Section 9

ANTENNA MOUNTING ACCESSORIES

SUMMARY

- Mast Mounting Clamps
- Clamps for Various Purposes
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- Wall and Pole Mounting Brackets
- Hockey Stick Mounting Brackets
- Standoff Brackets
- Yagi Strut Kits
- SGDB Mast Mount Adaptor
- Marine Mast Mount Adaptor
- Vehicle Mounting Brackets
- Mobile Antenna Springs
- Antenna Bases and Cable Sets
- Magnetic Bases and Cable Sets
- Marine Antenna Mounts
- Wall, Ceiling or Floor Flange Mount
- OZ On-Glass Antenna Parts
- Cable Ties and Tape
ZCG Scalar manufacture a complete range of antenna mounting clamps to suit booms and masts of various diameters. All clamps we offer have undergone extensive field tests to ensure the highest quality, strength, long term durability and ease of installation. This page lists our selection of right-angle clamps for light and medium duty service.

**Mast Mounting Clamps**

**Right-Angle Medium Duty**

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**A48**

- **Antenna Boom Diameter:** 25 mm Square Boom Yagi
- **Mast Diameters:** 30 mm up to 50 mm Round
- **Mounting Orientation:** Right-Angle 90°
- **Service:** Light to Medium Duty
- **Clamp Weight:** 600 grams

Recommended for all Aluminium Square Boom Yagi models in the Y400, Y600TV and Y800 series

**S48-76**

- **Antenna Boom Diameter:** 25 mm Square Boom Yagi
- **Mast Diameters:** 50 mm up to 76 mm Round
- **Mounting Orientation:** Right-Angle 90°
- **Service:** Medium to Heavy Duty
- **Clamp Weight:** 2.0 kg

All stainless steel components

Large diameter mast clamp for any Square Boom Yagi in the Y400, Y600TV and Y800 series

**S48-90**

- **Antenna Boom Diameter:** 25 mm Square Boom Yagi
- **Mast Diameters:** 70 mm up to 90 mm Round
- **Mounting Orientation:** Right-Angle 90°
- **Service:** Medium to Heavy Duty
- **Clamp Weight:** 2.2 kg

All stainless steel components

Large diameter mast clamp for any Square Boom Yagi in the Y400, Y600TV and Y800 series

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ZCG Scalar, Head Office, 7 Hall Street, PO Box 7, Lindenow, Victoria, 3865, Australia
Telephone (03) 5157-1203, Fax (03) 5157-1641
sales@zcg.com.au
www.zcg.com.au
### Mast Mounting Clamps

**Right-Angle Medium Duty**

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**S48-AM**

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<table>
<thead>
<tr>
<th>All stainless steel components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Boom Diameter</td>
</tr>
<tr>
<td>25 mm Square Boom</td>
</tr>
<tr>
<td>Cross Polarised Yagi</td>
</tr>
<tr>
<td>Mast Diameters</td>
</tr>
<tr>
<td>30 mm up to 50 mm Round</td>
</tr>
<tr>
<td>Mounting Orientation</td>
</tr>
<tr>
<td>Right-Angle 90° to Mast with</td>
</tr>
<tr>
<td>Yagi Mounted Diagonal</td>
</tr>
<tr>
<td>Service</td>
</tr>
<tr>
<td>Light to Medium Duty</td>
</tr>
<tr>
<td>Clamp Weight</td>
</tr>
<tr>
<td>740 grams</td>
</tr>
</tbody>
</table>

*Recommended for all Y400 and Y800 series*

*Cross Polarised Square Boom Yagi antennas*
**UB1SS**

All stainless steel components, U-bolts 8.8 cm deep

- **Antenna Boom Diameter:** 32 mm Round
- **Mast Diameters:** Up to 50 mm Round
- **Mounting Orientation:** Right-Angle 90°
- **Service:** Light to Medium Duty
- **Clamp Weight:** 360 grams

*Recommended for stainless steel or aluminium antennas*

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**RB8**

Galvanised steel components

- **Antenna Boom Diameters:** 20 mm up to 40 mm Round
- **Mast Diameters:** 20 mm up to 50 mm Round
- **Mounting Orientation:** Right-Angle 90°
- **Service:** Light to Medium Duty
- **Clamp Weight:** 540 grams

*Recommended for aluminium antennas*

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**UB2SS**

All stainless steel components, U-bolts 12 cm deep

- **Antenna Boom Diameter:** 30 mm up to 50 mm Round
- **Mast Diameters:** 20 mm up to 50 mm Round
- **Mounting Orientation:** Right-Angle 90°
- **Service:** Light to Medium Duty
- **Clamp Weight:** 430 grams

*Recommended for stainless steel or aluminium antennas*
ZCGScalar manufacturera complete range of antenna mounting clamps to suit booms and masts of various diameters. All clamps we offer have undergone extensive field tests to ensure the highest quality, strength, long term durability and ease of installation.

This page lists our selection of right-angle heavy duty clamps for mounting large Yagi and Sidemount Dipole antennas.

<table>
<thead>
<tr>
<th>Model</th>
<th>Antenna Boom Diameters</th>
<th>Mast Diameters</th>
<th>Mounting Orientation</th>
<th>Service</th>
<th>Clamp Weight</th>
<th>Mounting Component</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Y2300SS</td>
<td>32 mm up to 50 mm Round</td>
<td>30 mm up to 50 mm Round</td>
<td>Right-Angle 90°</td>
<td>Heavy Duty</td>
<td>1.8 kg</td>
<td>Galvanised steel</td>
<td></td>
</tr>
<tr>
<td>Y2300</td>
<td>32 mm up to 50 mm Round</td>
<td>30 mm up to 50 mm Round</td>
<td>Right-Angle 90°</td>
<td>Heavy Duty</td>
<td>1.7 kg</td>
<td>All stainless steel</td>
<td></td>
</tr>
<tr>
<td>UAM90L</td>
<td>40 mm up to 75 mm Round</td>
<td>40 mm up to 75 mm Round</td>
<td>Right-Angle 90°</td>
<td>Heavy Duty</td>
<td>1.7 kg</td>
<td>Galvanised steel</td>
<td></td>
</tr>
<tr>
<td>UAM90UNI</td>
<td>40 mm up to 70 mm Round</td>
<td>40 mm up to 90 mm Round</td>
<td>Right-Angle 90°</td>
<td>Heavy Duty</td>
<td>1.9 kg</td>
<td>Galvanised steel</td>
<td></td>
</tr>
<tr>
<td>UAM90LL</td>
<td>60 mm up to 115 mm Round</td>
<td>60 mm up to 115 mm Round</td>
<td>Right-Angle 90°</td>
<td>Heavy Duty</td>
<td>2.2 kg</td>
<td>Galvanised steel</td>
<td></td>
</tr>
<tr>
<td>Y2300SS-XL</td>
<td>32 mm up to 52 mm Round</td>
<td>70 mm up to 90 mm Round</td>
<td>Right-Angle 90°</td>
<td>Heavy Duty</td>
<td>2.0 kg</td>
<td>All stainless steel</td>
<td></td>
</tr>
<tr>
<td>Y2300L</td>
<td>32 mm up to 50 mm Round</td>
<td>40 mm up to 70 mm Round</td>
<td>Right-Angle 90°</td>
<td>Heavy Duty</td>
<td>2.6 kg</td>
<td>Galvanised steel</td>
<td></td>
</tr>
</tbody>
</table>

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ZCG Scalar manufacture a complete range of antenna mounting clamps to suit booms and masts of various diameters. All clamps we offer have undergone extensive field tests to ensure the highest quality, strength, long term durability and ease of installation. This page lists our selection of parallel clamps.

### EB1SS
- **Antenna Boom Diameters:** 20 mm up to 50 mm Round
- **Mast Diameters:** 20 mm up to 50 mm Round
- **Mounting Orientation:** Parallel 180°
- **Service:** Light to Medium Duty
- **Clamp Weight:** 380 grams
- **Recommended for stainless steel or aluminium antennas**
- **Use in pairs**

### UB3SS
- **Antenna Boom Diameters:** 20 mm up to 32 mm Round
- **Mast Diameters:** 20 mm up to 50 mm Round
- **Mounting Orientation:** Parallel 180°
- **Service:** Light to Medium Duty
- **Clamp Weight:** 450 grams
- **Recommended for stainless steel or aluminium antennas**
- **Single clamp sufficient to mount light design antenna**

### UAM180L
- **Antenna Boom Diameters:** 40 mm up to 75 mm Round
- **Mast Diameters:** 40 mm up to 75 mm Round
- **Mounting Orientation:** Parallel 180°
- **Service:** Heavy Duty
- **Clamp Weight:** 1.8 kg
- **Recommended for stainless steel or aluminium antennas**
- **Use in pairs**

### UAM180UNI
- **Antenna Boom Diameters:** 40 mm up to 75 mm Round
- **Mast Diameters:** 40 mm up to 90 mm Round
- **Mounting Orientation:** Parallel 180°
- **Service:** Heavy Duty
- **Clamp Weight:** 1.9 kg
- **Recommended for stainless steel or aluminium antennas**
- **Use in pairs**

### UAM180UNIL
- **Antenna Boom Diameters:** 40 mm to 90 mm Round
- **Mast Diameters:** 60 mm to 115 mm Round
- **Mounting Orientation:** Parallel 180°
- **Service:** Heavy Duty
- **Clamp Weight:** 2.1 kg
- **Recommended for large diameter masts**
- **Use in pairs**
Mast Mounting Clamps
Parallel 180°

UAM180UNIL-42

Galvanised steel components joined by 150 mm adjustable galvanised or stainless steel spacer bars
Antenna Boom Diameters: 40 mm up to 90 mm Round
Mast Diameters: 60 mm up to 115 mm Round
Mounting Orientation: Parallel 180°
Service: Heavy Duty
Clamp Weight: 2.3 kg
Recommended for stainless steel or aluminium antennas
Use in pairs
ZCG Scalar manufacture high quality stainless steel clamps originally designed for mounting Power Dividers parallel to a round mast between 30 mm and 55 mm in diameter. These clamps can also be useful for other purposes.

**PDC-L**

- **Power Divider Diameter:** Up to 40 mm Round
- **Mast Diameters:** 30 mm up to 55 mm Round
- **Mounting Orientation:** Parallel 180°
- **Clamp Weight:** 760 grams

2 clamps recommended for large power dividers

**PDC-S**

- **Power Divider Diameter:** Up to 25 mm Round
- **Mast Diameters:** 30 mm up to 55 mm Round
- **Mounting Orientation:** Parallel 180°
- **Clamp Weight:** 700 grams

1 or 2 clamps recommended for small power dividers depending upon length
The individual clamps supplied with Yagi Support Strut Kits are available to order separately and can also be useful for various other purposes.

**UV1SS**
- 1 x Stainless Steel U-Bolt, M8 thread, 52 mm gap, 89 mm deep
- 1 x Stainless Steel V-Block, 90 x 33 x 2 mm thick
- 2 x Stainless Steel Flat Washers, M8
- 2 x Stainless Steel Spring Washers, M8
- 2 x Stainless Steel Hex Nuts, M8
- Kit Weight 170 grams

**YB25**
- 1 x Stainless Steel U-Clamp with 6 mm drilled hole, 40 mm x 25 mm gap x 2 mm thick
- 1 x Stainless Steel 50 mm Hex Bolt, M8 thread
- 1 x Stainless Steel Flat Washer, M8
- 1 x Stainless Steel Nyloc Hex Nut, M8
- Kit Weight 90 grams

**SB40-1**
- 1 x Stainless Steel Clamp Assembly to suit 40 mm diameter round tube, 1 Lug
- 2 x Stainless Steel 30 mm Hex Bolts, M8 thread
- 1 x Stainless Steel 20 mm Hex Bolt, M8 thread
- 3 x Stainless Steel Spring Washers, M8
- 3 x Stainless Steel Hex Nuts, M8
- Kit Weight 280 grams

**SB40-2**
- 1 x Stainless Steel Clamp Assembly to suit 40 mm diameter round tube, 2 Lugs
- 2 x Stainless Steel 30 mm Hex Bolts, M8 thread
- 2 x Stainless Steel 20 mm Hex Bolt, M8 thread
- 4 x Stainless Steel Spring Washers, M8
- 4 x Stainless Steel Hex Nuts, M8
- Kit Weight 325 grams

**SB50-1**
- 1 x Stainless Steel Clamp Assembly to suit 50 mm diameter round tube, 1 Lug
- 2 x Stainless Steel 30 mm Hex Bolts, M8 thread
- 1 x Stainless Steel 20 mm Hex Bolt, M8 thread
- 3 x Stainless Steel Spring Washers, M8
- 3 x Stainless Steel Hex Nuts, M8
- Kit Weight 290 grams

**YB50**
- 1 x Stainless Steel Clamp Assembly to suit 50 mm diameter round tube, 2 Lugs
- 4 x Stainless Steel 30 mm Hex Bolts, M8 thread
- 2 x Stainless Steel 20 mm Hex Bolt, M8 thread
- 6 x Stainless Steel Spring Washers, M8
- 6 x Stainless Steel Hex Nuts, M8
- Kit Weight 1 kg
The range of U-Bolts available from ZCG Scalar are measured in the manner shown in the diagram.

**SHAPE of the bend. (Round, Semi-Round or Square)**

**LENGTH of the leg to the inside of the top.**

**WIDTH between the legs inside.**

**DIAMETER of the leg.**

**THREAD length on each leg.**

The U-Bolts listed in the tables below are arranged by shape and then inside width, large to small.

Nuts, washers and vee-blocks are also available to suit, as your particular application requires.

### Order Code 6230, 6167, 6167-2

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Material</th>
<th>Shape of Bend</th>
<th>Suitable For</th>
<th>Length of leg</th>
<th>Width inside</th>
<th>Diameter of leg</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>6230</td>
<td>Stainless Steel</td>
<td>Round</td>
<td>88 mm Tube</td>
<td>140 mm</td>
<td>89 mm</td>
<td>12 mm</td>
<td>50 mm, M12</td>
</tr>
<tr>
<td>6167</td>
<td>Stainless Steel</td>
<td>Round</td>
<td>75 mm Tube</td>
<td>130 mm</td>
<td>76 mm</td>
<td>12 mm</td>
<td>53 mm, M12 x 1.75</td>
</tr>
<tr>
<td>6167-2</td>
<td>Mild Steel Galvanised</td>
<td>Round</td>
<td>75 mm Tube</td>
<td>130 mm</td>
<td>76 mm</td>
<td>12 mm</td>
<td>53 mm, M12 x 1.75</td>
</tr>
</tbody>
</table>

### Order Code 7131, 7136-2, 7130-2, 7132

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Material</th>
<th>Shape of Bend</th>
<th>Suitable For</th>
<th>Length of leg</th>
<th>Width inside</th>
<th>Diameter of leg</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>7131</td>
<td>Mild Steel Galvanised</td>
<td>Round</td>
<td>50 mm Tube</td>
<td>100 mm</td>
<td>89 mm</td>
<td>12 mm</td>
<td>49 mm, M10 x 1.5</td>
</tr>
<tr>
<td>7136-2</td>
<td>Stainless Steel Gr 304</td>
<td>Round</td>
<td>50 mm Tube</td>
<td>137 mm</td>
<td>76 mm</td>
<td>12 mm</td>
<td>65 mm, M8</td>
</tr>
<tr>
<td>7130-2</td>
<td>Mild Steel Zinc Plated</td>
<td>Round</td>
<td>40 mm Tube</td>
<td>83 mm</td>
<td>76 mm</td>
<td>12 mm</td>
<td>37 mm</td>
</tr>
<tr>
<td>7132</td>
<td>Stainless Steel Gr 304</td>
<td>Round</td>
<td>25.4 mm Tube (1&quot;)</td>
<td>48 mm</td>
<td>27 mm</td>
<td>12 mm</td>
<td>25 mm</td>
</tr>
</tbody>
</table>

### Order Code 7135-2, 7135-1

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Material</th>
<th>Shape of Bend</th>
<th>Suitable For</th>
<th>Length of leg</th>
<th>Width inside</th>
<th>Diameter of leg</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>7135-2</td>
<td>Stainless Steel Gr 304</td>
<td>Semi-Round</td>
<td>50 mm Tube</td>
<td>90 mm</td>
<td>89 mm</td>
<td>8 mm</td>
<td>66 mm, M8</td>
</tr>
<tr>
<td>7135-1</td>
<td>Stainless Steel Gold Passivated</td>
<td>Semi-Round</td>
<td>50 mm Tube</td>
<td>100 mm</td>
<td>52 mm</td>
<td>8 mm</td>
<td>75 mm, M8</td>
</tr>
</tbody>
</table>

### Order Code 6270

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Material</th>
<th>Shape of Bend</th>
<th>Suitable For</th>
<th>Length of leg</th>
<th>Width inside</th>
<th>Diameter of leg</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>6270</td>
<td>Stainless Steel Gr 304</td>
<td>Square</td>
<td>25 mm Tube (1&quot;)</td>
<td>48 mm</td>
<td>28 mm</td>
<td>8 mm</td>
<td>25 mm, M8 x 1.25</td>
</tr>
</tbody>
</table>
Specifically designed with Antennas and Telescopic Masts in mind, these brackets are ideal for mounting any round pole, boom or mast outside on the wall of a building or to the side of a vehicle.

Constructed from stainless steel for strength and long term durability, there are two bracket sizes available.

- **WMB-L** is the larger size bracket to suit round tube 80 mm in diameter. Packing can be inserted to accommodate smaller diameters down to 70 mm.

- **WMB-S** will be suitable for round tube 65 mm in diameter, or down to 50 mm with packing inside.

These brackets will typically be used in pairs, although a single bracket may be sufficient in some circumstances.

4 x 6 mm holes are available to bolt each bracket firmly in position.

### WMB-L

- **Suit Diameters**: 80 mm round down to 70 mm with packing
- **Standoff Distance**: 30 mm
- **Base Footprint**: 220 mm x 50 mm
- **Holes for Bolts**: 4 x 6 mm
- **Construction**: All Stainless Steel
- **Bracket Weight**: 730 grams

### WMB-S

- **Suit Diameters**: 65 mm round down to 50 mm with packing
- **Standoff Distance**: 30 mm
- **Base Footprint**: 220 mm x 50 mm
- **Holes for Bolts**: 4 x 6 mm
- **Construction**: All Stainless Steel
- **Bracket Weight**: 700 grams

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These hockey stick antenna mounting brackets can be secured to the fascia board, barge board or wall of a building using either screws or bolts.

The "J" shape bend provides clearance around roof guttering.

An antenna is then secured to the hockey stick mast using the appropriate clamps.

Constructed from hot dipped galvanised steel, the mounting plate has holes for easy installation. The top of the mast is fitted with an end cap.

There are 3 sizes available:
- Model CFB1200 – 1.2 metre.
- Model CFB1800 – 1.8 metre.
- Model CFB2400 – 2.4 metre.
When mounting antennas to a pole or wall, ZCG Scalar can manufacture Standoff Brackets custom made to a
design that suits your precise mounting situation. Construction of these brackets is generally from galvanised
steel which can be painted any colour you desire.

To clearly specify your requirements, we prefer that you provide us with a design drawing detailing all measurements.
Photographs of the installation site will also be helpful.

Pricing will vary according to requirements. Contact us for a quotation.

**SPB — Standoff Pole Brackets**

- Galvanised steel, painted if required.
- Provide us with a design drawing. Also any available photographs of the installation site.
- Specify the number of pole brackets required, whether the pole is parallel or tapered and the diameter for each bracket.
- Specify the standoff distance.
- Specify the antenna mounting arrangement. (e.g. U-bolts and clamps or steel tube.)

**SWB — Standoff Wall Brackets**

- Galvanised steel, painted if required.
- Provide us with a design drawing. Also any available photographs of the installation site.
- Specify the standoff distance.
- Specify the antenna mounting arrangement. (e.g. U-bolts and clamps or steel tube.)

**2366 — Universal Standoff Bracket**

- Bolt to a wall, or use the U-bolts supplied to clamp to a round mast.
- Standoff distance 90 cm.
- Rotatable.
- Available in aluminum, stainless steel or galvanised steel.
- Painted if required.
When planning the installation of a large Yagi antenna, the need for a Strut Kit to properly support the boom long term is a vital consideration. The main factors which determine the need for a Yagi Strut Kit are:

- The antenna boom length, weight and wall thickness.
- Wind loading and potential for side-to-side flutter of the boom, particularly in coastal and alpine regions.
- The usual weather conditions at the site, especially if snow is likely during the winter months.
- Birds perching on the antenna boom.

All of the large Yagi Y100, Y200 and Y300 series antennas will most definitely require a support strut kit due to their sheer size and weight. The right-angle mast clamp alone will certainly not be sufficient.

Yagi 15 element models Y415, Y615TV, Y815 and Y815-20RL with a boom 1.85 metres and longer should also receive consideration as candidates for support struts, particularly the heavier stainless steel models.

ZCG Scalar construct Yagi Strut Kits from fibreglass rod with stainless steel end lugs. Our strut kits will therefore not interfere with either the tuning or radiation pattern of the Yagi.

Kits include all the clamps necessary for mounting the struts to a mast up to 50 mm in diameter. A right-angle clamp to mount the Yagi to the mast is available separately.

A Single Strut Kit is for situations requiring extra support for the length and weight of a Yagi boom not properly supported by a mounting clamp alone.

The 2-Way Strut Kit includes an aluminium boom which mounts to the mast above the Yagi.

The two fibreglass struts support the Yagi boom from above.

This arrangement provides additional stability against side-to-side wind flutter.

Where there is insufficient mast space available above the Yagi, then the alternative is a “Compression” Strut Kit which supports the Yagi boom from underneath.

Continued...
For Yagi's mounted in a stack array formation, ZCG Scalar can manufacture **Custom Design Kits** which include joining struts to maintain precise spacing between antennas according to frequency.

Pricing for custom design strut kits will depend upon requirements.

### Single Strut Kit Description

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Single Strut Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>YS1-100</td>
<td>Single Strut Kit to suit any Y100 series Yagi mounted <strong>Horizontal</strong>. Support from above. Includes clamps.</td>
</tr>
<tr>
<td>YS1-23</td>
<td>Single Strut Kit to suit any Y200 or Y300 series Yagi mounted <strong>Horizontal</strong>. Support from above. Includes clamps.</td>
</tr>
<tr>
<td>YS1-23VP</td>
<td>Single Strut Kit to suit any Y200 or Y300 series Yagi mounted <strong>Vertical</strong>. Support from above. Includes clamps.</td>
</tr>
<tr>
<td>YS1-48</td>
<td>Single Strut Kit to suit 15 element models Y415, Y615TV, Y815 or Y815-20RL Yagi mounted <strong>Horizontal</strong>. Support from above. Includes clamps.</td>
</tr>
</tbody>
</table>

### 2-Way Strut Kit Description

<table>
<thead>
<tr>
<th>Order Code</th>
<th>2-Way Strut Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>YS2-100</td>
<td>2-Way Strut Kit to suit any Y100 series Yagi mounted <strong>Horizontal</strong>. Support from above. Includes aluminium boom and clamps.</td>
</tr>
<tr>
<td>YS2-23</td>
<td>2-Way Strut Kit to suit any Y200 or Y300 series Yagi mounted <strong>Horizontal</strong>. Support from above. Includes aluminium boom and clamps.</td>
</tr>
<tr>
<td>YS2-23/SS</td>
<td>2-Way Strut Kit to suit any Y200SS or Y300SS series Yagi mounted <strong>Horizontal</strong>. Support from above. Includes <strong>stainless steel</strong> boom and stainless steel clamps.</td>
</tr>
<tr>
<td>YS2-48</td>
<td>2-Way Strut Kit to suit 15 element models Y415, Y615TV, Y815 or Y815-20RL Yagi mounted <strong>Horizontal</strong>. Support from above. Includes aluminium boom and clamps.</td>
</tr>
</tbody>
</table>

### Compression Strut Kit Description

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Compression Strut Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>YS2-C28</td>
<td>2-Way Compression Strut Kit to suit any Y200 or Y300 series Yagi mounted <strong>Horizontal</strong>. Support from underneath. Includes aluminium boom and clamps.</td>
</tr>
<tr>
<td>YS2-23C/SS</td>
<td>2-Way Compression Strut Kit to suit any stainless steel Y200SS or Y300SS series Yagi mounted either <strong>Horizontal</strong> or <strong>Vertical</strong>. Support from underneath. Includes stainless steel boom and stainless steel clamps.</td>
</tr>
<tr>
<td>YS1-C48</td>
<td>Single Compression Strut Kit to suit 15 element models Y415, Y615TV, Y815 or Y815-20RL Yagi mounted either <strong>Horizontal</strong> or <strong>Vertical</strong>. Support from underneath. Includes clamps.</td>
</tr>
<tr>
<td>YS2-C48F</td>
<td>2-Way Fibreglass Compression Strut Kit to suit any Y200, Y300, Y400, Y615TV, Y815 or Y815-20RL series Yagi mounted <strong>Vertical</strong>. Support from underneath. Includes clamps.</td>
</tr>
</tbody>
</table>
At some remote locations or inside a building, cellular mobile phone reception can often be poor.

For applications where the cellular device being used can be connected to an external antenna, did you know that our popular SGDB Multiband NEXT G and GSM antenna can be mounted outdoors at your home or office to improve reception?

**Order the SGDB-TPM antenna top only** without the beehive spring.

Select either a Black, Brown or White radome colour.

**There are two ways to mount this antenna outdoors...**

---

**Mount Method 1**
Bolt the antenna top into any bracket with 13 mm diameter hole. (minimum)

**Mount Method 2**
Order part 4266, the threaded aluminium mast mount adaptor.
150 mm long x 25 mm in diameter.
Screw the antenna top into the threaded mast mount adaptor.
Clamp the adaptor and antenna to a mast or hockey stick bracket.

---

**SGDB-TPM key features:**
- Effective performance with 6.2 dBi gain.
- Multiband coverage of both Next G and GSM networks combined.
- Modest size at 80 cm tall.
- Robust construction ensuring a long service life.

---

Route the 5 metre RG58 low loss cable indoors and secure in position. 
An FME Female connector is fitted to the cable.
The MMA mast mount adaptor is an aluminium tube 250 mm long x 25 mm in diameter with a 1” x 14 UNS male thread. Any or our ZCG Scalar marine deck mount antennas fitted with the MM1 or MM2 folding base can be very easily converted to a mast mount antenna in 3 simple steps:

1. Unscrew and remove the antenna top from the deck mount.
2. Screw the antenna top onto the aluminium MMA mast mount adaptor tube.
3. Use 2 parallel clamps to mount the antenna to a mast. EB1SS stainless steel clamps will be ideal.

MMA Mast Mount Adaptor
This selection of brackets are available to mount mobile antennas in various positions on a vehicle. The brackets can also be useful for mounting antennas in other fixed locations.

Each bracket has a 17 mm diameter hole through which the antenna is secured.

**GM1**  
“L” Bracket for Vehicle Guard  
1.6 mm stainless steel  
2 drilled holes for screws  
*Also suit facia board of a building*

**GM2**  
“Z” Bracket for Vehicle Guard  
1.6 mm stainless steel  
2 drilled holes for screws  
1 drilled hole for bolt

**BBM-SS**  
Bracket for Vehicle Bull Bar  
50 mm diameter tube max  
All stainless steel  
Includes U-bolts, nuts and washers

**MRM-SS**  
Bracket for Vehicle Mirror  
20 mm diameter tube max  
All stainless steel  
Includes bolts, nuts and washers

Continued ...
ATLM : Adjustable Tilt Lip Antenna Mounting Bracket

This adjustable tilt lip antenna bracket mounts to the boot of a sedan, a vehicle bonnet, the side door or the rear hatch.

The base of the mount rotates and the mount itself can be tilted to any angle.

Constructed from zinc alloy and stainless steel, the bracket is available in either black or chrome.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ATLM-BK</th>
<th>ATLM-CH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket Colour</td>
<td>Black</td>
<td>Chrome</td>
</tr>
<tr>
<td>Description</td>
<td>Adjustable antenna mounting bracket, rotating base and tilt antenna mount</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Zinc alloy and stainless steel</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>225 grams</td>
<td></td>
</tr>
<tr>
<td>Mount Hole</td>
<td>17 mm diameter</td>
<td></td>
</tr>
<tr>
<td>Typical Mounting Points</td>
<td>Vehicle bonnet, side door, rear hatch or boot of a sedan</td>
<td></td>
</tr>
</tbody>
</table>

GM
Bracket for Vehicle Guttering

All stainless steel
Includes screws and plate clamp

GM6
Slotted “L” Bracket

16 mm diameter slot
0.7 mm stainless steel, 35 mm x 35 mm
3 x 4.5 mm holes for screws or bolts

Typical Uses:
1. Fix a light design stud mount antenna to a wall or other structure
2. Secure a coaxial power surge protector to any flat surface
A mobile antenna spring dampens vehicle vibrations while travelling and reduces stress upon antenna components. These springs are available to order separately.

**MS Base**

The “MS Base” medium duty stainless steel spring with 5/16”–26 TPI male and female threads will suit any mobile whip being mounted on to our OB-2 antenna bases. Screw the spring onto the base and the whip onto the spring.
- 60 mm tall x 20 mm diameter.
- 5/16”–26 TPI male and female threads.

**1570**

The drilled bolt and washer supplied with the “1570” stainless steel spring allows the antenna cable to pass through the centre of the spring and exit through the bolt. The spring will suit any antenna with M10 thread, such as our GRHFC or GIDM90T models.
- 50 mm tall x 20 mm diameter.
- M10 thread both ends.
- Includes drilled bolt and spring washer.

**1269**

A high quality electro-polished stainless steel barrel spring, the “1269” has been used successfully on our popular SG series of mobile antennas for decades.
- 105 mm tall x 45 mm diameter.
- ½”–12 BSW top thread.
- 12 mm stud, nut and spring washer to secure the antenna into any bracket with minimum 12.7 mm (½”) diameter hole.

**1270**

A strong and rigid heavy duty stainless steel parallel spring, the “1270” is ideal for mounting very tall antennas to a vehicle bull bar. This spring is supplied with our 2.2 metre Max-Gain TC series of mobile antennas. Highly recommended when usual driving conditions are very rough.
- 105 mm tall x 45 mm diameter.
- ½”–12 BSW thread both ends.
- Includes a ½”–12 BSW bolt and spring washer.

**1269-9**

The “1269-9” stainless steel barrel spring base assembly is designed to fit the GID series of elevated feed UHF mobile antennas. The cable passes through the spring and bottom exits.
- 105 mm tall x 45 mm diameter.
- 12 mm stud, nut and spring washer to secure the antenna into any bracket with minimum 12.7 mm (½”) diameter hole.

**ZN4-SB**

High quality electro-polished stainless steel barrel spring base and cable assembly as used on the elevated feed ZN4-77-06 and ZN4-77-07 mobile UHF CB radio antennas and also the ZN4-77-02 ground independent base. Recommended for fitting to the to the ZN4-77-01 ground independent elevated feed UHF CB antenna base.
- 105 mm tall x 45 mm diameter.
- Top mount UHF female connector.
- Fits into any bracket with minimum 12.7 mm (½”) diameter hole.
- The 12 mm threaded mount stud with split nut and washer is a unique ZCG design that makes removing the nut and fitting the spring base 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.
- An FME Male to UHF Male adaptor is also supplied to make connection to a UHF CB radio simple.
The ZN3-SB-L large stainless steel barrel spring base and cable assembly is designed for these ZN3 series 477 MHz UHF CB radio mobile antennas:
1. ZN3-77-12 super heavy duty, 2.1 metre.
2. ZN3-77-11 heavy duty, 1.2 metre.

The spring base design features are:
- 160 mm tall x 55 mm diameter.
- Top mount UHF female connector.
- 12 mm stud, nut and spring washer to secure the spring base into any bull bar bracket with minimum 12.7 mm (½”) diameter hole.
- 4.5 metres of RG58 low loss stranded cable with FME female connector fitted.

The installation kit for both ZN3-SB-L and ZN3-SB-S consists of:
1) 3 mm Allen Hex Key to secure or remove the antenna top.
2) PVC cap to cover the exposed UHF female connector following antenna top removal.
3) 6 x 100 mm black nylon cable ties.
4) 2 x 200 mm black nylon cable ties.
5) FME Male to UHF Male adaptor for simple connection to a UHF CB Radio.

Also available for AM and FM radio receive

The ZN3-SB-S small stainless steel barrel spring base and cable assembly is designed for these ZN3 series 477 MHz UHF CB radio mobile antennas:
1. ZN3-77-10 medium duty, 1.1 metre.

The spring base design features are:
- 150 mm tall x 45 mm diameter.
- Top mount UHF female connector.
- 12mm stud, nut and spring washer to secure the spring base into any bull bar bracket with minimum 12.7 mm (½”) diameter hole.
- 4.5 metres of RG58 low loss stranded cable with FME female connector fitted.

This large stainless steel barrel spring base and cable assembly is designed for these ZN3 series AM/FM radio receive mobile antennas:
1. ZN3-77-AM/FM super heavy duty, 2.1 metre.
2. ZN3-77-AM/FM heavy duty, 1.2 metre.

The smaller stainless steel barrel spring base and cable assembly is designed for this ZN3 series AM/FM radio receive mobile antenna:
1. ZN3-77-AM/FM medium duty, 1.1 metre.

The spring base design features and installation kit contents are identical to ZN3-SB-L and ZN3-SB-S, except for:
- “Easy Fit” solderless car radio connector supplied. (in place of the FME Male to UHF Male adaptor.)
1962 is an adaptor that enables any fibreglass or stainless steel whip with a 5/16” – 26 TPI thread to be mounted onto our ZN3 large or small stainless steel mobile spring base and cable assembly.

Construction consists of an aluminium and black delrin body with brass thread on top and a UHF male connector inside the base for a quick and easy “screw-on” installation.

Some ZCG mobile whips that will fit onto this 1962 spring to whip mount adaptor are:
- ZN1 series whips for 477 MHz UHF CB radio.
- M and MB series UHF mobile whips.
- M series VHF mobile whips.
- SM39 multiband scanning whip.
- CR36 and CR66 whips for AM/FM radio receive.

### Specifications 1962 Spring to Whip Mount Adaptor

<table>
<thead>
<tr>
<th>Construction</th>
<th>Aluminium and black delrin body, brass thread, UHF male connector inside base</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>153 mm</td>
</tr>
<tr>
<td>Width</td>
<td>28 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>300 grams</td>
</tr>
<tr>
<td>Top Thread</td>
<td>5/16” – 26 TPI, brass</td>
</tr>
<tr>
<td>Connector in Base</td>
<td>UHF Male</td>
</tr>
</tbody>
</table>
| Compatible Spring Bases available separately | ZN3-SB-L : Large spring base and cable set  
|                           | ZN3-SB-S : Small spring base and cable set |

Compatible Spring Base and Cable Assemblies

ZN3-SB-L  
ZN3-SB-S
CRBL
Australian Standard UHF OB Base, Black, 5/16”–26 TPI Thread, 4.0 metres RG58 low loss stranded cable, car radio plug fitted

CRBL-6
Australian Standard UHF OB Base, Black, 5/16”–26 TPI Thread, 6.0 metres RG58 stranded cable, car radio plug fitted

CRBL-1.5BNC
Australian Standard UHF OB Base, Black, 5/16”–26 TPI Thread, 1.5 metres RG58 low loss stranded cable, BNC male fitted

OB-2
Australian Standard UHF OB Base, Black, 5/16”–26 TPI Thread, no cable

OB-4.7
Australian Standard UHF OB Base, Black, 5/16”–26 TPI Thread, 4.7 metres RG58 low loss stranded cable, UHF male solder connector supplied (not fitted)

OB-2323
Australian Standard UHF OB Base, White, 5/16”–26 TPI Thread, 5 metres white RG58 stranded cable with FME Female connector fitted, FME Male to UHF Male adaptor supplied

OB-1.5BNC
Australian Standard UHF OB Base, Black, 5/16”–26 TPI Thread, 1.5 metres RG58 low loss stranded cable, BNC male fitted

RA6.0
Right-Angle UHF Female Base, 6.0 metres RG58 low loss stranded cable, BNC male connector supplied (not fitted)

RAA.7
Right-Angle UHF Female Base, 4.7 metres RG58 low loss stranded cable, UHF male solder connector supplied (not fitted)
For those who often hire cars or drive different vehicles in a fleet, a magnetic antenna base is a perfect choice.

This selection of MGB magnetic antenna bases are manufactured from steel with an attractive polished black powder coat finish. 10.5 cm in diameter, the strong heavy duty magnet will positively secure the antenna base to any flat metal surface with no slippage.

Most typically, these bases are used on the roof of a vehicle and removed when not required. The PVC matted pad on the bottom will prevent scratching the surface to which the base is applied.

Various connectors are available to order separately according to your requirements.

### MGB-OB
- Magnetic OB-2 Base with 5/16”–26 TPI thread
- Steel with polished black powder coated finish
- 10.5 cm diameter, heavy duty magnet
- PVC matted pad on bottom
- 4.7 metres RG58 low loss stranded cable side exits
- No connector, select and order separately

### MGB-XB
- Magnetic XB Base with 6 mm thread
- Steel with polished black powder coated finish
- 10.5 cm diameter, heavy duty magnet
- PVC matted pad on bottom
- 4.7 metres RG58 low loss stranded cable side exits
- No connector, select and order separately

### MGB-UHF
- Magnetic UHF Female Base
- Steel with polished black powder coated finish
- 10.5 cm diameter, heavy duty magnet
- PVC matted pad on bottom
- 4.7 metres RG58 low loss stranded cable side exits
- No connector, select and order separately

### MGBIM-UHF
- Magnetic UHF Female Base
- Injection moulded black plastic body
- 10 cm diameter, heavy duty magnet
- Rubber pad on bottom
- 4.5 metres RG58U low loss cable side exits
- No connector, select and order separately
**Folding Deck Mount Bases**

The MM1 base supplied as standard with all our marine deck mount antennas is constructed from toughened plastic. This base folds down in two directions and also swivels in the opposite plane by loosening the stainless steel pivot bolt. This versatility allows an antenna to be mounted in a variety of positions on any flat surface and at any angle desired using four screws or bolts.

The thread at the top of the base is 1”–14 UNS male to match the female thread in the ferrule of our deck mount antennas.

For those who prefer the ultimate in quality, durability and strength, the MM2 folding deck mount is constructed entirely from stainless steel. To order any of our marine deck mount antennas with the stainless steel MM2 base in place of the MM1, simply add the letters ‘SS’ to the antenna Order Code.

*Please Note:* These folding bases are also most useful for mounting an antenna to any flat surface whatsoever; not just on a marine vessel. Typical examples include mounting an antenna to a caravan or trailer, on a roof or vertically to the facia board of a building.

**Nylon Side Mounts**

Constructed from nylon with stainless steel bolts and washers, Nylon Side Mounts are specifically designed to mount a marine antenna to the side of a vessel’s wheelhouse or any other flat vertical structure.

Drill a 12.7 mm (½”) diameter hole through the vertical surface for the stainless steel bolt. Then tighten the bolt to firmly secure the side mount in position.

Using two (2) of these nylon side mounts, the antenna mount tube is held tightly by the 8 mm stainless steel clamp bolt.

The radiating section of the antenna must be elevated well clear of the mount structure, other antennas and all metallic objects to avoid interference and distortion of the 360° omnidirectional radiation pattern.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSM223</td>
<td>Suit 50 mm diameter tube. Side Mount HM223/M.</td>
<td>50 mm</td>
</tr>
<tr>
<td>NSM/218</td>
<td>Suit 38 mm diameter tube. Side Mount HM218/M.</td>
<td>38 mm</td>
</tr>
<tr>
<td>NSM-CL3642</td>
<td>Suit 32 mm diameter tube. Side Mount B20G, B20G-N.</td>
<td>32 mm</td>
</tr>
<tr>
<td>NSM-B20M</td>
<td>Suit 20 mm diameter tube. Side Mount ZM108A, CM1600AM, CMG1600AM.</td>
<td>20 mm</td>
</tr>
</tbody>
</table>

**Mast Mounting Clamps**

A variety of parallel clamps are available for mounting antennas to round masts of various diameters. Our entire range of clamps are listed in the “Antenna Mounting Accessories” section of our Product Catalogue. However, for the marine environment, this selection of parallel clamps are the most common:

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB1SS</td>
<td>Antenna Tube : 20 to 50 mm diam. Round Mast : 20 to 50 mm diam. All stainless steel. Two (2) clamps required.</td>
<td>20 to 50 mm</td>
</tr>
<tr>
<td>UB3SS</td>
<td>Antenna Tube : 20 to 32 mm diam. Round Mast : 20 to 50 mm diam. All stainless steel. Single clamp sufficient for smaller antennas.</td>
<td>20 to 50 mm</td>
</tr>
<tr>
<td>UAM180L</td>
<td>Antenna Tube : 40 to 75 mm diam. Round Mast : 40 to 75 mm diam. Galvanised steel components. Two (2) clamps required.</td>
<td>40 to 75 mm</td>
</tr>
</tbody>
</table>
The 5437 white nylon flange allows any antenna with a ½”–12 BSW threaded stud base to be mounted in these positions:
1. Horizontally on a wall, or
2. Upside down from the ceiling, or
3. Upright on the floor or other flat surface.

The flange is particularly useful for mounting various Data Link, Mobile and Cellular Mobile Phone antennas in such a manner.

100 mm diameter and 14 mm thick with a ½”–12 BSW thread, the flange is secured with two screws.

On the underside there is a groove to allow feeder cable to side exit.
Spare parts are available for the OZ series of VHF and UHF on-glass antennas to allow easy transfer from vehicle to vehicle, or to replace damaged items.

Please note that the internal coupling box contains a variable capacitor that must be set using appropriate SWR equipment. If an old internal coupling box is re-used, it will need to be retuned.

Differing glass thickness and proximity of roof line to antenna will have varying effects on antenna tune.

**Internal Replacement Kit for OZV-1 On-Glass VHF Antenna**

**OZV-RE**

- 2 x Alcohol Glass Wipes
- 1 x Internal Coupling Box with Adhesive Pad

**Internal Replacement Kit for OZU-1 or OZU-3 On-Glass UHF Antenna**

**OZU-RE**

- 2 x Alcohol Glass Wipes
- 1 x Internal Coupling Box with Adhesive Pad and Adhesive Ground Plane Strips

**External Replacement Kit for OZV-1 On-Glass VHF Antenna**

**OZV-1-EXT**

- 1 x Alcohol Glass Wipe
- 1 x ½ Wave VHF Whip for OZV-1, 86 cm, 2.1 dBi
- 1 x External Mounting Base for OZ Series Whip with Adhesive Pad, Adjustable Slope Angle
- 1 x Allen Hex Key M3 to set slope angle tight

**External Replacement Kit for OZU-1 On-Glass UHF Antenna**

**OZU-1-EXT**

- 1 x Alcohol Glass Wipe
- 1 x 5/8 Wave UHF Whip for OZU-1, 54 cm, 5.1 dBi
- 1 x External Mounting Base for OZ Series Whip with Adhesive Pad, Adjustable Slope Angle
- 1 x Allen Hex Key M3 to set slope angle tight

**External Replacement Kit for OZU-3 On-Glass UHF Antenna**

**OZU-3-EXT**

- 1 x Alcohol Glass Wipe
- 1 x 1/4 Wave UHF Whip for OZU-3, 23 cm, 2.1 dBi
- 1 x External Mounting Base for OZ Series Whip with Adhesive Pad, Adjustable Slope Angle
- 1 x Allen Hex Key M3 to set slope angle tight

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**Note:** These whips must be trimmed to the desired frequency using appropriate SWR measuring equipment.
Stainless steel cable ties offer significant benefits over the black nylon type:

- Superior strength.
- Ideal for use indoors, outdoors or underground.
- Resistant to corrosion, salt, acids, chemicals, radiation, extreme temperatures and all weather conditions.
- Install with full confidence that the Grade 316 Stainless Steel will maintain integrity over many decades.
- Tensioner Tool available to fit stainless steel cable ties quickly at the proper tension and neatly cut off the tail.

8117-2 Bag of 100 Stainless Steel Grade 316 Cable Ties, 200 mm long x 4.6 mm
8117-3 Bag of 100 Stainless Steel Grade 316 Cable Ties, 240 mm long x 4.6 mm
8117 Bag of 100 Stainless Steel Grade 316 Cable Ties, 360 mm long x 4.6 mm
8117-4 Bag of 100 Stainless Steel Grade 316 Cable Ties, 450 mm long x 4.6 mm
8117-5 Bag of 100 Stainless Steel Grade 316 Cable Ties, 600 mm long x 4.6 mm

8528-1 Bag of 100 Black Nylon Cable Ties, 100 mm long
8529 Bag of 100 Black Nylon Cable Ties, 200 mm long
8530 Bag of 100 Black Nylon Cable Ties, 300 mm long

8574 Self Bonding Amalgamating Electrical Tape, 19 mm wide x 0.76 mm thick, 9.15 metre roll
8651 PVC Electrical Insulating Tape, Black, 19 mm wide x 0.18 mm thick, 20 metre roll