

DISCLAIMER:

The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. You must refer to the appropriate local safety codes and ensure proper electrical and electromagnetic compatibility before proceeding with the installation. All local codes shall take precedence over information in this document. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment. Communication Components Antennas Inc. disclaims any liability or responsibility for the results of improper or unsafe installation.



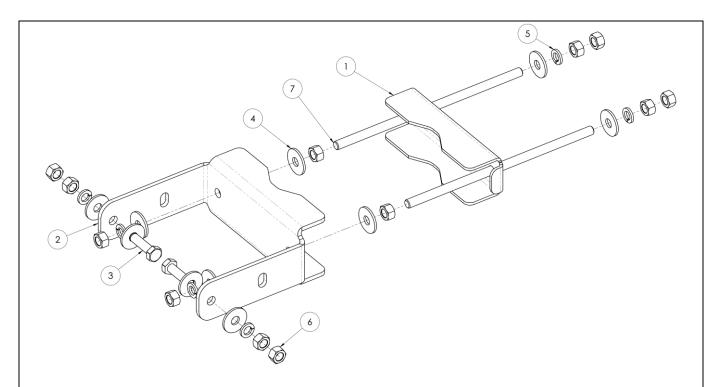


Fig. 1: Dual Position Mast Bracket Kit BOM

ITEM	QTY	DESCRIPTION
1	1	CLAMP BRACKET, SMOOTH, MBK-36
2	1	CLAMP BRACKET, ANTENNA, TILTED, SMOOTH, MBK-36
3	2	SCREW, HEX, CAP, M12X1.75, 45L, DIN 933, CLASS 8.8, ROHS HOT DIP GALV
4	10	WASHER, FLAT, M12, 37 OD, MIN 2.3 THK, DIN 9021, STEEL, ROHS HOT DIP GALV
5	6	WASHER, SPLIT LOCK, M12, DIN 127B, STEEL, ROHS HOT DIP GALV
6	12	NUT, HEX, M12X1.75, DIN 934, CLASS 8, STEEL, ROHS HOT DIP GALV
7	2	THREADED ROD, M12X1.75, 300L, DIN 975, CLASS 8.8, ROHS HOT DIP GALV

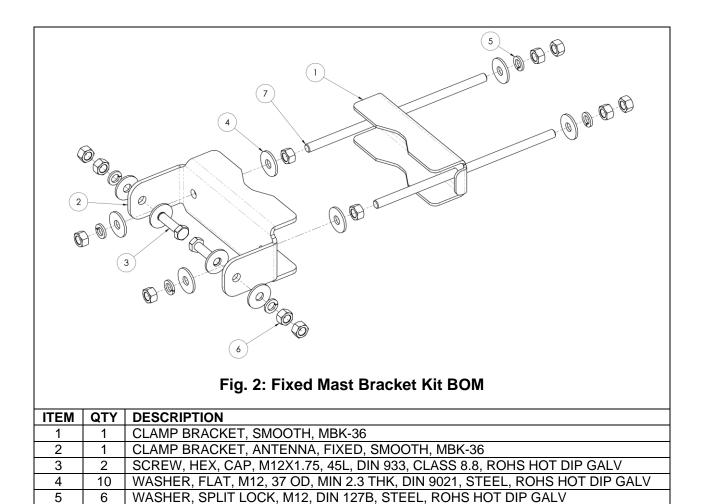
Step Task

Note 1 Use the location on the mounting bracket shown in Fig. 4 to achieve 0° of down tilt.

Note 2 If 5° of uptilt is desired, the order of attachment of the mounting brackets can be reversed, as is shown in Fig. 8.

To achieve 5° of downtilt, attach the dual position mast bracket, illustrated in Fig. 1, to the top hinge bracket of the antenna, as illustrated in Fig. 3 and 5. Refer to the materials list shown in Fig. 1, to properly identify the required items.





NUT, HEX, M12X1.75, DIN 934, CLASS 8, STEEL, ROHS HOT DIP GALV

THREADED ROD, M12X1.75, 300L, DIN 975, CLASS 8.8, ROHS HOT DIP GALV

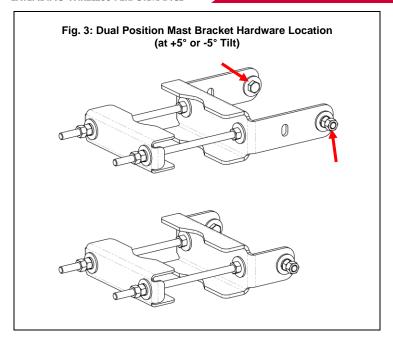
Step Task	
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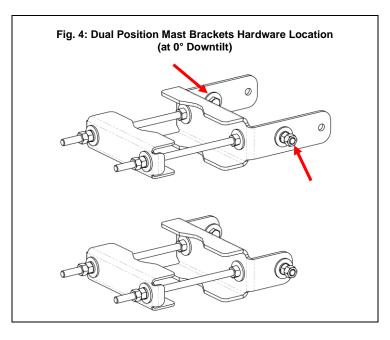
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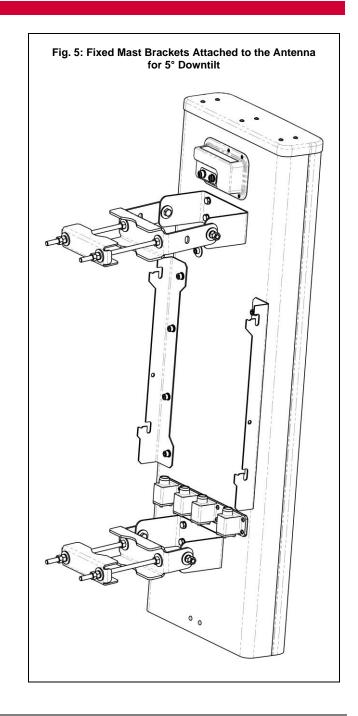
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Attach the fixed mast bracket, illustrated in Fig 2, to the bottom hinge bracket of the antenna, as illustrated in Fig 3 and Fig 5. Refer to the materials list shown in Fig. 2 to properly identify the required items.





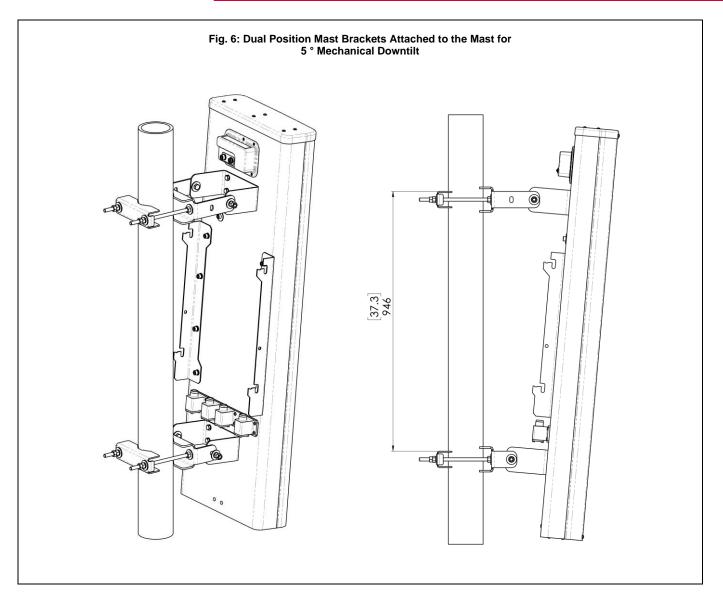




Step Task

The bracket comes preconfigured for 5° of tilt, to configure the bracket for 0° tilt, (referring to 'Item List' in Fig. 1) remove items 3, 4, 5 and 6 from the assembly and place in the positions shown on the Dual Position mast bracket, as illustrated in Fig. 4.





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- 5 Lift the antenna to the mast location to continue the assembly, as shown in Fig.6 for 5° downtilt, Fig. 7 for 0° downtilt, or Fig. 8 for 5° uptilt.
- Align the antenna in the direction specified by the site engineer, at a pitch of 946mm as shown in Fig.6, 7 or 8. The orientation of the antenna is normal to the sector unless specifically required otherwise.
- 7 In order to accommodate multiple OD size pipes, adjustment to the hardware on the threaded rod may be required.
- 8 Secure the antenna to the mast and torque all mounting fasteners to 54 N·m (40 ft-lbs).



