



Model

# SG1100-W

Ground Independent 'barrel' spring  
base collinear - 900mm

## AM/FM Radio Receive

530-1600 KHZ & 87.5-108 MHZ

Recommended for a vehicle bull bar

- ➔ Mounts into any bracket with minimum 12.7 mm (1/2") diameter hole.
- ➔ 5 metres of RG58 low loss stranded cable.
- ➔ FME female fitted to cable, FME male to AM/FM adaptor supplied

## INSTALLATION GUIDE

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

### ANTENNA DESCRIPTION

Standing 900mm tall, the **SG1100-W** heavy-duty 'barrel' spring base antenna is designed to mount to a vehicle bull bar and will significantly improve your AM and FM radio reception.

Manufactured from the high quality, durable components, the robust antenna design is purpose built to survive harsh Australian conditions long term.

Secure the antenna firmly into any bracket with a 12.7 mm (1/2") minimum diameter hole using the bolt and washer provided.

The high quality electro-polished stainless steel beehive (barrel) spring dampens vibrations while travelling.

5 metres of RG58 cable side exits from the aluminium mount ferrule, terminated with a FME female for ease of routing your cable. A FME male to AM/FM radio male adaptor is supplied for a plug-n-play installation.

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

### TUNING

The antenna tune has been optimised in the factory to receive AM Radio, 530 to 1600 KHz and FM Radio, 88 to 108 MHz.

This tuning cannot be altered.

### SELECTING THE MOUNTING POSITION

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

The typical mounting position for this antenna is to your vehicle bull bar, although the guard or boot are other potential mounting points using the appropriate bracket with 12.7 mm (1/2") minimum diameter hole.

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

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 distortion of the 360° omnidirectional pattern and interference. At least 350 mm side clearance is desirable, preferably more.**
3. **Mount the antenna vertical, not at an angle.**

### INSTALLATION TOOLS REQUIRED

- 13mm drill bit for mounting hole of spring base (if required)
- 19mm or 3/4" spanner for base securing
- Cable ties for securing coaxial cable route
- Small cutters for cable tie excess removal
- Amalgamation tape and PVC tape for connector sealing

PO Box 7, Lindenow, Victoria, Australia, 3865  
P: +61 3 5157 1203  
E: [sales@zcgc.com.au](mailto:sales@zcgc.com.au)

### INSTALLATION GUIDE

Remove the bolt and washer from the base of the 'barrel' spring. From underneath, insert the bolt and washer through the hole of your mounting bracket. Screw the bolt into the thread of the beehive spring. Tighten the bolt to firmly secure the antenna to the bracket.

**IMPORTANT :** Leave some slack in the cable at the point where the cable exits the mount ferrule. This will allow the antenna to flex in the usual manner during travel without placing unnecessary tension on the cable.

Route the FME female terminated RG58 cable carefully to your radio. Ensure that the cable is not stretched excessively and there are no sharp kinks. Avoid high heat locations such as exhaust manifold or turbo's that will cause detrimental damage the cable. We also recommend routing your cable away from possible causes of electrical interference, such as electric fans or fuse boxes.

Use cable ties, but do not pull them so tight as to crush the cable. A damaged feeder cable is a cause of high VSWR and reduced performance.

Screw the supplied FME male to AM/FM radio male adaptor onto the FME female termination and insert into the socket on your radio.

For high dust or possible moisture locations, ZCG recommend water/dust proofing your terminations using amalgamation butyl rubber tape and a top layer of PVC tape.

**Installation is now complete.**



FME female fitted onto coaxial cable



FME male to AM/FM Radio male adaptor - supplied

Specifications are subject to change  
without prior notice

© G-tech Communications Services Pty Ltd trading as:  
**ZCG Scalar™**  
[www.zcgc.com.au](http://www.zcgc.com.au)  
DOC:300124