

### Connecting the Microphone

Plug the microphone's connector into the microphone jack, secure the microphone holder to either the left or right side of the transceiver, then clip the microphone to the holder.

### Mounting the HTX-242 in a Vehicle

When you select a mounting location for the HTX-242, be sure:

- You can easily reach it

- No wires or cables will interfere with the vehicle's operation

- It is not directly in front of heating vents

- All wires will reach their connection points

**CAUTIONS:** To avoid damaging your vehicle's electronic systems, contact your vehicle's manufacturer before you install the HTX-242 to find out about the proper transceiver mounting locations, antenna locations, and power and antenna cable routing guidelines.

- Do not apply power to the transceiver until after you properly mount and connect an antenna.

Use the supplied screws, metal washers, bracket, rubber washers, and mounting knobs, to mount the transceiver.

### Connecting an Antenna

You can connect a variety of antennas for both mobile and base-station use (see "Using the HTX-242 as a Base Station" on this document. Each type of antenna has its benefits. Choose one that best meets your needs.

When deciding on a mobile or base-station antenna and its location, consider the following:

- The antenna should be as high as possible on your vehicle or house.

- The antenna and antenna cable should be as far away as possible from sources of electrical noise (ignition systems, power cables, and so on).

- The antenna should be vertical.

- The antenna should have an SWR of less than 1.5:1. An SWR of 1.8:1 or greater can prevent the HTX-242 from performing to its specified ratings.

After you select an antenna, follow its mounting instructions. Then route the antenna cable from the antenna to the HTX-242 and connect it to the

antenna connector.

Connect the antenna to your HTX-242 using 50-ohm coaxial cable. The cable should end in a PL-239 connector.

**CAUTIONS:** To prevent damage to your HTX-242, you must connect an antenna to it before you operate it.

Do not run the cable over sharp edges or moving parts that might damage the cable.

Do not run the cable through the engine compartment or other areas that produce extreme heat.

Check with your vehicle manufacturer for antenna cable routing guidelines.

### Connecting to your Vehicle's Power

Follow these steps to power the HTX-242 in your vehicle.

1. Connect the black wire to your vehicle battery's negative (-) terminal or to a metal part of the vehicle's frame. Be sure the metal part is not insulated from the vehicle's frame by a plastic part.
2. Connect the red wire to a source of voltage that turns on and off with the ignition and that can handle the transceiver's 10-amp maximum power draw.

**NOTE:** You might need to connect the red wire directly to the battery if you experience ignition noise.

### Using the HTX-242 as a Base Station

Although we designed the HTX-242 primarily for use as a mobile transceiver, you can also use it as a base station. To do so, you need these items:

13.8-Volt DC regulated power supply that can supply at least 10 amps continuous power

Base station antenna

50-ohm coaxial antenna cable and connectors

Follow these steps to connect the HTX-242 as a base station.

1. Mount the base station antenna according to its instructions.

**WARNING:** For your safety, follow all cautions and warnings included with the base station antenna.

2. Connect the antenna cable to the antenna jack on the back of the HTX-242.
3. Connect the black power wire to the power supply's negative (-)

terminal.

4. Connect the red power wire to the power supply's positive (+) terminal.
5. Connect the power supply to a source of power.

#### Using the HTX-242 with Packet Radio

You can connect your HTX-242 directly to a packet radio terminal node controller.

NOTE: You can purchase an 8-pin plug that matches your HTX-242's MIC jack at your local Radio Shack store (Cat. No. 279-440).

#### Connecting an External Speaker (Optional)

You can connect an external speaker to your HTX-242.

Use an 8-ohm communications or PA speaker that can handle 5 or more watts of power (such as Radio Shack Cat. No. 21-549). The speaker's cable must end in a 1/8-inch plug. Simply plug the speaker cable into the HTX-242's EXT. SP jack.

If your vehicle has a cassette player, you can easily connect your transceiver to your vehicle's audio system using a CD-to-cassette adapter and a mono-to-stereo audio plug.

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