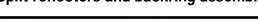
Installation instructions 8-10-12 ft Antennas with split reflectors



Split reflectors and backring assembly

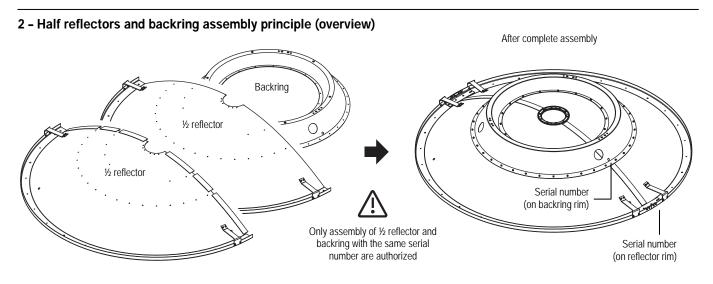


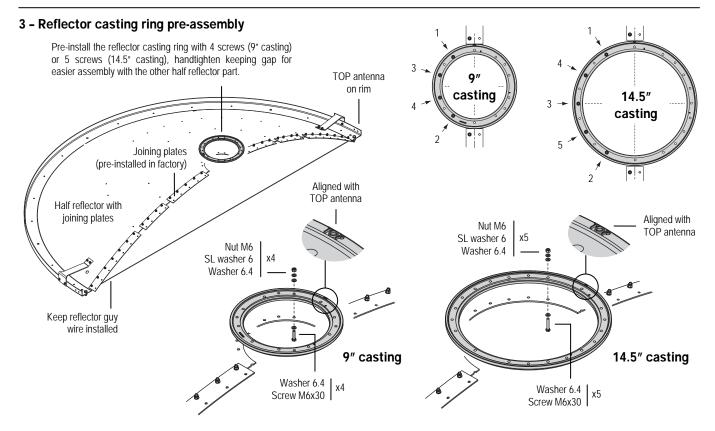
These installation instructions have been written for qualified, skilled personnel. The antenna shall be inspected once per year by qualified personnel to verify proper installation, maintenance, and condition of equipment. It is important to adhere precisely to all parts of the installation instructions. RFS disclaim any responsibility resulting from improper or unsafe installation. RFS reserves the right to alter details at any time, especially with respect to technical improvements.

1 - Tools and accessories required (not supplied)

- 4 trestles or similar stands with same height (0.6 m minimum), for a man accessibility under the reflector for tightening process
- Combination wrenches for hexagon bolts: Mô(10), M12(18/19), a cordless screwdriver with hexagonal adaptors and rechargeable batteries may be helpfull
- Torque wrench from 8 to 50 Nm
- Tape measure, digger, complete individual safety equipment

*(values in brackets = openings of spanners)



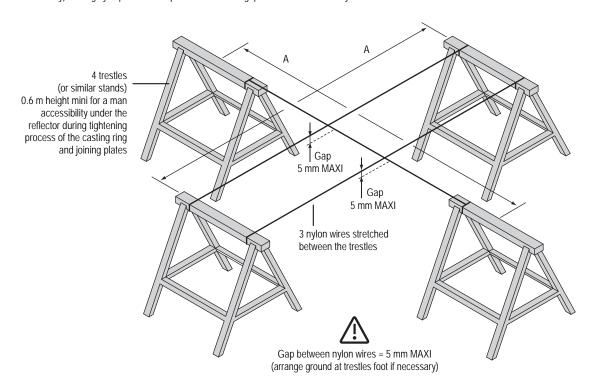


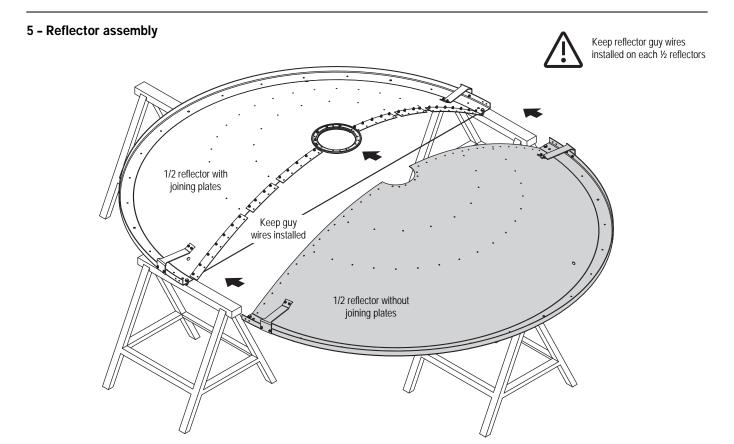
4 - Preparation of the assembly area

This operation must be carried out with great care, the final geometric qualities of the parabolic reflector assembled are dependent of the respect of assembly rules of 2 half reflectors and its backring (for example, at 7/8 GHz a 10 ft reflector assembled without precaution, may generate 1 to 1.5 dBi of gain losses)

- The assembly area must be flat and clear, with a size at least 2x the antenna diameter, so approx. Ø5.5 m (8 ft), Ø6.5 m (10 ft) and Ø8 m (12 ft).
- Arrange the trestles on the area (see indicative trestles spacing dimensions, to help you for positioning).
- Attach the nylon wires as described (check trestles spacing, it must support the 2 half reflectors for the assembly) It is highly important to respect the maximum gap authorized between nylon wires.

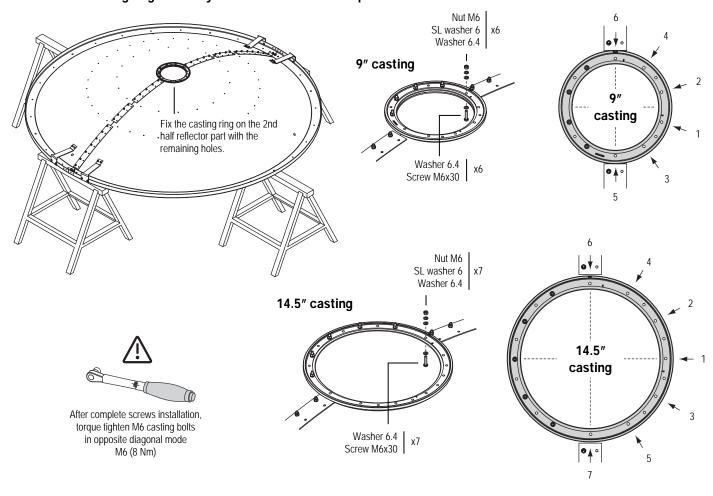
Indicative trestles spacing			
Antenna Ø	8 ft	10 ft	12 ft
А	2.52 m	3.13 m	3.75 m



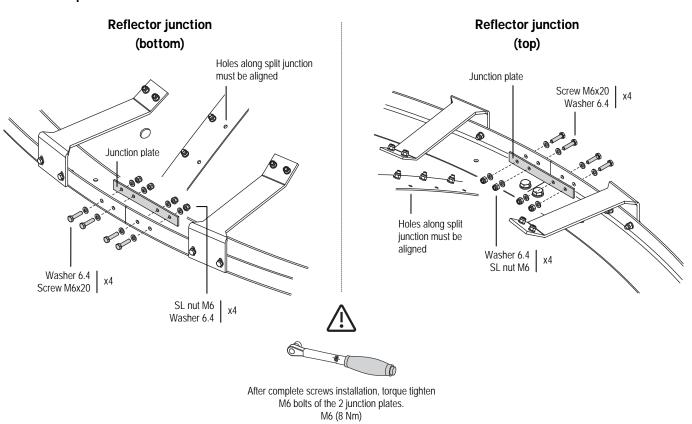


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6 - Reflector casting ring assembly on second half reflector part

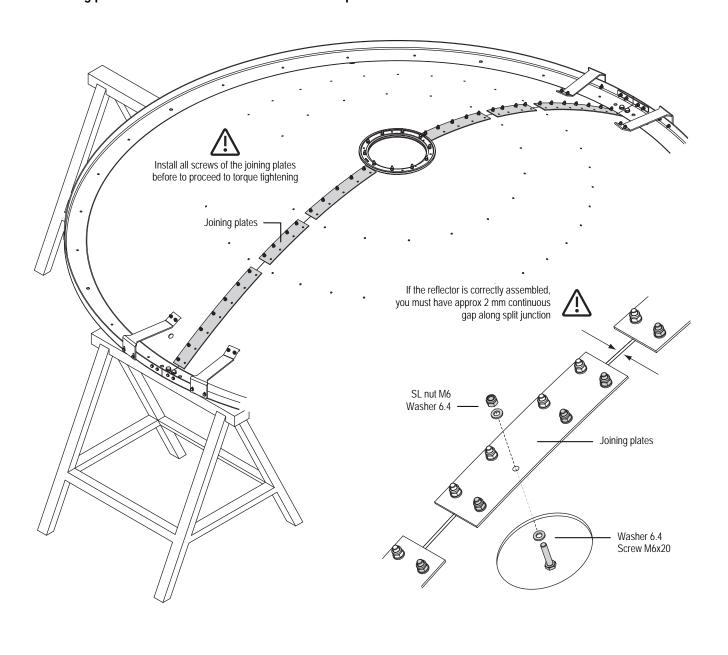


7 - Junction plates installation inside reflector rim

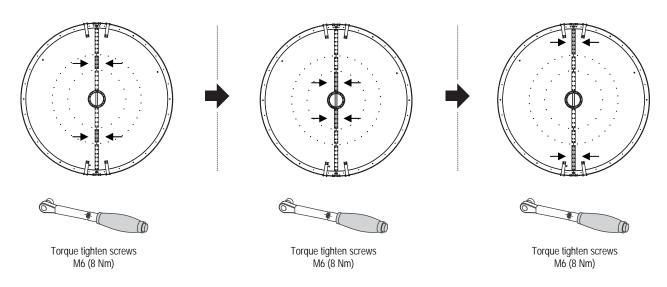


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8 - Joining plates fixation on the second half reflector part

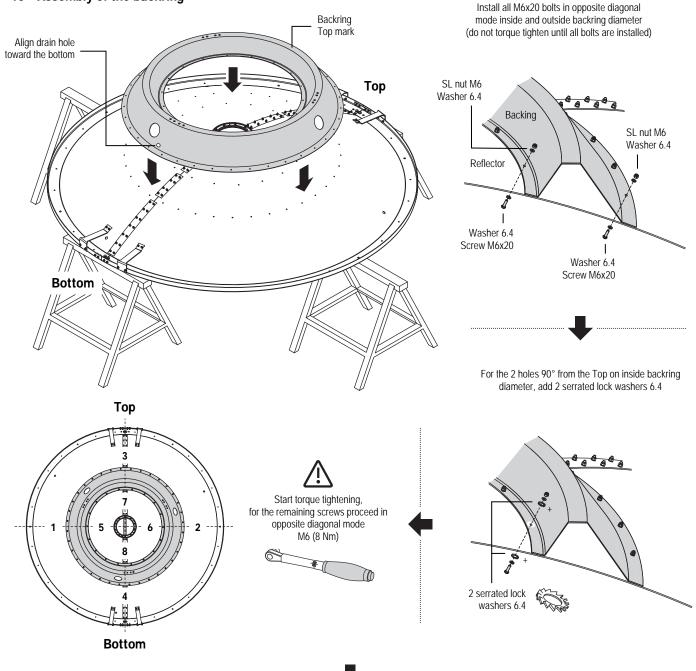


9 - Torque tightening order of the joining plates (see torque table joined)

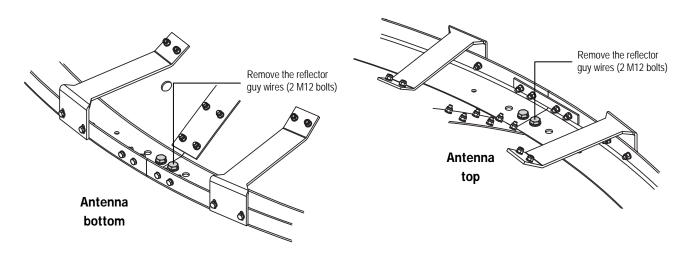


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10 - Assembly of the backring

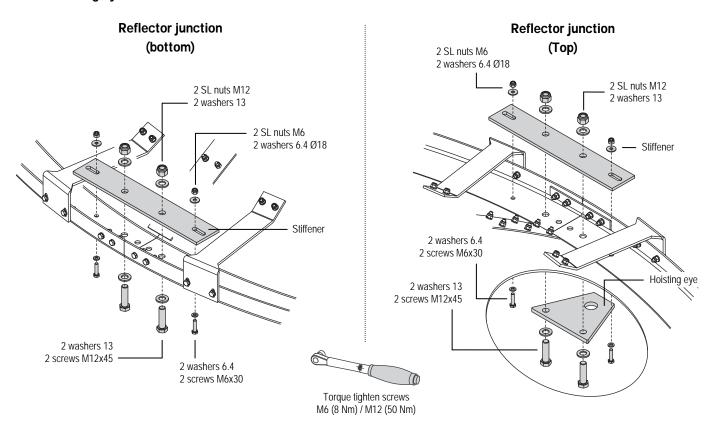


After complete backring torque tightening

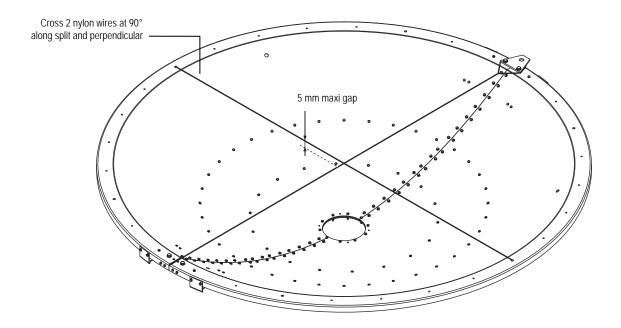


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11 - Hoisting eye and stiffener installation



12 - Flattness check



Cross two nylon wires at 90° (along the split and perpendicular) and check the gap between the wires. If the wires touch each other, pass the upper wire under the other wire.

The maximum gap between the wires must be less than 5 mm. If the gap is superior, the antenna gain characteristics will not be optimum.

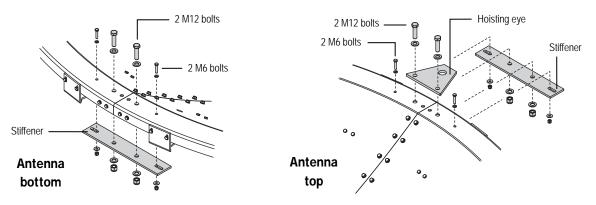
Example: At 7/8 GHz on a 10 ft, a splitted reflector assembled without precaution (gap between reflector guy wires > 10 mm) the gain losses is in the order of 1 to 1.5 dBi.

If you are in this case, re-install the 2 reflector guy wires along the split junction, then dismantle all the reflector and proceed to a complete re-assembly, following carefully the assembly process. (Take a special care to trestles disposition/adjustment, and tightening order of the different hardware parts).

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13 - Hoisting eye and reflector junction removal (only for antenna with shroud, otherwise skip this step)

For DA, DAX, UA, UDA, UXA antenna types, you need to remove the hoisting eye and the stiffeners plates, before the shroud installation.



14 - Next instructions (refer to antenna installation instructions)

Addendum (installation pictures)









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