Antenna Shield and Radome

For High-Performance, Parabolic Antenna

Description
This 3-piece shield is designed to further reduce side-lobe radiation levels of high-performance, parabolic antennas. The instructions given in this bulletin apply to a shield for antennas with a diameter of 1.2m (4Ft). The shield weighs 12Kg (25lb).

Main Hazards – Health Effects

Eyes: May cause irritation.

Inhalation: Viscous nature may block breathing passages if inhaled.

Ingestion: May cause diarrhoea.

Skin: For hypersensitive persons, may irritate the skin after long periods of contact.

Respiratory Protection: None needed.

Hand Protection: Protective gloves for hypersensitive persons.

Eye Protection: Glasses, if applied to parts in motion.

Body Protection: Overalls.

Notice
The installation, maintenance or removal of antenna systems requires qualified, experienced personnel. Andrew installation instructions have been written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance and condition of equipment.

Area Requirements
Allow as much flat terrain as possible to assemble the shield, typically four or five times the diameter of the antenna.

Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>Reflector</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>Shield</td>
</tr>
<tr>
<td>C</td>
<td>1</td>
<td>Radome</td>
</tr>
<tr>
<td>H1</td>
<td></td>
<td>Shield Assembly Hardware</td>
</tr>
<tr>
<td>H2</td>
<td></td>
<td>Radome Hardware</td>
</tr>
<tr>
<td>H3</td>
<td>2</td>
<td>Hole plug</td>
</tr>
</tbody>
</table>

Tools
Standard hand tools can be used for this installation. A ratchet and deep well wrench sockets are recommended. However, combination wrenches, box or open-end type may be used. Wrench sizes for the furnished bolt hardware are as follows:

<table>
<thead>
<tr>
<th>Wrench Size</th>
<th>Bolt size</th>
</tr>
</thead>
<tbody>
<tr>
<td>10mm</td>
<td>M6</td>
</tr>
</tbody>
</table>

Andrew Solutions

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Installation Instructions

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High point (top) of shield
Absorber
Absorber side up
M6x16mm bolt
Flat washer
Absorber removed for clarity

Radome mounting nut

Typical overlap arrangement

Full absorber antenna shield

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Pry the shield slightly to algin shield and reflector holes to receive a bolt. Repeat at 3 oppositie positions. Fit bolts, lock washers, and nuts to remainder of holes of reflector and tighten. Tighten all shield segment fastenings.
**SHIELD/RADOME RING PREP**

- **Remove Tape**
- **Add Wire Mesh**
- **RF Gasket**
**SHIELD/RADOME RING POSITIONING**

Place gap at bottom of antenna
SHIELD/RADOME RING FITTING

- M6x16mm Bolt
- Flat washer
- Lock washer
- Nut
- Flat washer
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RADOME ATTACHMENT

Assemble radome to shield with bolts, lock washers, and flat washers

M6 x 20 mm bolt
Flat washer

Flat washer
Spring washer
Nut

H2

Carefully tilt antenna flat.

After feed attachment,

M6 x 20 HEX HD SCREW

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