

## GENERAL DESCRIPTION

The Lafayette HA-250 is a completely self-contained 50 watt (100 watts PEP) mobile linear amplifier covering the 6, 10 and 15 meter amateur bands, and the 11 meter Citizens Band (illegal on Citizens Band in U.S.A.). The unit is designed to operate with any signal input... AM, FM, SSB, DSB and CW... over the entire operating spectrum (20-54 Mc). The "Pi" network will effectively match loads from 40 to 600 ohms. The linear employs an RF sensing relay which automatically actuates the B+ and antenna circuits whenever the transmitter is activated. The tuning meter measures relative RF current and provides an indication of when the antenna is properly loaded and the final is tuned. The meter also reads relative RF antenna current when the linear's circuits are not energized, thus permitting the transmitter to be matched to the antenna "through the linear". The unit is broadband, hence when set to a desired band, it is possible to operate over the entire band without retuning. The power supply is fully transistorized while signal amplification is accomplished with two 12JB6 tubes operating in the parallel grounded grid mode. The unit was designed to operate from 11.5 to 14.5 volts DC, negative ground only.

## MOBILE INSTALLATION

Before installing the linear in a vehicle, be sure to choose a location which is convenient. Some typical locations are as follows: under the dash, the underside of a transmitter or transceiver, in the trunk. The linear has holes in both the top and bottom covers on the left and right sides to facilitate mounting with the brackets and hardware supplied.

Figure 1 illustrates top mounting; for installations utilizing the bottom mounting (trunk, etc.), simply invert the mounting brackets and attach them to the bottom of the linear's chassis as illustrated in Figure 2.

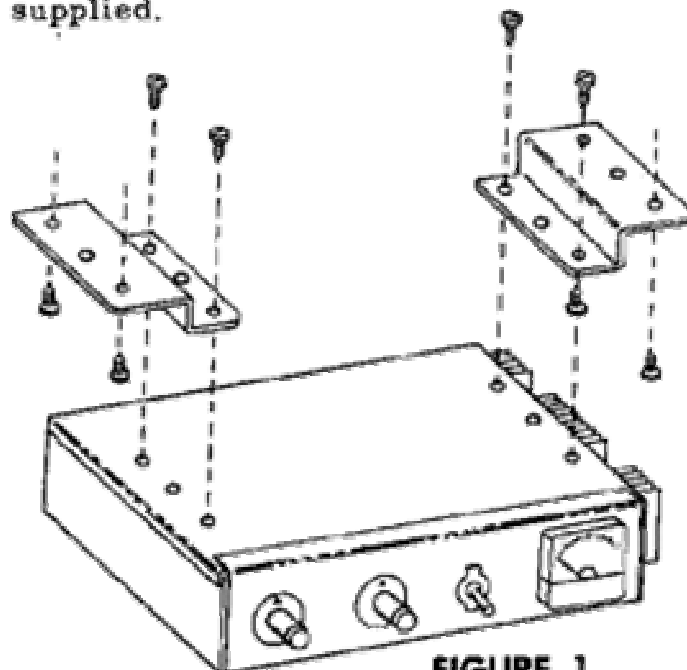


FIGURE 1