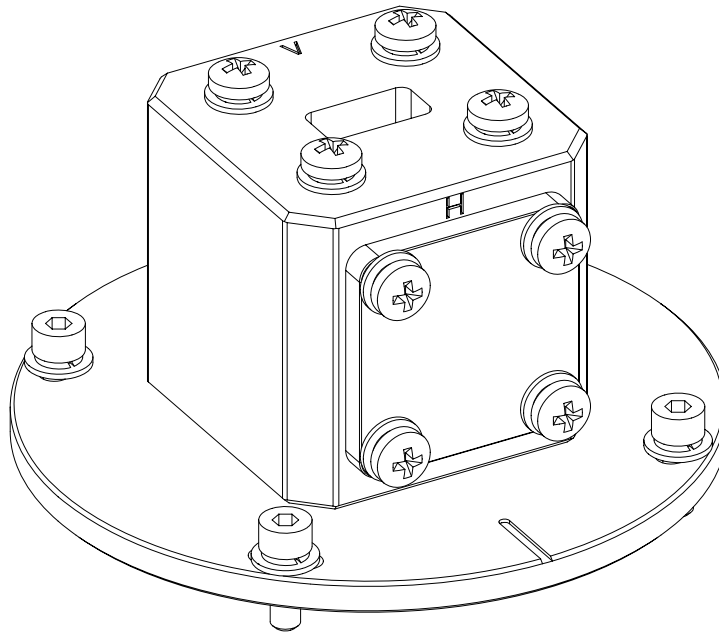


Installation Instructions

For OMC-XX-WG-T2 Split-mount Ortho-mode Combiner



Remarks: Before Installation, please read the instructions carefully.

- ◆ This instruction booklet covers the installation of Split Mount Ortho-mode combiner onto a model ADXX-XX-T2 Antenna.
- ◆ Installation, maintenance and removal of the combiner should be carried out by qualified experienced personnel.
- ◆ To guarantee performance, the combiner should be inspected at least once a year by qualified personnel.

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1. Requirement of Installation

1.1 Overview

This OMC can be only mounted to model ADXX-XX-T2 antenna. It is designed to allow waveguide to be used to carry the RF signals from the Remote Radio unit (ODU or IRFU) to the Antenna. Either the V or H or both V and H ports may be used. Waveguide flanges used must have an o-ring for proper sealing against weather.

1.2 Tools required for Installation

3mm L-Spanner (*Used for Screw M4*)

1.3 Fastener Torque

Customer can use these torque parameters as reference to assembly the antenna.

Recommended Torque

NO.	Fastener Size	Torque (N·m)
1	M4	1.3
2	M6	5

2. Open the Package and Check Parts

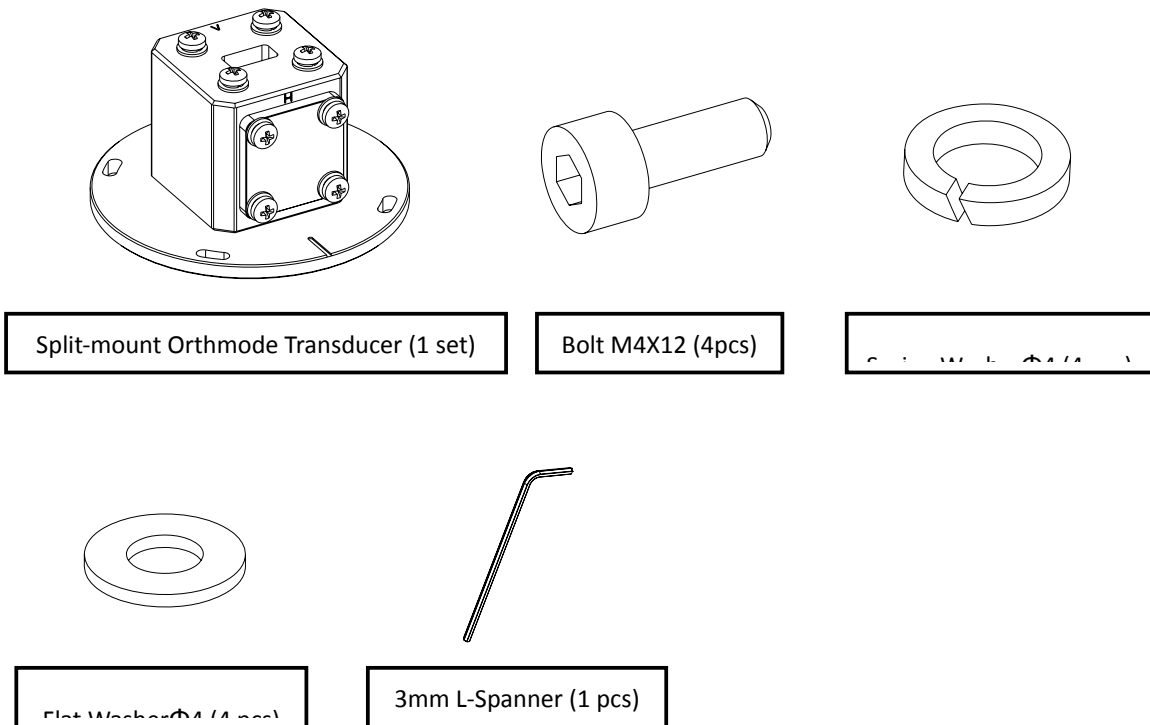


Fig 2.1 Parts List

3. Remove Adaptor

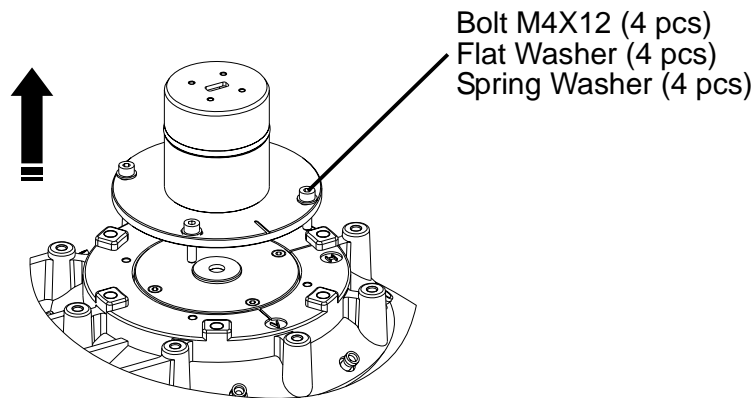


Fig 3.1

3.1 Loosen M4 bolts and removed adaptor from antenna (shown in Fig 3.1).

4. Mount OMC to Antenna

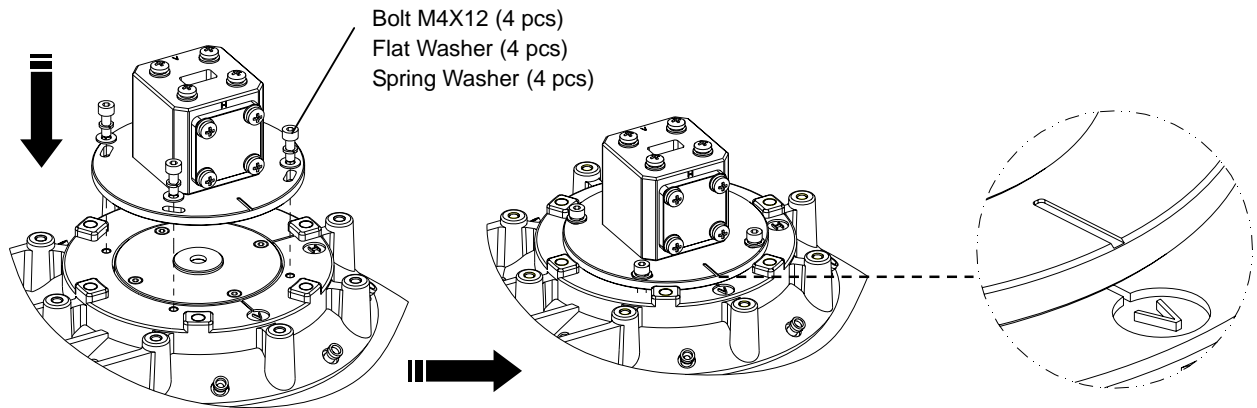


Fig 4.1

Fig 4.2

4.1 Put OMC into the Center Plate, and make sure it is in the vertical polarization (shown in Fig 4.2).

4.2 Use bolt M4 (4 pcs), flat washer and lock washer to connect these two parts (shown in Fig 4.1).

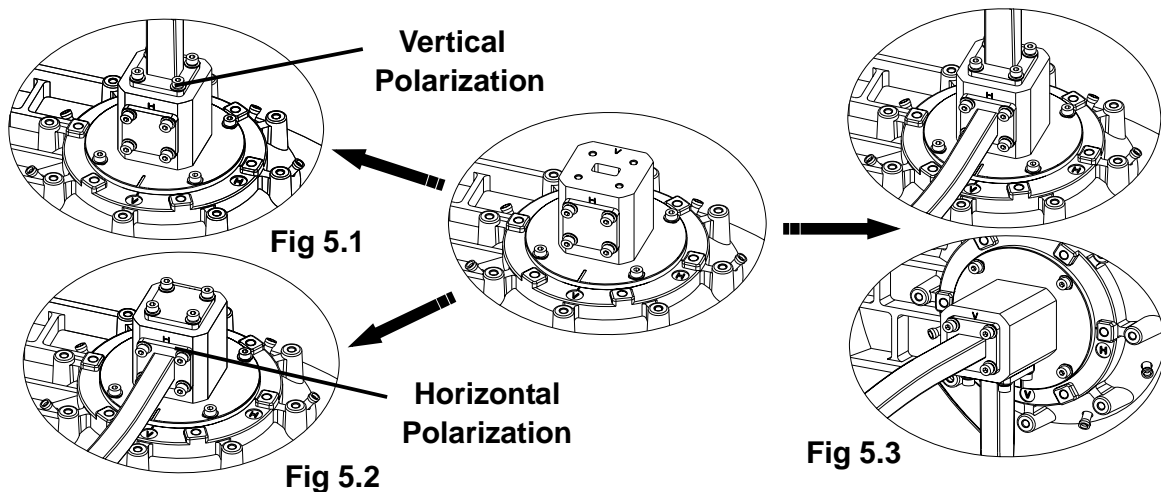
4.3 Tighten all the bolts (shown in Fig 4.2).

5. Flexible Waveguide Connection

Three modes can be used for dual polarization antenna.

- 1) Connect flexible waveguide to the port marked as 'V' (as shown in Fig. 5.1), and leave 'H' port sealed using the metallic sealing cap.
- 2) Connect flexible waveguide to the port marked as 'H' (as shown in Fig.5.2), and leave 'V' port sealed using the metallic sealing cap.
- 3) Remove the metallic sealing cap, and connect two flexible waveguides to both 'V' & 'H' ports (as shown in Fig.5.3)

Ensure that all ports are sealed properly before leaving the site using O-rings supplied with waveguide. **Tighten all the fasteners after Flexible Waveguide is connected.**



6. Part Numbers

Below is a table of the Split mount OMC part numbers and supported Waveguide Flanges for reference.

Trango Part Number	Frequency Range (GHz)	Waveguide Flange Type
OMC-6-WG-T2	5.9 -7.1	UDR70 (CPR137F)
OMC-8-WG-T2	7.125-8.5	UDR84 (CPR112F)
OMC-11-WG-T2	10.7-11.7	UDR100 (CPR90F)
OMC-13-WG-T2	12.75-13.25	UBR120
OMC-15-WG-T2	14.4-15.35	UBR140
OMC-18-WG-T2	17.1-19.7	UBR220
OMC-23-WG-T2	21.1-23.6	UBR220
OMC-27-WG-T2	24.25-29.5	UBR220
OMC-32-WG-T2	31.8-32.3	UBR320
OMC-38-WG-T2	37.0-40.0	UBR320