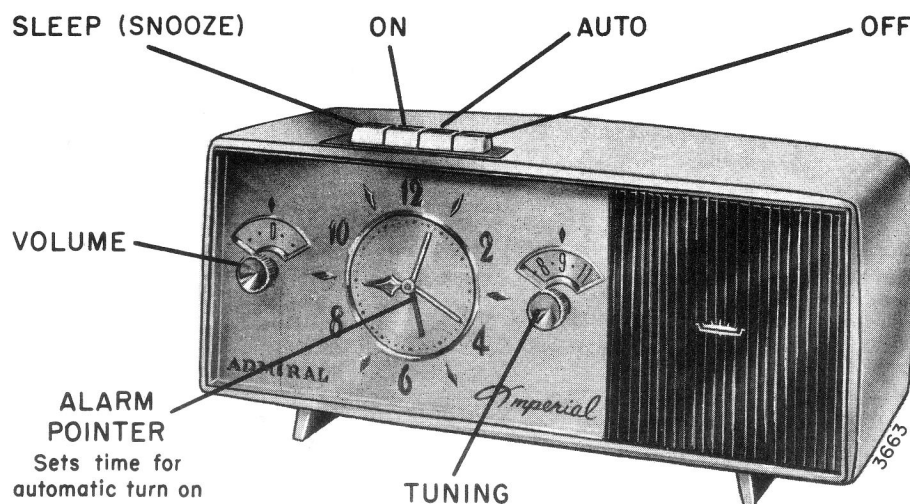


ADMIRAL

CLOCK RADIO

5F6BX CHASSIS



Front View of Set Showing Controls.

SPECIFICATIONS

ANTENNA: Ferroscope®, Ferrite Rod.

CIRCUIT: Superheterodyne using five miniature type tubes; one 12BE6 (Converter), one 12BA6 (IF), one 12AV6 (Detector-AVC-AF Amplifier), one 50C5 (Output) and one 35C3 (Rectifier).

CLOCK: Telechron Push Button Timer.

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

INTERMEDIATE FREQUENCY: 455 KC.

POWER SUPPLY: 105-120 volts, 60 cycle AC only.

POWER CONSUMPTION: 30 watts.

SPEAKER: 4" PM with Alnico V Magnet. Voice coil impedance 3.2 ohms.

GENERAL

The radio is built around an entirely new type electric timer clock having four push button controls on the top of the cabinet. No more small knobs to fumble with on the front of the clock.

The four push button clock controls consist of:

1. The SLEEP button having two functions "SLEEP" and "SNOOZE".

When the radio is "off," pushing the SLEEP button will cause the radio to play from 10

IMPERIAL CLOCK RADIO

| MODEL | COLOUR | NAME | CHASSIS |
|---------|--------|--------|---------|
| Y305IBX | BLACK | DUNCAN | 5F6BX |
| Y3053BX | WHITE | | |
| Y3058BX | GREEN | | |

minutes up to an hour depending upon the number of times the knob is pushed; once for 10 minutes, twice for 30 minutes, 3 times for 45 minutes and 4 times for 1 hour. The fifth time is a neutral position that cancels any previous setting.

"SNOOZE ALARM"—When the buzzer alarm starts, it is possible to catch 40 winks more sleep by simply pushing down the SLEEP button. The buzzer will then be silent for a period of approximately 10 minutes for one push of the button, 30 minutes for two, 45 minutes for three, 60 minutes for four. *Note:* The fifth push is a neutral position which cancels the previous setting and turns the buzzer back "on".

Every sixth push of the SLEEP button is the same as the first. To shut off buzzer, push down the ON or OFF button.

2. The ON button must be down to turn radio "on"

T1124

3. The AUTO button must be down for the radio to come on automatically at a pre-set time.
4. The OFF button must be down to turn radio "off". (This includes also the appliance outlet.)

THE RADIO (OR ANY CONNECTED APPLIANCE) WILL NOT TURN OFF, WHEN THE OFF BUTTON IS PRESSED DOWN, IF ANY PLAYING TIME REMAINS ON THE SLEEP-BUTTON. PUSH SLEEP BUTTON TO THE OFF OR NEUTRAL POSITION.

TO REMOVE CHASSIS FOR SERVICING TUBES

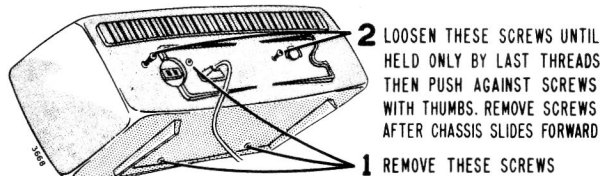


Figure 2. Rear View of Cabinet Showing Chassis Mounting Screws.

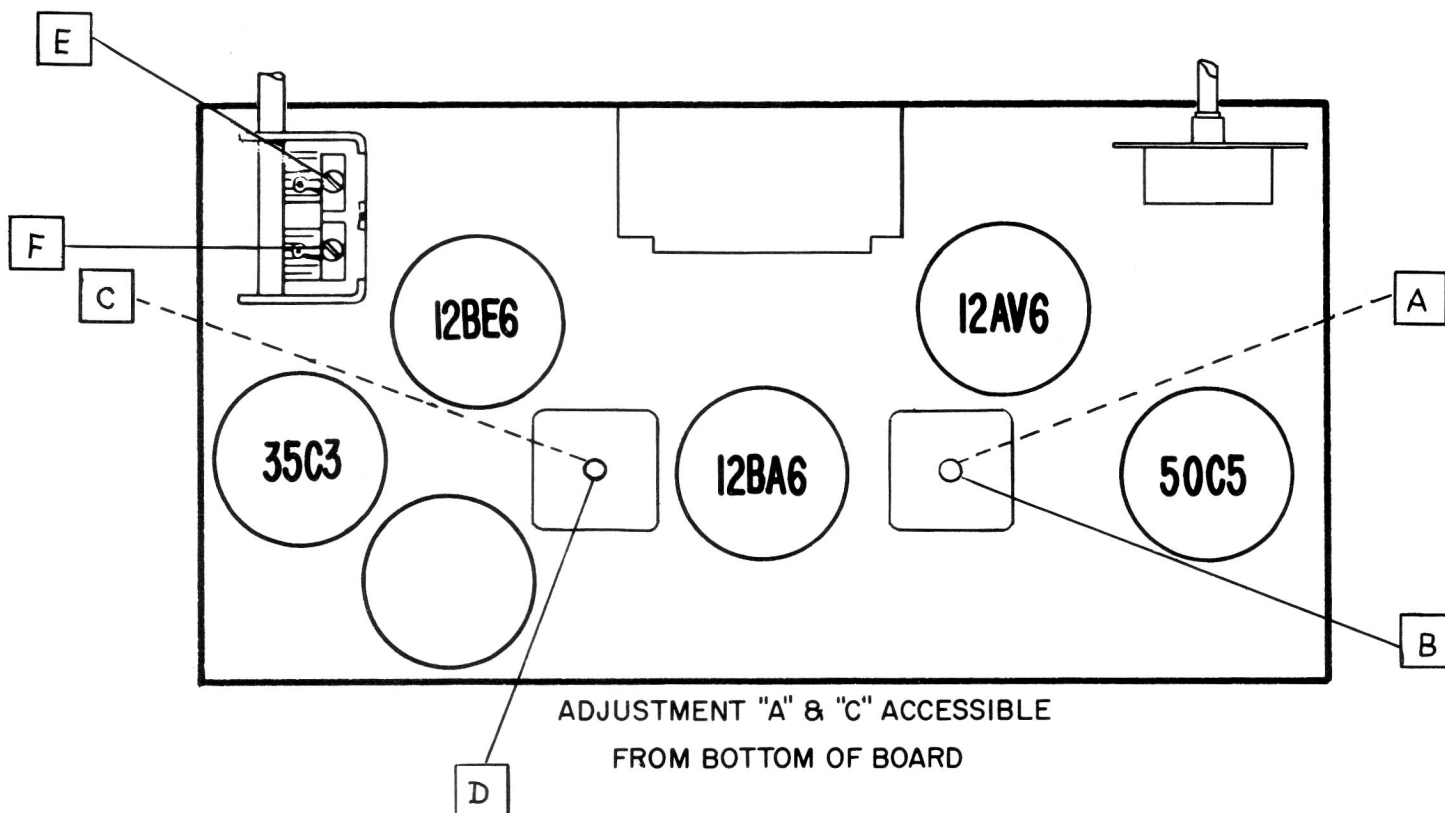
CHASSIS REMOVAL

1. Tilt cabinet forward and remove the two screws located on the bottom of cabinet. Also remove the center screw on the back. (The one just above the line cord socket.)
2. Loosen the two screws remaining at the back until held only by their last threads. Apply enough pressure to these loosened screws with the thumbs, to break the AC interlock Connection inside the cabinet.
3. Remove screws completely and allow chassis, with attached front panel, to slide forward. Make certain that the Time Set Knob at the rear clears the hole provided in the cabinet back.

REMOVING THE CLOCK

1. Remove the cabinet (rear section) as instructed under Chassis Removal.
2. Remove the two knobs from the front and the four pushbuttons by pulling them straight off. (If it seems necessary to use pliers to remove any of the four pushbuttons, wrap each one with masking tape to prevent any damage to them.)
3. Remove the front crystal by pushing inward and then outward on the tabs located along the top and bottom edges. Remove the tuning and volume indicator discs.
4. Remove screw under tuning dial indicator.
5. Remove two screws holding volume control to cabinet front.
6. Remove two screws holding antenna brackets to cabinet front.
7. Remove the two nuts mounting the clock to the front panel. The clock is removable through front after, unsoldering leads.

For part number of clock used in this set, see M5 clock, in the Parts List.



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 common ground.
- Set volume control full on.
- Disconnect voice coil leads and connect output meter across output secondary. 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 | ADJUSTMENTS |
|------|--|----------------------------|-----------------------------|--|
| 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 ferrite antenna for adequate signal pickup. | 1400 KC | Tune in on generator signal | "F" for maximum output |

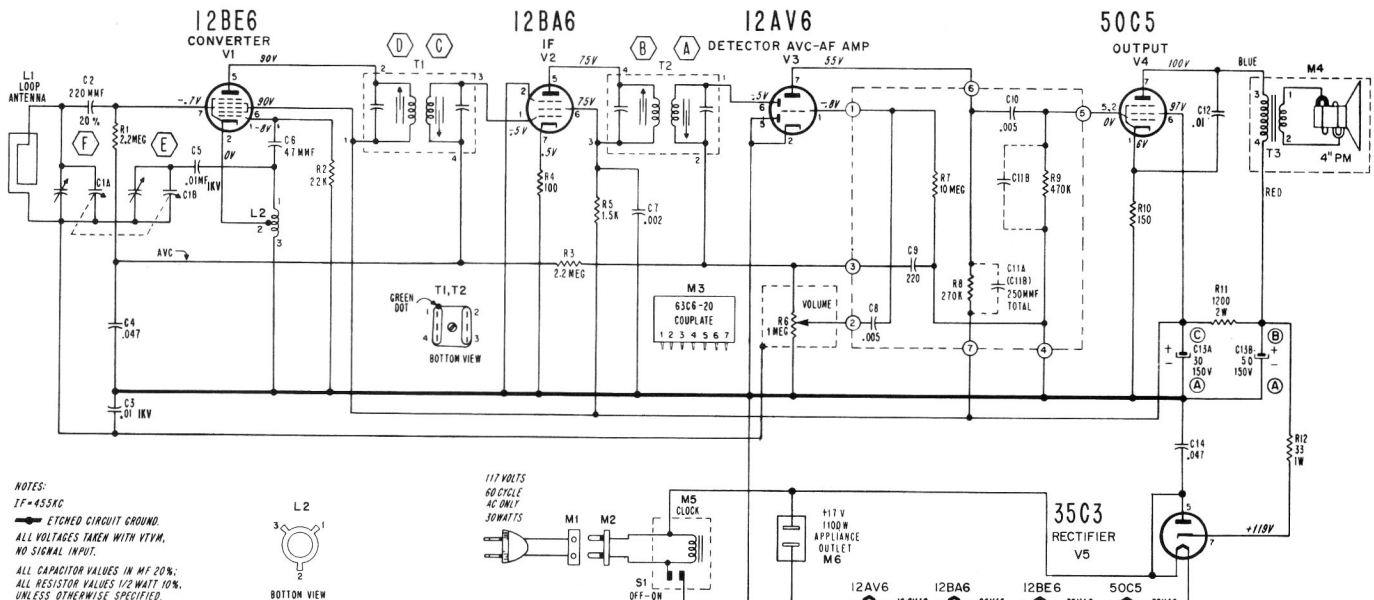
VOLTAGE PRECAUTION

DO NOT CONNECT AN EARTH GROUND TO THIS RECEIVER.

The etched circuit common ground is connected directly to one side of the power line. To avoid possibility of damage to test equipment or to the etched

circuit board, do not place the chassis directly on a metal service bench, tools or other metal objects.

When taking voltage readings or making resistance measurements, use test leads with needle point prods to avoid possibility of short circuits between sections of the etched wiring.



CLEANING CABINET

Wash the cabinet with a mild soap or detergent and water. Dry carefully. After cleaning cabinet, lustre can be restored by polishing with a good grade of abrasive-free paste wax. Use damp cotton or cheese-cloth to apply wax. Rub off excess wax with a dry cloth and buff to a high lustre. Dust will not accumulate on a cabinet cleaned and waxed in this manner.

Admiral plastics polish, part number C507 can be used to remove minor scratches and scuff marks.

After using this polish, cabinet should be washed and then waxed to return its high lustre.

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.

PARTS LIST

RESISTORS

| Sym. | Description | Part No. |
|------|-------------------------------|------------|
| R1 | 2.2 megohms, ½ watt..... | 60B8-225 |
| R2 | 22,000 ohms, ½ watt..... | 60B8-223 |
| R3 | 2.2 megohms, ½ watt..... | 60B8-225 |
| R4 | 100 ohms, ½ watt..... | 60B8-101 |
| R5 | 1,500 ohms, ½ watt..... | 60B8-152 |
| R6 | 1 megohm, Volume control..... | 75C56-7 |
| R7 | 10 megohms) | |
| R8 | 470,000 ohms)..... | Part of M3 |
| R9 | 470,000 ohms) | |
| R10 | 150 ohms, ½ watt..... | 60B8-151 |
| R11 | 1,200 ohms, 1 watt..... | 60B14-122 |
| R12 | 33 ohms, 1 watt..... | 60B14-330 |

CAPACITORS

| | | |
|-------|-------------------------------|-----------|
| C1A) | | |
| C1B) | Gang, tuning..... | 68C76-7 |
| C2 | 220 mmf, 500 V, ceramic..... | 65D10-83 |
| C3 | .01 mf, 1KV, G.M.V..... | 65M1-3 |
| C4 | .047 mf, 200 V, Mylar..... | 64C25-59 |
| C5 | .01 mf, 1KV, ceramic..... | 65M1-3 |
| C6 | 47 mmf, 500 V, ceramic..... | 65D10-198 |
| C7 | .002 mf, 500 V, ceramic..... | 65D10-7 |
| C8 | .005 mf) | |
| C9 | 220 mmf) | |
| C10 | .005 mf)..... | Part of M |
| C11A) | | |
| C11B) | 250 mmf total) | |
| C12 | .01 mf, 500 V, ceramic..... | 65D10-41 |
| C13A | 30 mf, 150 V electrolytic.... | 67C39-1 |
| C13B | 50 mf, 150 V, | |
| C14 | .047 mf, 400 V..... | 64B17-28 |

COILS, TRANSFORMERS AND MISCELLANEOUS

| | | |
|----|---------------------------|----------|
| L1 | Antenna, Loop..... | 69C269-1 |
| L2 | Coil, Oscillator..... | 69B217-9 |
| T1 | Transformer, 1st I F..... | 72C170-5 |
| T2 | Transformer, 2nd I F..... | 72C170-4 |

COILS, TRANSFORMERS AND MISCELLANEOUS (Con't)

| Sym. | Description | Part No. |
|------|---|------------|
| T3 | Transformer, Output..... | Part of M4 |
| M1 | A.C. Line Cord with interlock plug..... | 89C62-5 |
| M2 | Interlock..... | 88A36-1 |
| M3 | Couplate..... | 63C6-20 |
| M4 | Speaker (includes T3)..... | 78B142-5 |
| M5 | Clock (Telechron Push Button Timer)..... | 91C47-1 |
| M6 | AC Socket, Appliance Outlet..... | 87A77-6 |
| | (Part of Antenna Mtg. Assy.) | |
| | Shield, Tube (12AV6)..... | 87D7-39 |
| | Socket, Tube (All except 12AV6)..... | 87D35-43 |
| | Socket, Tube (12AV6)..... | 87D35-45 |

CABINET PARTS

| | |
|----------------------------------|-----------|
| Cabinet (Rear Section) | |
| Model Y3051BX (Black)..... | 34D125-39 |
| Model Y3053BX (White)..... | 34D125-40 |
| Model Y3058BX (Green)..... | 34D125-42 |
| Cabinet (Front Panel) | |
| Model Y3051BX (Black)..... | 34D165-5 |
| Model Y3053BX (White)..... | 34D165-6 |
| Model Y3058BX (Green)..... | 34D165-8 |
| Indicator Disc, Tuning..... | 21C138-2 |
| Volume..... | 21C138-5 |
| Knob, Tuning..... | 33B412-3 |
| Volume..... | 33B412-1 |
| Bezel, Button trim..... | 23B414-1 |
| Crystal, Clock..... | 24C38-1 |
| Push Button, Y3051BX (Black).... | 33C414-1 |
| Push Button, Y3053BX (White).... | 33C414-2 |
| Push Button, Y3058BX (Green).... | 33C414-3 |

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