CAR RADIO MODEL 40A051-P **INSTRUCTION DATA**

Suppression of Motor Noise

The following procedure has been found to be effective in reducing motor noise to a satisfactory level in most cars. Follow the steps in order as given. Adcases of motor noise, is not covered here and will be ditional procedure which may be required in exceptional found by referring to current literature on this subject.

and mounting strap of the condenser to ground. This unit, therefore, must be well grounded at its mounting lead to the battery terminal of the generator. The case denser is required in all cases GENERATOR CONDENSER - A generator con Connect the condenser

nect the condenser. a recommendation for the proper post at which to terminal. Most manufacturers at the present time have Important not to connect the condenser across the field CAUTION-In cars with automatic regulators it is con-

out the high tension lead CLOSE TO THE DISTRIBUTION And use a wood screw end type distributor suppressor in this line. end the distributor cap and connect the wire to the other tension lead to the distributor. Insert the suppressor into DISTRIBUTOR SUPPRESSOR—A distributor suppressor will be required in most cases. Remove the high the suppressor. If this is not practical,

WITHDRAW ANTENNA CABLE PLUG

If motor noise is heard, proceed as follows: Turn on the radio and start the motor.

SHIELDING HIGH TENSION LEAD—In cars in which the coil is mounted on the instrument panel or on the driver's side of the fire wall, it is sometimes necessary to shield the high tension lead between the coil and the distributor.

To do this, cover this lead first with loom and then with braided shielding. Run this lead as directly as possible from the coil to the distributor. Ground one end of the shielding to the instrument panel or fire wall, depending on which is closer, and the other end to motor block.

duce the noise. To bond the cables to the fire wall, clean the point of contact, wrap a length of braided shielding around the cable, and solder the connection. Then solder the end of the shielding to the fire wall or ground it under a screw head if one is convenient. Sufficient play should be left in the bonding shielding so that movement of the cables or tubing will BONDING CABLES—Try grounding to the fire wall cables and tubing which pass through it such as oil lines, gas lines, etc. By means of a file, contact can be established between any of the lines and the fire wall, in order to determine whether such a ground will re-

not loosen this shielding from the fire wall

sible for the steering column foot pedals, and brake lever to carry interference to the back of the fire wall at which point it may affect the radio. See if each of will reduce the noise. A piece of one inch braided shielding should be used if such a ground is necessary and this shielding may be grounded under a screwhead, nut, or may be soldered in position. the frame in order to determine whether such a ground tact can be established between any of these items and By means of a file or a braided shielding jumper, conthese items are well grounded to the frame of the car. BONDING STEERING COLUMN, ETC .-- It is pos-

THEN REINSERT ANTENNA CABLE PLUG

If motor noise is heard when the antenna cable is reconnected proceed as follows until the noise is satisfactorily reduced

light lead connection at the back of the instrument panel and ground this wire. If this is found to reduce the noise noticeably, interference is being radiated by the dome light lead. Reconnect the dome light lead and then connect a .5 mfd. bypass condenser between the point at which this lead leaves the pillar post and ground. the dome light lead is generally experienced only when a roof antenna is being used. Disconnect the dome DOME LIGHT LEAD—Noise due to radiation from dome

BYPASS CONDENSERS — Try a .5 mfd. bypass condenser from the ammeter to ground and see if interference is reduced. Install this condenser permanently if there is an improvement

effect these condensers have on the noise pick-up.
Try a .5 mfd. condenser from the "Hot" si In like manner, try a .5 mfd. condenser from car fuse to ground, switch to ground, tail light and stop light connections to ground, windshield wiper and various other 6 volt connections to ground, noting what

the coil primary to ground. of

The electric gauges used for oil, water, and gas, are often a source of interference and bypass condensers should be tried.

the high and low tension leads as far apart from each other as possible. If separating the two leads is not other as possible. sufficient, shield and ground the shield of the low tension lead. distributor are run close together. are in the same conduit. high and low tension leads between the coil and HIGH AND LOW TENSION LEADS-In some cases If this is the case, remove the In some cars, they

transmission, radiator, hood, and muffler to the frame of the automobile. To obtain a good electrical connection, scrape off the paint, if necessary, at the point where ground contact is made. motor must, in every case, be well grounded to the frame of the car. If it is not, use a very heavy braided grounding of the metal fire wall, lead for this purpose, similar to a storage battery ground GROUNDING MOTOR AND OTHER PARTS-The In like manner, it may be necessary to check the instrument panel,

> small machinist's hammer. This will lessen the gap between the rotor arm and the stationary contacts, reducing the spark. Be sure, after peening the arm, that it does not strike the stationary contacts. tor noise, it is advisable to peen the distributor rotor arm, that is, increase the length of the arm by using a PEENING ROTOR ARM—In extreme cases of mo-

plug suppressors. suppressor is put on each plug. These are not regularly sists, spark plug suppressors must be installed. Ninety-five per cent. of all cars will not require spark supplied with the radio and must be purchased extra SPARK PLUG SUPPRESSORS-If motor noise per-

suppressors, and plug wires. electrical connection is made between the spark plugs, Care should be taken that a good mechanical and

apply the brakes. If the noise stops, the source of the static is in the wheels. The use of a front or rear wheel static eliminator will generally end the trouble. then with the motor shut off and the clutch disengaged being caused from this source, set the car car antenna is being used. source is generally experienced only when an under WHEEL OR BRAKE STATIC-Noise from this To determine if noise in motion;

INSERTING VIBRATOR UNIT

IMPORTANT—The vibrator unit can be inserted in two ways. The proper method of insertion will depend on which terminal of the car battery is grounded. If the POSITIVE (+) terminal of the car battery is grounded, line up the + mark on the top of the vibrator with the arrow on the chassis base. If the NEGATIVE (—) terminal of the car battery is grounded, arrow on the chassis base. line up the - mark on the top of the vibrator with the

REMOVING CHASSIS COVER

Unscrew the four cover screws. The end of the cover at which one screw is used has two hooks which act as hinges. Swing the cover away from the chassis case until these two hooks are free from their holes

BATTERY CABLE AND FUSE

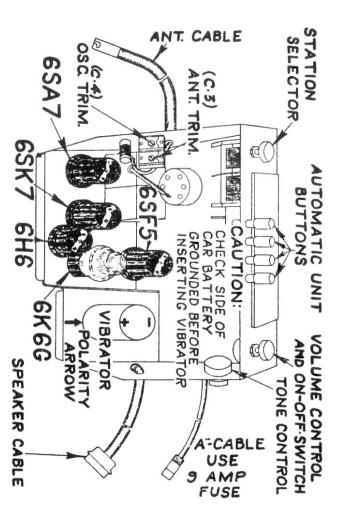
The battery connection is made at the ammeter. The end of the battery cable with the connecting lug is secured to one of the posts at the back of the ammeter in the instrument panel. The other end of the cable with the fuse receptacle connects to the battery cable from the radio after the fuse has been inserted. A 9 ampere automobile fuse is used.

DIAL LAMP

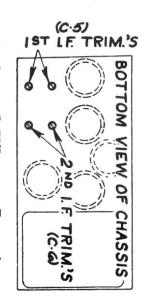
place the lamp, take off the chassis cover and lift the lamp socket assembly off the bracket. A No. 51 bayonet pin base lamp is used. To re-

ANTENNA

a door hinge, fish pole, over-the-roof, or running board antenna. In all of the above installations, the antenna should be mounted on the same side of the car the radio is mounted or the same side as the antenna socket is cars with steel roofs it will be necessary to use



Electrohome 40A051-P 6 VOLT AUTOMOBILE RADIO



Tube and Vibrator Location.

ALIGNMENT — PROCEED IN SEQUENCE LISTED.

and arm On our later models (1) returned to the 6K6G R-3 is connected to 2nd I. F. secondary instead of R-4, (2) the tone control end cathode instead of ground,

Oscillator	Antenna 1460 K. C.	1st I. F.	2nd I. F.	Band
-				Switch Setting
100 Mmfd.	100 Mmfd.	.1 Mfd.	u .	Dummy Antenna
Antenna	Antenna	Grid of 6SA7 Converter		Connect Generator To
600 K. C.	1460 K. C.	1550 K.C.	5	Radio Dial Setting
600 K. C.	1460 K. C.	455 K. C.		Generator Frequency
	B.C. Osc. C-4 B.C. Ant. C-3	1st I. F. C-5		Trimmer Adjusted
l	Maximum Output	Maximum Output		Adjustment
Check Only Microvolts				Note
10 Microvolts	5 Microvolts	85 Microvolts		Appr. Sensity. For 50 M. W. Output