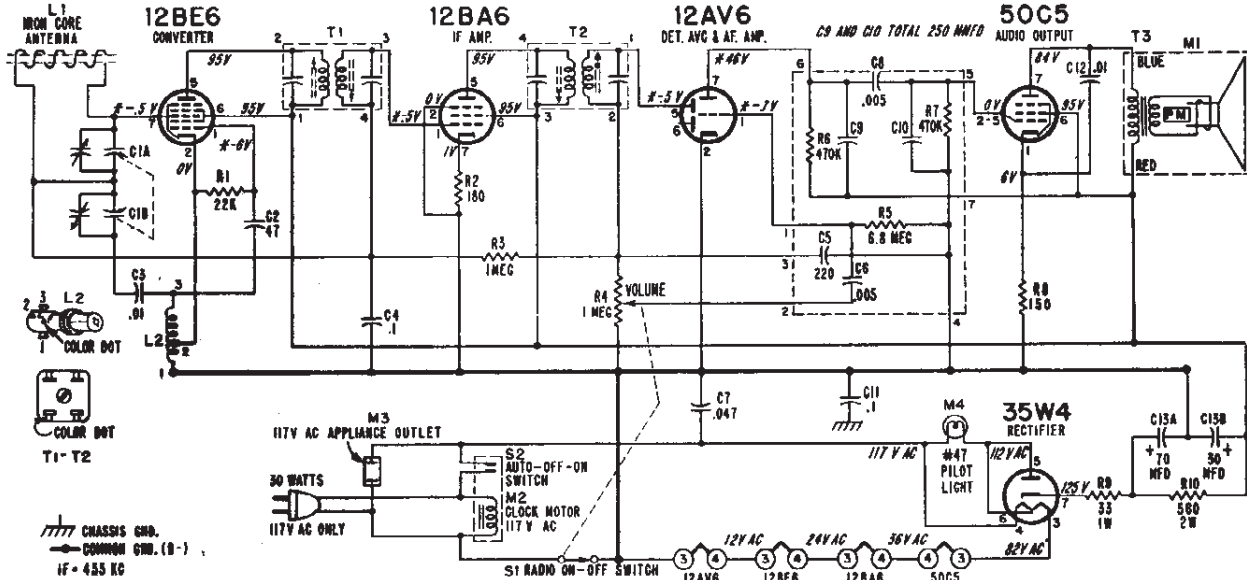


Dial stringing and pointer with solid lines shown with gang closed. Dashed line pointer position (1400 KC) shown when tuning gang is tuned to generator signal.

### 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.

MODELS 5E31, 5E32, 5E33, Ch. 5E3



\*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.

RESISTORS		
Symbol	Description	Part No.
R1	22,000 ohms, 1/2 watt	60B 8-223
R2	180 ohms, 1/2 watt	60B 8-181
R3	1 megohm, 1/2 watt	60B 8-105
R4	1 megohm, Volume control	75B 1-58
R5	6.8 megohms, 1/4 watt	60B 8-151
R6	470,000 ohms, 1/4 watt	60B 28-3
R7	470,000 ohms, 1/4 watt	60B 20-561
R8	150 ohms, 1/2 watt	60B 8-151
R9	33 ohms, 1 watt	60B 28-3
R10	560 ohms, 2 watts	60B 20-561

CAPACITORS		
Symbol	Description	Part No.
C1A	290 mmfd, max. Ant. } gang	68B 51-1
C1B	104 mmfd, max. Osc. } (Dial drum spotwelded to gang)	68B 51-1
C2	47 mmfd, ceramic	65C 6-79
C3	.01 mfd, ceramic	65C 10-3
C4	.1 mfd, 200 volts, paper	64B 1-30
C5	220 mmfd, ceramic	65C 6-79
C6	.005 mfd, ceramic	65C 10-3
C7	.047 mfd, 400 volts, paper	65A 13-5
C8	.005 mfd, ceramic	65C 10-3
C9	see note	
C10	on schematic	
C11	.1 mfd, 200 volts, paper	64B 1-30
C12	.01 mfd, ceramic	65C 10-3
C13A	70 mfd, 150 volts	67A 17-1
C13B	30 mfd, 150 volts	67A 17-1

COILS, TRANSFORMERS, ETC.		
Symbol	Description	Part No.
L1	Iron Core Antenna and Cabinet Back	69B 171

Symbol	Description	Part No.
L2	Coil, Oscillator	69A 52-7
T1	Transformer, 1st IF with hollow core slugs	72C 128-7
	with slotted core slugs	72C 28-7
T2	Transformer, 2nd IF with hollow core slugs	72C 128-7
	with slotted core slugs	72C 28-7
T3	Transformer, Output	98A 21
M1	Speaker (4" PM) and Output Transformer	78B 85
M3	Outlet, Appliance	87A 21-1
M4	Socket, Pilot Light	82A 17-4
S1	Switch, Radio On-Off	Part of R4
S2	Switch Auto-On-Off	Part of M2 Couplate
	(Includes R5, R6, R7, C5, C6, C8, C9, C10)	63B 6-7

MISCELLANEOUS PARTS		
Symbol	Description	Part No.
	Bracket, Pointer Support	15A 936
	Chip, IF Transformer Mounting	72B 28-10
	Drum, Dial Pointer	17A 5-2
	Grommet, Rubber (gang mtg.)	12B 1-18
	Line Cord and Plug	89A 34-1
	Manual, Customer Instructions	41B 20-32
	Pilot Light, #47	81A 1-8
	Pointer, Dial	25A 57
	Shaft, Tuning	28A 70-1
	Socket, Tube	87A 3-4
	Spacer, Metal "T" (for mtg. gang)	29A 2-3-24
	Speed Nut (mtg. pointer shaft sleeve)	2B 10-28-59
	Spring, Dial Cord Tension	19C 1-5
	Washer, "E" (for tuning shaft)	4B 12-4

CABINET PARTS		
Description	Part No.	
Cabinet, Plastic	ebony	34D 67-1
	maroon	34D 67-2
	ivory	34D 67-3
	green	34D 67-4
	gray	34D 67-5
Grille, Metal		38B 46
Knobs, Tuning and Volume	ebony	33A 81-1
	maroon	33A 81-2
	ivory	33A 81-3
	green	33A 81-4
	gray	33A 81-5
Nameplate, "Admiral"		26A 44
Pointer, Tuning		25A 57
Trimount Fastener (for cabinet back)		13A 1-5
Washer, Felt (for tuning knobs)		5A 4-15

CLOCK PARTS		
Description	Part No.	
M2 Clock, Complete for 117 volts, 60 cycles		91C 9-1
Knob, Clock	ebony	91C 9-11
	maroon	91C 9-12
	ivory	91C 9-13
	green	91C 9-14
	gray	91C 9-15
Window (plastic)		24A 13

§Part of couplate (part No. 63B 6-7). Numbers on schematic correspond to lead numbers on couplate.  
 \*Transformers differ slightly. For best results, order exact part.