

## Specifications

Frequency	: 476.42-477.40 MHz
Gain	: 3dB, 6dB
VSWR	: <1.5:1 for band above
Antenna Length	: 450 / 900 mm
Impedance	: 50 Ohm
Polarization	: Vertical
Radiation	: Omni directional
Antenna Materials :	Solid Fibreglass Rod, Brass, PVC Heat shrink, CU & S/Steel Radiator, PVC Cap.
Base Materials :	Stainless Steel Brass
Cable	: RG 58 C/U Mil-Spec
Termination	: PL 259, UHF Plug
Manufactured	: In Australia

Total Survey Systems Pty Ltd  
 7 South Street  
 Rydalmere NSW 2116  
 02-96380055 www.totalsurvey.com.au

## Icom Australia Pty Ltd

1/103 Garden Road, Clayton. Vic. 3168  
 www.icom.net.au

# Icom Australia Pty Ltd Town & Country

## Elevated Feed Antenna

**(477 MHz)**

**3 & 6 dB Kit**

**Part # AN-477**

- ❑ Ground Plane Independent
- ❑ Heavy Duty, Stainless Steel & Fibreglass Construction.
- ❑ Pre-Terminated Cables, NO Tools Required !!
- ❑ UV Stabilised PVC Heat Shrink for long lasting reliability.
- ❑ Complete Kit includes Stainless Spring & Elevated Feed Base, 6dB & 3dB Antennas RG58 Lead & Plug.
- ❑ Pre-tuned antennas (no tuning required).
- ❑ Made using high quality components.
- ❑ 5 Years Guarantee.

Congratulations on having selected the Town & Country 477 MHz Antenna. This antenna system will allow you to gain good performance in all types of terrain, when properly used. The kit contains all components necessary to install the system, with the exception of a mounting bracket, due to the wide variety available. The type of bracket will depend upon your personal requirements.

Following these installation instructions will provide maximum performance for your transceiver.

This antenna is supplied with a stainless steel base and spring assembly, a 3 dB Short Antenna, a 6dB longer antenna, 5 meters of coaxial cable fitted with an FME female connector and a PL-259 plug/adaptor that suits all 477MHz transceivers.

## INSTALLATION INSTRUCTIONS

### 1.0 SELECT THE POINT OF INSTALLATION

The mounting position of the antenna on the vehicle will depend on the type of vehicle you have and what method of fitting you prefer. This antenna is a ground independent antenna. This means it does not rely on the vehicle body for its performance. Hence the antenna can be mounted virtually anywhere on the vehicle and still perform well. It is preferred, however, to mount the antenna as high as practicable to achieve the best results. It is important to remember that the antenna must be mounted at least 60cm from any vertical metal objects.

Suggested mounting positions in order of performance are:

- 1) Roof Rack
- 2) Roof Gutter
- 3) Truck Mirror
- 4) Bull Bar  
This can be a poor option for trucks, however, a good option for 4WD's.
- 5) Guard

### 2.0 FITTING THE BASE TUBE & SPRING ASSEMBLY

The exploded view overleaf shows the assembly of the base and spring.

2.1 Fit the antenna base and cable assembly to the spring base. It is possible to use the antenna without the spring however we highly recommend that you use the spring in all types of installations. The spring should be firmly tightened to the base tube. There are ventilation holes in the base tube, refer to the diagram. These holes must be clear at all times.

2.2 Remove the nut and washer from the antenna spring assembly. Feed all of the cable lead through the hole in the relevant mounting bracket that you will be using to mount to your vehicle. Locate the base tube and spring assembly into the bracket. Locate the washer over the cable followed by the nut. Tighten the nut with a spanner to ensure a solid mounting. Excessive pressure could cause damage – DO NOT over tighten.

**NOTE: It is important to ensure that the cable is not crushed, crimped or damaged in any way throughout the installation.**

2.4 Fit the bracket and antenna assembly to the vehicle according to the selected mounting position.

2.5 Route the cable through the vehicle to the radio ensuring the cable is not crimped crushed or damaged in any way.

### 3.0 FITTING THE ADAPTOR

3.1 Locate the adaptor onto the FME connector end of the cable lead and screw it home.

3.2 Tighten the nut on the connector with a spanner to ensure a good connection. DO NOT over tighten

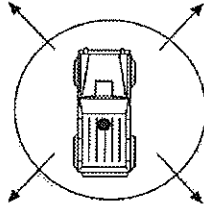
3.3 Connect to the UHF CB radio antenna socket.

## INSTRUCTION FOR USE

Your system comes with two antennas to provide you with the best performance in a variety of locations. The shorter 3dB antenna is perfect around town and prevents possible breakage in car parks. As you head into the country you can swap to the longer antenna to turn your system into 6dB for better performance. The shorter antenna can also be used as a backup antenna in case 6dB antenna is accidentally broken.

The 6dB antenna will provide the best performance for long-range flatter open terrain. The radiation from this antenna is best suited to this application. As you head into the hills you may find it appropriate to switch back to the shorter antenna.

It is important to use the correct antenna for the terrain in which you are travelling to ensure optimum performance at all times.



**NOTE:** The antenna system will work well in all directions providing there are no vertical metal objects in the path of the radiating signal. The antenna will work best if you can see it from all directions. Keep in mind that the higher the mounting position the better it works!

This antenna radiates in all directions. Regardless of mounting position, unless obstructed

## WARNING

**DO NOT attempt to transmit (Use YOUR CB) until the antenna has been mounted and the connector has been properly terminated, otherwise the transceiver could be damaged.**