

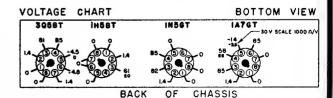
Early model.

REPLACEMENT PARTS

| CONDENSERS | | | TRANSFORMERS and | COILS | MISCELLANEOUS | | |
|-----------------------------------|----------------------|----------|---|---------------|---|--|--|
| Symbol | Oescription | Port No. | Symbol Description | Part No. | Description Part No. | | |
| C15 | .002 mfd. 600 Volt | 64B1-14 | L1 Antenna Coil | AC105-1 | Plug, Battery 5 Prong | | |
| C1, C7 | .005 mfd. 600 Volt | 64B1-12 | L2 Oscillator Coil | AB104-4 | Pointer, Dial | | |
| C10 | .01 mfd. 400 Volt | 64B1-25 | L3 lst I.F. Transformer | 72B5 | Pulley, Fibre Dial | | |
| C5 | .05 mfd, 200 Volt | 64B1-32 | L4 2nd I.F. Transformer | 72 B 6 | Scale, Glass Dial21B13 | | |
| C11, C12 | .0001 mfd. | 65B7-17 | L5 Choke Coil (RF) | AB103-1 | Screw studs (for iron cores) | | |
| C2, C6 | .00025 mfd. | 65B7-22 | Tl Output Transformer | | Shield, Tube | | |
| C8 | .0008 mfd. | 64B5-31 | (specify full speaker part no. including mfg. code | | Shaft, Tuning28A11-1 | | |
| C9 | 4. mfd. 150 Volt | 67A4-2 | when ordering.) | | Shaft and pulley (Tuner) | | |
| C3, C4 | Dual trimmer | 66A9-1 | | | Socket, octal tube | | |
| C13, C16 | .01 mfd, 400 Volt | 64B1-25 | MICCELLANDOL | Ta | Speaker and output Transformer | | |
| 613, 610 .01 ma. 400 vot. 64B(-23 | | | MISCELLANEOUS | | (specify all numbers appearing on Output Trans. as well as speaker | | |
| RESISTORS | | | Description | Part No. | when ordering.) | | |
| | | | Background, Dial | | Spring, Dial Drum Cord Tension | | |
| R12 | .75 ohm 1/4 w (wire) | 61A2-1 | Cabinet, R643-W | | Spring, Tuner slide cord tension 19A1-4 | | |
| RH | 390. ohta 1/4 w | 60B2-301 | Cable, Battery (complete with plug) | | Spring, Tuner slide pressure | | |
| R13 | 2200 ohm ¼ w | 60B2-222 | Cap, Grid | | Spring, Tuner, front bearing takeup 19A5 | | |
| RI | 15,000 ohm ½ w | 60B8-153 | Cord, Dial (5" on tuner) | 50A1~1 | Spring, Tuner, back bearing takeup 19A6 | | |
| R4 | 33,000 ohm ½ w | 60B8-333 | Drum and Hub, Tuning | A1035 | Spring, Hairpin (To hold Ant-Osc. | | |
| R3 | 220,000 ohm ½ w | 60B8-224 | Escutcheon | | coils)19A3-1 | | |
| R2 | 470,000 ohm 14 w | 60B2-474 | Iron Core, with wire (Osc.) | 71B1-3 | Switch, SPST (Economizer) SW2 | | |
| R9, R10 | 1,000.000 ohm 1/4 w | 60B2-105 | Iron Core, with wire (Ant.) | 71B1-4 | Terminal, Tuner slide cord9A8-1 | | |
| R6 | 2,200,000 ohm 1/4 w | 60B2-225 | Knob | A1028 | Washer, C4A4-1 | | |
| R5, R8 | 4,700,000 ohm ½ w | 60B2-223 | Permeability Tuner Assembly, | 22.577.0 | Washer, spring (shaft) | | |
| , 110 | ., | 0002-473 | complete | 5 3 A7-2 | Washer, spring (coils)4A6-5-0 | | |

VOLTAGE DATA

All readings made between tube socket terminals and chassis. Voltages indicated have been obtained using a Vacuum Tube Voltmeter. A second voltage reading is shown made with a 1000 ohm per voltmeter, when use of this instrument would result in appreciably lower readings. Measured with a fresh battery, volume control full on, dial at the high frequency end, no signal.



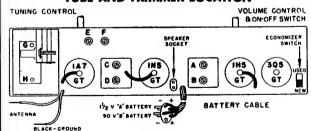
ALIGNMENT PROCEDURE

- 1. IMPORTANT—Check to see that dial pointer reaches each end of dial scale when Station Selector Control is turned from one end to the other.
- 2. Volume control-Maximum for all adjustments.
- 3. Connect radio chassis to ground post of signal generator with a short heavy lead.
- 4. Connect output meter across voice coil of speaker.
- 5. Connect dummy antenna value in series with generator output lead, when needed (see below).
- 6. Allow chassis and signal generator to "heat up" for several minutes.
- 7. Use lowest Output setting of Signal Generator capable of producing adequate Output Meter indication and then proceed in the following sequence.

| BAND | SIGNAL GENERATOR Frenquency Dummy | | Connection to Radio | Receiver Dial Setting | Trimmers Adjusted (In Order Shown) | Trimmer Function | Type of Adjustment |
|----------------|---------------------------------------|---------------------|------------------------|-------------------------------|--|-----------------------|--------------------------------|
| I.F. | Setting 455 KC. | Antenna .1 mfd. | Grid of 1A7 (Cap) | High Frequency | C-D—2nd I.F. | Output I.F. | Adjust to maximum output |
| I.F. | 455 KC. | .1 mfd. | Grid of 1A7 (Cap) | High Frequency end of dial | A-B—1st I.F. | Input I.F. | Adjust to maximum output |
| Broad- cast | 1630 KC. | .00025 mfd. Mica | Antenna Lead | High Frequency end of dial | E-(See note below) F-(See note below) | Oscillator Antenna | Adjust to maximum output |
| Broad- cast | 1300 KC. | .00025 mfd. Mica | Antenna Lead | 1300 KC. | G H | Oscillator Antenna | Adjust to maximum output |

NOTE: Before adjusting trimmers "E" and "F," make sure that each iron core is 11/4" or more outside of its coil form. If necessary, turn adjustments "G" and "H" to accomplish this.

TUBE AND TRIMMER LOCATION



CIRCUIT

Battery operated 4 Tube Superheterodyne with Single Tuning Range 535 KC. to 1630 KC. Covers standard broadcast bond, using antenna and ground. Permeability tuning on Ant. and Osc. circuits. I.F. 455 KC.

POWER SUPPLY

Single unit "AB" battery pock. 90 volt "B" 1½ volt "A." Plug in connection. Use Ensign AB48, Burgess 17G-D60, Eveready 748, General 60DL-11L, Ray-O-Vac AB-82, or Bond 0528 Battery or Equivalent.

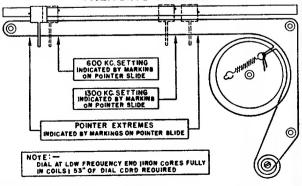
4A11_CHASSIS

ECONOMIZER SWITCH

The battery economizer switch is located on the top of the chassis, right side.

Always have this Economizer Switch in the "NEW" battery position when first placing radio in operation or when installing a new battery.

STRINGING DIAGRAM



Admiral