



# OWNER'S MANUAL

**AV-261T  
BASE LOADED  
MOBILE  
ANTENNA**

**avanti antennas**

© 1981 P/N 3238

# **AVANTI'S ONE YEAR LIMITED WARRANTY**

AVANTI warrants all products manufactured by it to be free from defects in material and workmanship under normal use. This warranty shall apply to defects appearing within one year from date of purchase. This warranty does not extend to damage caused by misuse, negligence, accident, nor to any item which shall have been altered in any way so as to affect its use and operation.

In the event the products manufactured by AVANTI are found to be defective in workmanship or material, your AVANTI dealer will repair or replace free of charge such defective material if delivered to the AVANTI dealer from whom you purchased the product within the above stated one year period with proof of purchase and if found by the dealer's inspection to be truly defective in workmanship or material.

AVANTI'S liability and the purchaser's remedies hereunder are exclusively limited to the repair of such products if defective or the replacement thereof. If inspection of any such products by the dealer does not disclose any defect in workmanship or material, or if in the opinion of your dealer the damage was caused by conditions beyond AVANTI'S control, repair or replacement will be made at a reasonable charge.

AVANTI does not assume responsibility for loss or damage in transit to products returned for inspection, repair or replacement.

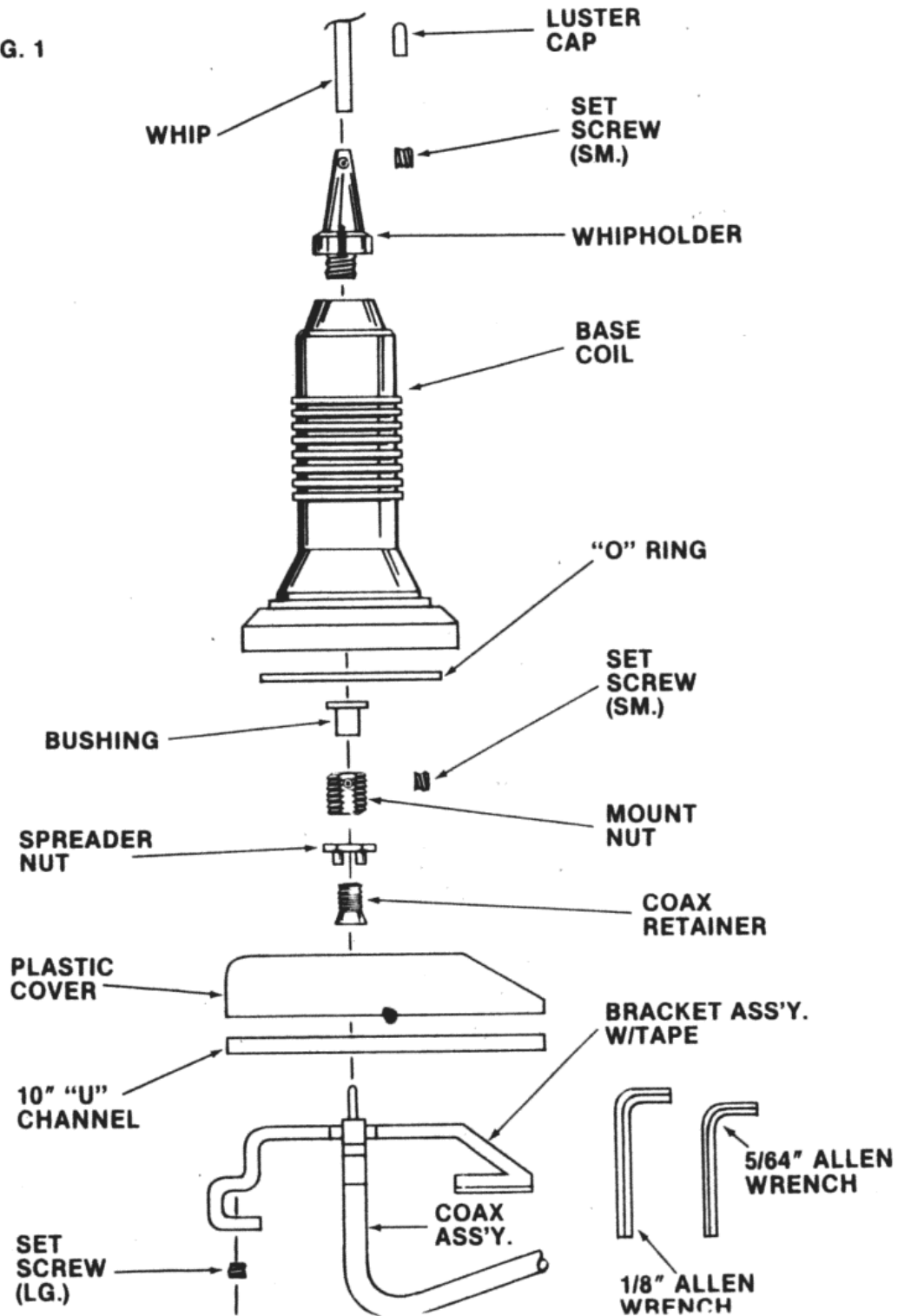
THE FOREGOING WARRANTIES ARE EXCLUSIVE, AND ARE IN LIEU OF ALL OTHER WARRANTIES (WHETHER WRITTEN, ORAL OR IMPLIED), INCLUDING BUT NOT LIMITED TO THE WARRANTY OF MERCHANTABILITY IN OTHER RESPECTS THAN EXPRESSLY SET FORTH ABOVE AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE EXCEPT AS HEREIN PROVIDED. EVERY FORM OF LIABILITY FOR DIRECT OR CONSEQUENTIAL DAMAGES OR LOSS IS EXPRESSLY EXCLUDED AND DENIED.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

**Technical assistance and parts information are available by calling Avanti customer service area code 312/628-9350 or write Avanti Communications, 340 Stewart Ave., Addison, IL 60101**

FIG. 1



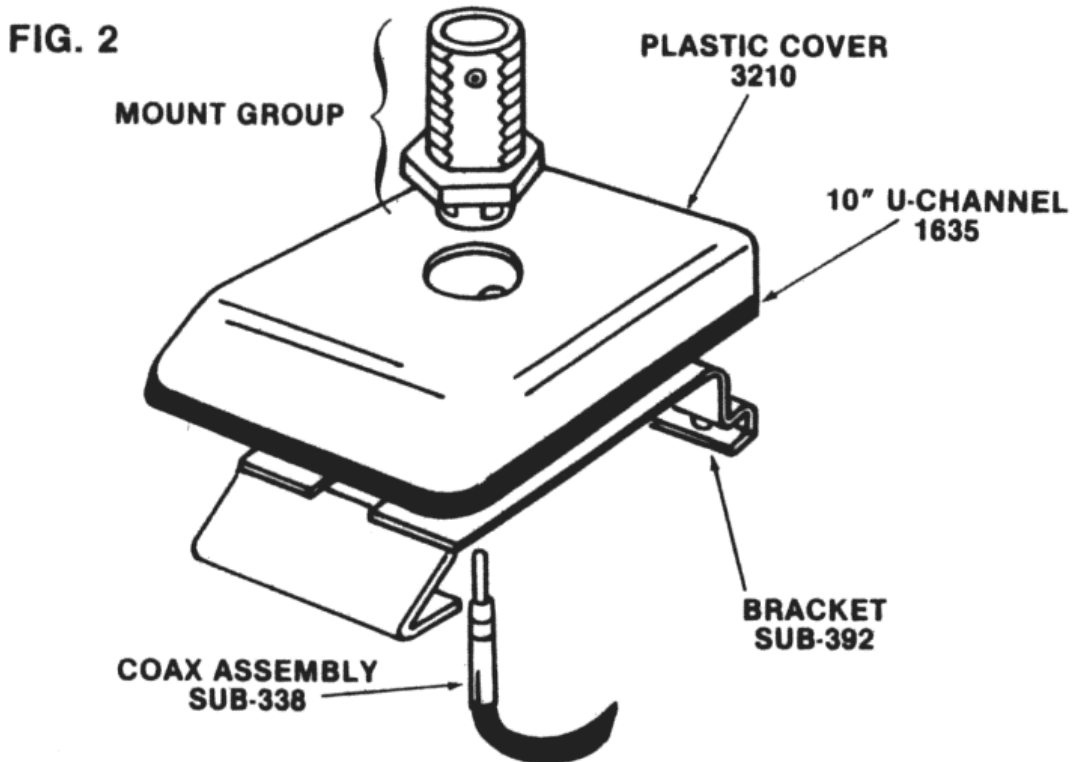
# PARTS LIST

## AV-261T BASE LOADED MOBILE ANTENNA WITH NO-HOLE TRUNK MOUNT.

PART NO.	QTY.	DESCRIPTION
3243	1	Luster Cap
3235	1	Whip
1333	1	Whipholder
SUB 343	1	Base Coil
1427	1	"O" Ring
1321	1	Bushing
1176	2	Set Screw, Small
1323	1	Mount Nut
1324	1	Spreader Nut
1325	1	Coax Retainer
3210	1	Plastic Cover
1635	1	10" Rubber "U" Channel
SUB 392	1	Bracket Ass't. w/tape
SUB 338	1	Cox Ass'y.
1177	2	Set Screw, Large
1343	1	1/8" Allen Wrench
1345	1	5/64" Allen Wrench
3238	1	Owner's Manual

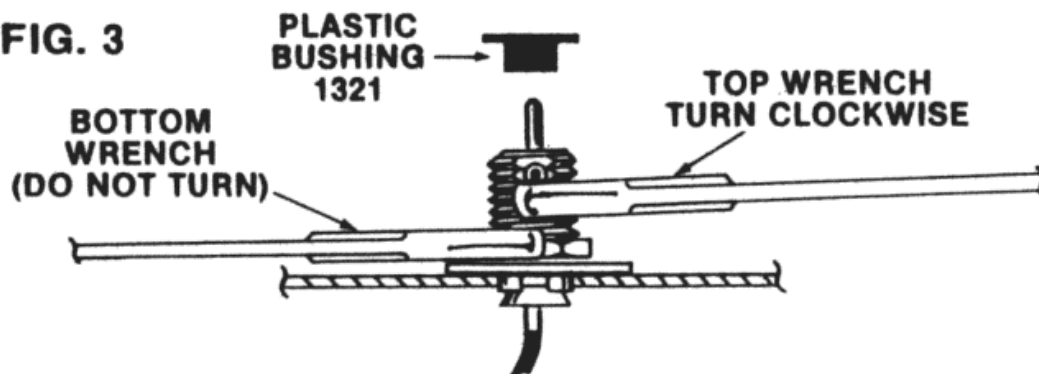
## AV-261T ASSEMBLY INSTRUCTIONS

1. Route coax from radio to trunk and out of lid gap at front of trunk lid.
2. Assemble the mount nut, spreader nut and coax retainer in the order shown in Fig. 1.
3. Insert assembled mount group through plastic cover and then through bracket assembly. Fig. 2.



4. Insert end of coax through mount assembly from the bottom. Fig. 2.

**FIG. 3**



5. Tighten the mount group firmly by holding, (do not turn), the spreader nut with one wrench and turn the mount nut with a second wrench. Check, while tightening, to make sure the mount is seated flat on the plastic cover. Tighten only until mount is secure. **DO NOT OVERTIGHTEN!** Fig. 3.
6. Place the plastic bushing down into the mount nut. Align the flat on bushing with set screw on mount nut.
7. Hold down on bushing while pushing up coax until center pin on coax is fully seated. Tighten the mount nut set screw until head of set screw is **FLUSH** with flat on mount nut.
8. Thoroughly clean the trunk lid surface where mount is to be located with windex or other non-film cleaner.
9. If not already done, start the two 1/4" set screws into the mount bracket. Seat the rubber "U" channel onto the bottom edge of plastic cover. Remove backing from tape on bracket assembly.
10. Position the bracket onto trunk lid. Don't allow tape to touch trunk surface until the mount is fully and squarely in position on trunk lid.

11. Route coax through one of the two slots in front of mount. Tighten by drawing up evenly on the two 1/4" set screws. Push down on rear of mount to affix tape.
12. Assemble antenna as in Fig. 1. Place "O" ring in groove at base of coil. Hand tighten on trunk mount.
13. Connect coax to transceiver.
14. If SWR is lower on the upper channels, raise the whip in whipholder. If SWR is lower on the low channels, lower the whip in the whipholder. If the antenna is still too long, remove the luster cap from tip, cut or file 3/8" off and retest.

---

# ANTENNA INSTALLATION

Most mobile antennas are of the ground plane type configuration. They require the use of a metal auto or truck body to form this ground plane rather than the radials commonly used in base station antennas.

Therefore, the proper placement of the antenna on the vehicle as well as a good ground connection is essential.

The following examples illustrate the signal patterns that will be achieved by placing the antenna in different positions on the vehicle.

If **placed on the side and to the rear**, the antenna will work better to the opposite, front side.



If **placed on the side and to the front**, the antenna will work better to the opposite, rear side.



The best placement for maximum omni-directional performance is **as close to the center of the vehicle as possible** — on an automobile this will be the roof center. The center of the truck is also a good installation point.