



Model

**ZN4-77-06-TCP**

Ground independent 'Town & Country'  
elevated feed antenna

**477MHz**

**UHF CB radio**

**2.1dBi & 6.6dBi**

**2 x whips, elevated feed and  
stainless steel barrel spring**

- Recommended for vehicle bull bar, guard, the boot of a sedan or a truck mirror.
- Low and medium gain whip included
- Mounts into any bracket with minimum 12.7mm (1/2") 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.
- 25 watts maximum input power.

## INSTALLATION GUIDE

[www.zcg.com.au](http://www.zcg.com.au)

### ANTENNA DESCRIPTION

The **ZN4-77-06-TCP** ground independent 'town & country' elevated feed 477MHz UHF CB mobile antenna is a light design with two detachable fibreglass whips which deliver 2.1dBi or 6.6dBi gain.

Perfect for mounting in various positions on a vehicle or to a truck mirror, the high quality brass, delrin, chrome and stainless steel components also make this model ideal for use in harsh marine and industrial environments.

The electro-polished stainless steel barrel spring included dampens vibrations while travelling and maintains the antenna in a vertical position for the optimum receive and transmit performance at any speed.

The antenna mounts into any bracket with minimum 12.7mm (1/2") diameter hole. The threaded mount stud with split nut is a unique ZCG design that makes removing the nut and fitting the antenna into a mount bracket quick and easy.

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

A detailed specification sheet is available to download from our website [www.zcg.com.au](http://www.zcg.com.au)

### TUNING

The ZN4-77-06-TCP has been tuned in the factory for 477 MHz UHF CB Radio, CBRS 476.425-477.4125MHz. VSWR has been optimised to less than 1.5:1.

This tuning cannot be altered.

### SELECTING THE MOUNTING POSITION

Typical mounting positions for this antenna are to a vehicle bull bar or guard, the boot of a sedan or truck mirror using the appropriate bracket with minimum 12.7mm (1/2") diameter hole.

The antenna can also be mounted in locations other than on a vehicle.

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

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 vertical, not at an angle.**

### INSTALLATION GUIDE

- 1) Remove the split nut from the spring stud base and slip it off the cable.
- 2) Pass the cable through the hole of your mounting bracket.
- 3) Thread the split nut back onto the cable, screw the nut back onto the stud and tighten from underneath to secure the antenna firmly to the bracket.
- 4) **IMPORTANT : You must leave some slack 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.

- 5) The detachable whip tops can be unscrewed anti-clockwise and the other whip screwed on, whenever the need requires.



**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.**

6) 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.

- 7) Neatly coil any excess cable and secure out of sight.
- 8) Screw the FME female connector fitted to the cable into the FME male to UHF male adaptor provided.
- 9) Connect the adaptor to the antenna input of your UHF CB radio. The maximum input power is 25 watts.

**The antenna installation is now complete.**

