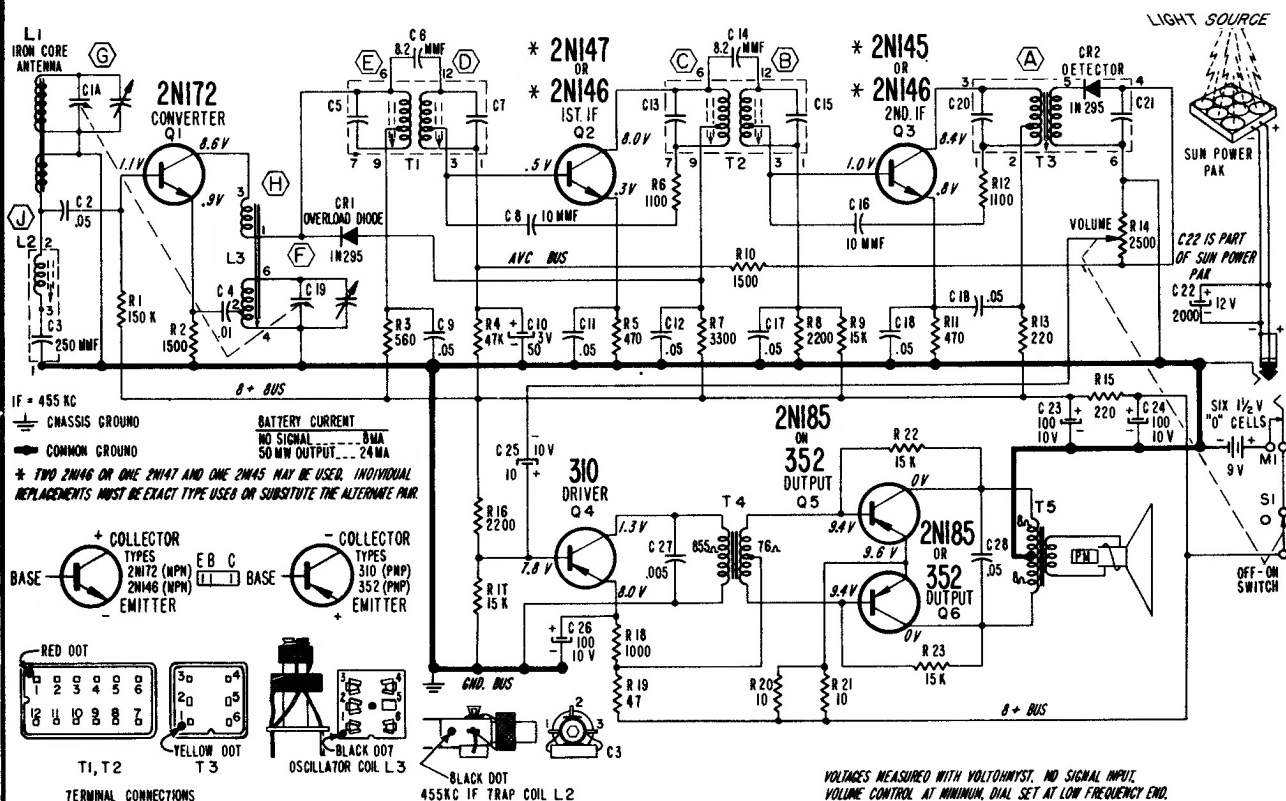


Admiral

7L1 Chassis

MODELS 7L12 • 7L14 • 7L16 • 7L18



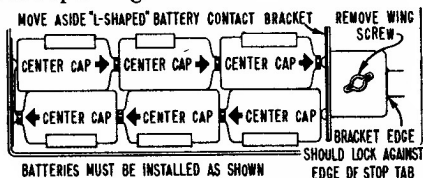
BATTERY REPLACEMENT:

To install replacement batteries, remove the bottom section of the cabinet by rotating the plastic knob at the bottom of the cabinet one-third of a turn to the left. This frees the bottom section of the cabinet from the chassis, and the bottom section may be removed by pulling it away (down) from the top section.

To remove worn out batteries, first remove the wing screw at the right of the battery compartment. Move the "L-shaped" battery contact bracket aside, being careful not to exert any undue strain on its connecting wires. Then slide the batteries out.

When installing new batteries, be sure that the positive terminal of each battery faces in the direction indicated by the arrows stamped in the battery compartment. The batteries rest in the battery compartment in two rows. The bottom row have their positive terminal facing toward the gang, the top row have their positive terminal facing toward the Off-On-Volume control. Six batteries connected in series provide 9 volts of power to operate the set.

In normal use, batteries for this set should furnish about 700 operating hours.



REMOVING THE CHASSIS

To remove the chassis from the cabinet top section, proceed as follows:

1. Remove Off-On-Volume and Tuning control knobs.
2. Remove 4 screws mounting cabinet top section to chassis (2 on each side of cabinet top section).
3. Remove Sun Power Pak receptacle at rear of cabinet top section by removing hex nut and washer fastening receptacle to cabinet. Then carefully push receptacle free of its mounting hole.
4. Carefully lift cabinet top section up and toward the rear of the cabinet. Be careful not to exert any undue strain on connecting leads.

To service the component side of the printed wiring board, it will be necessary to remove the bottom section of the cabinet. Follow procedure outlined under "Battery Replacement".

TESTING TRANSISTORS

The transistors used in this set are junction type. This type of transistor is more apt to become shorted than open. A shorted transistor will cause a resultant increase in current drain of the power supply. Thus a quick check is to measure the current drain with a milliammeter connected in series with the leads from the power supply. Normal current drain with no signal will be approximately 8 milliamperes. Transistors often become shorted because of excessive current flow, usually indicative of circuit trouble. If a transistor is found to be shorted, check the circuit carefully before installing a new one.

Admiral

CHASSIS 7L1
MODELS 7L12 • 7L14 • 7L16 • 7L18

ALIGNMENT PROCEDURE

- Fresh batteries should be used when making an alignment.
- Set Volume control full on.
- Connect output meter across speaker voice coil.
- Use lowest setting of signal generator capable of producing adequate indication on lowest scale of output meter (maintain setting of .3 volt (25 mw) or less).
- Use a non-metallic alignment tool for IF transformers.
- Repeat adjustments to insure good results.
- Radio should be aligned while chassis is in cabinet top section.
- Antenna in "pop-up" position and rotated 90° (perpendicular to cabinet front).

Step	Connection of Signal Generator	Signal Generator Frequency	Receiver Gang Setting	Adjustment Description	Adjustment
Disconnect 455 KC trap, or short capacitor C3 with clip lead.					
1	Radiated Signal Loop of several turns of wire, or place generator lead close to receiver for adequate signal pickup.	455 KC	Gong fully open	3rd IF 2nd IF 1st IF	"A, B, C, D, and E" for maximum output

Repeat Step 1 several times until there is no further increase in the output. Reconnect 455 KC Trap.

2	Same as "STEP 1".	455 KC	Gong fully open	455 KC Trap	"J" for minimum output
3	Same as "STEP 1".	1620 KC	Gong fully open	Oscillator Trimmer	"F" for maximum output
4	Same as "STEP 1".	1400 KC	Tune in generator signal	Antenna Trimmer *(Rock Gong)	"G" for maximum output

NOTE: DO NOT perform the following steps unless you are unable to tune in 535 KC.
BEFORE PROCEEDING, SET OSCILLATOR TRIMMER ¼ TURN FROM ITS TIGHT POSITION.

5	Same as "STEP 1".	535 KC	Gong fully open	Oscillator Core	"H" for maximum output
6	Same as "STEP 1".	1620 KC	Gong fully open	Oscillator Trimmer	"F" for maximum output
7	Repeat Steps 5 and 6 until oscillator covers required range; Step 6 should be last adjustment.				
8	Same as "STEP 1".	1400 KC	Tune for maximum	Antenna Trimmer	"G" for maximum output

To avoid splitting the slotted head of powdered iron tuning slug in IF transformers, use an alignment tool with a blade 3/32" wide.

*Antenna trimmer "C" should first be adjusted for maximum output. Then try to increase output further by rotating gang slightly; alternately in each direction (rocking), and readjusting trimmer "C" for maximum output.

