



Model
RA-4.7

Right-Angle UHF Female
“Quick Fit” Antenna Mounting Base
with 4.7 metres RG58A/U stranded
cable fitted.
UHF male solder connector
supplied, not fitted.

Mounts into any bracket with
minimum 16mm diameter hole.

INSTALLATION GUIDE

www.zcg.com.au

DESCRIPTION

The RA-4.7 right-angle UHF female base and cable set is suitable for mounting these ZCG “Quick Fit” mobile antenna tops:

- GRH, 144 – 174 MHz.
- GRN series, 400 – 520 MHz.
- GID-M-QF series, 400 – 520 MHz.

4.7 metres of RG58A/U stranded cable is fitted to the base and a UHF male solder connector is supplied, not fitted.

The UHF female base can be mounted into any bracket with minimum 16mm diameter hole.

SELECTING THE MOUNTING POSITION

To achieve best performance from your antenna, these are the important principles you should consider when selecting the mounting point:

1. **Mount the antenna in as high a place as possible.**
2. **Mount the antenna as far away from other antennas and metallic objects as possible to avoid interference and distortion of the 360° omnidirectional pattern. At least 350 mm side clearance is desirable, preferably more.**
3. **Mount the antenna properly vertical, not at an angle.**

INSTALLATION GUIDE

1. Remove the ring from the UHF female mounting base.
2. Screw the locknut all the way down the thread until it turns freely at the very bottom of the base.
3. Insert the UHF female connector through the hole of your mounting bracket.
4. Replace the ring onto the UHF female mounting base and screw it down tight to secure the base firmly on the bracket.
5. Screw the GRN “Quick Fit” antenna top onto the UHF female base.

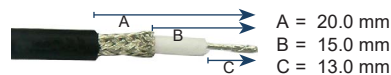
IMPORTANT : Do not over-tighten the antenna top on the mounting base. This is not necessary and will make removal of the antenna top quite difficult.

IMPORTANT : Leave some slack in the cable at the point where the cable exits the mounting base so as not to place unnecessary tension on the cable.

Route the RG58A/U stranded cable carefully. Avoid high heat areas in the engine bay. Ensure that the cable is not stretched excessively and there are no sharp kinks. Use cable ties, but do not pull so tight as to crush the cable. A damaged feeder cable is a cause of high VSWR and reduced performance.

We recommend that you cut the cable to the shortest length necessary, prior to fitting the UHF male connector provided.

Carefully strip the end of the coaxial cable as shown in the diagram.



1. Fold back the uncovered braid over the outer jacket.
2. Screw the UHF male connector over the braid until tight. Trim any exposed braid.
3. Solder the centre core of the cable to the connector pin. Remove any excess solder.

Attach the connector to your radio.

Installation is now complete.

MAINTENANCE

The RA-4.7 is manufactured utilising high quality components and QA assured manufacturing processes and quality control checks to ensure survivability for all conditions whilst requiring minimal maintenance.

We recommend a yearly inspection of your entire antenna system to ensure the performance, condition and connection of your system is maintained.

A visual inspection of your coaxial cable, mount base security and antenna condition as well as a system check for performance will maintain signal/system performance.