



# INSTALLATION INSTRUCTIONS

## Porta-Mobile II™

# MOTORCYCLE

## Two-Way FM Radios

LBI30825  
(DF9042)

Porta-Mobile II™ motorcycle radio, designed to be weatherproof, small size and lightweight along with internal shock mounting of all printed wire boards, allows handle bar installation above the front fork of the motorcycle.

A typical motorcycle mounting for Porta-Mobile II includes installation of the Porta-Mobile II, power cable ignition noise filter and antenna (see Figure 1).

Read the following instructions carefully before starting installation. Guidelines are provided for planning the installation and designing the mounting bracket for optimum results.

Also provided, are mounting instructions and parts list for available Harley Davidson and Kawasaki mounting brackets. The parts list for the mounting hardware kit is found in Maintenance Manual LBI30285.

When designing and mounting the mounting bracket, attention must be given to the following:

1. Height dimension including (4) vibration dampeners (see Figure 2).
2. Location of ignition switch (insertion/removal of key).
3. Instrument visibility
4. Gas tank accessibility (including routing of power cable/microphone connector and cable mounted under radio)
5. Radio tilted back so that the speaker points toward the riders chest.
6. Radio control panel accessibility.
7. Carefully consider whether the antenna should be front (radio) mounted or rear mounted to customer fabricated bracket.
8. Bracket material should be steel. Use 3/16" thick minimum or reinforced 1/8" thick (double or rib supported).

Suggested mounting location is to secure the radio to the handlebar clamping bolts. CAUTION: Longer bolts may be required.



Figure 1 — Typical Handlebar Installation

**NOTE** — For motorcycles equipped with a steering damper, install the steering damper modification kit (option 5584) before mounting the Porta-Mobile II (see page 4).

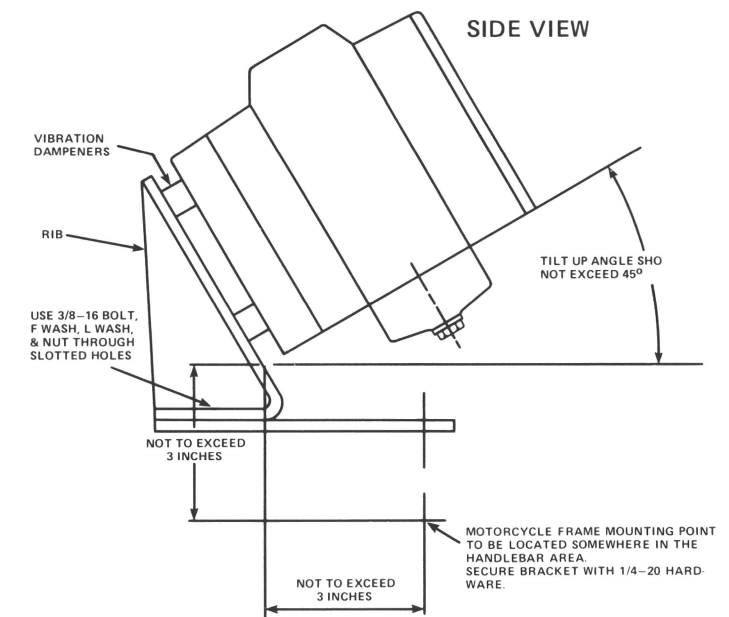


Figure 2 — Typical Motorcycle Mount

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

**GENERAL**  **ELECTRIC\***  
U.S.A.

\* Trademark of General Electric Company U.S.A.  
Printed in U.S.A.

**GENERAL**  **ELECTRIC**

All installations use vibration dampeners between the radio and radio support (see Figure 5).

Connect the power cable and microphone assembly to the Porta-Mobile II as shown in Figure 3.

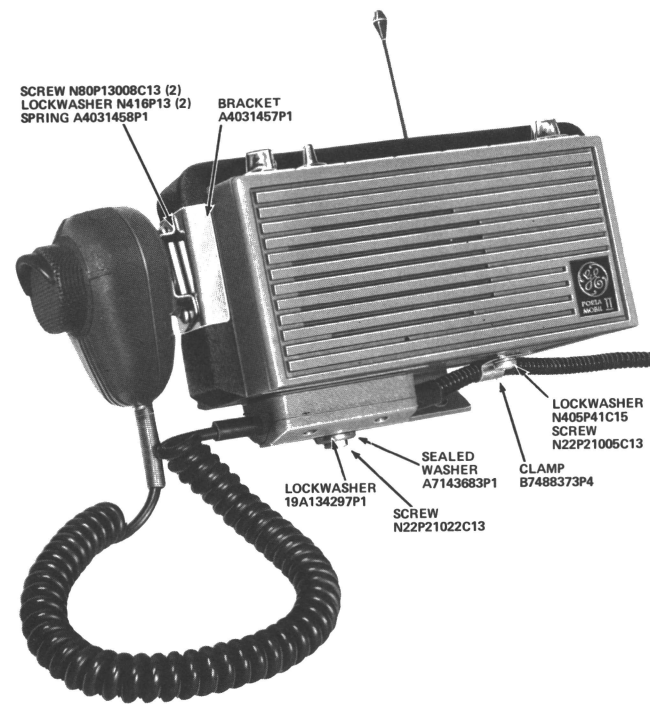


Figure 3 — Power Cable and Microphone Connections

Assemble and mount mounting bracket.

Refer to Figure 4 for assembly of the Harley-Davidson mounting bracket.

Refer to Figures 6 and 7 for the Kawasaki mounting brackets.

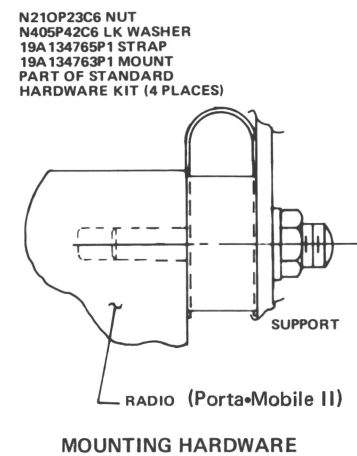


Figure 5 — Installation of Vibration Dampeners

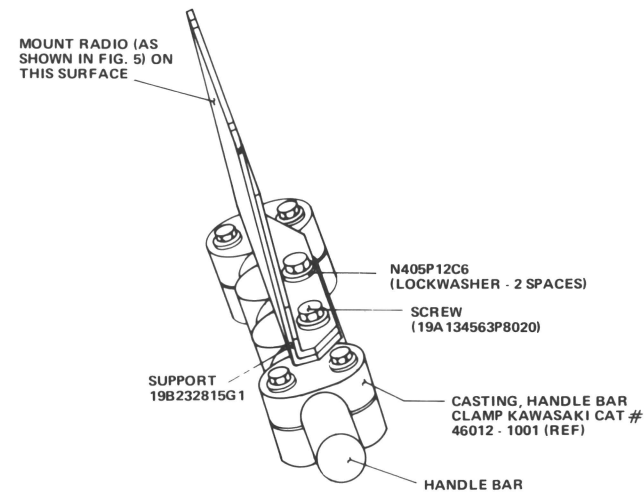


Figure 6 — Radio Mounting KZ900C

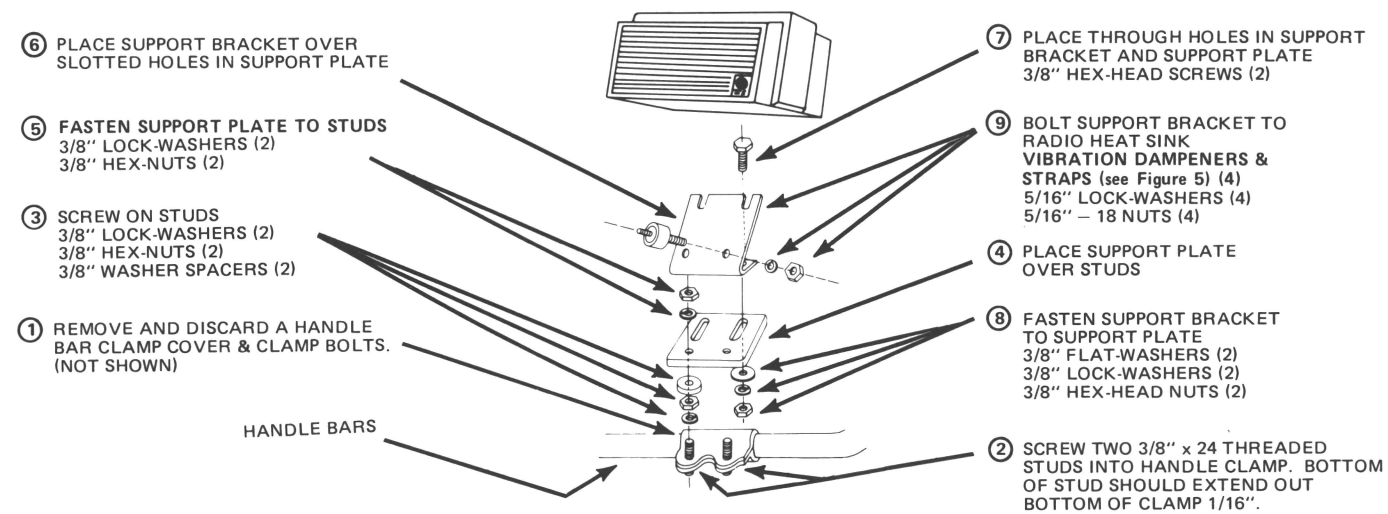


Figure 4 — Porta-Mobile II Installation on Harley-Davidson Motorcycle

PARTS LIST

HARLEY DAVIDSON MOTORCYCLE  
HANDLE BAR MOUNTING BRACKET  
19A137327G1

ISSUE 1

SYMBOL	GE PART NO.	DESCRIPTION
	19B232359G1	Mounting bracket. (Mounts radio).
	19B232357P1	Plate. (Located between mounting bracket & handle bars).
	19A122104P3	Stud. (Connects plate support to handle bars).
	19A137320P1	Spacer. (Located on mounting stud).
	N210P24C6	Hex nut: No. 3/8-24. (Located on studs each side of plate support).
	N405P43C6	Lockwasher, spring type: No. 3/8. (Located on handle bar side of stud).
	N22P25016C6	Cap screw: No. 3/8-16 x 1. (Secures mounting bracket to plate).
	N210P25C6	Hex nut: No. 3/8-16. (Secures mounting bracket to plate).
	N402P43C6	Flatwasher: No. 3/8. (Secures mounting bracket to plate).

PARTS LIST

HARLEY DAVIDSON MOTORCYCLE  
REAR MOUNT ANTENNA BRACKET  
19A122147G1

ISSUE 1

SYMBOL	GE PART NO.	DESCRIPTION
	19B205099G1	Antenna bracket.
	N22P22024C6	Cap screw: No. 5/16-24 x 1-1/2. (Secures support to vehicle - secures antenna bracket to license plate support).
	N405P42C15	Lockwasher, spring type: No. 5/16. (Secures antenna bracket to vehicle).
	N22P21012C6	Cap screw: No. 1/4-20 x 3/4. (Secures antenna bracket to license plate support).
	N405P11C6	Lockwasher, spring type. (Secures antenna bracket to license plate support).

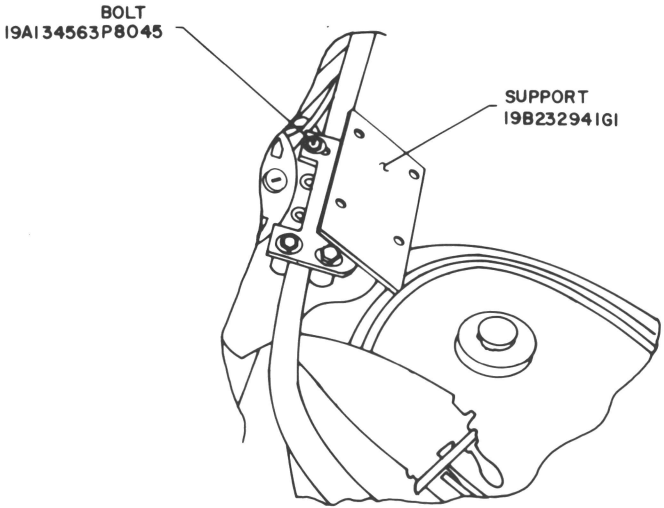


Figure 7 – Radio Mounting KZ1000C

2 POWER CABLE

Route the Power Cable along the left side of the motorcycle. Secure the cable with nylon straps and clamps supplied. NOTE: Leave a loop in the Power Cable to permit rotation of handle bars. See Figures 8, 9 and 10.

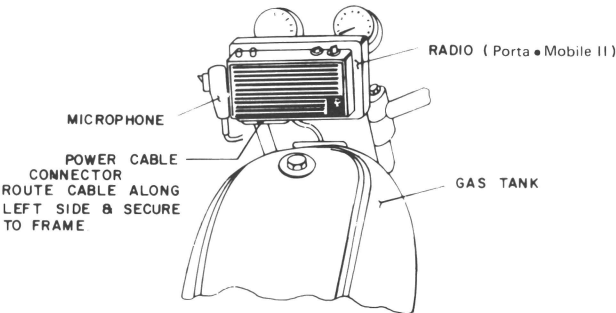


Figure 8 – Radio In Mounted Position

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.

3 IGNITION NOISE FILTER

Mount the ignition noise filter to the motorcycle frame and make cable connections as shown in Figures 9 and 10.

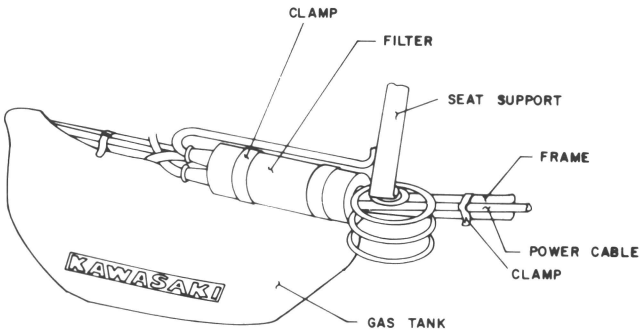


Figure 10 – Typical Filter and Cable Mounting

4 ANTENNA INSTALLATION

The antenna must be installed in accordance with good engineering practice for optimum results.

Assemble the antenna following the instructions packaged with the antenna.

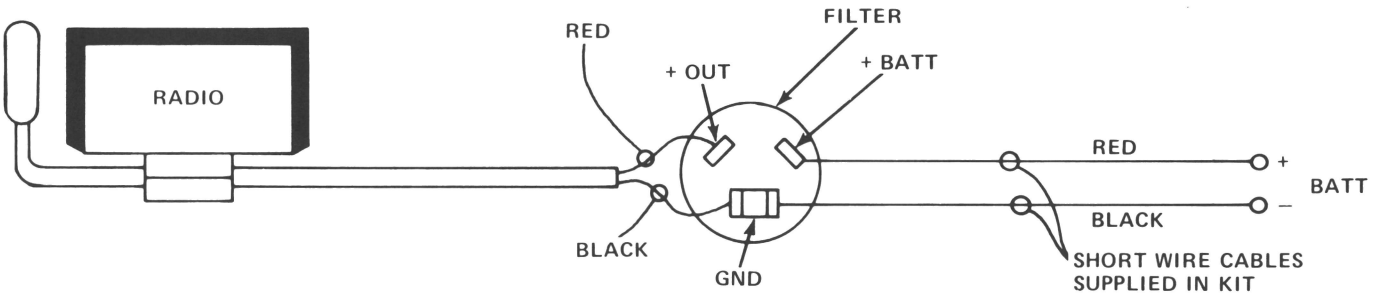


Figure 9 – Connection Diagram

For rear mount antennas (Low Band and Mid-band) assemble the mounting bracket as shown in Figure 11.

The antenna cable is part of the power cable. Connect the cable to antenna connector J204 on the rear of the Porta•Mobile II . Route and secure the cable along the left side of the motorcycle. Connect the cable to the antenna.

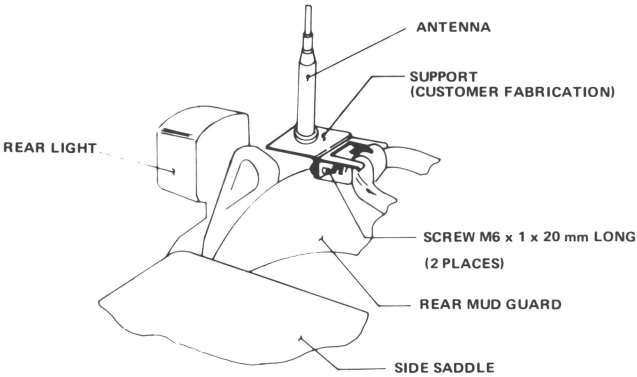


Figure 11 – Suggested Rear Mounted Antenna Support

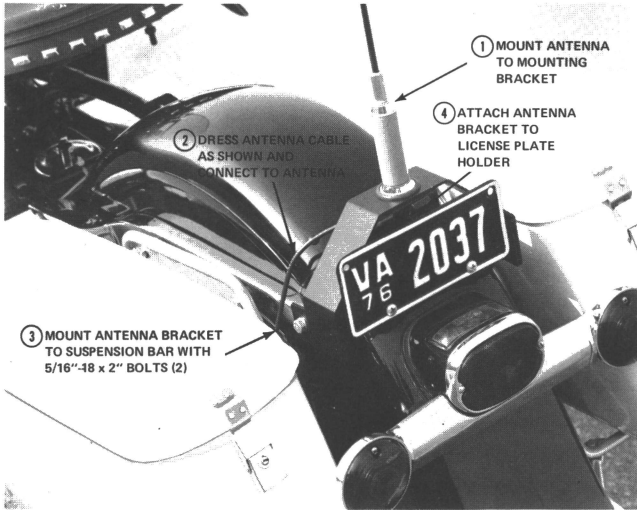


Figure 12 – Installation of Rear Mount for Harley-Davidson Motorcycle

Handle bar mounted antennas (high band & UHF) connect directly to antenna connector J204 on the rear of the Porta•Mobile II . To connect a high band antenna use a right angle connector (M2R22P2). Also a nylon clip is supplied to secure the antenna to the windshield. To mount a UHF

antenna use a right angle connector, TEXOLITE support and antenna clamp to secure the antenna to the Porta•Mobile II (see Figure 12).

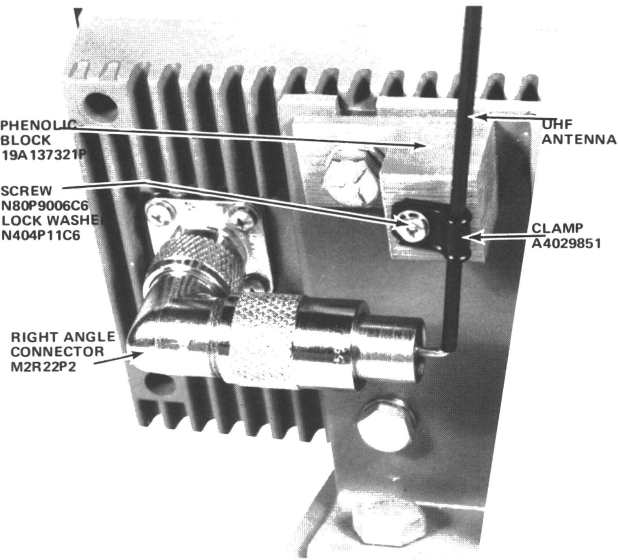


Figure 13 – UHF Antenna Mounting

5 FINAL CHECKS

FINAL INSPECTION

Be sure all components are firmly mounted, control cable dressed away from all cycle moving parts and exhaust pipe.

PLACING THE TWO-WAY RADIO INTO OPERATION

After the installation is completed, a 1st or 2nd Class FCC Radiotelephone licensed electronic technician must make the final transmitter and receiver adjustments as described in the MAINTENANCE MANUAL.

Be sure a RADIO TRANSMITTER IDENTIFICATION form (FCC 452-C or General Electric Form NP270303) is filled out and attached to the transmitter.

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

Give the Operator's Manual for the Two-Way Radio to the person who is going to operate it, or place the manual on the motorcycle where he will find it.

6 OPTIONAL RIGHT ANGLE MICROPHONE BRACKET 19B233268P1

- 1. Remove standard mike bracket and spring.
- 2. Assemble right angle bracket to radio using standard mike bracket hardware.
- 3. Assemble standard mike bracket and spring to right angle bracket using No. 6 hardware supplied in kit.

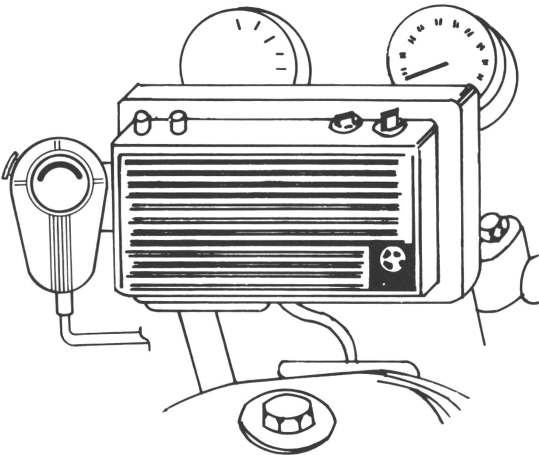


Figure 13 – Right Angle Microphone Bracket

7 STEERING DAMPER MODIFICATION KIT (Option 5584)

- 1. Remove the steering damper adjustment screw and handlebar clamp cover supplied with the motorcycle.
- 2. Place the new cover over the large nut and leaf spring.
- 3. Slide the coil spring over the new short damper screw, insert the screw through the hole in the cover and tighten as desired.
- 4. Mount the Radio according to Steps 2 through 7 as shown on Figure 2, using the long threaded studs, 3/8-inch hexnuts and lockwashers for Steps 2 and 3.

PARTS LIST

KAWASAKI KZ900C  
MOTORCYCLE RADIO MOUNTING KIT  
19A137540G1

SYMBOL	GE PART NO.	DESCRIPTION
	19B232815G1	Support
	19A134563P8020	Machine Bolt. (Quantity 2).
	N405P12C6	Lockwasher, spring type. (Quantity 2).

PARTS LIST

KAWASAKI KZ1000C MOTORCYCLE RADIO MOUNTING KIT  
19A137828G1

SYMBOL	GE PART NO.	DESCRIPTION
	19B232941G1	Support. (Mounts radio to motorcycle).
	19A134563P8045	Machine bolt, hex head: No. 8 with 1.25 thd. pitch, 45 MM long. (Secures radio support to motorcycle).
	N22P21012C6	Cap screw: No. 1/4-20 x 3/4. (Secures radio at support).
	N405P41C6	Lockwasher, spring type: 1/4 inch I.D. (Secures radio to support).