1—Type 12SK7 R. F. Amplifier.  1—Type 35L6GT Beam Output Amplifier.
1—Type 12SA7 Mixer, First Detector-oscillator.  1—Type 35Z5GT High Vacuum Rectifier.
1—Type 12SK7 I. F. Amplifier.  1—Type 12SQ7 Second Detector, A.V.C. and First Audio.

ALIGNMENT

Connect E- of radio chassis to ground post of signal generator through .1 mf condenser.


Trim oscillator at 1650 KC. Trim antenna at 1400 KC. (Lay signal generator lead near, but not on, loop—when adjusting trimmer.)
CONVENTIONAL ALIGNMENT
SEE SPECIAL SECTION
VOLUME VIII

Model No. D-93 radio receiver is a portable five (5) tube, 117 volt, self-contained loop antenna and batteries, designed to cover the standard broadcast band from 1820 to 536 K.C.

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Calibrating the Radio

To calibrate the radio, tune in a station of known frequency. Remove the dial lamp assembly from the back of the control unit. The calibration screw is at the bottom of the dial lamp tube. Hold the tuning knob. Insert a fine bladed screwdriver and turn this screw until the pointer is at the frequency of the station being received.

A short insulated screwdriver will be helpful.

ALIGNMENT PROCEDURE

Remove Grille, Speaker, Trimmer Caps and Rear Cover From Chassis Case—(See Figs. 3 and 5).

Volume Control—Maximum All Adjustments.

Local-Distance Switch—"Distance" Position.

Connect Radio Chassis to Ground Post of Signal Generator with a Short Heavy Lead.

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<td>I.F.</td>
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<td>456 KC</td>
<td>Control Grid (prong No. 8) 6SA7 1st Det. Tube</td>
<td>.05 mf.</td>
<td>1st I.F. (C11) &amp; (C12) 2nd I.F. (C15) &amp; (C16)</td>
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Reassemble Radio—Install in Car—Connect Car Antenna to Radio.

Car Antenna Readjustment—Tune in weak signal near 1000 KC—Readjust Antenna Trimmer C4 for maximum output.

NOTE A—Insert the antenna cable plug in the antenna socket on the chassis. The total capacity of the antenna cable and dummy antenna should be 60 mmf. If the cable, for example, has a capacity of 30 mmf., use a 30 mmf. condenser for a dummy antenna. Connect the other end of the antenna cable through the dummy antenna capacity to the output of the signal generator.

CALIBRATION—To calibrate the radio, tune in a station of known frequency. At the back of the control unit is the calibration screw. Remove the dial lamp assembly. Hold the tuning knob. Insert a fine bladed screwdriver and turn this screw until the pointer on the dial scale is at the frequency of the station being received.

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