



## Installation Instructions S3530 GHz Solid Parabolic Antenna

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S3530 antennas are delivered in 3 sub assemblies: Reflector (in 1280 x1280 x 220mm carton), Feed (also in 1280 x1280 x 220mm carton) and Mount (packed separately)

### **Important Note:**

The precision spun aluminium reflector (1) must only be handled by the backing ring (2). Do not lift using the reflector. Do not drop or expose to inappropriate forces.

### **Assembly** (refer to diagram)

#### Unpacking

1. There are 4 screw heads visible on one side of the carton. Place carton flat on the floor with screw heads underneath. Open flaps at both ends of carton. Remove feed (3) and threaded strut from carton.
2. Put threaded strut with attached tower clamp aside for use after installation of main dish.

#### Attaching Elevation Rod

3. Remove elevation rod (5) from mount. Remove elevation pivot bracket (6) from rod. Bolt pivot bracket to backing ring using the 2 adjacent holes with dissimilar diameters.

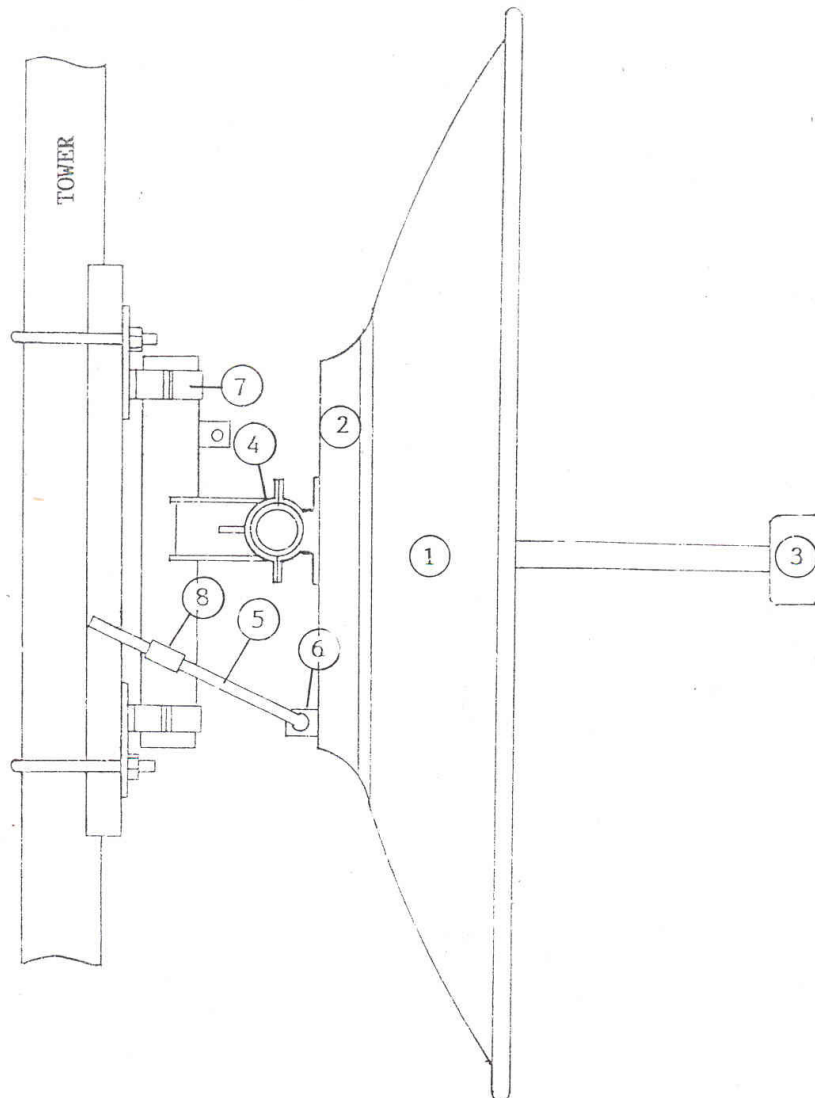
#### Attaching Feed

4. Remove thinner retaining ring from back of feed assembly (3). Fit feed through reflector(1) and re-attach thinner retaining ring to feed assembly using five M6 bolts. Do not tighten.
5. Rotate feed for correct polarization. For vertical polarization the VERT arrow should be pointing up, for horizontal polarization the HOR arrow should be pointing up.
6. Attach 3 strut supports to reflector (1) using M6 bolts nuts and washers. Attach other end of struts to remaining lock ring on stalk assembly using M4 bolts.
7. Tighten all M6 and M4 bolts on reflector and struts. Tighten M4 grub screw on remaining lock ring using 2mm Allen key.

#### Assembling Complete Unit

8. Fit assembled reflector and feed to mount at elevation bearings.
9. Check that elevation and azimuth bearings (7) are firm but not tight to permit adjustment. Use lubricant for smooth action.
10. Fit elevation rod (removed previously) observing alignment in both planes. Leave both nuts on either side of swivel bolt (8) loose for subsequent adjustment.
11. Lift assembled antenna into position on tower and attach to a suitable tower member with the supplied U-bolts. Lift at mount, preferably by passing sling through hollow elevation axle to minimize rotation.
12. Aim in elevation and azimuth. Attach feeder cable avoiding strain on feed.
13. Tighten elevation and azimuth bearings firmly. Leave a gap of 1mm on each side of the bearings between base and cap. Over tightening may cause fatigue or fracture during extremely cold weather.
14. Tighten all other bolts etc including elevation swivel bolt and nut at elevation pivot bracket.
15. To provide additional stability, fit the threaded strut from one of the two lugs on the mount to a convenient tower member.

c) MOUNT      a) REFLECTOR      b) FEED



**Legend**

- 1 Reflector
- 2 Backing ring
- 3 Feed
- 4 Elevation bearing
- 5 Elevation rod
- 6 Elevation pivot bracket
- 7 Azimuth bearing
- 8 Swivel bolt
- 9 Threaded strut (not shown)

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