LBI-39023

Installation Manual

S-825 CONTROL UNIT
& RANGR® RADIO UNIT
MOTORCYCLE INSTALLATION

ERICSSON

TABLE OF CONTENTS

GENERAL INFORMATION

The procedures in this manual cover the motorcycle installation of an S-825 Series Control Unit, a RANGR two-way radio, and associated items.

The instructions in this manual are typical installation instructions, and are not intended to cover all makes and models of motorcycles available.

To simplify installation and minimize difficulties, it is suggested that the installer read the entire manual pertaining to this application before starting the installation.

NOTICE

Ericsson Inc. does not assume liability for possible degradation of the radio performance or motorcycle performance due to installers mounting procedure. Radio installation shall be in the horizontal plane.

TOOLS REQUIRED

A few specific tools are required to complete the motorcycle installation. These are:

- Soldering iron,
- Wire crimpers (ST2602),
- (9/64") drill for backup plate mounting screws,
- TORX® driver,
- Adjustable wrench or 5/16" and 7/16" box wrench,
- Hex drivers: #10, #25, and #30,
- 1/2-20 bolts,
- Flat blade screwdriver, and
- Hex wrench set for motorcycle fairing.

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Figure 1. Typical S-825 Series Motorcycle Installation

USER SUPPLIED EQUIPMENT:

- Motorcycle Mounting Bracket
- RTV

EQUIPMENT SUPPLIED:

- Weatherproof Box -19D438453G3
- Weatherproof case base mounting bracket - 19D438723P2
- Top Mounting Plate, 19D903777P1
- Bottom Mounting Plate, 19D903778P1
- RANGR Top Cover, 188D5003P1
- Rubber pad, 19B802204P1
- Installation Parts packet
- Rear Mount Antenna Support Bracket (Optional) - 19D904965

INSTALLATION

The standard Installation consists of the following:

- Mounting the S-825 control unit,
- Mounting the weatherproof base plate to the motorcycle bracket,
- Installing the outboard antenna bracket,
- Mounting the weatherproof case to the base plate,
- Running the power/control, vehicle system, and option cables,
- Installing the RANGR two-way radio in the weatherproof case, and
- Installing the antenna on the weatherproof case or
- Installing the antenna on the L bracket.

All mounting hardware consists of stainless steel screws, locknuts, nuts, and lockwashers for added reliability.

Optional equipment covered in this installation include the headset and headset handlebar switch, noise canceling microphone, microphone hang-up bracket and the antenna.

A typical S-825 Series Control Unit installation using a Harley-Davidson motorcycle Model FXRP is shown in Figure 1.

EQUIPMENT

Standard equipment available for the S-825 Series installation includes the following items:

- One of the following S-825 Series Control Units -

Select, Conventional	19D901146G3
Deluxe, Conventional	19D901146G4
EDACS Trunked	19D901146G5
EDACS Trunked w/ Scan	19D901146G6

- A 10-Foot Power/Control Cable 19D901739G5 (Option S8CC1L)
- EDACS System Cable 19D901864G2 (Option S8CC1X)
- Vehicle System Cable 19B219537G5 (Option S8CC1K)
- A low power RANGR two-way radio (refer to the Power vs. Current chart in the Two Way Radio Mounting section of this manual before installing).
- Weatherproof Fuse kit 19A149701G1 (Option S8PD1B)
- Weatherproof Case Assembly 19D438453G3 (Option S8RB1A)
- Weatherproof Case Mounting Plate Kit 19A149703G1 (Option S8MA1D)
- Standard Microphone 19B801499P5 with Mounting Bracket

OR

- Noise Canceling Microphone 19B851815P2 (Option S8MC1G)
- Microphone Bracket with stronger spring 19A149690G1 (S8MN1G)

VENDOR DROP-SHIP OPTIONS

- Low Band, High Band, UHF, or 800 MHz Antenna.

- Headset with Microphone, Handlebar Switch, and Belt-Mount Amplifier.

CONTROL UNIT MOUNTING

Mount the control unit within convenient reach of the operator, and where it will not interfere with the safe operation of the motorcycle. A typical control unit, microphone, and speaker mounting is shown in Figure 2.

Due to the large number of different motorcycle makes and models, it is up to the installer to decide how to mount the control unit, radio, and optional equipment. Guidelines are provided for planning the installation.

The use of customer-designed "U" brackets, "L" brackets, mounting plates, backing plates, or optional mounting kits from the motorcycle manufacturer, if available, are suggested for mounting the control unit, microphone, adaptor plate, weatherproof case, and radio. Existing bolts in the frame and handlebar assembly may be utilized to mount the brackets and mounting plates to the motorcycle.

Bracket material should be 1/8-inch steel minimum. When designing and mounting the brackets, the following guidelines should be considered:

- The installation must NOT interfere with steering or operation of the motorcycle.
- Mounting locations must NOT interfere with the driver or with Instrument visibility.
- The installation should provide easy access to the radio operating controls.

CAUTION

Be careful to avoid damaging some vital part of the motorcycle if it becomes nessary to drill mounting holes. Also, always check to see how far the mounting screws will extend below the mounting surface before installing

After installing the control unit, do not make any cable connections until all cables have been run and secured, and the speaker and any option connections have been made to the vehicle system plug. Speaker and option connections are shown on the Interconnection Diagrams listed in the Table of Contents. A typical control unit installation is shown in Figure 3.

After all cables are installed, refer to the Control Unit Interconnection Diagrams in back of this manual for final connections to the control unit, and for instructions to install the cable entrance cover kit.

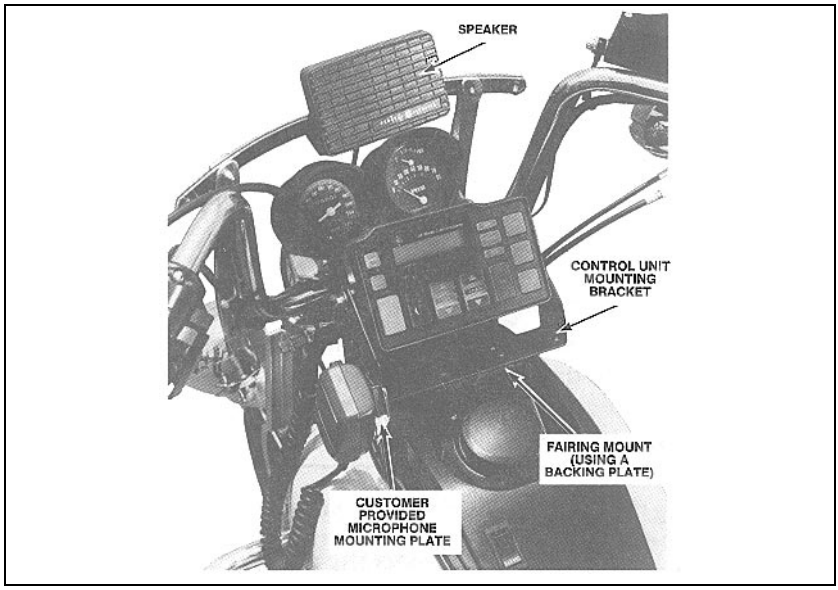


Figure 2 Typical Control Unit and Speaker Mounting

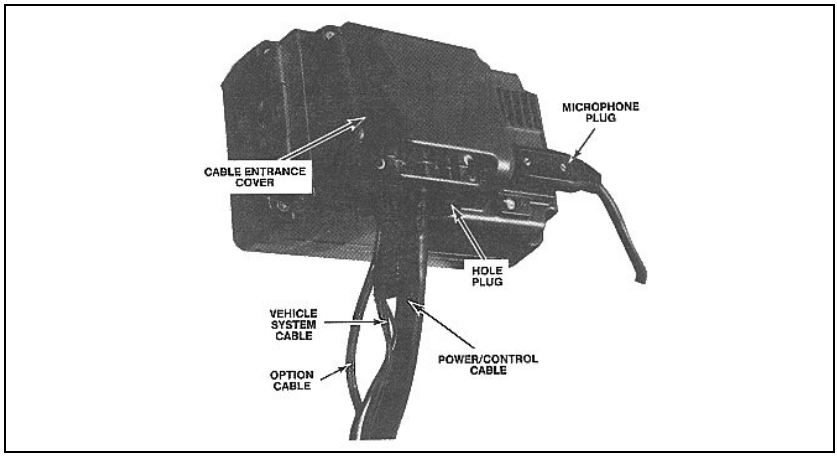


Figure 3 - Typical Control Unit Installation

TWO-WAY RADIO MOUNTING

The installation of the two-way radio consists of:

- Mounting the base mounting plate to the motorcycle,
- Installing the radio mounting bracket in the weatherproof case,
- Installing the radio on the mounting bracket, and
- Connecting the power/control cable, cable ground lead, and antenna lead once they have been installed.
- Modifying the RANGR radio for motorcycle installation, if required.

POWER CONSIDERATIONS

The motorcycle may be equipped with additional lights, light flashers, sirens, PA systems, etc. Therefore, consideration must be given to the system current drain. It is recommended that the radios be set for the applicable power output and current drain shown in Table 1 for ***all*** RANGR motorcycle applications.

WARNING

Do NOT use a high-powered radio in the motorcycle application. To do so will result in damage to the motorcycle alternator, battery, and all circuits.

MOUNTING THE RADIO

To install the radio in the weatherproof case:

Assembling the Weatherproof Box

1. Unpack the weatherproof motorcycle box, remove the key from the bag attached to the bottom and open the box.
2. Remove the hardware kit (plastic bag), the bottom radio mounting plate (19D903778P1) from the box by removing the four 10-32 X 5/8" screws. The bottom mounting plate is the smaller of the two. This will be installed in subsequent steps.

Table 1. Power vs. Current Setting

STANDARD RANGR RADIO RATED POWER & CURRENT Maximum & Typical	**RANGR MOTORCYCLE RADIO ADJUSTED POWER & CURRENT Maximum & Typical**
29-50 MHz	
60 watts @ 13 Amps Maximum (10.4 Amps Typical)	30 watts @ 9.5 Amps Maximum (7.6 Amps Typical)
136-174 MHz	
40 watts @13 Amps Maximum (10 Amps Typical)	25 watts @10.5 Amps Maximum (8 Amps Typical)
403-512 MHz	
35/30 watts @13 Amps Maximum (11 Amps Typical)l	25 watts @ 11 Amps Maximum (9.4 Amps Typical)
806-870 MHz	
35 watts @ 15 Amps Maximum (10.4 Amps Typical)	25 watts @ 13 Amps Maximum (9.1 Amps Typical)

3. Insert the large rubber grommet into the metal cable cutout and slide the cable cutout w/ grommet into the slot on the bottom of the weatherproof box. Secure with the two 1/4 X 20 machine screws and locking nuts provided. See Figure 4.

4. Insert the two smaller grommets into the two holes adjacent to the cable cutout.

5. Remove the backing from the plastic wire holder. Locate a position on the opposite side of the case from the cable cutout approximately 3/4-inch from and parallel with the front and 2.5 inches from the outside edge. Press the holder into position.

NOTE

When installing the ground straps, be sure they are dressed in such a way that they will not get pinched between the mounting plate and the weatherproof box when the shock absorbers are fully compressed.

6. Install the four 4-inch radio ground straps (provided) with the weatherproof case mounting screw through the ring terminal. The flat side of the ring terminal should be face down.

SERVICE TIP

After installation, force full compression of the shock absorbers and observe the ground straps. If necessary redress the ground straps to a position that allows full compression without pinching. (Clearance is reduced from 5/8” to approximately 1/4”.)

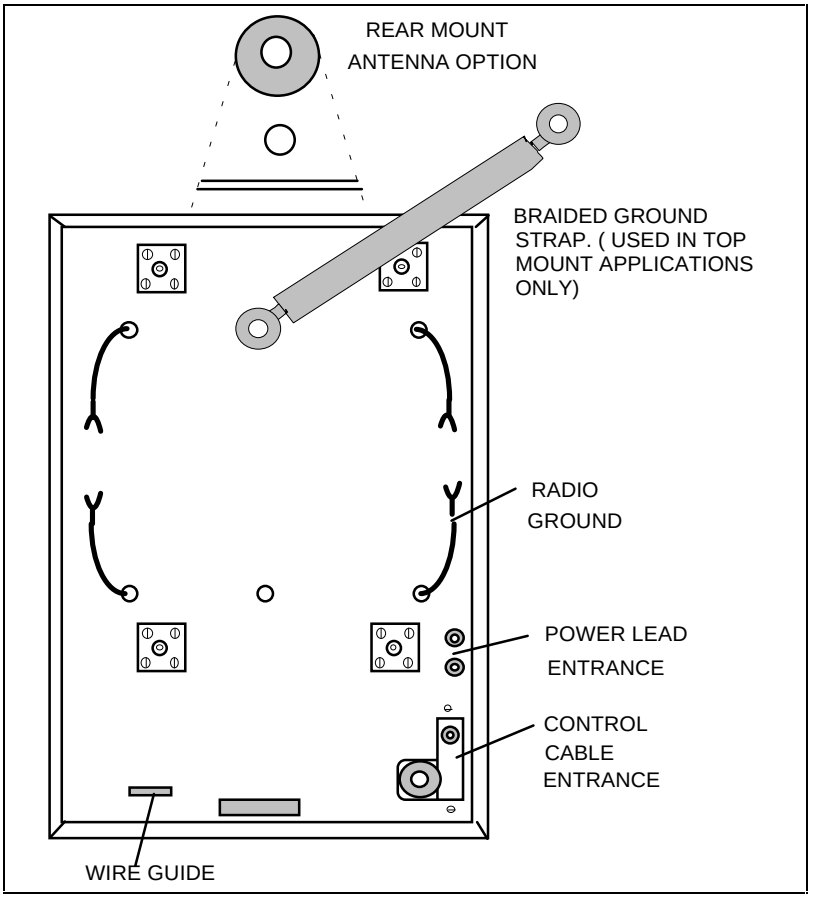


Figure 4. Weatherproof Box Assembly

Installing The Weatherproof Box

1. Install the weatherproof case base mounting bracket (19C337200G1) to the motorcycle mounting bracket (customer supplied and installed) with the four 1/4 X 20 X 3/4 inch cap screws and lock nuts provided. See Figure 5.

> **NOTE**
>
> If the Rear Mount Antenna Option is used, refer to the antenna installation procedures and install the antenna mounting bracket now.

2. Mount the weatherproof box to the mounting base (19C337200G1) using the six 1/4-20 x 3/4-inch cap screws and locknuts provided. Position the weatherproof box so that the cable access cutout is towards the front of the motorcycle.

> **NOTE**
>
> When using the recommended antenna ground strap, (top mount applications only) install the end of the braided and sleeved ground strap with the small terminal under the center rear bolt head as shown in Figure 4.

3. Install the bottom mounting plate, 19D903778P1, using the four 10 x 32 screws and washers supplied. Refer to Figure 6 to view an assembled unit. When installed correctly, the mounting plate will be approximately centered, side-to-side, in the weatherproof box. The lips on the mounting plate will be face down, the rubber pad is topside.

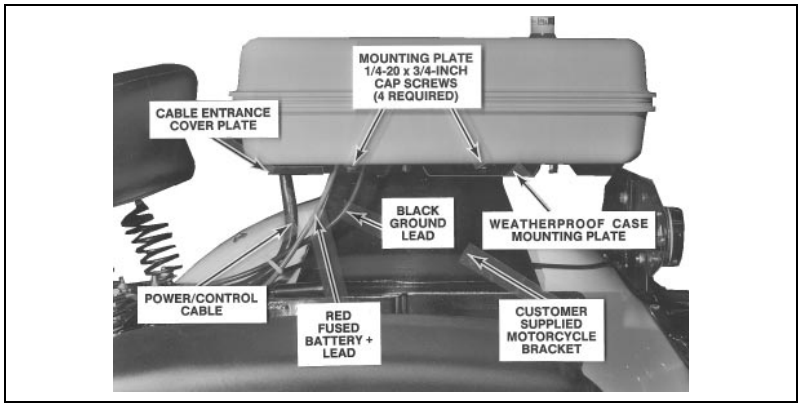


Figure 5. Weatherproof Box Mounting

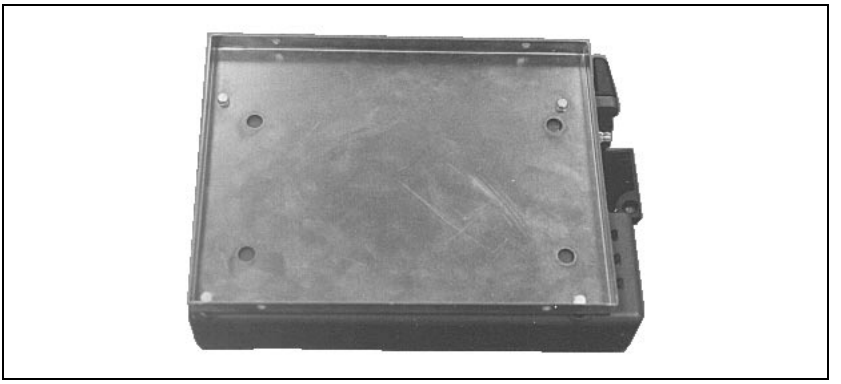


Figure 6. Radio Top Mounting Bracket Installation

NOTE

If you are installing a radio that has not been modified for motorcycle applications, refer to "Radio Modification Procedures" and modify the radio before continuing.

4. Refer to Figure 7 and position the radio and top mounting plate assembly over the bottom mounting plate. Align the holes in the two mounting plates (two on each side) and secure with the four machine screws (N30AP16010), lockwashers (N406P39), and (N400P9) flat washer provided. Secure the spade lugs of the 4-inch grounding straps between screws (N30AP16010) and mounting plates.

NOTE

When installing the ground straps, be sure they are dressed in such a way that they will not get pinched between the mounting plate and the weatherproof box when the shock absorbers are fully compressed.

5. If an optional rear-mount antenna is not used, install the supplied grommet in the cable entrance cover plate and insert 1/4-20 x 3/4" screw, flat washer, and nut to seal the grommet.

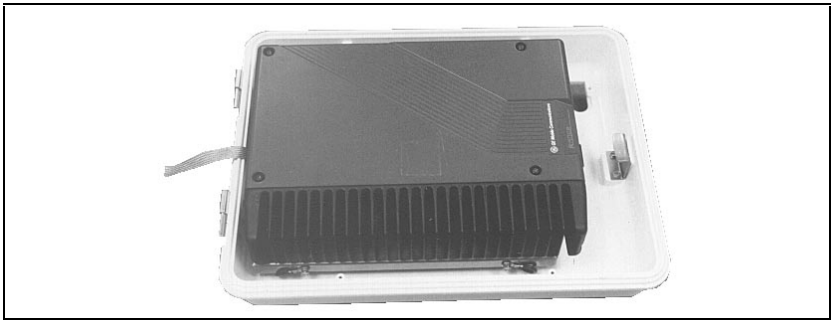


Figure 7. Radio and Base Plate Mounting

Radio Modification Procedures

NOTE

Applies only to radios that have not been modified for motorcycle applications.

Prior to installing the radio in the weatherproof box, the radio must be modified to withstand the mechanical vibrations inherent to motorcycle applications. Refer to Figure 8, RANGR application assembly.

1. Remove and discard standard RANGR mounting screw, spring, and washer.
2. Remove backing from rubber pad 19B802204P1 and attach to top mounting plate 19D903777P1 as shown.
3. Remove RANGR bottom cover and four cone shaped mounting feet. Discard cone shaped mounting feet.
4. Put a small drop of RTV on each end of the receive oscillator crystal to stake the crystal to the printed board.
5. Assemble RANGR bottom cover and mounting plate 19D903777P1 to the bottom of the RANGR using four 344A4064P1 screws. Torque to 21 inch-pounds.
6. Remove and discard RANGR top cover.
7. The synthesizer is located under a casting on the top side of the RANGR radio. Re-torque all screws on the synthesizer casting and synthesizer printed board to 8.5 inch-pounds.

8. Remove the wire metal handle (if present) from the 13.2 Mhz plug-in reference oscillator located on the synthesizer board.

9. The logic board in the top of the RANGR radio contains one or two plug-in crystals. One of these is located under the removable metal shield. Put a drop of RTV on each end of the crystal to stake the crystal to the printed board.

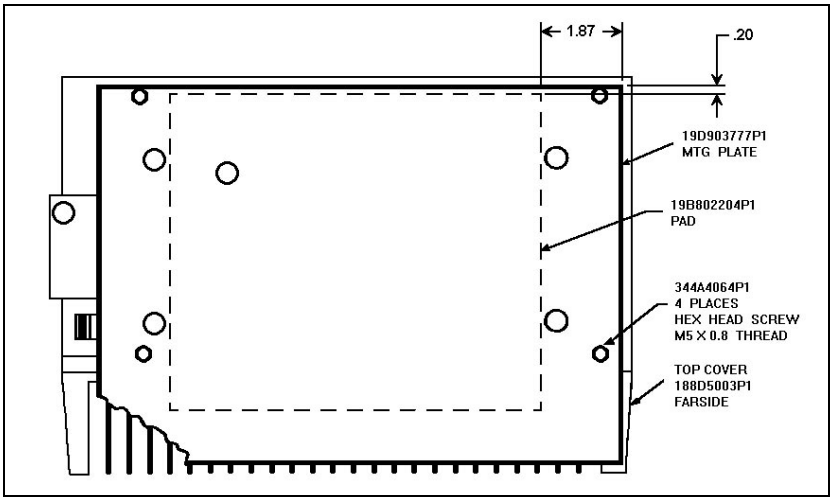


Figure 8. RANGR Application Assembly, Bottom View

10. Set the transmitter power to 25 watts (except 30 watts on low band). The power adjust pot is accessed through a hole in the logic board adjacent to the synthesizer module.

11. Assemble new RANGR radio top cover 188D5003P1 and torque screws to 21 inch-pounds.

12 Apply label in vacant recess on the RANGR rear casting.

CABLE INSTALLATION

Cable installation consists of making the power connections, and then running the radio power/control and vehicle system cables to the control unit.

To assure the feasibility of the cable routing**, it is suggested that the cables be run before installing the two-way radio**. Try to route cables away from exhaust pipes, mufflers, and moving parts, or where mechanical

damage may result. Also, route the cables so that they will not interfere with the operation of the motorcycle. Secure all cables with black cable ties for a neat installation.

POWER/CONTROL CABLE

The power/control cable is supplied for negative ground systems only. It is recommended that the black fuse holder box shipped with the radio be discarded and the black weatherproof fuse assembly provided be used in this installation. Also, remove the strain-relief hook from the cable and install the cable as follows:

Installation Note: Before installing the power/control cable, mount the weatherproof case as instructed under "Two-Way Radio Mounting". See Table of Contents).

1. Remove the two screws securing the cover plate to the cable entrance hole in the bottom of the weatherproof box. Insert the radio control cable through the cable entrance hole, leaving the radio connector inside the weatherproof case (see Figure 9).
2. Split the large grommet provided and install it on the control cable. Then slide the grommet into the cutout on bottom of the case as shown in Figure 4. Leave enough slack at the radio end to allow the cable to be easily connected to the radio, and for the radio to be pulled out of the case for servicing.
3. Replace the cable entrance cover plate on the weatherproof case.
4. Install the two small grommets in the holes for the power and ground leads.
5. Cut the terminal off the black ground lead.
6. Cut the red power cable in two and strip the insulation from each of the cut ends.
7. Run the red and black power leads through the holes in the bottom of the weatherproof case as shown.
8. Install the black 20-ampere fuseholder using the heat-shrink sleeving on each side to protect the exposed ends.
9. Run the #8 red and black power leads to the vicinity of the battery.
10. Insert the 20-ampere fuse into the fuseholder. Connect the ring terminal on the red lead to battery plus (+).

11. Install a new ring terminal on the black cable and connect it to battery minus (-).

NOTE

Any extra length of the power/control cable can be coiled under the motorcycle seat and secured to prevent interference with the operation of the motorcycle. See Figure 10.

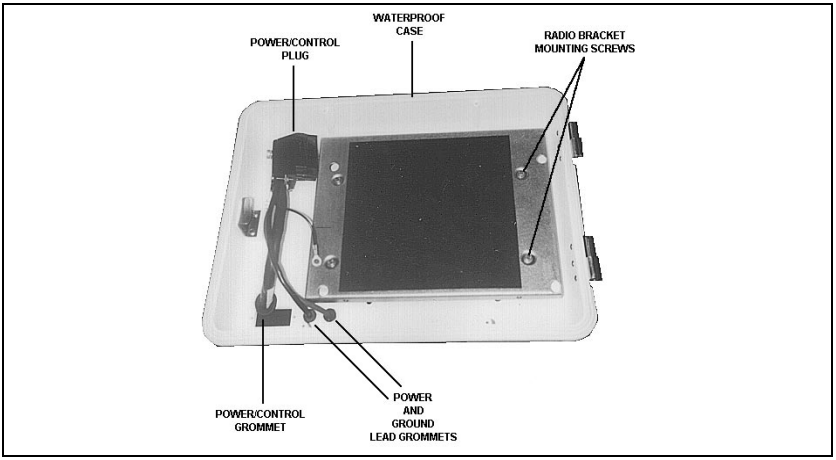


Figure 9. Power/Control Cable Installation

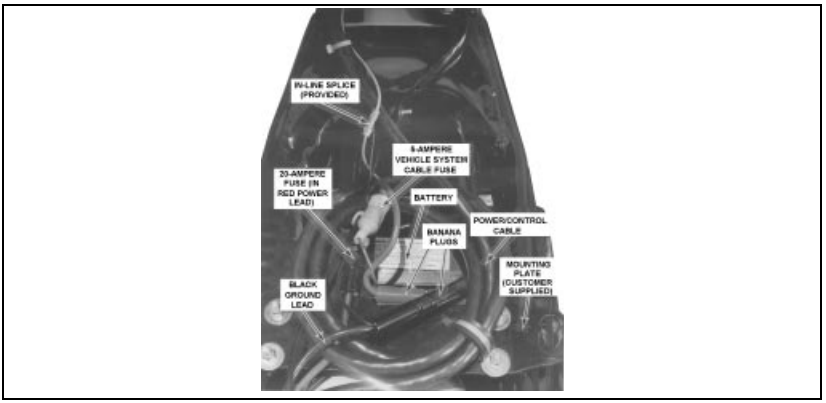


Figure 10. Under Seat Cable Installation

VEHICLE SYSTEM CABLE

The vehicle system cable provides power to the control unit. The yellow-fused lead provides the receiver "hot" and transmitter enable connection. The black lead provides the control unit ground. An optional red-fused lead (Option CC01) is available for ignition switch standby control. The vehicle system plug (P1) is used for the speaker and option connections. The vehicle system cable is shown in Figure 11.

Install the vehicle system cable as follows:

1. Run the cables to the battery area or to Ignition Switch A+. Cut the cable to the length required.
2. Connect a ring terminal on the end of the lead, if required, and connect the lead to battery (+).
3. Secure the fused lead to the power/control cable by opening the yellow fuse assembly and then closing it over the power/control cable and the black vehicle system cable.
4. Tie down all cables (including option cables) with cable ties.

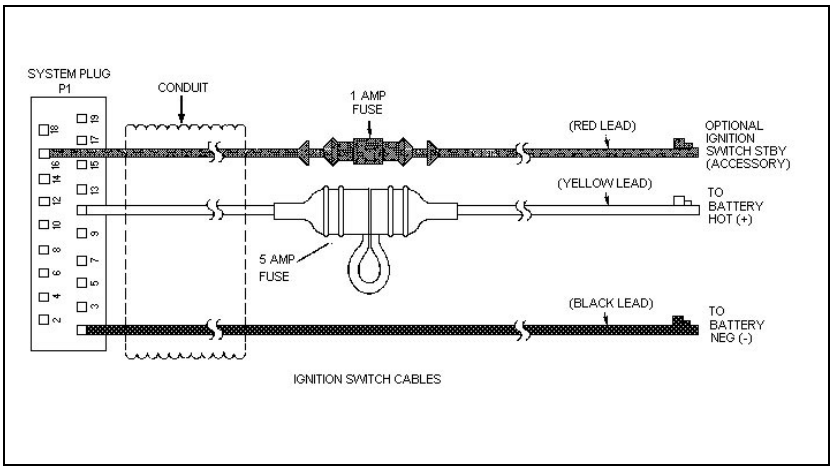


Figure 11. Vehicle System Cable

Installation Notes: Figure 10 shows the use of a customer- fabricated, under-seat mounting plate. This mounting plate provides mounting holes and slots for securing connectors, fuses, and cables on some Harley-Davidson motorcycles (such as model FXRP) . The mounting plate is especially helpful for large installations.

In addition, banana plugs may be installed in the power cables as shown in Figure 10 to provide for quick connections to a battery charger, if desired.

After power connections are made to the power/control and vehicle system cables, run all of the cables (along with any option cables) to the control unit using one of the following methods:

For motorcycle models equipped with a gas tank fairing

The cable may be routed from the saddle area, under the fairing, around the left side of the gas tank filler pipe, and up to the area of the control unit. The fairing may have to be notched to provide entrance and exit space. Run the power/control cable as directed in Steps **a** through **c**.

a. Remove the three screws securing the fairing-- two at the end nearest the handlebars and one near the saddle. Next, unscrew and remove the gas tank cap and lift off the fairing. Replace the gas cap immediately.

WARNING

Always replace the gas cap as soon as the fairing is replaced/removed. This is necessary to reduce the possibility of an explosion as well as to prevent drill shavings or other debris from getting into the gas tank

b. Run the cables from the saddle area up the left side of the gas tank to the area of the control unit (see Figure 12).

NOTE

It may be necessary to notch a portion of the fairing at the control unit end and at the saddle area to provide entrance and exit holes for the cable. The entrance and exit cutaway holes are required to permit the fairing to be remounted flush to the gas tank.

c. Before replacing the fairing, the vehicle system cable and any option cables may be run under the fairing also. Then replace the fairing by removing the gas cap, repositioning the fairing, then replacing the gas cap and the three screws that secure the fairing.

For motorcycle models not equipped with a gas tank fairing:

After making power connections, run the power/control and vehicle system cables (as well as any option cables) up the left side of the motorcycle to the control unit and secure the cables with the cable ties. **Note** that all cables connect to the back of the control unit.

MICROPHONE BRACKET

After mounting the control unit and connecting the microphone, mount the microphone hang-up bracket in a location that is convenient to the operator, and where it will not interfere with the safe operation of the motorcycle. For ease of installation, Figure 2 shows the microphone hang-up bracket mounted on a customer-provided mounting plate.

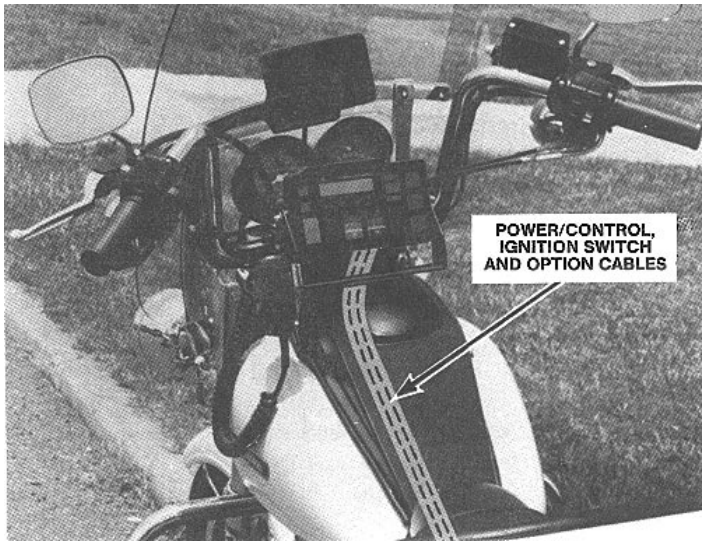


Figure 12. Cable Routing to the Control Unit

SPEAKER MOUNTING

Mount the speaker where the operator can hear it, and where it does not interfere with the safe operation of the motorcycle. On some motorcycles, the speaker can be attached to the windshield bracket using existing bolts to secure the speaker mounting bracket (see Figure 2).

CONTROL UNIT CONNECTIONS

After installing the control unit, speaker, and all cables, connect the required leads (including option leads) to the vehicle system plug as shown on the Interconnection Diagram (see the Table of Contents). Then connect the cables to the control unit connectors as shown in Figure 13.

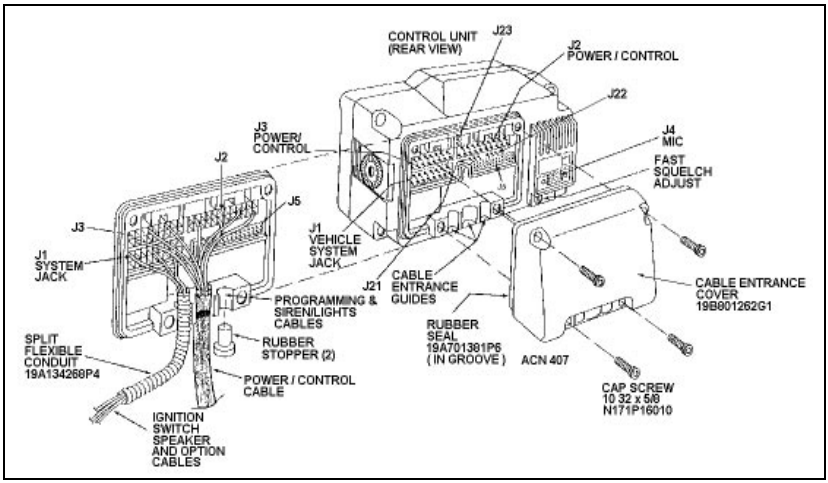


Figure 13. Control Unit Connections

ANTENNA INSTALLATION

TOP COVER POSITION

The antenna must be installed in accordance with good engineering practices for best results. See Figures 14 and 15.

Mount the antenna in the 3/8 inch hole provided in the top of the weatherproof case according to the antenna manufacturer's instructions with the following exceptions:

1. Discard the lockwasher provided with the antenna and use the thin lockwasher provided.
2. The 1/2-inch braided ground strap ***is required*** for 29-50 MHz operation and is recommended for all other bands.
3. For 29-50 MHz, 136-174 MHz, and 450-512 MHz antennas, use the antenna whip cutting chart provided in this manual (see Table of Contents). Do ***not*** use the cutting chart supplied by the antenna manufacturer.

When cutting the antenna cable, be sure to have enough slack so that the case can be opened without straining the antenna cable connections. Route the antenna cable to the radio along the opposite side of the radio from the antenna jack and radio heatsink as shown in Figures 2 and 5.

REAR MOUNT OPTION

Mount the antenna on the rear antenna support 19D904965P1 (See Figure 16). Mount the support to the weatherproof case mounting plate using four 1/4-20 x 3/4" cap screws and 1/4-20 locknuts provided. Cover the hole in the top of the weatherproof case with the plug provided and seal with RTV compound, if required.

Connect the sleeved, braided ground strap from the rear antenna support to the motorcycle chassis.

Slip the supplied grommet over the antenna cable and route the antenna cable through the cable entrance cover plate on the weatherproof box to the radio.

Connect the ground strap from the rear support bracket to the motorcycle.

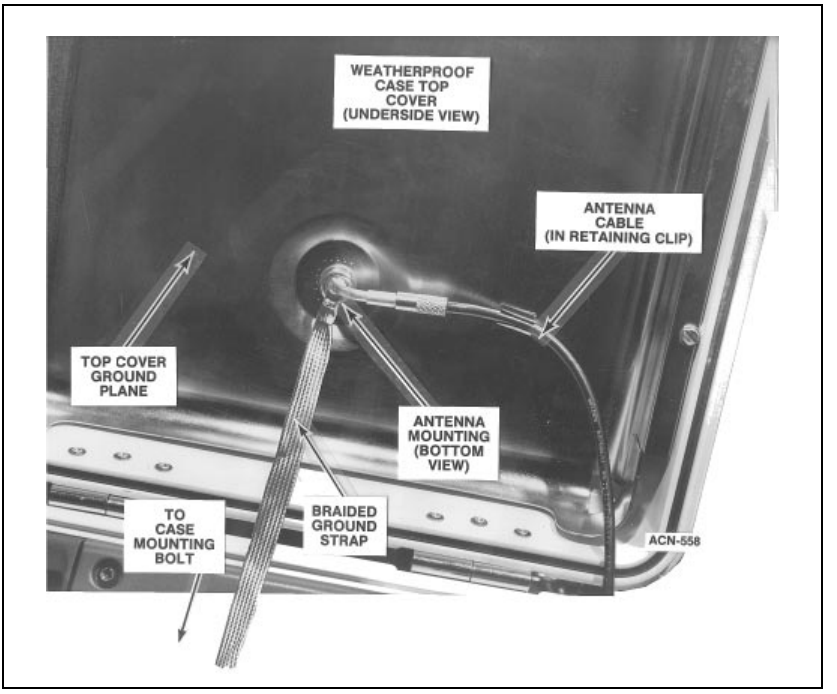


Figure 14. Antenna Mounting (Top Mount Position)

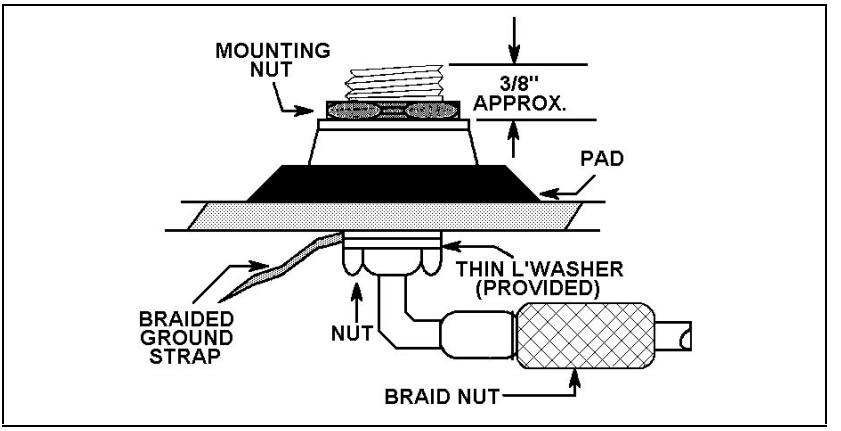


Figure 15. Antenna Modifications

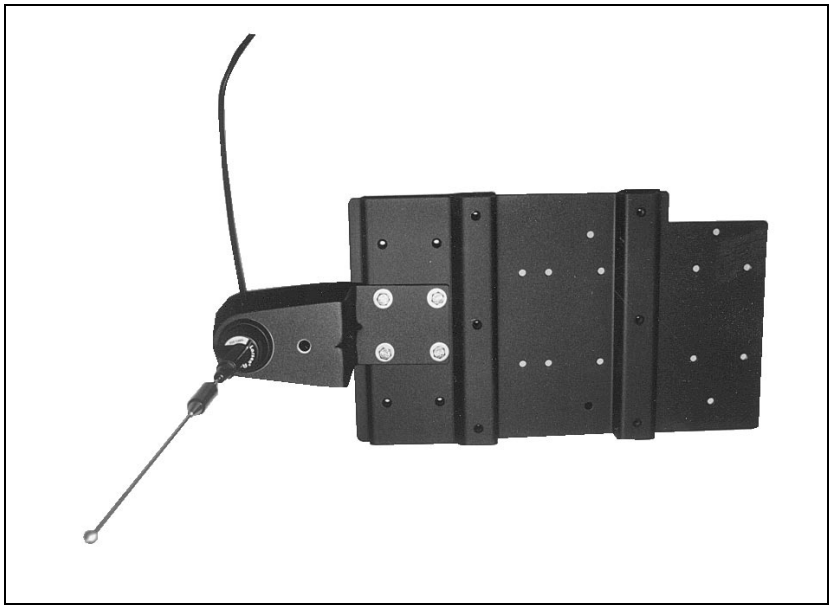


Figure 16. Antenna Mounting (Rear Mount Option)

FINAL CHECKS AND CONNECTIONS

After the weatherproof case is installed and all cables run, connect the power/control plug to the radio, connect the antenna to the radio, and connect the cable shield ground to the radio case with the metric screw provided with the Power/Control Cable as shown in Figure 17, Radio Connections.

Make a final check of all cables to make sure they are properly connected and dressed away from all moving parts and exhaust pipes, and secured with cable ties. Then recheck all electrical connections and radio mounting hardware.

NOTE

To ensure optimum performance, make sure the cable shield ground lead is connected to the radio case.

SERVICE NOTE: Refer to the control unit maintenance manual for the required initial adjustments.

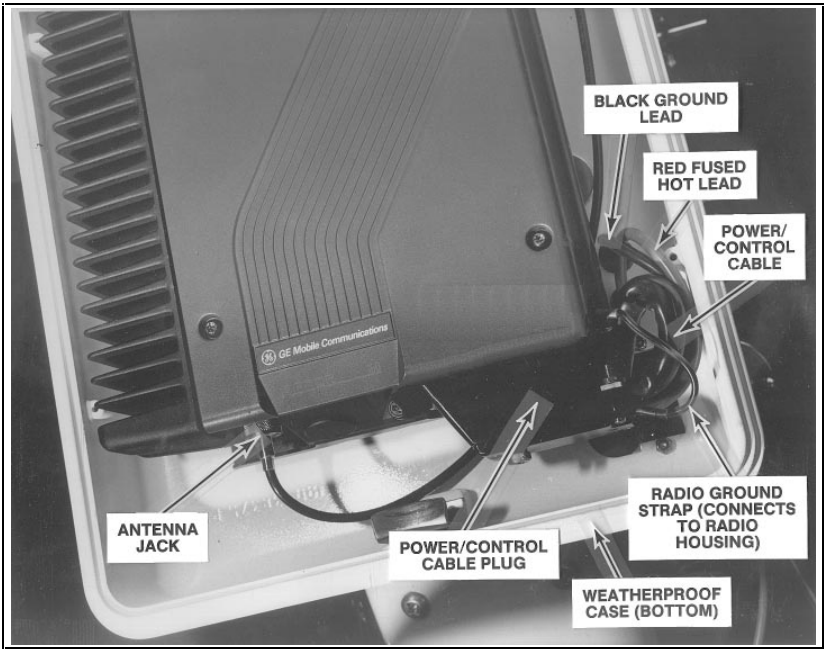


Figure 17. Radio Connections

HEADSET OPTION INSTALLATION

Headset option includes the helmet-mounted microphone, amplifier belt, and cables with quick disconnect connectors. A typical installation is shown in Figure 18.

Install the headset option according to the manufacturer's instructions provided with the option.

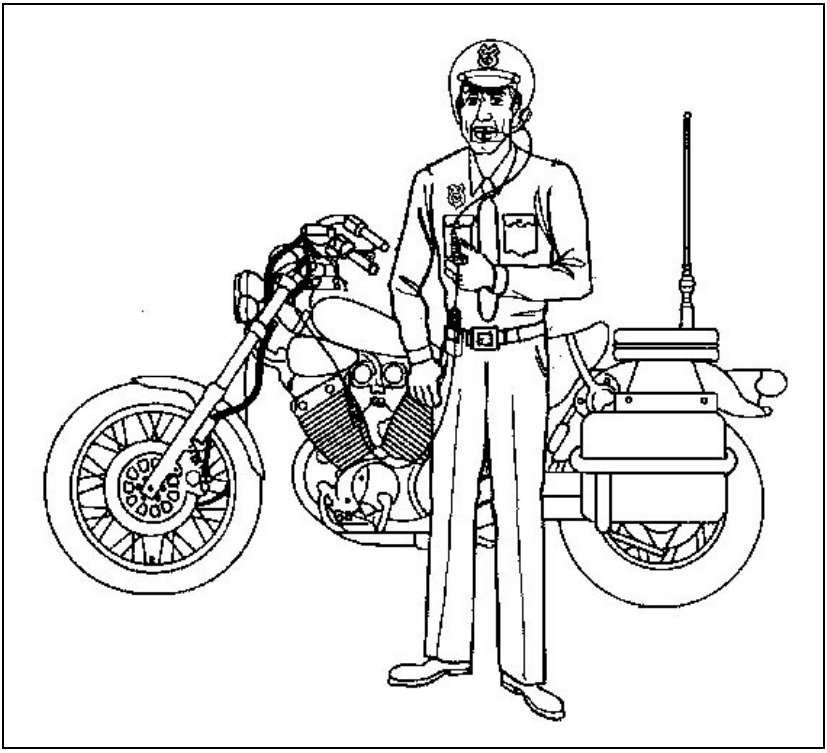


Figure 18. Typical Headset Installation

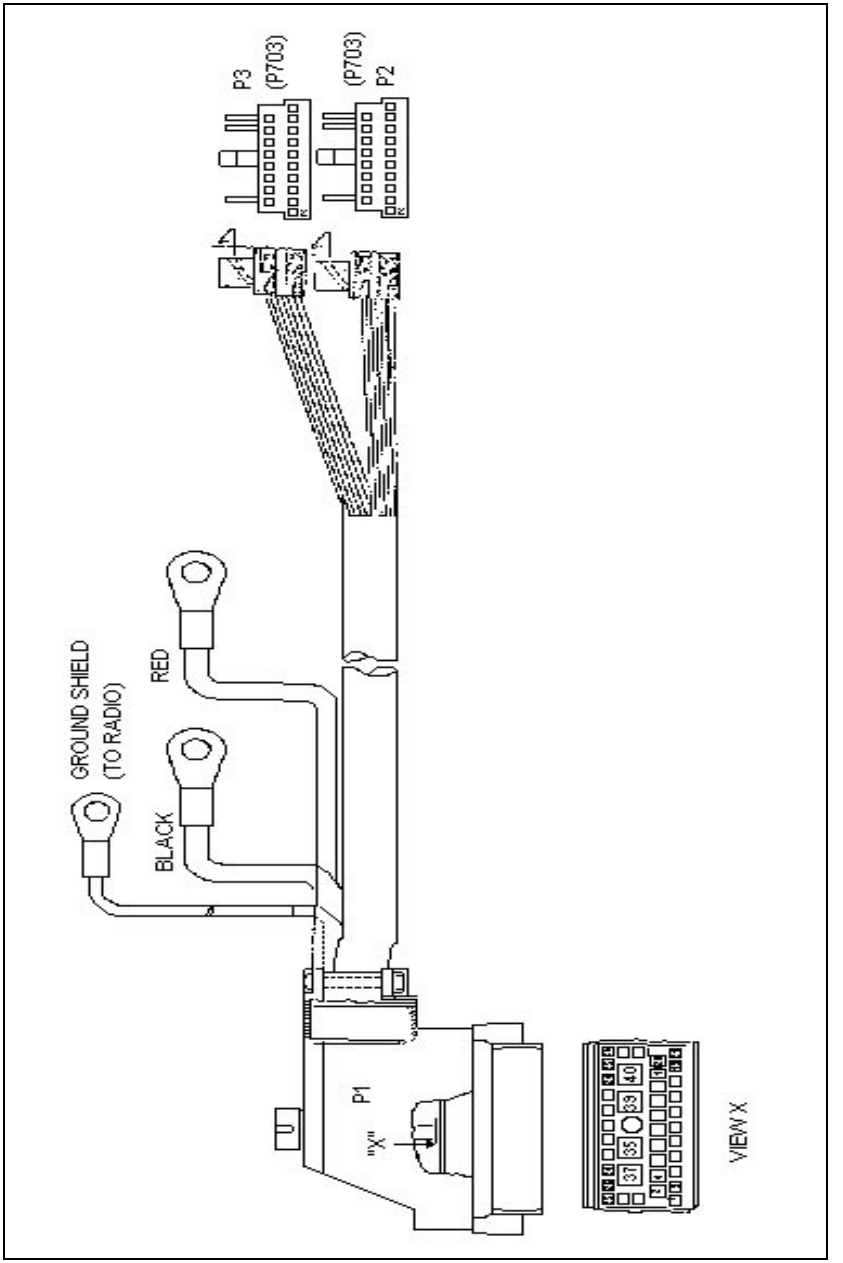


Figure 19. Power Control Cable Outline Diagram

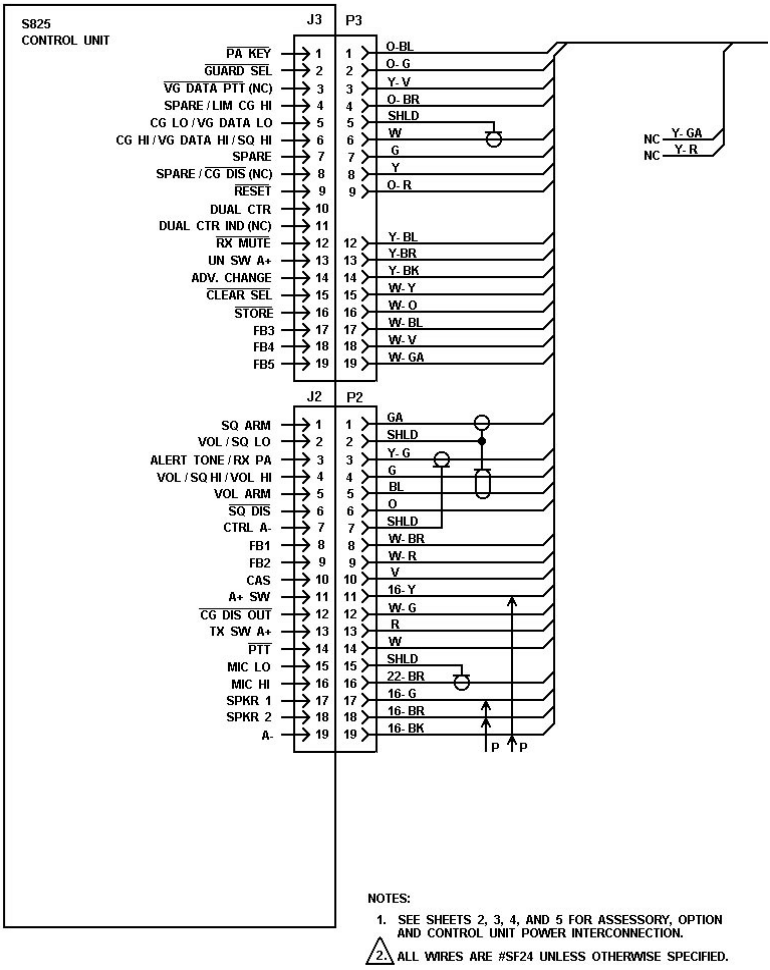
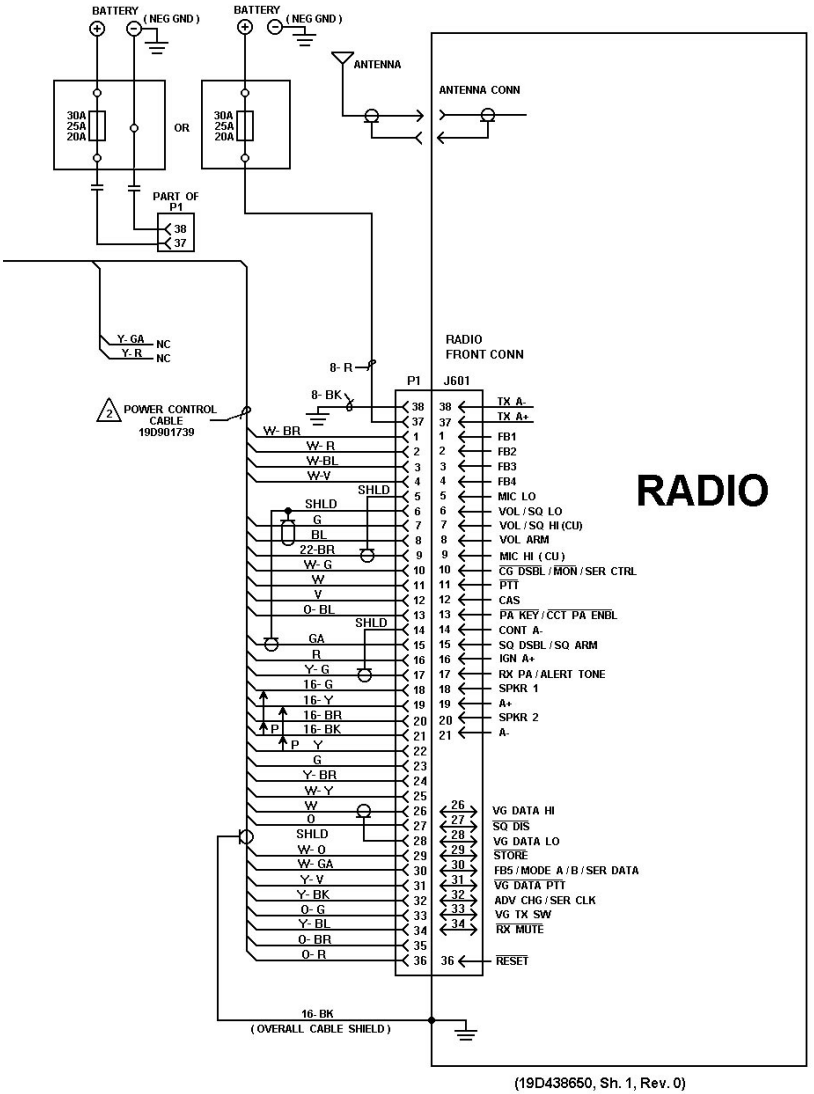


Figure 20. Control Unit and Radio Interconnection Diagram



(19D438650, Sh. 1, Rev. 0)

Figure 20. Control Unit and Radio Interconnection Diagram (con't)

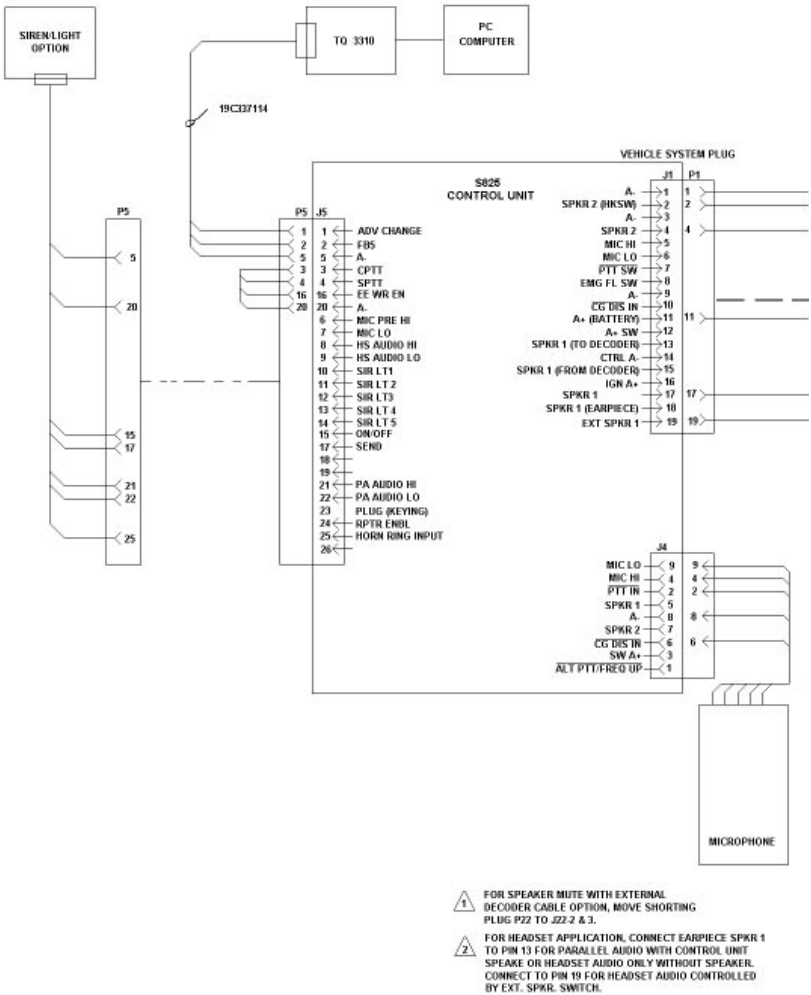
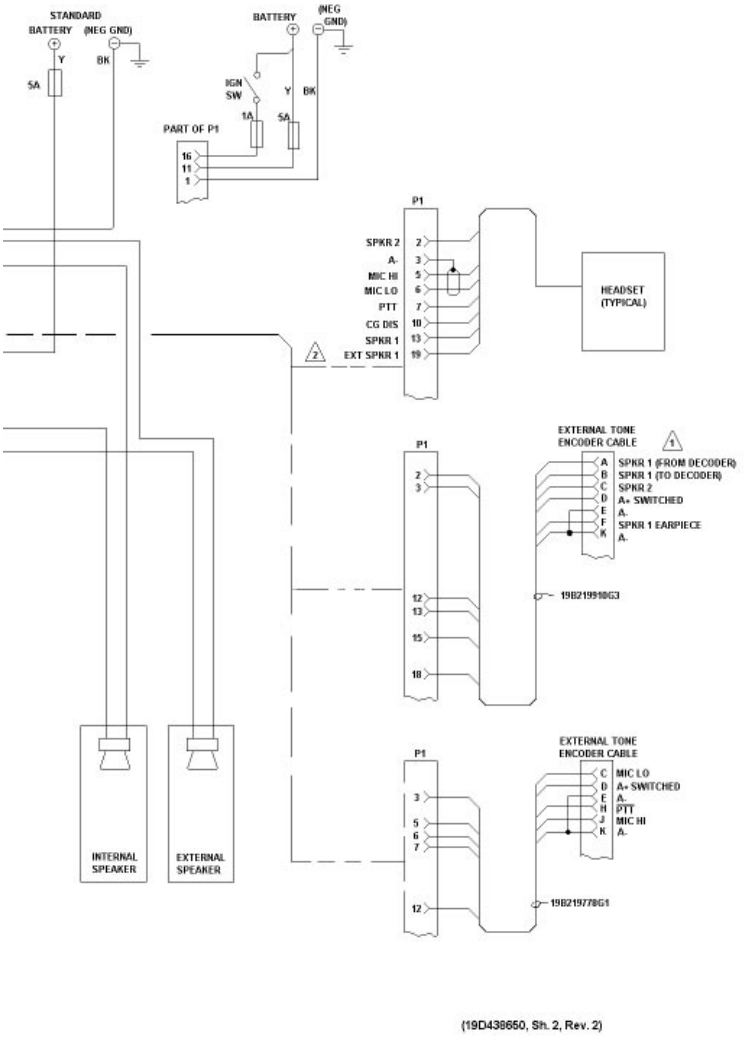


Figure 21. Control Unit Accessories, Interconnection Diagram



(19D438650, Sh. 2, Rev. 2)

Figure 21. Control Unit Accessories, Interconnection Diagram (con't)

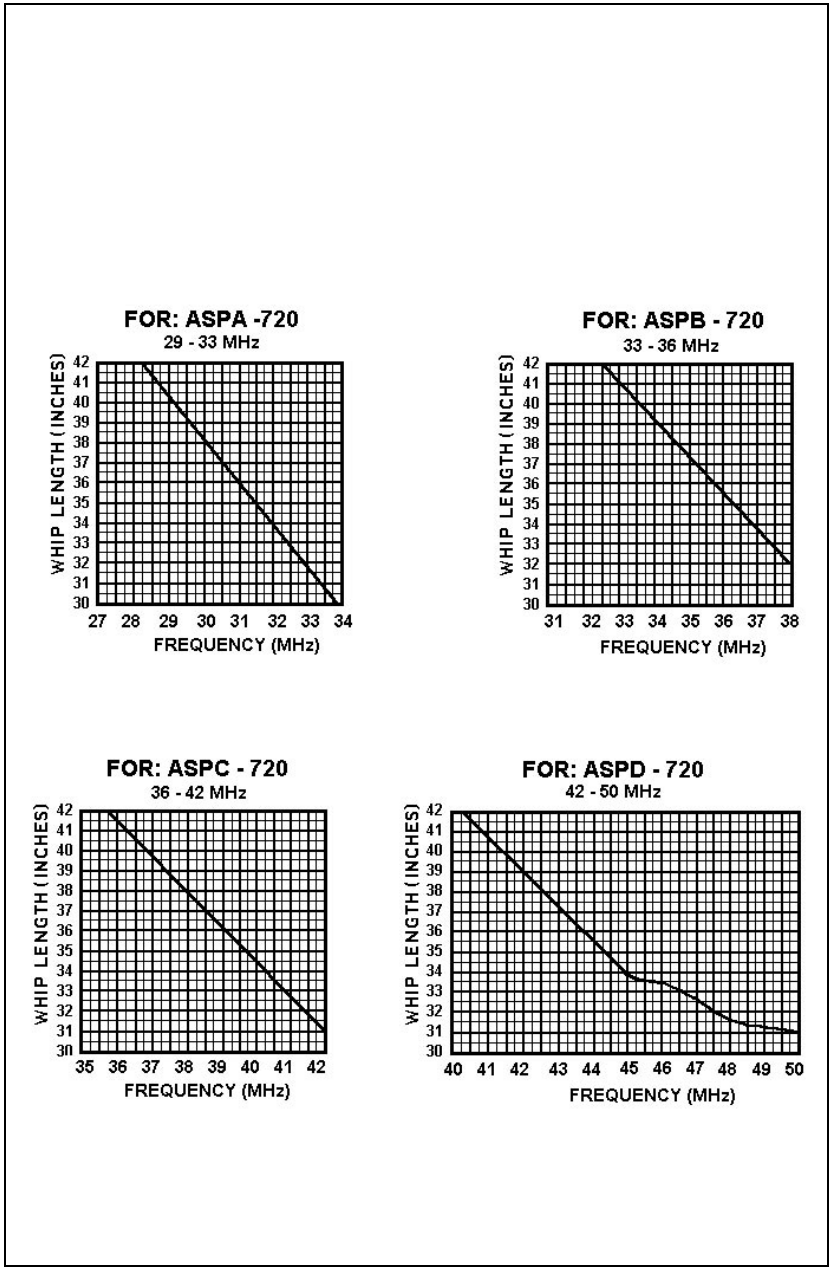


Figure 22. Antenna Cutting Chart, 29-50 MHz

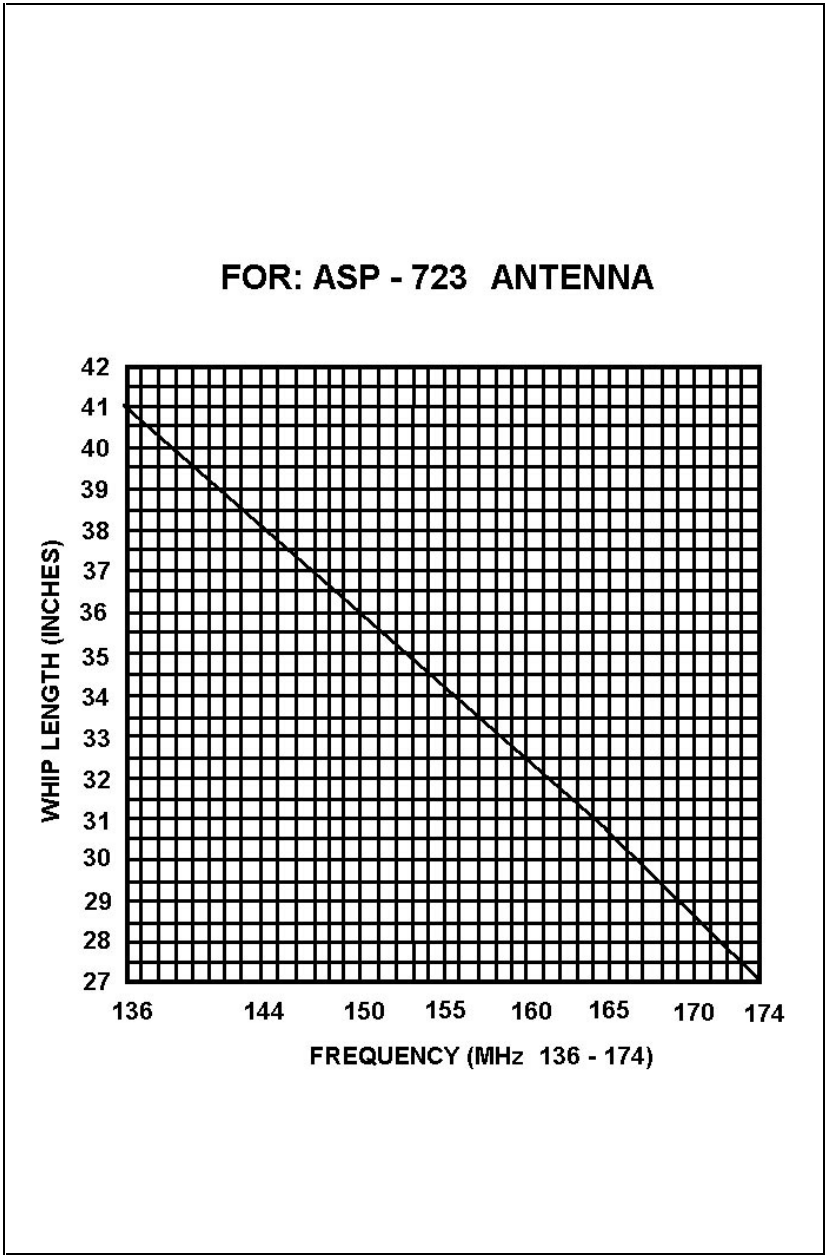


Figure 23. Antenna Cutting Chart, 136-174 MHz

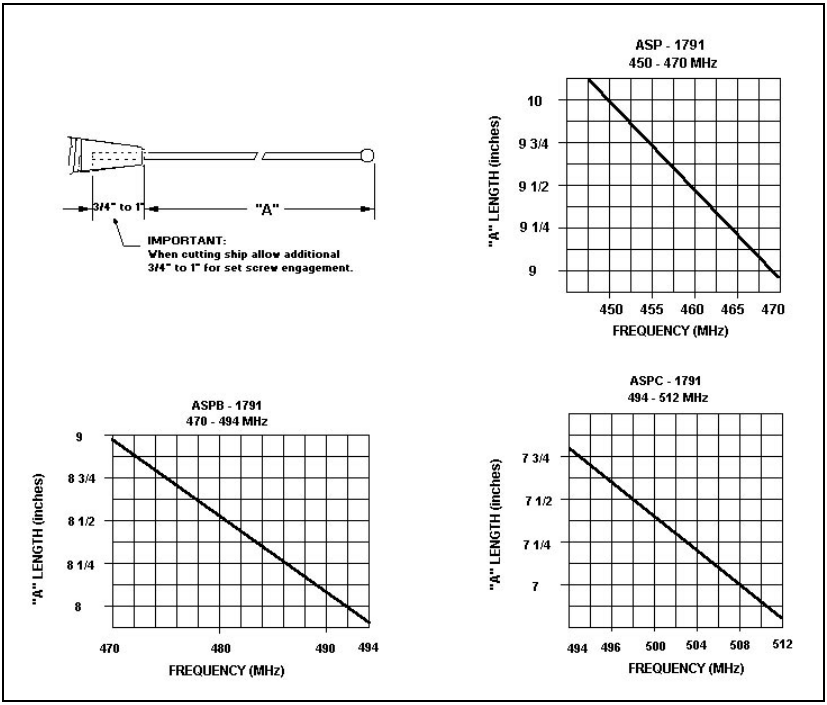


Figure 24. Antenna Cutting Chart, 450-512 MHz

PARTS LIST
INSTALLATION HARDWARE KIT
S-825 CONTROL UNIT

Select, Conventional 19D901146G3
Deluxe, Conventional 19D901146G4
EDACS Trunked 19D901146G5
EDACS Trunked 19D901146G6

	Antenna Ground Strap 19A149758G1
19A115799P2	Solderless Terminal
19A115799P4	Solderless terminal
	WEATHERPROOF CASE ASSEMBLY 19D438453G3
19B235039P1	Cam
19B235038P1	Catch
19A149531G1	Support
19A134583P6	Seal, Rubber
19B209539P4	Rim Lock: sim to Chicago Lock Co. Cat # 4260-1
19A149454P1	Hinge: sim to Bronson Cat. # B-SS-3474-SS-R
N194P1506B6	Screw, thread forming: No. 8-18 X 3/8. (Used to secure ground plane)
N400AP6	Washer, flat steel narrow plate, No. 4.
5490407P36	Rubber grommet, Inner diameter 1/2 inch.
19B235151P1	Cover, plate.
N97P13008	Machine screw, pan head: No. 6-32 X 1/2.
4035664P13	Nut, self-locking: No. 6-32.
19A116552P4	Cable clip.
N30AP16010	Machine screw, indented hex head: No. 10-32 X 5/8.
N406P39	Washer, lock, No. 10.
N400P9	Washer, flat.
N402P8B6	Flat washer, steel: No. 8.
19D438722P1	Ground plane.
19J706152P3	Strap: sim to Panduit Corp. SST-1.
344A3989G1	Shock mount assembly.
19B802204P2	Dampener, cellular urethane, 8 1/4 X 8 3/8 X 0.062 inch; sim to Poron 4701-01-20-062-1604. (Used with bottom mounting plate.)
19A116838P1	Adhesive coating
19D903778P1	Bottom mounting plate.
349A9531P1	Strap.
SAA70303/02	Protective cap.

	MOUNTING PLATE KIT FOR WEATHERPROOF CASE 19A149703G1
19D438723P2	Base
N24P21012	Cap screw: NO. 1/4-20 X 34
4035664P15	Lock nut: No. 1/4-20.
N400P71	Flat washer. (Quantity 6).
19A149756G1	Ground strap.
N24P21016	Cap screw: No. 1/4-20 X 1.
N402P41B6	Washer. (Quantity 1).
7115130P9	Lock washer, internal tooth: No. 3/8.
19D904965P1	Antenna Support
N210P21B6	Nut, machine screw, Hex, steel, 1/4-20.
	MICROPHONE HANGER (With Strong Spring) 19A149690G1
N30AP16010	Machine screw, indented hex head: No. 10-32 X5/8
4031457G1	Support.
4031458G2	Spring.
4035664P14	Nut, self-locking: No. 10-32.
	WEATHERPROOF FUSE KIT 19A149701G1
19A149677P1	Fuseholder: 30 Amps, 600 Volts; sim to Bussman Tron Type weatherproof assembly.
19A149451P1	Fuseholder: 30 Amps, 32 volts. Sim to Bussman Type HFB.
19A149678P2	Fuse: 20 Amps, 125 Volts; sim to Bussman BAF-20.
	MISCELLANEOUS
19D903677P1	Top Mounting Plate

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