

INSTALLATION of PORTA • MOBIL TWO-WAY RADIO

with
Extended Local Control Unit

The General Electric Porta-Mobil 2-Way FM Radio with Extended Local Control is designed for use on a wide variety of vehicles. The 10- or optional 20-foot control cable allows the extended local control unit to be mounted in a convenient position for the operator.

LB1-3672 A DF-9018

TRANSMITTER-RECEIVER INSTALLATION

The transmitter-receiver portion of the two-way radio can be mounted horizontally, or vertically. (Figure 1).

Use the mounting frame as a template to locate holes, and drill mounting holes with a #25 (5/32-inch) drill. Attach the frame to the mounting surface with #10 x 5/8-inch screws and lockwashers. Slide radio into frame and latch. An optional bracket with lock is available to lock the radio into the mounting frame to prevent unauthorized removal of the radio.

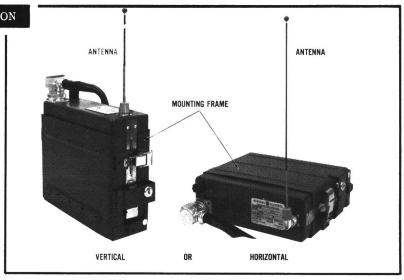


Figure 1- Transmitter-Receiver Installation

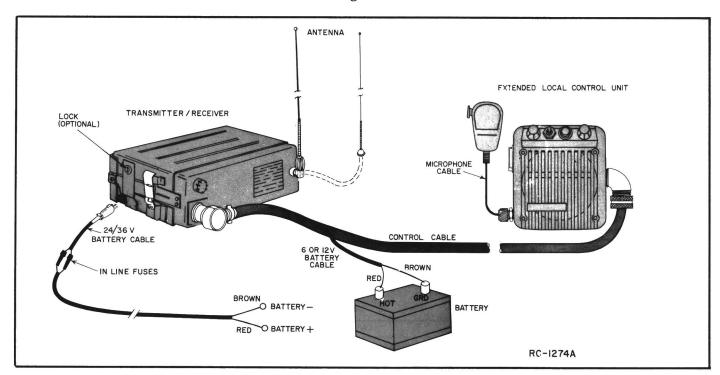


Figure 2- Cabling Diagram

2 CONTROL CABLE ROUTING

After mounting the transmitter-receiver, connect cable plug to matching socket on the transmitter-receiver. Route the cable to the control unit location, keeping cable away from sharp edges, exhaust pipes, and any moving parts on the vehicle. Use existing holes in the vehicle for channeling cable. If a hole must be made for passage of the cable, drill a 7/8-inch hole and insert a rubber grommet.

MICROPHONE AND CONTROL CABLE CONNECTIONS EXTENDED LOCAL CONTROL UNIT 8-1/2 AND IO-FOOT CABLE ONLY-LOOSEN SPEAKER MOUNTING SCREW, SLIDE UNUMBERED WIRE UNDER AND TIGHTEN SCREW. REMOVE KNURLED NUT, CONICAL WASHER RUBBER WASHER AND SLIDE OVER CABLE. INSERT CABLE INTO FITTING. 3 REMOVE KNURLED NUT, CONICAL WASHER, RUBBER WASHER AND SLIDE OVER CABLE. INSERT CABLE INTO FITTING. CONNECT SEMERAL @ ELECTRI NUMBERED LEADS TO CORRESPONDING NUMBER ON TERMINAL BOARD. KNURLED CONICAL RUBBER KNURLED NUT RUBBER CONICAL WASHER WASHER CONTROL W SH N BR O O O O O O O O O O 28 27 26 25 24 23 22 21 20 0 0 0 0 0 0 0 0 0 0 99999999 TERMINAL CONNECT LEADS TO TERMINAL ROARD. BLACK WIRE TO PIN 25 (BK) WHITE WIRE TO PIN 28 (W) RC-1276 SHIELD TO PIN 27

Figure 3- Cable Connections

4 EXTENDED LOCAL CONTROL UNIT INSTALLATION

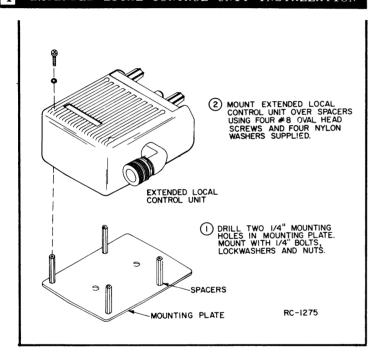


Figure 4- Extended Local Control Unit Installation

6- or 12-Volt Power Supplies

POWER CONNECTIONS

These units are shipped wired for negative ground systems. For positive ground systems, remove power supply from radio and make changes indicated on power supply cover. If optional 10-watt power amplifier is used, check to be sure the radio power supply input voltage and polarity (as shown on radio nameplate) agrees with the vehicle battery voltage and polarity, before making power connections.

Route and dress brown and red wires to battery, cut to proper length and attach lug terminals. Then connect the red wire to "hot" battery terminal and brown wire to ground battery terminal.

24/36-Volt Power Supply

The 24/36 Volt Power Supply can be used with positive or negative ground systems or with ungrounded systems without modification. Connect the ring terminal end of the battery cable to the vehicle battery, with the brown lead to negative and the red lead to positive. Then connect the plug on the battery cable to the jack on the power supply.

6 ANTENNA INSTALLATION

If the screw-on type antenna is supplied with the radio, screw antenna directly into antenna jack on the transmitter-receiver. If radio is mounted horizontally, attach right angle fitting to jack, then screw antenna into socket. For mobile antennas, install antenna following instruction packaged with the antenna. Antenna must be installed in accordance with good engineering practice for optimum results.

PLACING THE TWO-WAY RADIO IN OPERATION

After installation is completed, an electronics technician with a 1st or 2nd Class FCC Radiotelephone license must make the final transmitter and receiver adjustments as described in the MAINTENANCE MANUAL. Be sure a RADIO TRANSMITTER IDENTIFICATION form (FCC Form 452-C or General Electric Form ECP-82) is filled out and attached to the transmitter.

