**Installation Instructions**

**Antenna Shield and Radome**

for 4.6-m (15-ft) Diameter Parabolic Antenna

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**Description**

This shield is designed to reduce side-lobe radiation levels of high performance, parabolic antennas. The instructions given in this bulletin apply to the shield and partly to the radome. Refer to the radome bulletin for details of J-bolt adjustment. The symbol at the right is used to indicate “repeat several times.”

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**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.

Andrew disclaims any liability or responsibility for the results of improper or unsafe installation practices.

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**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>10 mm</td>
<td>M6</td>
</tr>
<tr>
<td>13 mm</td>
<td>M8</td>
</tr>
<tr>
<td>16-17 mm</td>
<td>M10</td>
</tr>
</tbody>
</table>

Other tools include:

- Two large standard blade head screwdrivers
- Six large Phillips head screwdrivers
- One pair of slip joint pliers
- Four large shackles
- Crane and four 6-m (20-ft) hoisting straps

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**Area and Personnel Requirements**

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

Use the following values to determine the hoist strap rating and crane needed to lift the shield assembly onto the reflector.

<table>
<thead>
<tr>
<th>Antenna diameter</th>
<th>Shield weight</th>
<th>Antenna weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5 m (15 ft)</td>
<td>156 kg (345 lb)</td>
<td>500 kg (1100 lb)</td>
</tr>
</tbody>
</table>
3

- M10x30 mm bolt
- Flat washer, 30 mm outer diameter
- J-bolt bracket
- Nut
- Lock washer
- RF absorber plastic fastener

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- Shield ring
- Plastic absorber retainer and fastener
- RF absorber

Inspect for and replace broken fasteners

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6

- Radome edge guard for TEGLAR type only
Red tape indicates top of shield

Align red stripes of radome and shield
Insert wood spacer at each seam

Red tape marker indicates top of shield

Red tape marker indicates top of antenna
Align shield and reflector holes with several screwdrivers.
Loosely add flange hardware

Squeeze clip onto RF gasket and hook it onto a flange bolt

Overlap RF gasket ends and remove wood spacers

Nut
Shield flange
Lock washer
Flat washer
Reflector
Flat washer
Spacer thickness
M8x30 mm bolt

Loosely add flange hardware

Squeeze clip onto RF gasket and hook it onto a flange bolt

Overlap RF gasket ends and remove wood spacers

Remove wood spacers

M8 - 19 N·m (14 lb·ft)
M6 - 8 N·m (6 lb·ft)
M10 - 39 N·m (29 lb·ft)
21 Proceed to radome bulletin to perform J-bolt adjustment.