

*CommScope Infrastructure Academy offers installation training.*



## After first 3 months

### Antennas:

1. Check for tightness of ALL antenna hardware. If any hardware is found to be loose, examine hardware and associated components for damage and replace as required. Re-tighten per the appropriate installation instructions for the component/assembly.
2. Ensure that all adjusting hardware is fully protected by Denso paste/tape.
3. Check condition of paintwork and touch-up as required.

### Feeders:

1. Check connectors are weatherproofed at antenna.
2. Check cable/waveguide hangers are secure.
3. Check that earthing straps are secure and weatherproof.
4. Check that cables/waveguides are not rubbing on steelwork.

### Pressurization:

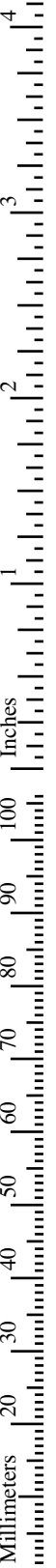
1. Check that feeder cables/waveguides are correctly pressurized (where appropriate).
2. Check operation of dehydrators in accordance with appropriate operator's manual.

**See other side for annual inspection information**

### Notice

The installation, maintenance or removal of antenna systems requires qualified, experienced personnel. CommScope installation instructions have been written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance and condition of equipment. CommScope disclaims any liability or responsibility for the results of improper or unsafe installation practices.

To ensure continued satisfactory operation of an antenna system, the following maintenance schedule must be followed. It is advised that all installation instructions supplied with an antenna are kept together with this maintenance schedule in a safe place for future reference.



# Annual Inspection

## Antennas:

1. Check for tightness of ALL antenna hardware. If any hardware is found to be loose, examine hardware and associated components for damage and replace as required. Re-tighten per the appropriate installation instructions for the component/assembly.
2. Ensure that all adjusting hardware is fully protected by Denso paste/tape.
3. Apply conductive grease (CommScope Pt.No.203233) to the rear of the feed unit, between the hub mounting ring and the feed unit, in the region of the retaining circlip. Also apply this grease around the perimeter of the hub mounting ring over the R.F. spring gasket.
4. Check condition of paintwork and touch-up as required.
5. Check the antenna for any structural damage or defects. Consult CommScope for advice if necessary, otherwise replace components.
6. If a planar radome is fitted, check the radome "J" bolt spring lengths to ensure correct tension. Adjust "J" bolts if necessary. Check the radome for damage and repair or replace as required.
7. If a moulded radome is fitted, check that it is correctly secured. If it is not, check for damage at the radome securing points and replace or repair radome and hardware if necessary. In addition, if the radome has suffered any structural damage e.g. due to ice fall, replace radome accordingly.
8. Every 5 years, clean down all galvanised steelwork thoroughly and apply a heavy coat of a suitable chlorinated, rubber based paint.

## Feeders:

1. Check connectors are weatherproofed at antenna.
2. Check visible parts of cable/waveguide runs for physical damage.
3. Check cable/waveguide hangers are secure.
4. Check that earthing straps are secure and weatherproof.
5. Check that cables/waveguides are not rubbing on steelwork.
6. Check building entries for correct fitting.

## Pressurization:

1. Check that feeder cables/waveguides are correctly pressurized (where appropriate).
2. Check operation of dehydrators in accordance with appropriate operator's manual.

## Electrical Tests: Recommendation

1. Measure antenna/feeder system return loss over antenna operating frequency band.
2. Compare with results obtained on commissioning. Investigate if significant differences appear.

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