General Electric GE MARC Y™TRUNKED **MOBILE COMBINATIONS**

(2.3'')

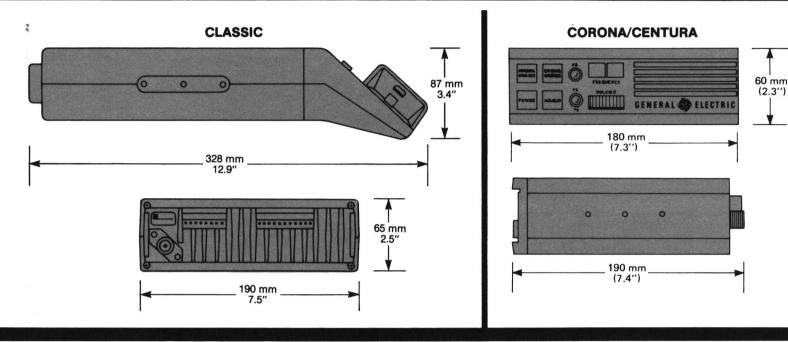


Figure 1 - Mounting Dimensions

INSTALLATION EQUIPMENT

The equipment required for installing the Radio includes;

- An electric drill for drilling mounting holes
- Drills and circle cutters (see sizes in box below)
- A soldering iron for the antenna cable
- Phillips and PoziDrive® screwdrivers and a 7 mm hex head driver for mounting screws.

DRILL SIZES

No. 31 (1/8 inch) Drill for No. 8 Self-Tapping Screws No. 36 (7/64-inch) for No. 6 Self-Tapping Screws 3/4-Inch Punch or Holesaw for 146—470 MHz Antenna (optional) 5/8-Inch Punch or Holesaw for rubber grommet.

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UNPACKING AND CHECKING EQUIPMENT

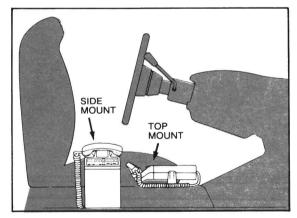
Carefully unpack the Two-Way Radio. It is recommended that you identify the items ordered and check them off in the bos below before discarding the packing material. If any damage has occurred to the equipment during shipment, file a claim with the carrier immediately.

EQUIPMENT & OPTIONS

GE MARC V	Ignition Switch Control Cable 19A137818G10
Microphone 19B209670P1/19B233577P2	Channel Guard Hookswitch 19C320318G4
Microphone Bracket 7141414G2	Antenna, Cable and RF Connector 19B209568P4
Mounting Hardware Kit 19A138051G5	Speaker, External 19C320302G10
Power Cable with System Plug 19B23925G2	Desk Top Stand 19B209687P3 & Mounting Hardware 19A138051G8

PLANNING THE INSTALLATION

The accompanying illustrations should help you in planning your installation. Before starting, plan your installation carefully—so that it will be convenient for the operator to use, neat, protected from water damage, easy to service, and out of the way of auto mechanics and passengers.



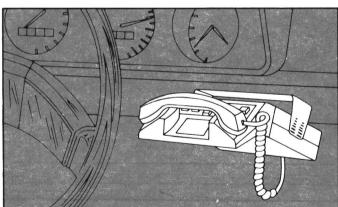


Figure 2 — Typical Hump or Console Mount — Typical Dash Mount

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 GE MARC V 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 tpes 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.

POWER CABLE

The Power Cable consists of a fused yellow lead, black lead, and a 11-pin systems plug (see Figure 3). To install the Power Cable, start with the plug end of the Cable at the location of the radio and run the two leads to the vehicle battery. If an existing hole is not conveniently located for the passage of the Power Cable through the firewall, drill a 5/8-inch hole and insert the rubber grommet provided. Connect the yellow fused lead to the positive (+) battery terminal, and the black lead to the negative (—) battery terminal. Always locate the fuse as close to the battery as possible. Coil up the surplus cable and secure it out of the way with the retaining strap provided. Be sure to leave some slack in the cables going to the radio so that it may be pulled out for servicing with the power applied.

NOTE -

The General Electric MARC V mobile combination operates in 12-volt negative ground systems *only!* Always check the battery polarity and voltage of the vehicle before installing the radio.

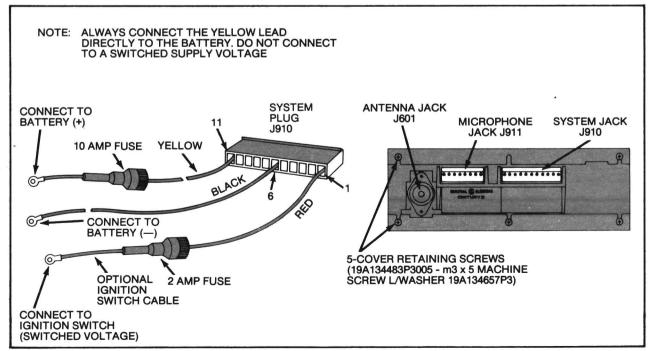


Figure 3 — Power Cable and Systems Plug

INSTALLING THE RADIO

Mount the radio so that the controls are within reach of the operator. Use the mounting bracket as a template to locate the holes, and mount the radio as shown in Figure 4. Be sure to leave enough room at the rear of radio for cable connections. Before attaching the radio in the mounting brackets, connect the antenna plug, systems plug and microphone. Torque radio mounting bolts to 1.58 to 2.14 Newton Meters (14 - 19 inch pounds). Do not exceed torque rating.

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 installtions where a loose radio could be extremely dangerous to the vehicle occupants.

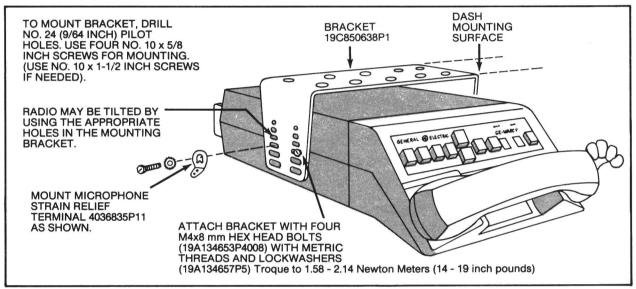


Figure 4 — Installing Mounting Bracket, Typical

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.

MOBILE MICROPHONE (CORONA/CENTURA)

Mount the microphone where it will be within easy reach of the operator, but will not interfere with safe operation of the vehicle. After the microphone bracket is mounted, connect the microphone plug into the microphone jack on the rear of the radio and connect the strain relief to the terminal shown in Figure 4.

DESK MICROPHONES (CORONA/CENTURA)

Two Desk Microphones are available for use with GE MARC V radios: 19B209695P2 (Black) or 19B209694P3 (Beige)

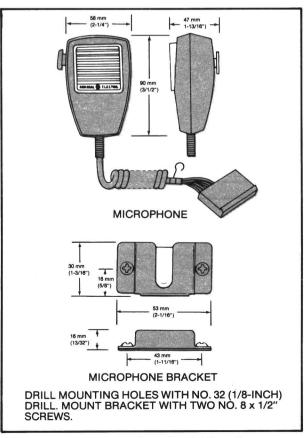


Figure 5 — Microphone Bracket Mounting

EXTERNAL SPEAKER (OPTIONAL)

The speaker should be mounted where it will direct sound to the operator, but not interfere with his vision or provide a hazard to passengers in case of an accident. The speaker may be mounted on the lower edge of the instrument panel, on the firewall, above the windshield in some trucks, or behind the built-in speaker grille in some vehicles. Use the mounting bracket as a template for locating the mounting holes, and mount the speaker as shown in Figure 6. Remove the top cover of the radio and remove the jumper between H5 and H6 on the Synthesizer/Interconnect board to disable the internal/speaker. Connect external speaker wires to P910-7 (Speaker Lo) and P910-3 (Speaker Hi). In Station Applications where the Power Supply is used, remove jumper connected between P801-3 and 10 on power supply cable and connect the speaker leads to P801-3 and P801-7.

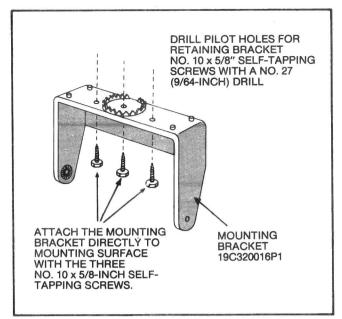


Figure 6 — Mounting the Speaker

IGNITION SWITCH CONTROL CABLE

With ignition switch control, the transmitter and receiver operate only with the ignition switch in the Accessory or On position. To install the cable, connect the red lead to System Plug J910-1 (see Figure 3). Connect the red fused lead to the ignition switch terminal.

NOTE -

To maintain microprocessor memory be sure that jumper H7 - H8 on Synthesizer/Interconnect board is installed if only one power lead is connected. If two leads are used, be sure J910-1 is connected to battery A (+)

AC POWER SUPPLIES (OPTIONAL)

The rubber feet supplied with the AC power supply should be applied to the bottom of the supply. These feet protect the surface on which the units are located.

To install the feet, remove the backing strip and apply the adhesive side of the feet to the bottom corners of the power supply. The feet should be approximately one-half inch from the edge.

After positioning the radio and power supply, install the ground wire as shown in Figure 9. This grounding will help protect operators and equipment from injury or damage during lightning storms.

An eight-foot power cable is provided to allow for remote power supply location. Connect the power supply jack to the radio and AC line cord to AC source.

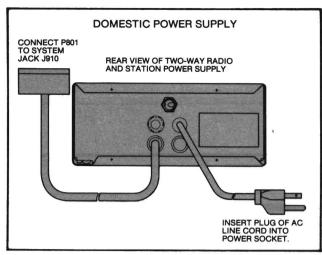


Figure 7 — Installing Power Supply

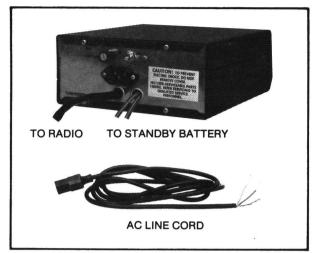


Figure 8 — International Power Supply

DESK TOP STAND (OPTIONAL)

Place radio in desk top stand and align mounting holes. Insert the lockwashers and four m4x8 hex head bolts through the mounting bracket and secure radio. Before tightening bolts, position radio to the desired upward angle for the operator's convenience.

The desk top stand is normally used in station applications and is substituted for the standard mobile mounting bracket.

Complete the installation by connecting the microphones, antenna, power cable and ground cable.

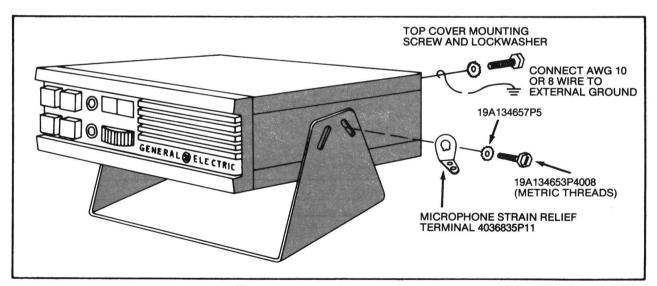


Figure 9 — Desk Top Stand with Radio

UNIVERSAL TONE CABLE

The Universal Tone Cable option is used with external encoders and decoders. The cable consists of a 9-pin Winchester connector and cable W1.

SPEAKER MUTING

Equipment modifications required for speaker muting (when used with decoders) depend on which GE MARC V radio is used: Classic, Centura, or Corona.

When the Corona or Centura models with internal speaker are used remove jumper H5 - H6 on the Synthesizer/Interconnect board and add jumper H15 - H16.

When an external speaker is used (with any radio), remove speaker lead from P910-3 and connect to P910-10. Add jumper H15 - H16 on Synthesizer/Interconnect board.

ANTENNA (OPTIONAL)

Installation instructions for the antenna are packaged with the antenna. The antenna must be installed in accordance with good engineering practice for optimum results.

The most effective mounting position for the antenna is usually in the center of the roof of the vehicle. The antenna cable will normally run from the rear of the Two-Way Radio, behind sections of the interior trim to a door or window post, and then up between the roof and headliner in the passenger compartment to the antenna base.

Try to route the cable away from locations where it will be exposed to heat, sharp edges or mechanical damage, and where it will be out of the way of the driver, passengers or vehicle mechanics. Wherever possible, existing holes in the trunk wall, and the channels above or beneath doors and window columns should be utilized.

PLACING THE TWO-WAY RADIO IN OPERATION

After completing the installation of the Two-Way Radio, the following final operations should be performed:

FOR U.S. INSTALLATIONS

Have an electronics technician who holds an appropriate FCC license make the final adjustments (where required).

These include:

Transmitter: Measure Forward and reflected power and adjust antenna length for optimum ratio. Set transmitter to rated power

output (or to the specific output or input that may be required by the FCC station authorization). Measure the frequency and modulation and enter these measurements

on the FCC Station Records (where required).

Instructions for making these adjustments are included in the Maintenance Manual for the Radio.

Fill out and mail the "ON ARRIVAL" Information Card.

Give the Operator's Manual to the person who is going to operate the radio, or place the Manual in the vehicle where he will find it.

FOR INTERNATIONAL INSTALLATIONS

Same as above except replace references to FCC with those applicable under the regulations of country where the equipment is installed.

Where "on arrival" information card is provided, please return it to authorized Representative or distributor of GE Mobile Radio products servicing the country or region where the radio equipment is used.

GENERAL ELECTRIC COMPANY • MOBILE COMMUNICATIONS DIVISION WORLD HEADQUARTERS • LYNCHBURG, VIRGINIA 24502 U.S.A.

