COMMSCOPE®

Instruction Sheet

A997-0067 Revision H, May 2019

T-108-GL-E Mounting Kit for Antennas

General

This instruction sheet contains all necessary information required to assist in the correct installation of antennas that use an adjustable T-108-GL-E mounting kit. These antennas can be supplied with either fixed beam downtilt, manually adjustable electrical downtilt or AISG-compatible remotely controlled electrical downtilt.

Following symbols can be found next to text outlining important information.

Please follow the procedure marked with this symbol precisely. Non-compliance may lead to damage of the product.

Handy tips when installing product.

Unpacking

Make sure that the antenna and the accessory items listed below are provided and have not been damaged during transport.

- Antenna
- Mounting kit
- Hex Key 6 mm AF (supplied with adjustable downtilt antennas only).

Mounting Kits	**480 mm (18.9") Mount Centre Spacing**
Mechanical Downtilt	T-108-GL-E

Table 1: Mounting Kits Part Numbers

Do not install near power lines. Power lines, telephone lines, and guy wires look the same. Assume any wire or line can electrocute you.

Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.

Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.

Installation Instructions

Ensure a torque spanner is used when tightening fasteners, see the mounting kit diagrams on the following pages for the correct torque recommendations

Ensure antenna is installed with the connectors at the bottom.

Installation Instructions- Mechanically Adjustable Downtilt Mounting Kit for 600 - 850 mm (23.6 - 33.5") Antennas - (T-108-GL-E), Bracket Spacing 480 mm (18.9")

Assemble both mounting kits as per Figures 1 and 2 of this document.

1. Attach the upper and lower mounting kit assemblies to the antenna, before trying to clamp the brackets to the pole.

2. Downtilt angles of 0° to 15° may be obtained with the correct adjustment of the tilt arm bracket.

   - 0°-15° downtilt can be achieved by aligning the corresponding hole in the tilt arm to the pivot bracket which mates against the mounting pole, as shown in Figure 3. The first hole is for 0° downtilt, with each consecutive hole resulting in an increased inclination of 1°.

For typical installations the minimum recommended pipe diameter is 60mm (2.4").

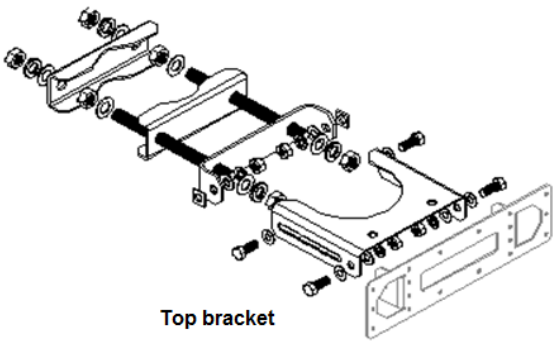

Figure 1.

100mm (4") Nominal

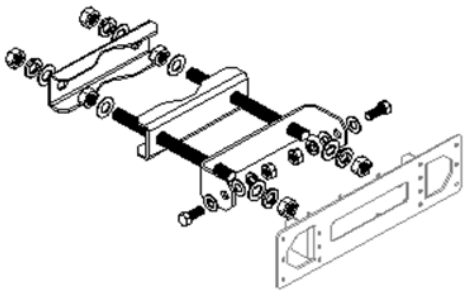

Figure 2.

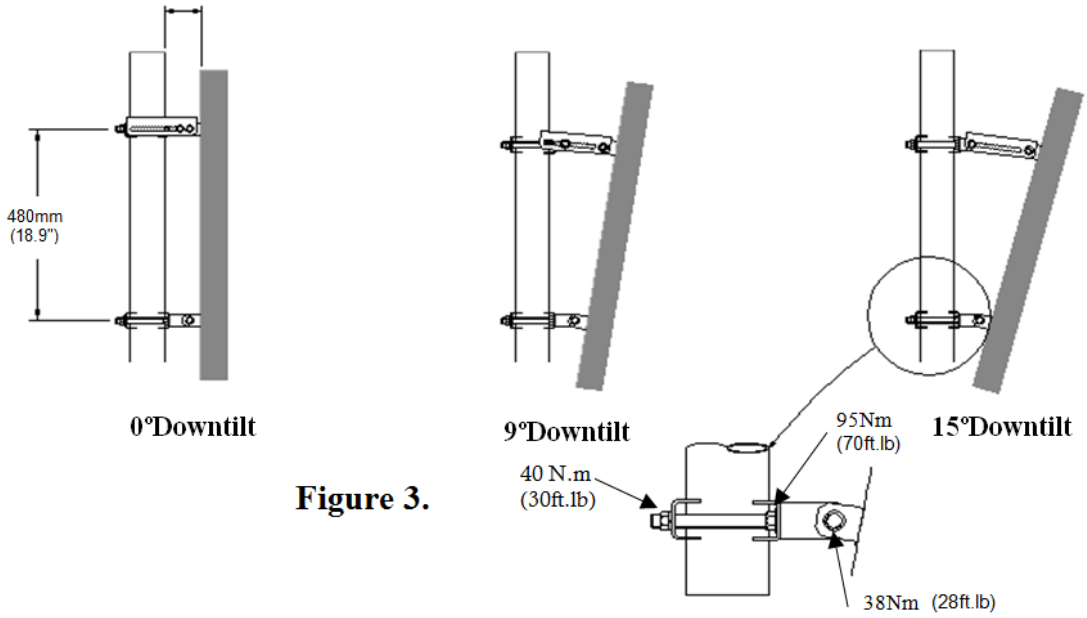

Figure 3.

Figure 1. Mechanically Adjustable Downtilt Top Bracket Exploded View

Figure 2. Mechanically Adjustable Downtilt Bottom Bracket Exploded View

Figure 3. Sample Antenna Positions Available With T-108-GL-E Kit

Operation of Antennas

Fixed Downtilt Antennas

The beam downtilt is factory set.

Manual Electrically Adjustable Downtilt Antennas

The beam downtilt below the horizon is adjusted by rotating the hex socket located at the bottom of the antenna. Turning the hex socket in a clockwise direction increases the beam downtilt below the horizon. Turning the hex socket in an anti-clockwise direction decreases the beam downtilt below the horizon. Beam downtilt setting can be read off the scale at the face of the antennas base plate at the point where the scale protrudes through the base of the antenna.

AISG Compliant Adjustable Downtilt Antennas - Fitted with Remote Downtilt Adjustment

AISG Compliant antennas are compatible with AISG compliant control unit equipment. For operation of downtilt using AISG compliant controllers see the controller documentation.

WARNING: During downtilt adjustment ensure the hex socket is not turned past the minimum tilt or past the maximum tilt as shown on the downtilt indicator scale. Forcing the hex adjustment beyond this point may lead to damage of the downtilt mechanism. **Using power drills and electric screwdrivers to adjust downtilt may also lead to damage of the downtilt mechanism.**

Remote Electrical Tilt Connection

The AISG connector fitted to the antenna is designed to accept any AISG compliant cable assembly. After ensuring both connectors are dry, push in the mating connector, then tighten.

Using excessive torque may damage the AISG connection in the antenna.

RF Cable Connection

The RF connectors fitted to the antenna are designed to fit jumper cables with a corresponding male connector. After ensuring both mating connectors are dry, push the male connector in and tighten to the correct torque setting.

If needed or as required a weatherproofing kit may then be fitted to the connection.

If the RF connectors are tightened beyond the recommend torque the RF connection to the antenna may be damaged.