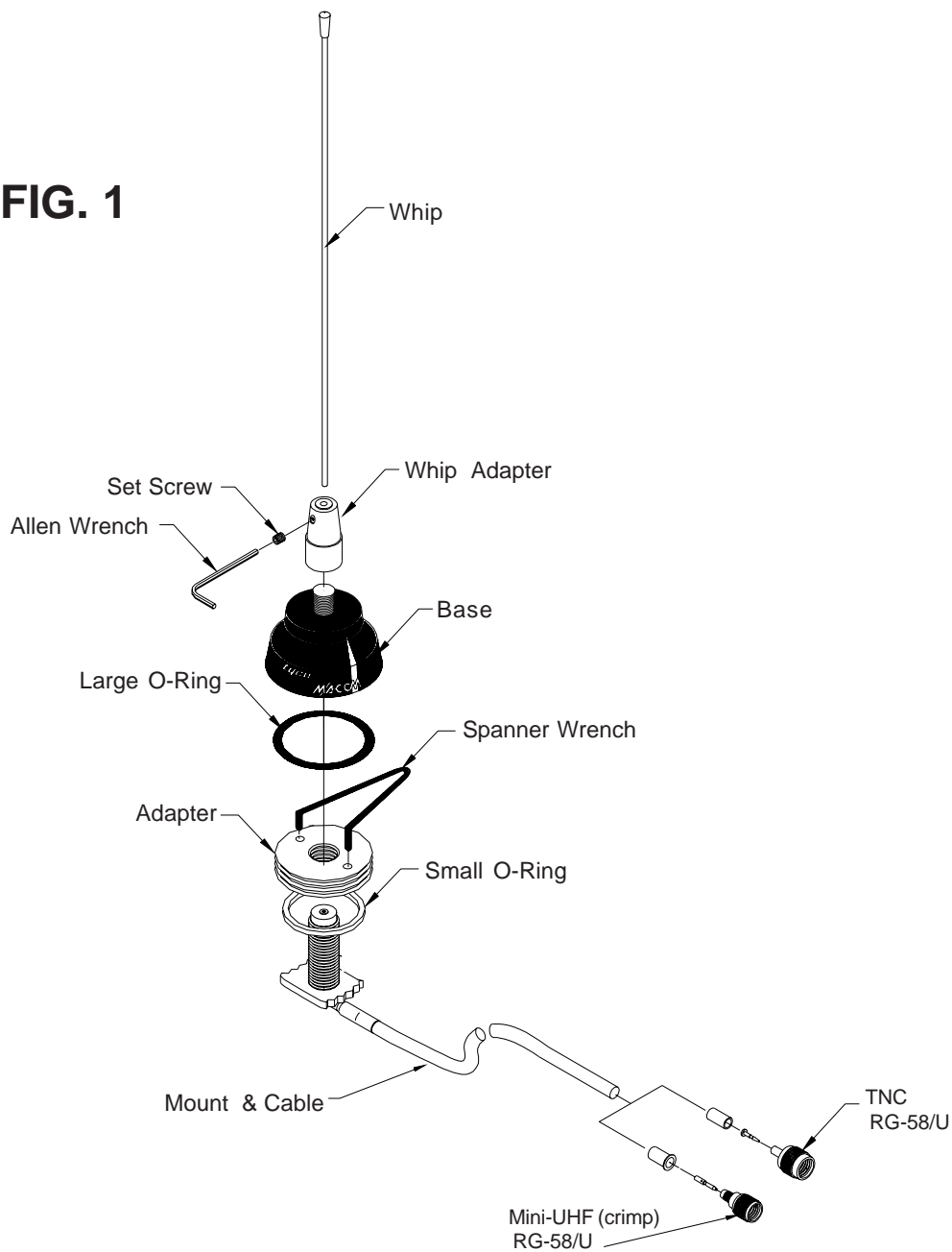


Roof Top Mount **MOBILE ANTENNA**

for 132-960 MHz

THIS PACKAGE CONTAINS COMPONENTS FOR THE CONFIGURATIONS SHOWN BELOW.

FIG. 1



WHERE TO MOUNT THE ANTENNA

Center roof top mounting is recommended for best performance on cars, vans or trucks with metal tops. For most center roof top installations, the underside of the mounting surface will be exposed by removing the interior dome light, be sure mounting surface is a single thickness of sheet metal. This antenna may also be mounted on any flat, horizontal, metallic surface.

The use of PTFE or similar lubricant on the threaded portions and O-Rings of the antenna, prior to assembly, will protect from weather and ease future disassembly

INSTALLATION INSTRUCTIONS

1. Select mounting location. Center punch and drill 3/4" diameter hole (Fig. 2). Use a sheet metal punch or hole saw. Remove any burrs from around hole.
2. If the under side of the mount location is accessible, the cable may be routed for the interior. Otherwise the cable must be fed through the hole and routed from the mount location.
3. Route cable to radio location, using care to avoid areas where the cable may become damaged.
4. Screw toggle bar onto stanchion. Apply a small amount of PTFE lubricant in the groove on the under side of the mount adapter. Place the O-Ring in the groove. The O-Ring will remain in place while mount adapter is threaded onto the Stanchion.
5. If the underside of the mounting location is accessible, push the stanchion up through hole and have a helper thread the mount adapter on stanchion. Otherwise thread the mount adapter onto the stanchion a few turns. Holding the mount adapter, angle the stanchion into the hole as shown in Fig. 3. Adjust the toggle bar to achieve .550" dimension (Fig. 4).
6. Align centering boss on the under side of the mount adapter in hole and use spanner wrench to tighten mount adapter securely (Fig. 4). Be sure mount does not rotate. Slide O-Ring over mount adapter (Fig. 4).
7. Assemble whip and antenna parts onto mount adapter as shown in (Fig. 1). Tighten all parts securely.
8. Attach appropriate connector to end of cable at radio (SEE CONNECTOR ASSEMBLY INSTRUCTIONS)
9. Screw connector onto antenna receptacle of radio to complete installation.
10. Refer to tuning instructions as follows.

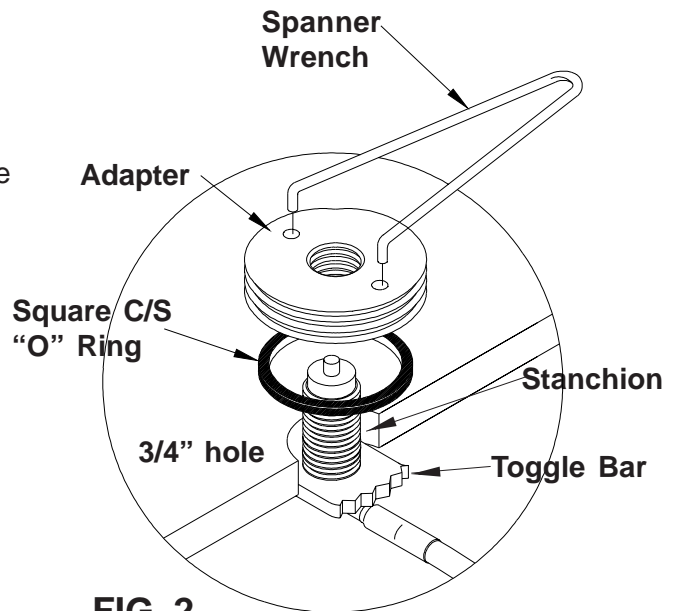


FIG. 2

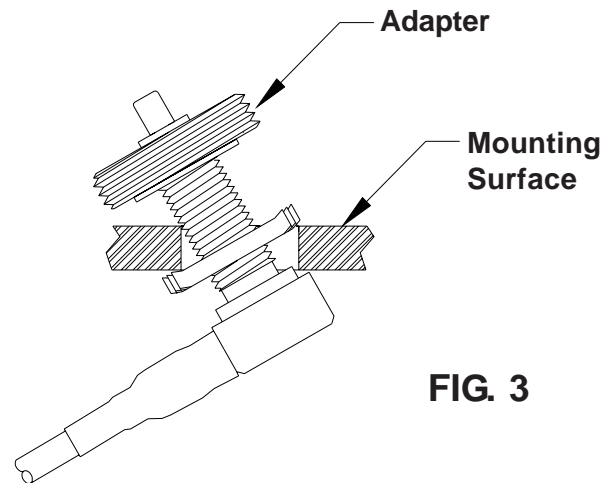


FIG. 3

TUNING:

1. It is recommended that an Antenna Tester be used to verify and tune the antenna across the entire specified frequency band. Connect the Antenna Tester between the transceiver and the antenna.
2. Cut whip length to achieve desired frequency per appropriate cutting chart. Remove sharp burrs.
3. Loosen set screw and bottom whip into whip adapter. Tighten set screw.
4. When tuning is complete, disconnect the Antenna Tester and connect the Transceiver to the antenna.

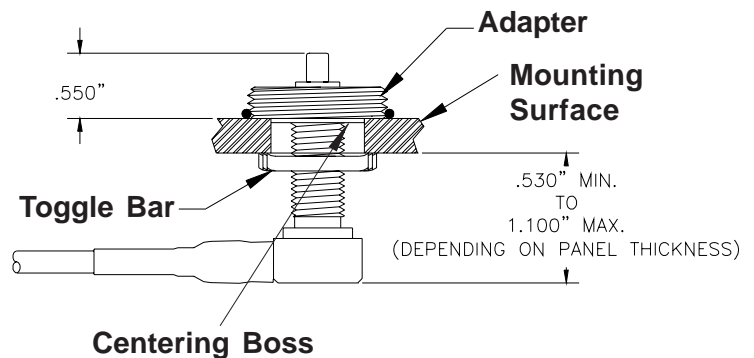


FIG. 4

Loosen whip adapter from black base and remove whip assembly before entering an automatic car was to prevent damage to antenna. When unscrewing whip be sure black base is not loosened. If base should loosen, tighten it against mounting surface using spanner wrench.

CUTTING CHARTS

Frequency (MHz)	Whip Length (inches)
129	20 1/16
132	19 9/16
135	19 1/16
138	18 13/16
141	18 5/16
144	18
147	17 9/16
150	17 1/4
153	17
159	16 5/16
162	15 15/16
165	15 9/16
168	15 3/8
171	15 1/16
174	14 7/8

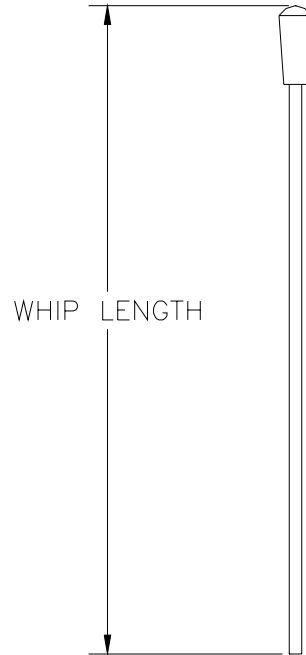
FIG. 5 (129-174 MHz)

Frequency (MHz)	Whip Length (inches)
406-440	5 3/16
415-455	5 1/16
435-470	4 15/16
455-490	4 11/16
475-512	4 5/16



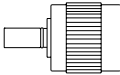
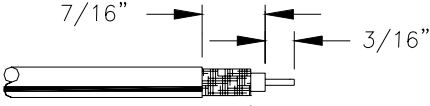
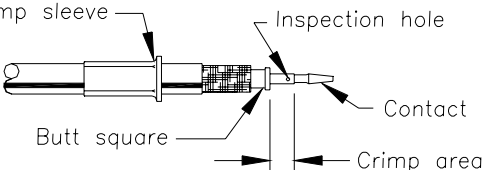
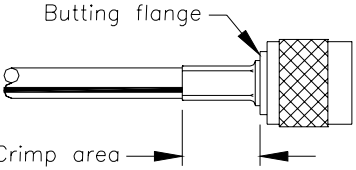
FIG. 6 (406-512 MHz)

Frequency (MHz)	Whip Length (inches)
800-855	2 13/16
855-920	2 1/2
920-960	2 1/4



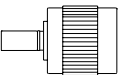
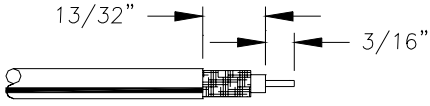
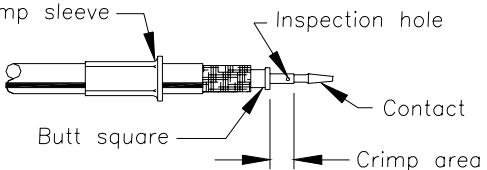
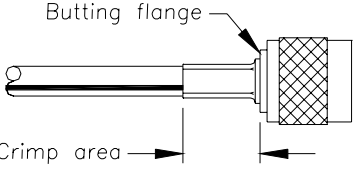
FIG. 7 (800-960 MHz)



TNC CRIMP CONNECTOR INSTRUCTIONS

 CRIMP SLEEVE	 CONTACT	 CONNECTOR HOUSING
 <p>7/16" 3/16"</p> <p>For cable with foil strip back even with braid 5/16"</p>	<p>Trim cable to dimensions shown, taking care not to nick the inner conductor or the braid.</p>	
 <p>Crimp sleeve Inspection hole</p> <p>Butt square Contact</p> <p> Crimp area</p>	<p>Slip crimp sleeve over cable. Place inner conductor into contact. Note that the end of the contact and inner dielectric must be butting and square. Crimp with proper (.068 hex) crimp tool.</p>	
 <p>Butting flange</p> <p>Crimp area</p>	<p>Flare outer braid, and gently but firmly push the contact into the connector housing until a gentle snap is felt, indicating the contact is in place. Note: for cable with foil; foil shall remain attached to cable dielectric; flare braid only. Slip the crimp sleeve in place, butting the flange against the connector body, and crimp using proper (.213 hex) crimp tool.</p>	

MINI-UHF CRIMP CONNECTOR INSTRUCTIONS

 CRIMP SLEEVE	 CONTACT	 CONNECTOR HOUSING
 <p>13/32" 3/16"</p> <p>For cable with foil strip back even with braid 5/16"</p>	<p>Trim cable to dimensions shown, taking care not to nick the inner conductor or the braid.</p>	
 <p>Crimp sleeve Inspection hole</p> <p>Butt square Contact</p> <p> Crimp area</p>	<p>Slip crimp sleeve over cable. Place inner conductor into contact. Note that the end of the contact and inner dielectric must be butting and square. Crimp with proper (.068 hex) crimp tool.</p>	
 <p>Butting flange</p> <p>Crimp area</p>	<p>Flare outer braid, and gently but firmly push the contact into the connector housing until a gentle snap is felt, indicating the contact is in place. Note: for cable with foil; foil shall remain attached to cable dielectric; flare braid only. Slip the crimp sleeve in place, butting the flange against the connector body, and crimp using proper (.213 hex) crimp tool.</p>	