

Installation Sheet

CD40 Series Multi Band VHF/ UHF Mobile Antenna

CD40-136960-xx | CD40-148960-xx



RFI's CD40 Series Quad band antenna supports both LMR VHF and UHF bands, providing full interoperability among emergency services and commercial radios, regardless of operating band. The CD40 provides outstanding coverage of VHF/UHF frequencies, in a ready-to install, no tune design.

for maximum durability with a fully moulded highly flexible whip. The CD40 is designed to interface with NMO type mobile mounts, facilitating an easy upgrade on public safety vehicles.

NOTE: The CD40 is ground dependent and should be mounted on a ground plane for optimal performance e.g. vehicle roof, etc.

NMO Standard Series – Permanent Mount

1. Requires a 3/4" (19 mm) hole in the (Figure 1) vehicle. Use of a hole saw is the preferred method in most cases.
2. Remove any burrs, particularly on the car roof under side of the hole. Remove paint in a narrow ring around the hole. Metal-to-metal contact between the vehicle car roof and mount is essential for best performance.
3. From above, feed the coax and serrated part of the mount assembly through the hole (Figure 1). This is done more easily if the locking nut is screwed onto the mounting assembly, about a turn-and-a-half.
4. Pulling up on the locking nut, jiggle the mounting assembly. The mount step on the mounting assembly will locking nut slip into proper alignment in the hole. Be sure the "O" assembly ring on the underside of the locking nut is properly seated.
5. Using a spanner wrench or long nose pliers to hold the mounting assembly and an adjustable or open-ended wrench on the locking nut, tighten firmly. Excessive tightening is not necessary or desirable, on standard mounting surfaces the tightness should be a minimum of 6nM and should not exceed 12Nm of force.



Figure 1

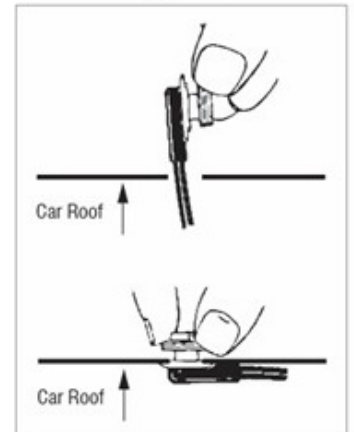
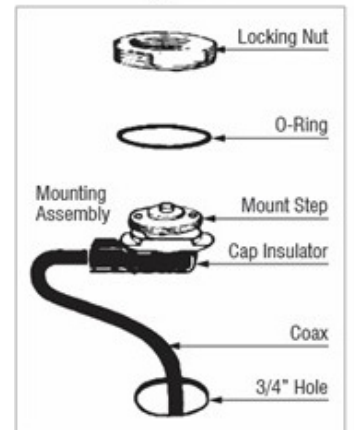


Figure 2



RFI strongly discourages the practice of leaving NMO-type mounts exposed to the elements such as rain etc. Removing the antenna with its base exposes the unprotected NMO mount. It is not recommended regardless of the manufacturer or style of NMO mount. No NMO-type mount is designed to be waterproof when installed without an antenna base.

| Model Number | Description |
|----------------|---|
| CD40-136960-xx | Multi Band VHF/UHF antenna, 136-155 / 378-520 / 698-960 (available in whip only, or with the NMO base included) |
| CD40-148960-xx | Multi Band VHF/UHF antenna, 148-174 / 378-520 / 698-960 (available in whip only, or with the NMO base included) |

| Frequency Range | VSWR |
|--------------------------------|--------|
| VHF: 136-155 / 148 -174 MHz | <2.1:1 |
| UHF: 378 – 400 MHz | <3.0:1 |
| UHF: 400 – 520 / 698 – 960 MHz | <2.0:1 |