



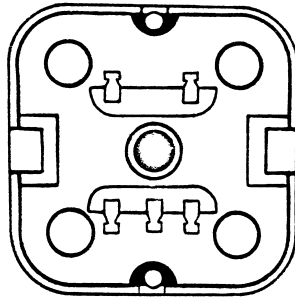
ANTENNA TRANS.

To spark coil  
(Circuit No. 56)

To junction of  
Circuit Nos. 19, 26 and 27

No connection

Chassis



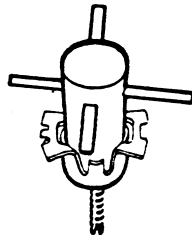
Chassis

OSCL. COIL

Chassis

Series Pad  
(Red spot under lug)

Cathode



Cathode

No. 1 IF. TRANS.

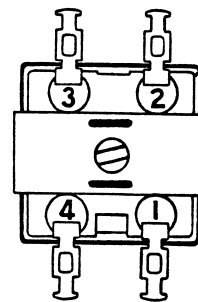
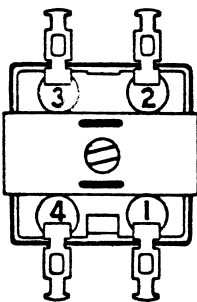
No. 2 IF. TRANS.

Grid

Plate  
(Red spot on lug)

Diode

Plate  
(Red spot on lug)

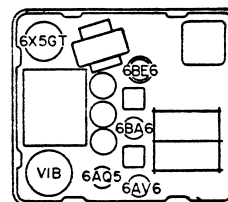
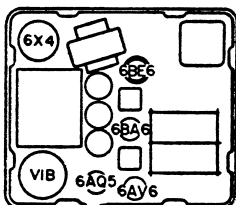


Grid Return

B+

Diode Return

B+



VALVE PLACEMENT DIAGRAM

VALVE PLACEMENT DIAGRAM

**INTERFERENCE ELIMINATION:**

No spark plug suppressors are required.

Distributor Suppressor: Insert a distributor suppressor Part No. PR314 in the high tension lead from the coil a few inches from where the lead enters the distributor. Make sure the lead is fitted well into the suppressor and that good contact is made. Securely bind the lead at both ends of the suppressor with adhesive tape.

Ignition Coil Condenser: Mount a metal-clad .5 MFD by-pass condenser Part No. PC545 under the bolt which fastens the ignition coil mount strap. Connect the lead from the condenser to the battery terminal of the ignition coil. Keep the lead as short as possible. The other side of the condenser is internally connected to the condenser case, which forms the other contact to the car body when mounted.

Generator Condenser: Mount a .5 MFD metal-clad condenser Part No. PC545 on the generator mount bolt nearest the armature terminal. Connect the lead from the condenser to the armature terminal, not the field terminal; make the lead as short as possible.

NOTE.—The nuts and mounting positions of the by-pass condensers must be entirely free of duco paint, grease and varnish to ensure a good electrical contact.

**ALIGNMENT PROCEDURE**

**ALIGNMENT CONDITIONS:**

Load Impedance: 5,000 Ohms.  
 Output Level: 50 Milliwatts.  
 Vol. Control: Max. Vol. (fully clockwise).

**EQUIPMENT:**

Signal Generator:  
 Output Meter:  
 Alignment Tools: Part No. M195, PM581.

Mica Capacitor: 0.01 MF (For I.F.T. alignment) Part No. PC145.

Dummy Antenna: 65MMFD. Part No. M160-1.

Intermediate Freq.: 455 Kc/s.

The top and bottom sections of the receiver metal case have to be prised off to gain access to the IF. trans, adjustable iron cores and the RF. circuit trimmer condensers.

| Operation No. | Generator Connection                          | Generator Frequency | Dummy Antenna   | Instructions   |
|---------------|---|---------------------|---|--|
| 1.            | To control grid pin No. 1 of 6BA6 I.F. valve. | 455 Kc/s.           | 0.01 MFD mica capacitor in series with generator.                 | Peak 2nd I.F. Trans. pri. and sec. for max. output.  |
| 2.            | To control grid pin No. 7 of 6BE6 valve.      | 455 Kc/s.           | 0.01 MFD mica capacitor in series with generator.                 | Gang plates fully out of mesh. Peak 1st I.F. trans. pri. and sec. for max. output.   |
| 3.            | Repeat operations Nos. 1 and 2.               |                     |   |  |
| 4.            | To antenna lead-in socket.                    | 600 Kc/s.           | 65 MMFD dummy antenna (Part No. M160-1) in series with generator. | Turn gang to 600 Kc/s. Peak oscil. coil inductance trimmer (iron core). Rock the gang to and fro through the signal while adjusting. |
| 5.            | To antenna lead-in socket.                    | 1610 Kc/s.          | 65 MMFD dummy antenna (Part No. M160-1) in series with generator. | Turn gang plates fully out of mesh and peak oscillator trimmer condenser.  |
| 6.            | To antenna lead-in socket.                    | 1400 Kc/s.          | 65 MMFD dummy antenna (Part No. M160-1) in series with generator. | Turn gang to 1400 Kc/s. and peak antenna trans. trimmer condenser for max. output.   |
| 7.            | Repeat operations Nos. 4, 5 and 6             |                     |   |  |

Tuning range after alignment 535 - 1610 Kc/s.