



GE Mobile Communications



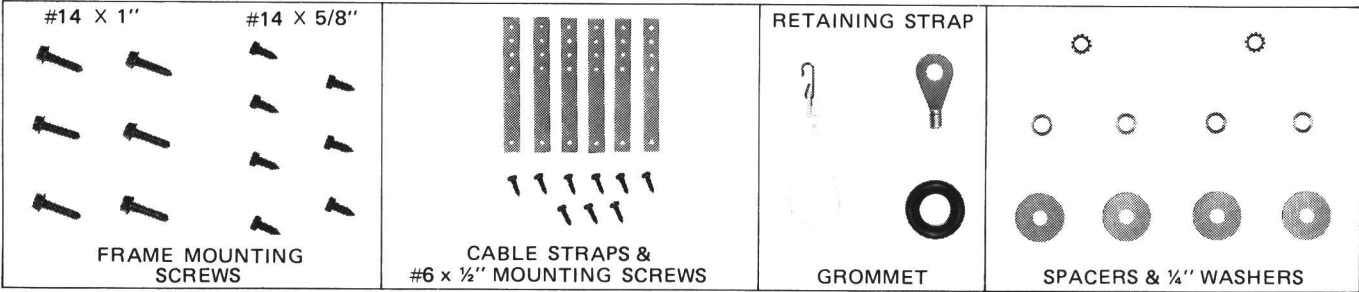
RANGR™ Series

UNPACKING AND CHECKING EQUIPMENT

Refer to the Maintenance Manual for instructions. When ready for installation, carefully unpack the radio. It is recommended that you identify the items in the packing case and check them off in the appropriate column below before discarding the packing material. If any damage has occurred to the equipment during shipment, file a claim with the carrier immediately.

- Two-Way Radio☐
- Tuning Tool B19/MPTC00003A☐
- Mounting Bracket B19/MPBX14964☐
- Mounting Hardware B19/MPXP01744☐

MOUNTING HARDWARE



PLANNING THE INSTALLATION

The accompanying photographs or typical installations should help you in planning your installation.

Before starting, plan your installation carefully—so that it will be:

- Safe for the operator and passengers in the vehicle
 - Convenient for the operator to use
 - Neat
 - Protected from damage from water
- Easy for the serviceman to service
 - Out of the way of auto mechanics
 - Out of the way of passengers
 - Positioned to protect the front connector

It is suggested that you take advantage of the experience of one of the many authorized General Electric Service Stations located throughout the United States by having them install your two-way radio and make the final adjustments.

WARNING

Interference with Vehicular Electronics — *Electronic fuel injection systems, electronic anti-skid braking systems, electronic cruise control systems, etc., are typical of the types of electronic devices which may be prone to malfunction due to the lack of protection from radio frequency energy present when transmitting. If the vehicle contains such equipment, consult the dealer for the make of vehicle and enlist his aid in determining if such electronic circuits will perform normally when the radio is transmitting.*

TYPICAL INSTALLATION

The mobile combinations are designed so that the two-way radio can be mounted up to 6 meters from the operator such as in the trunk compartment or under the seat of a vehicle. The position of the front connector should always be a consideration. When the radio is mounted in the trunk of the automobile, it should be located in one corner and positioned with the front connector facing a vertical edge. This will provide maximum protection for the radio cable connections. Allow enough room to unlock. The control unit mounts on the instrument panel (or the transmission hump) of the vehicle, along with the microphone and speaker. Refer to the Control Unit installation manual for detailed Installation Instructions.

RADIOS INSTALLED IN VEHICLES POWERED BY LIQUEFIED (LP) GAS

WARNING

Radio installations in vehicles powered by liquefied petroleum gas must conform to the following requirements.

Radio installations in vehicles powered by liquefied petroleum gas with the LP-gas container in the trunk or other sealed-off space within the interior of the vehicle must conform to the National Fire Protection Association Standard NFPA 58 which requires that

- Space containing radio equipment shall be isolated by a seal from the space containing the LP-gas container and its fittings.
- Outside filling connections shall be used for the LP-gas container.
- The LP-gas container space shall be vented to the outside of the vehicle.

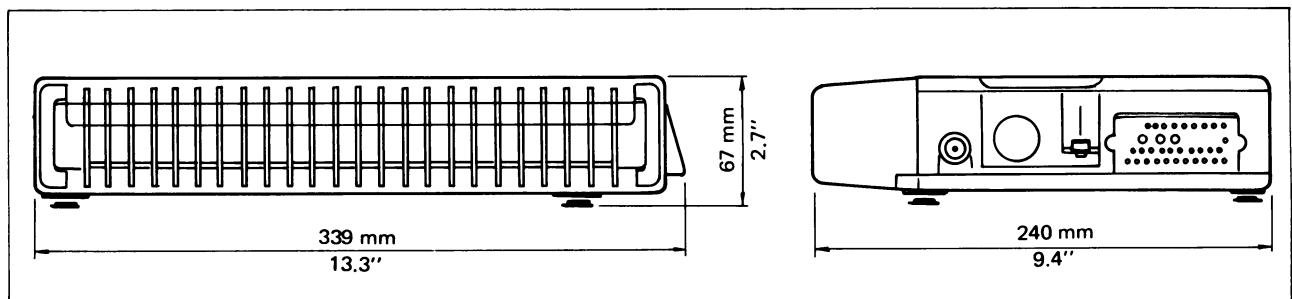


Figure 1. Mounting Dimensions

EQUIPMENT REQUIRED

- Electric drill for drilling mounting holes.
- Phillips and flat-blade screwdrivers, 1/4-inch and 5/16-inch hex-head drivers for mounting screws.
- No. 9 (3/16-inch) Drill for 1/4-inch or No. 14 Self-Tapping Screws.
- No.36 (7/64-inch) Drill for No.6 Self-Tapping Screws.

RUNNING CABLES

To assure the feasibility of the cable routings you plan to use, it is suggested that you run the cables before mounting the two-way radio. Be sure to leave some slack in each cable going to the control unit and two-way radio so that they may be pulled out for servicing with the power applied. Refer to the Installation Manual for the Control Unit and Accessories for detailed procedure.

Try to route the cables away from locations where they will be exposed to heat (exhaust pipes, mufflers, tailpipes, etc.), battery acid, sharp edges, or mechanical damage or where they will be a nuisance to automobile mechanics, the driver, or passengers. Keep wiring away from ignition circuits to help prevent noise pickup in the radio equipment.

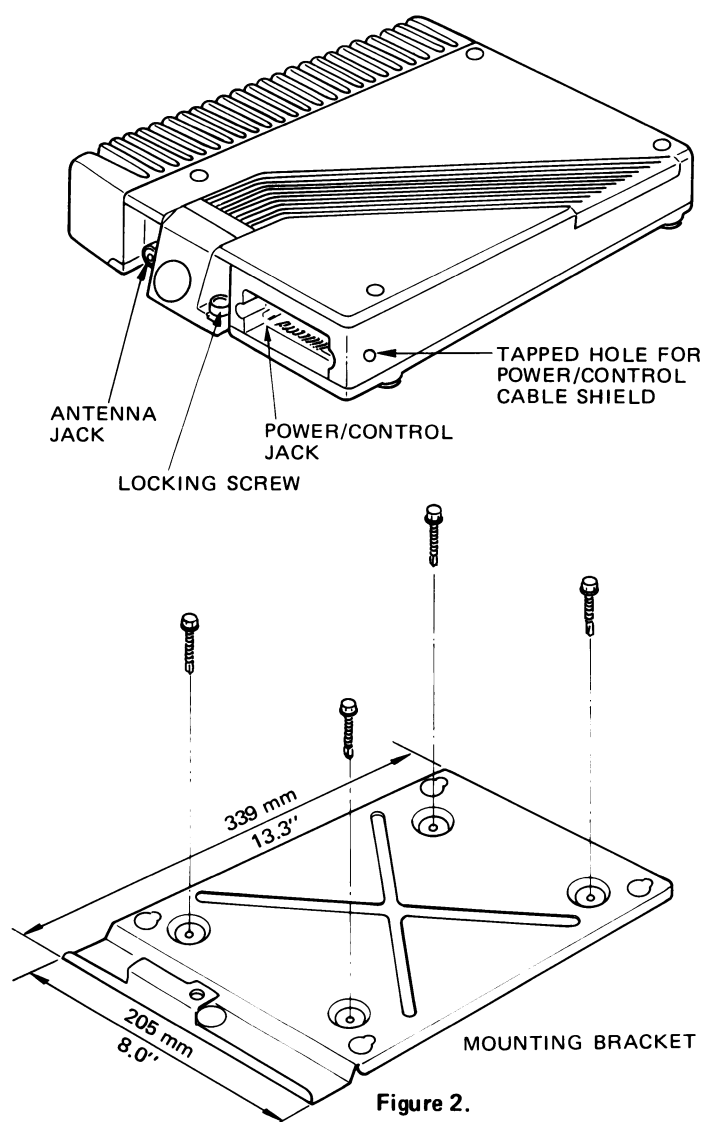
In addition, try to utilize existing holes in the firewall and trunk wall and the channels above or beneath the doors. You may also use the channels through door and window columns, where they are convenient for running cables, unless you plan to install rigid or flexible conduit in which to run the cables.

TWO-WAY RADIO

The two-way radio may be mounted horizontally, vertically, or on its side (fins up). Select a mounting location with sufficient room for the radio to be pulled out of the mounting frame for servicing. Mount the two-way radio as shown in Figure 2.

WARNING

For passenger safety, mount the radio securely so that the unit will not break loose in the event of a collision. This is especially important in station wagons, vans and similar type installations where a loose radio could be extremely dangerous to the vehicle occupants.



- ① TO REMOVE RADIO FROM MOUNTING FRAME UNLOCK RADIO (IF EQUIPPED) AND LOOSEN THE SCREW LOCATED AT THE CENTER OF THE FRONT SIDE. THEN PULL RADIO FORWARD OUT OF FRAME.
- ② INSTALL MOUNTING FRAME WITH NO. 14 x 5/8 INCH HEXHEAD SELF-TAPPING SCREWS. (USE 1-INCH SCREWS IF NEEDED). USE 1/4-INCH FLAT WASHERS (AND SPACER WASHERS IF REQUIRED) TO LEVEL RADIO. WHEN NECESSARY, USE SPACER WASHERS TO PREVENT MOUNTING SCREWS FROM PENETRATING GAS TANK, GAS LINES, ETC..
- ③ REPLACE RADIO IN MOUNTING BRACKET TIGHTEN LOCKING SCREW TO SECURE IN FRAME AND LOCK RADIO (IF EQUIPPED).
- ④ CONNECT THE POWER/CONTROL CABLE AND ANTENNA CABLE TO THE JACKS. ATTACH POWER/CONTROL CABLE SHIELD TO RADIO FRAME WITH BOLT (14A701631P612) SUPPLIED WITH CABLE.

CAUTION

Be careful to avoid damaging some vital part of the vehicle when drilling mounting holes. Always check to see how far the mounting screws will extend below the mounting surface before installing.



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