ZCG

Model

ZN3-77-11B

Heavy-duty spring base collinear
1.2 metres tall

477 MHz UHF CB Radio 6.6 dBi Gain

Recommended for a vehicle bull bar

- Mounts into any bracket with minimum 12.5 mm diameter hole.
- 4.5 metres of RG58 low loss stranded cable with FME Female connector fitted.
- FME Male to UHF Male adaptor supplied to make connection to your UHF CB radio very simple.
- 100 watts maximum input power.

INSTALLATION GUIDE

www.zcg.com.au

ANTENNA DESCRIPTION

Standing 1.2 metres tall and delivering an effective 6.6 dBi gain, the ZN3-77-11B heavy duty UHF CB radio mobile antenna offers a good balance between size and gain which is well suited for either hilly or flat country.

This antenna will provide effective performance across either hilly or flat terrain and the high quality construction ensures long term survival in harsh Australian conditions. Key features include

- The antenna top can be detached for storage when not required using the Allen hex key supplied. It can also be substituted with the taller 2.1 metre 8.1 dBi high gain **ZN3-77-12** top, or the 40 cm flexible **ZN3-77-06-TPM** rugged 2.1 dBi whip.
- A precision machined marine grade aluminium ferrule prevents water and dust ingress giving the antenna a longer service life.
- The machined aluminum top cap stops water and dust ingress into the radome.
- Component parts are available to order separately.

A detailed specification sheet is available to download from our website **www.zcg.com.au**

TUNING

The antenna has been tuned in the factory for 477 MHz UHF CB Radio (476.4125-477.4125MHz, all 40/80 channels. VSWR has been optimised to less than 1.5:1. This tuning cannot be altered.

MOUNTING POSITION

The recommended mounting position for this antenna is as high on your vehicle as possible. The height and weight of this antenna make mounting to the guard, boot or mirror not practical.

No metal ground plane is necessary for the antenna to operate effectively.

To achieve best performance, mount the antenna as far away from other antennas and metallic objects as possible to avoid interference and distortion of the 360^{O} omnidirectional pattern.

At least 350 mm side clearance is desireable, preferably more.

INSTALLATION KIT

The installation kit provided with the antenna includes :

1) Spring base assembly with 4.5 metre cable and FME Female connector fitted.
2) FME Male to UHF Male adaptor.
3) 3 mm Allen Hex Key to secure and/or remove the antenna top when not required, or when you wish to interchange the top with a different length top (available separately).
4) PVC cap to cover the exposed UHF female connector on the spring base whenever the antenna top has been removed.
5) 6 x 100 mm cable ties, 2 x 200 mm cable ties.

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The stainless steel spring base can be fitted into any bracket with a minimium 12.5 mm diameter hole.

4.5 metres of RG58 low loss stranded cable bottom exits through the spring base. An FME female connector is fitted to the cable and an FME Male to UHF Male adaptor is supplied to make connection to your UHF CB radio very simple.

1) Remove the split nut from the barrel spring and from the cable.
2) Pass the FME connector and cable through the hole of your bull bar mounting bracket.
3) Place the split nut back on the cable. Screw the split nut back on to the spring and tighten from underneath to secure the antenna firmly to the bracket or mount hole.
4) **IMPORTANT : You must <u>leave some slack</u> in the cable at the point where the cable bottom exits through the spring**.

Leaving a stress relief loop in the cable will permit the antenna to flex in the usual manner during travel, without placing unnecessary tension on the cable.

Failure to follow this advice will most likely result in the feeder cable being ripped out of the antenna ! The issue is not covered under warranty.

5) Route the antenna feeder cable carefully to your CB radio.
   Avoid high heat areas in the engine bay.
   Ensure that the cable is not stretched excessively and there are no sharp kinks.
   Do not pull the cable ties so tight as to crush the cable.
   A damaged feeder cable is a cause of high VSWR and reduced performance.
6) Neatly coil any excess cable and secure out of sight.
7) Screw the FME Female connector fitted to the cable into the FME Male to UHF Male adaptor supplied.
8) Connect the adaptor tot he antenna input of your UHF CB radio.

The antenna installation is now complete.