Installation instruction

Extra side strut kit – 1.2m antenna

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Tools required

✓ Combination wrenches (ring/open jaw) for Hex 13 & 16mm; for M8 and M10.
✓ Tool for torque levels; 24Nm and 49Nm.

Included parts

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>Extra side strut kit (Box)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Double strut support bracket</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Clamp bracket</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>L-bracket</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Strut attachment bracket</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>M10 rod</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>M8 U-bolt</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>M10x30 screw</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>M10x25 screw</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>Washer M10</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Spring washer M10</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Washer M8</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>M10 nut</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>M8 nut</td>
</tr>
<tr>
<td>B</td>
<td>1</td>
<td>Extra side strut</td>
</tr>
</tbody>
</table>

A

B
Assembly

Step 1 – Remove “Standard” side strut / Prepare for use of two Struts

If the “Standard” side strut (1) has already been installed onto the antenna, then continue with Step 1a-1d. If not, then skip Step 1a-1c and go directly to Step 1d.

Note: All fasteners from Step 1a-1c are to be reused in later assembly.

a) Dismount “Standard” side strut (1) from L-bracket (2) by removing 1pc M10x30 screw / 1pc Washer M10 (3) and 1pc M10 nut / 1pc Spring washer M10 / 1pc Washer M10 (4).

b) Dismount L-bracket (2) from Strut support bracket (5) by removing 1pc M10x30 screw / 1pc Washer M10 (6) and 1pc M10 nut / 1pc Spring washer M10 / 1pc Washer M10 (7).

c) Dismount Strut support bracket (5) from Antenna (8) by removing 3pcs M10x25 screw / 3pcs Spring washer M10 / 3pcs Washer M10 (9).

d) Mount Double strut support bracket (10) to Antenna (8) using 5pcs M10x25 screw / 5pcs Spring washer M10 / 5pc Washer M10 (11). Tighten screws to torque of 49Nm ± 5%.

1a-1c

![Diagram showing step 1a-1c](image)

All items, except item 5, are to be REUSED.

1d

![Diagram showing step 1d](image)

3 x Item 11 should be REUSED from Step 1a-1c (Item 9).
Step 2 – Extra strut mount

For tower structure compatibility, see next page.

a) Secure 2pcs Clamp bracket (12) to pipe or L-section structure using 2pcs M10 rod (13) and 4*2pcs M10 nut /4*1pcs Washer M10 (14). Tighten nuts to torque of 49Nm ± 5%. 

Alternative bracket orientation
Compatible tower structure profiles

Tower pipe compatibility: Ø50 - Ø115.
Tower L-section compatibility: L40x40 - L110x110.
Installation

1st Side strut (Standard)

For an easier installation, all Side struts should be fitted loosely until antenna alignment has been completed.

a) Mount L-bracket (2) to Double strut support bracket (1) using 1pc M10x30 screw /1pc Washer M10 (3) and 1pc M10 nut /1pc Spring washer M10 /1pc Washer M10 (4).

b) Mount "Standard" side strut (5) to L-bracket (1) using 1pc M10x30 screw /1pc Washer M10 (6) and 1pc M10 nut /1pc Spring washer M10 /1pc Washer M10 (7).

c) Mount Strut attachment bracket (8) to one of the four corners of the Clamp brackets (9) using 1pc M10x30 screw /1pc Washer M10 (10) and 1pc M10 nut /1pc Spring washer M10 /1pc Washer M10 (11).

d) Attach and secure "Standard" side strut (5) to Strut attachment bracket (8) using 1pc M8 U-bolt (12) and 2*2pcs M8 nut /2*1pcs Washer M8 (13).

Items 2-7 should be REUSED from Step 1a-1c.
2nd Side strut (Extra)

a) Mount L-bracket (14) to Double strut support bracket (1) using 1pc M10x30 screw /1pc Washer M10 (15) and 1pc M10 nut /1pc Spring washer M10 /1pc Washer M10 (16).

b) Mount “Extra” side strut (17) to L-bracket (14) using 1pc M10x30 screw /1pc Washer M10 (18) and 1pc M10 nut /1pc Spring washer M10 /1pc Washer M10 (19).

c) Mount Strut attachment bracket (20) to one of the four corners of the Clamp brackets (21) using 1pc M10x30 screw /1pc Washer M10 (22) and 1pc M10 nut /1pc Spring washer M10 /1pc Washer M10 (23).

d) Attach and secure “Extra” side strut (17) to Strut attachment bracket (20) using 1pc M8 U-bolt (24) and 2*2pcs M8 nut /2*1pcs Washer M8 (25).
e) Respect the maximum orientation angle indicated below. (This angle may be limited by the radio equipment).

Maximum orientation angle for Side struts: ±20°

f) After completing antenna alignment and orientation of Side struts, tighten all fasteners:

1st Side strut (Standard)
- 2pcs M10 screws/nuts (3/4 and 6/7) to torque of 49Nm ± 5%.
- 2*2pcs M8 nuts (13) to torque of 24Nm ± 5%.
- 1pc M10 screw/nut (10/11) to torque of 49Nm ± 5%.

2nd Side strut (Extra)
- 2pcs M10 screws/nuts (15/16 and 18/19) to torque of 49Nm ± 5%.
- 2*2pcs M8 nuts (25) to torque of 24Nm ± 5%.
- 1pc M10 screw/nut (22/23) to torque of 49Nm ± 5%.