



Model  
**AB-4.7**

**UHF Female topped 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](http://www.zcg.com.au)

### DESCRIPTION

The AB-4.7 UHF female topped mount base and cable set is suitable for mounting the following ZCG mobile antenna tops:

- ZN3-77-04-TPM (2.1 dBi)
- ZN3-77-10-TPM series (6.2 dBi)
- Replacement base for ZN3-77-04-AB

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

The aluminium 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 nut and toothed washer from the base of the mount base and slide off of the coaxial cable (leave rubber washer on base of mount).
2. Insert the cable and base of mount ferrule through the hole of your mounting bracket.
3. Replace the securing nut and toothed washer back along the cable and screw securely onto the threaded base of the mount ferrule/base to secure base firmly on the bracket/mount hole.
4. Screw your antenna onto the top (UHF female) of the mount base and secure if grub screw present.

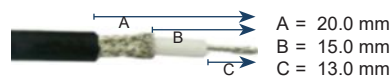
**IMPORTANT : Do not over-tighten the antenna top on the mounting base. This is not necessary and will make removal of the antenna top quite difficult.**

**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 (example engine bay or heating equipment). Ensure that the cable is not stretched excessively and there are no sharp kinks. Use cable ties to secure your cable routing, 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 or device.

We recommend water/dust ingress protection of a layer of self-amalgamating butyl rubber tape be applied followed by a top layer of uPVC electrical tape is applied over all exposed terminations (including at minimum 15mm onto the jacket of the coaxial cable).

**Installation is now complete.**

### MAINTENANCE

The AB-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.