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Pace P5666 Owner's Manual

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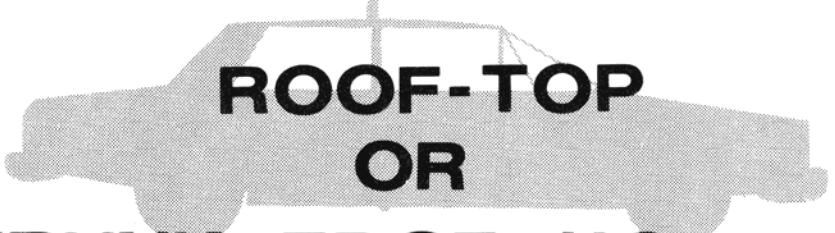
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INSTALLATION INSTRUCTIONS

P5666



**ROOF-TOP
OR
TRUNK EDGE-MOUNT
MOBILE ANTENNA**

25-30 MHZ



PATHCOM INC.
PACE TWO-WAY RADIO PRODUCTS
24049 S. Frampton Ave., Harbor City, California 90710

PACE P5666
 ROOF-TOP OR TRUNK EDGE-MOUNT MOBILE ANTENNA
 25-30 MHz

The PACE P5666 Antenna is designed for Citizens Band (CB) or Business Band use in the 25-30 MHz range, and has a 100 watt power limitation. The antenna will provide good reception for 27 MHz when assembled as described in these instructions. For Business Band tuning, adjust the whip length using a through-line RF wattmeter.

NOTE

The P5666 is a grounded antenna and will indicate a DC short from whip to ground.

The best location for antenna performance is on the top of the roof. However, if mounted on the center front of a fairly flat trunk edge, performance will closely match that of a roof-top installation with improved appearance. In addition, no hole drilling is required, and installation with the PACE "edge-grip" adapter is easier and quicker.

Installation procedures are given for both methods.

A. TRUNK-EDGE MOUNT INSTALLATION

1. Route the cable, from the transmitter, to the desired mounting location on the edge of the trunk lid. Thread the cable through the slots in the mounting bracket. See Figure 9. Then slide the mounting washer over the exposed end of the cable and feed the cable through the trunk edge opening.

NOTE

On certain automobile models, particularly on "fastbacks," when this antenna is installed in the center of the trunk edge, part of the antenna may strike the rear window or other part of the vehicle when the trunk lid is opened. To avoid this, the antenna may be installed off-center or on the side of the trunk lid raised to ensure proper placement.

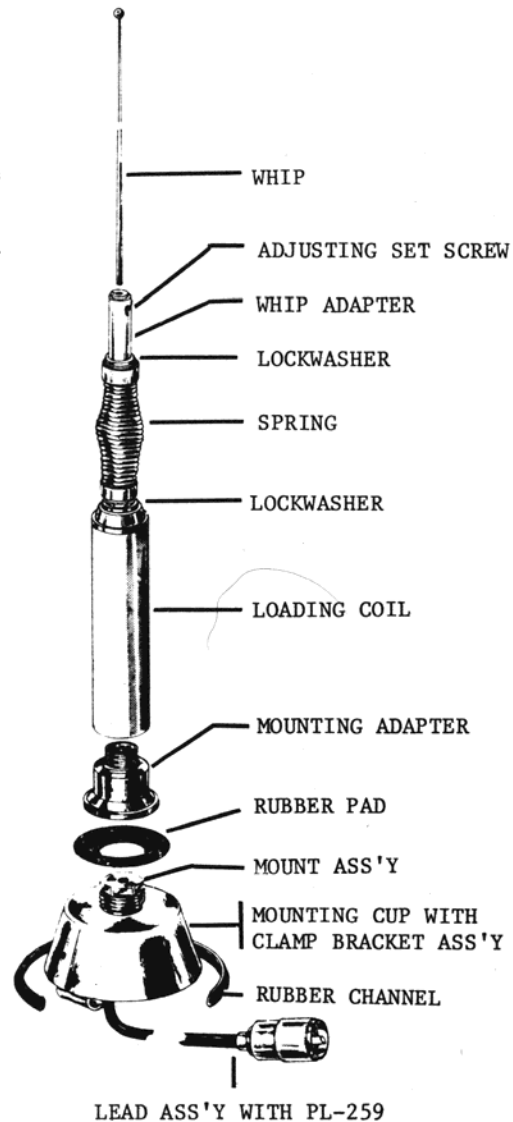
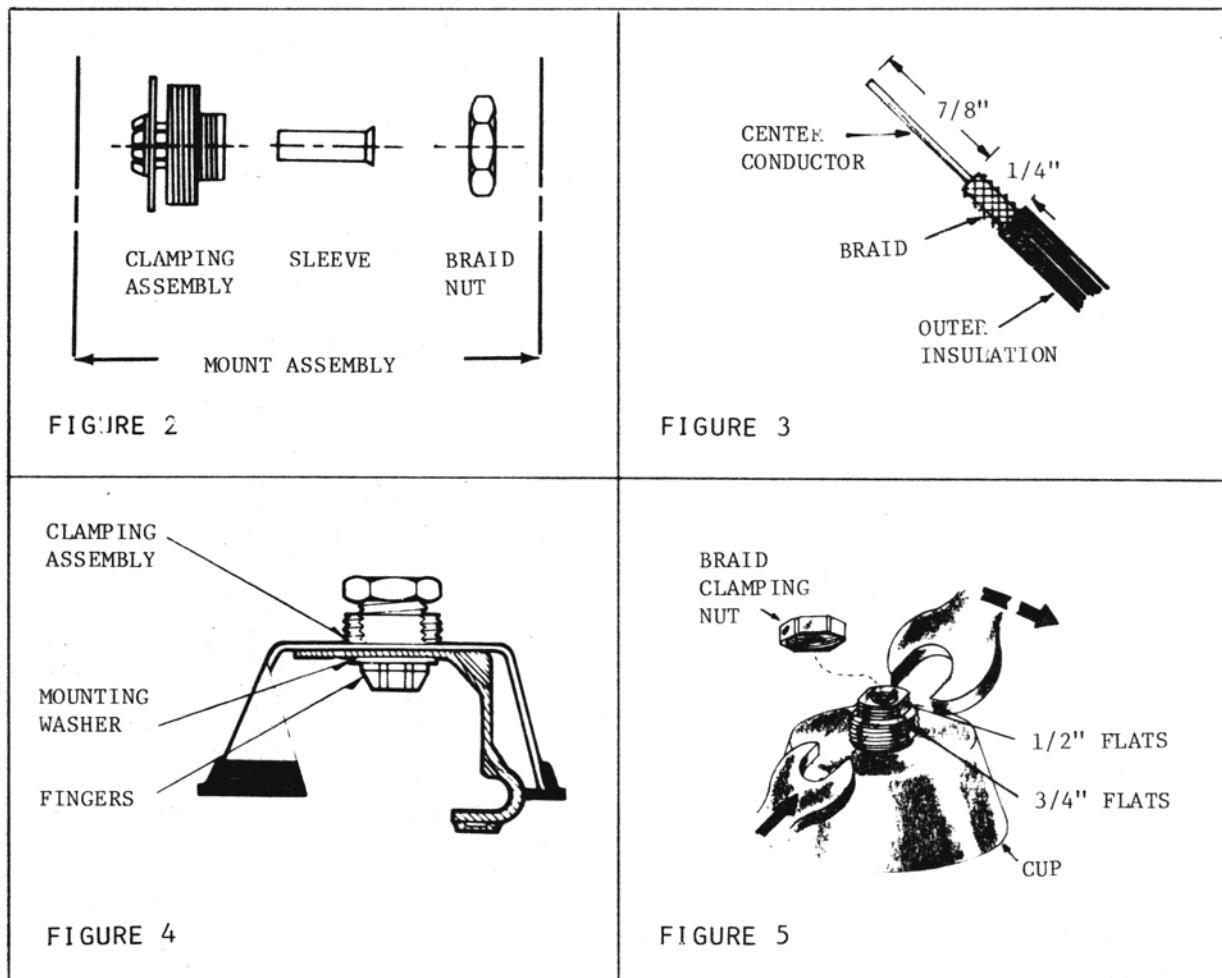


FIGURE 1

2. Unscrew the loading coil from the mounting adapter (Figure 1) and temporarily set the coil aside.
3. Unscrew the mount assembly (Figure 2) from the mounting adapter and temporarily set the mounting adapter aside. Then remove the nut and sleeve from the assembly.
4. Strip the end of the coaxial cable to the dimensions shown in Figure 3.
 - a. Remove 1-1/2" of the outer cable jacket.
 - b. Cut off 1-1/4" of the braided shield leaving 1/4" exposed.
 - c. Remove 7/8" of the inner insulation.
5. Push the clamping assembly through the mounting cup and clamp bracket assembly as shown in Figure 4. Insert the washer from the bottom to lock the assembly in place.
6. Insert the stripped end of the cable through the center of the clamping assembly.

Push the sleeve (plain end first) over the cable and press the sleeve into the clamping assembly until the flared end of the sleeve is flush with the top of the clamping assembly. Then, using a scriber or awl, flare out the 1/4" braid so that it lies perpendicular to the cable (Figure 6).



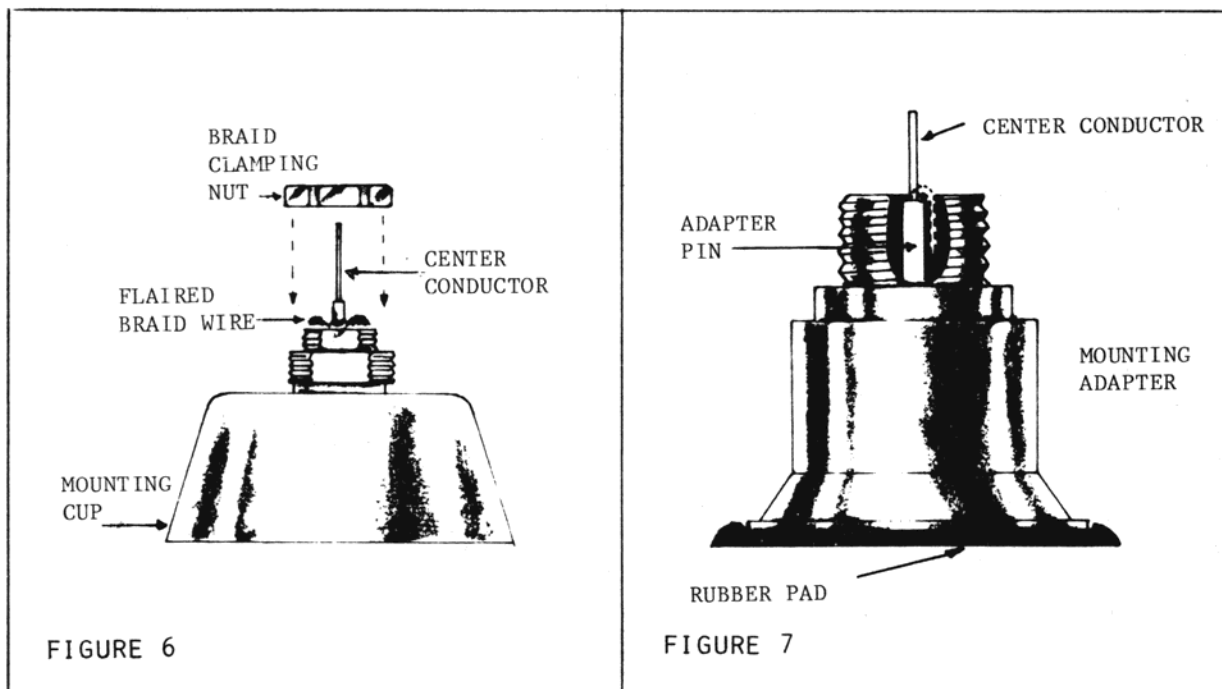
8. Holding the clamping assembly on the 1/2" flats, tighten the threaded nuts on the 3/4" flats (Figure 5) until the assembly is rigidly fastened to the mounting cup and clamp bracket assembly.
9. Thread the braid nut on the clamping assembly until all braid wires are securely clamped.
10. Position rubber pad and screw the mounting adapter onto the mount assembly. The copper center conductor must go through the center pin. Connect the conductor to the pin by folding back as shown in Figure 7.
11. Slip the mounting bracket over the trunk edge (Figure 8), and tighten the set screws with the allen wrench supplied. The assembled mounting adapter and cup should be as shown in Figure 9.
12. Screw the loading coil onto the mounting adapter and assemble all other components onto the loading coil as shown in Figure 1.

NOTE

Apply a silicone grease compound (available from dealers) on the threaded portions of the antenna assembly. This will protect the antenna from damage due to inclement weather, and simplify any future disassembly if required.

13. Insert the whip assembly into the adapter and secure by tightening the set screw using the allen wrench supplied.

For fine tuning the whip may be moved up or down using a through-line RF watt-meter. Adjust the whip length for lowest VSWR.



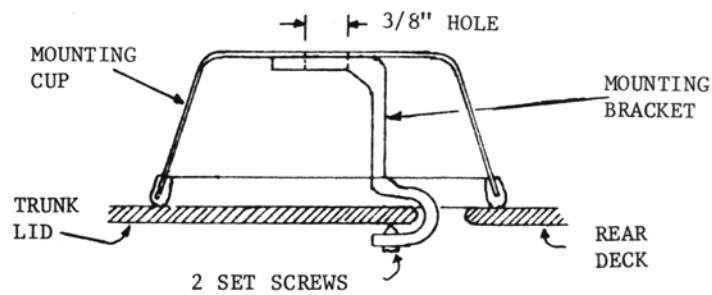


FIGURE 8

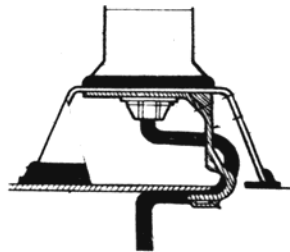


FIGURE 9

B. ROOF-TOP MOUNT INSTALLATION

For this installation, the rubber channel and mounting cup are not required. These parts may be discarded.

1. Select the roof-top antenna location at the highest centrally located point so that the antenna will be vertical when mounted. Drill a 3/8" hole in the roof-top at this location.

CAUTION

The use of a twist drill may tear the upholstery. Use a sheet metal drill or hole saw.

2. Feed the cable up to the transmitter location near the 3/8" hole in the roof. Slide the mounting washer over the end of the cable, and insert the cable through the 3/8" hole (from the bottom). Leave a few inches of cable exposed above the roof.
3. Disassemble the mount assembly as shown in Figure 2.
4. Strip the exposed cable to the dimensions shown in Figure 3.
5. Slip the clamping assembly over the exposed end of the cable, and press the slotted fingers into the 3/8" hole. See Figure 10. Be sure the assembly is pushed down far enough for all "fingers" to engage the cartop metal. Insert the washer (from the bottom) to secure the clamping assembly to the roof of the car body.
6. Insert the sleeve (plain end first) over the cable, and press the sleeve into the clamping assembly until the flared end of the sleeve is flush with the top of the clamping assembly.

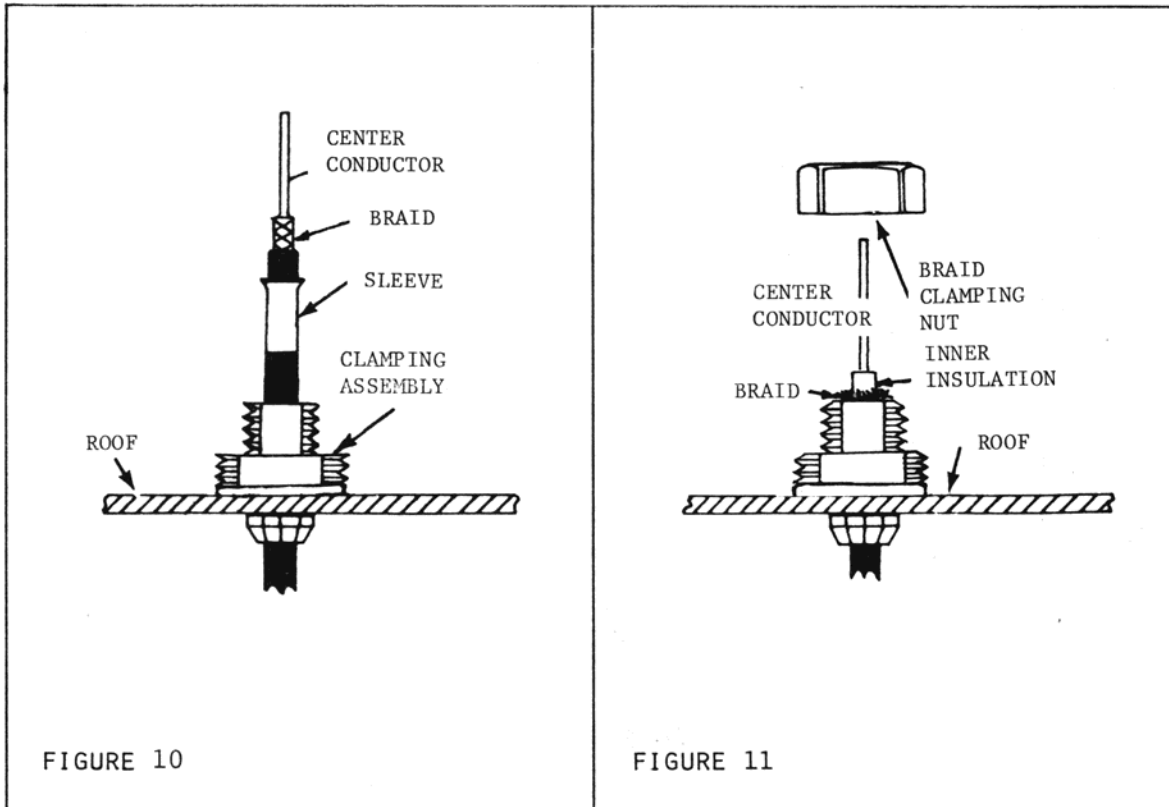


FIGURE 10

FIGURE 11

7. Hold the clamping assembly on its 1/2" flats, and tighten the threaded nut (with 3/8" flats) until the clamping assembly is rigidly fastened to the mounting surface.
8. Using a scribe or awl, flare out the 1/4" of braid until the braid wires rest flush on top of the clamping assembly. See Figure 11.
9. Extend the 1/4" insulated portion of the center conductor through the braiding clamping nut, and thread the braiding nut on the clamping assembly until the braid wires are securely clamped.
10. Place the rubber pad over the clamping assembly and flat against the mounting surface. See Figure 12.
11. Screw the mounting adapter snugly on the mounting assembly (Figure 13), threading the conductor through the hole in the adapter pin.
12. Bend the exposed wire back along the slot in the side of the pin as shown in Figure 13.
13. Screw the loading coil onto the mounting adapter, and assemble all other components onto the loading coil as shown in Figure 14.

NOTE

Apply a silicone grease compound (available from dealers) on the threaded portions of the antenna assembly. This will protect the antenna from damage due to inclement weather and simplify any future disassembly if required.

14. Plug the PL-259 connector at the end of the cable into the antenna jack. The assembly is completed.

The length of the whip can be varied by loosening the set screw and moving the whip in (or out) of the adapter and then retightening the set screw. When adjusting the whip, use a through-line RF wattmeter for optimum results.

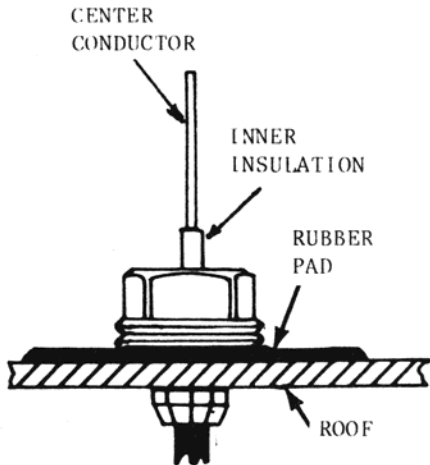


FIGURE 12

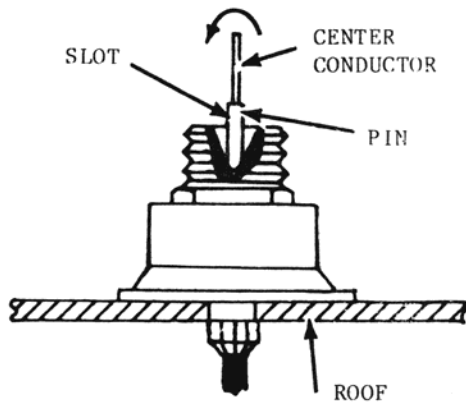


FIGURE 13

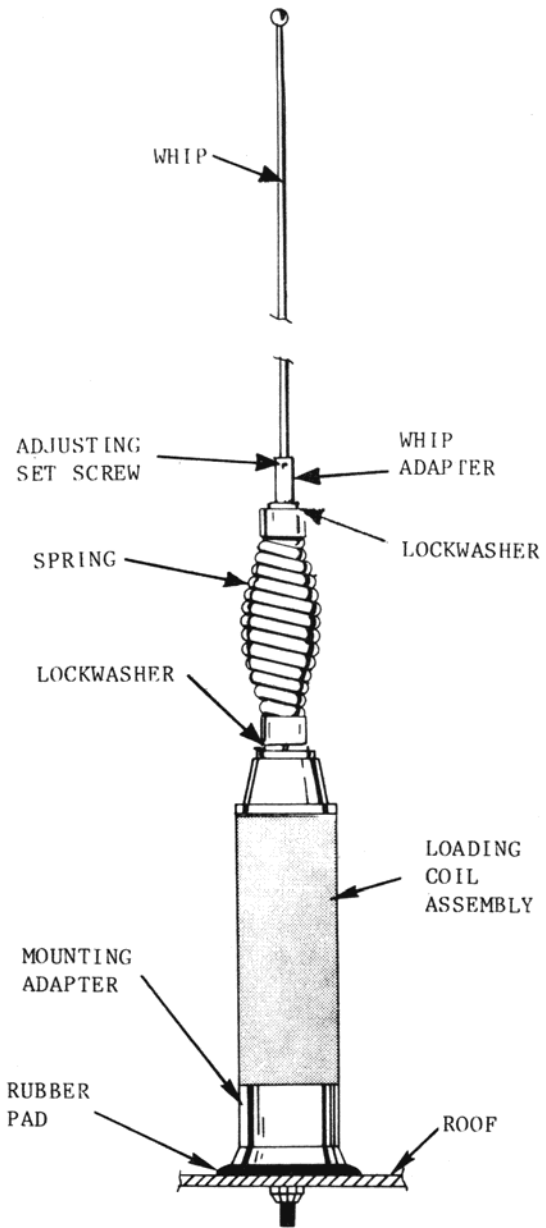


FIGURE 14

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