

Installation

400-520 MHz
For use with
RG58C/U cable only

CD990 Series Broadband Elevated Feed Antenna

The CD990 broadband elevated feed antenna is designed to be installed with or without the spring assembly, and are supplied with 5 meters of RG58 coax cable. The antenna is capable of having new coax cable fitted to it in the field with simple hand tools.

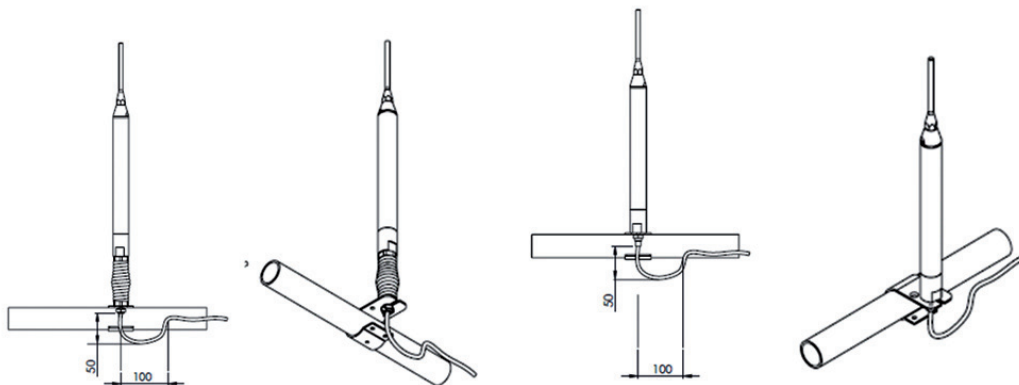
Tools required:

1. Adjustable spanner typical 27 A/F
2. Sheath stripping tool. Abeco MK02 or similar sheath only stripper
3. Side cutters
4. Soldering Iron
5. Solder sucker

Installations:

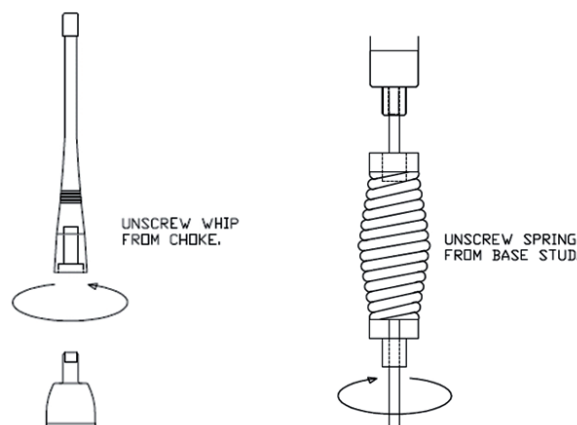
- The antenna can be mounted on the vehicle gutter, fender, and trunk, bulbar or other suitable location using an appropriate mounting bracket.
- When choosing a mounting location, ensure the whole antenna is as high as possible and as far away as practical from metallic obstructions (roof racks or vehicle pillars). This will minimize reflection or shadowing of the signal.
- Ensure there are no other antennas installed within 1 meter of the antenna when installed to minimize signal interference.

Important: When installing this antenna, it is important to allow enough loose cable at the base of the antenna to allow for the flex in the spring assembly. A loop of approx 50mm before fixing the cable would typically be sufficient. See pictures below.



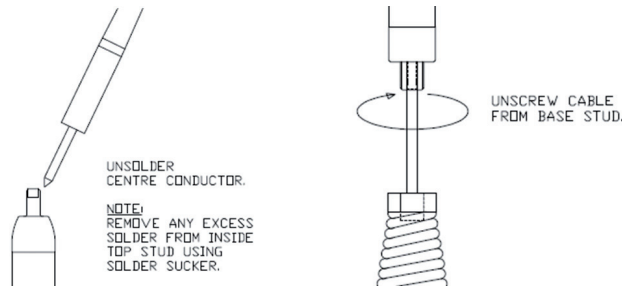
To Re-terminate the Antenna:

Step 1: Remove the top whip and spring assembly from the existing antenna, and store both in a secure location to be refitted later.



Step 2: Remove the old cable.

The centre conductor of the cable is soldered to the choke top stud and needs to be de-soldered. The cable is also retained by a mechanical junction where the braid of the cable has been folded back over the cable jacket and is then screwed into an internal thread at the choke bottom stud.



- (1) De-solder the centre conductor from the antenna top stud.
- (2) Hold the cable securely at the base of the antenna and (looking at the bottom of the antenna), rotate the antenna assembly clockwise until the cable comes loose from the threaded base stud.
- (3) Pull the cable out.

Step 3: Prepare the new cable (Diagram 1)

- (1) Define the total cable length for installation; the internal cable length covered by antenna body is around 212mm without spring and 327mm with spring.
- (2) Use stripping tool to remove 212mm of the cable jacket.
- (3) Trim the braid of the cable to 8mm in length from the end of the cable jacket.
- (4) Fold the braid back over the cable jacket.

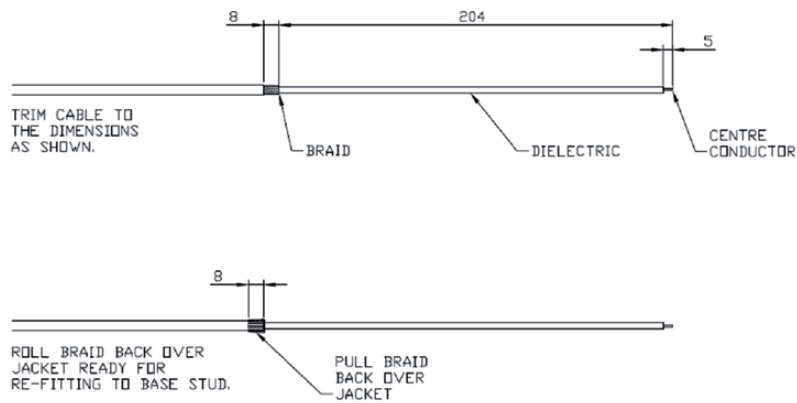


Diagram 1

Step 4: Connect cable to threaded base stud & top stud. (Diagram 2)

- (1) Slide the prepared cable through the spring assembly and into the antenna.
- (2) Screw the pre-prepared cable into the threaded base stud until it fits tightly. The thread retains the cable inside the base stud.
- (3) Solder the center conductor to the top stud.
- (4) Re-fit the whip on top of the chock, re-fit antenna to spring assembly.

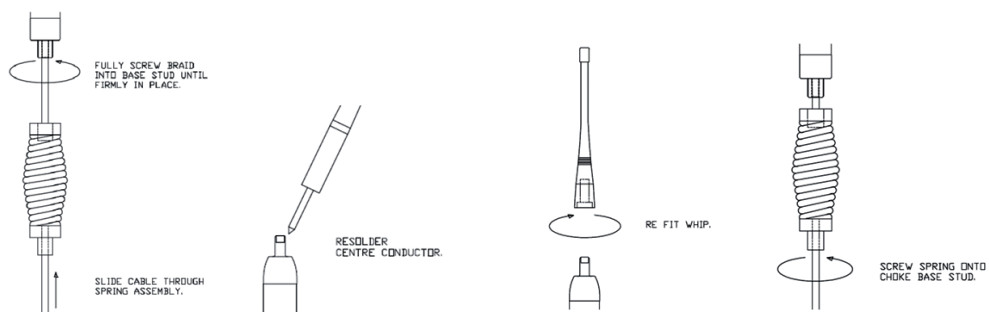


Diagram 2

Step 5: Your antenna is ready for installation.

