



Phonola Electrohme 8AL51-P

ALIGNMENT PROCEDURE

Remove the bottom and front chassis covers. Directions for removing the bottom cover are in the instruction booklet.

To remove the front cover, first pull the knobs and buttons off the shafts. Remove the two screws at the top and the two screws at the sides of the front cover. Press in the sides of the chassis case to release the lugs at the sides of the front cover. Pull outward on the bottom of the front cover and then push up until the lugs at the top are released.

Set the signal generator for 456 K.C. and connect the output of the signal generator through a .05 mf. condenser to the control grid of the 1st Detector. Connect the ground lead of the signal generator to the chassis. Set the volume control at maximum. Attenuate the signal from the signal generator to prevent the leveling off action of the AVC.

Then adjust the four I. F. trimmers until maximum output is obtained. These trimmers can be reached through the four holes in the back wall of the chassis case. It will be necessary to pull out the fiber insulating sheet a slight amount.

Insert the antenna cable plug in the antenna socket on the chassis.

If the antenna is connected at the HC terminal and the entire 60-inch shielded cable (70 mmf.) is being used, connect the antenna wire at the other end through a 120 mmf. condenser to the antenna post of the signal generator.

If the antenna is connected at the LC terminal, the antenna cable has been cut as explained in the instructions. If cut in half (30-inch length), the capacity of the antenna cable is approximately 35 mmf. Connect the antenna wire, in this case, through a 25 mmf. condenser to the antenna post of the signal generator.

Set the signal generator for 1550 K.C. Turn the rotor of the tuning condenser to the full open position. Adjust the trimmer of the oscillator section of the gang condenser until maximum output is obtained.

Set the signal generator for 1400 K.C. Turn the rotor of the tuning condenser carefully until maximum output is obtained. Adjust the trimmer of the antenna section of the gang condenser for maximum output.

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, line up the — mark on the top of the vibrator with the arrow on the chassis base.

6 VOLT AUTOMOBILE RADIO

Electrohome 8AL51-P

Alignment & Antenna Capacity Adjustment

ANTENNA CAPACITY

The antenna coil is designed for car antennas with a capacity of 190 mmf. for the HC connection and 60 mmf. for the LC connection. This capacity is the total capacity of the antenna and the shielded lead.

HIGH CAPACITY

Capacity—210 mmf. (Total capacity of antenna and 60 inch shielded cable.)

Types of Antennas—Running board; over-the-roof types which are long and are mounted close to the metal roof of the car; ordinary built in roof antennas (not metal roof).

LOW CAPACITY

Capacity—60 mmf. (Total capacity of antenna and shielded cable cut to about 30 inch length.)

Types of Antennas—Door hinge; fish pole; over-the-roof types which are mounted quite a distance from the metal roof of the car.

In cars with steel roofs it will be necessary to use 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 located. The shielded antenna cable to the radio must be shortened if an LC antenna is used.

The 1936 Chrysler Motor cars (except Plymouth—but including Chrysler, Dodge and DeSoto) have a steel roof, separated from the body proper, which is used as an antenna. The capacity of these antennas is about 1500 mmf. If this radio is installed in these cars, it will be necessary to use a running board, fish pole, or door hinge antenna.