

FIELD PROCEDURE ASSEMBLY GUIDE

HP8 Antenna

Shroud and Radome Assembly

Radiowaves is pleased to introduce redesigned tensioning springs that simplify the installation process and reduce the amount of time required to install the SHP8/HP8 fabric radomes to the proper tension. Effective immediately, SHP8 (8' Super High-Performance) and HP8 (8' High-Performance) antennas will only be available with the redesigned tensioning springs.

IMPORTANT

Please read instructions through completely before beginning installation. Caution should be used. Qualified persons experienced with antenna assembly and installation are required for installation.

DISCLAIMER

RadioWaves Inc. disclaims any responsibility or liability for damage or injury resulting from incorrect or unsafe installation practices.



Installation Instructions

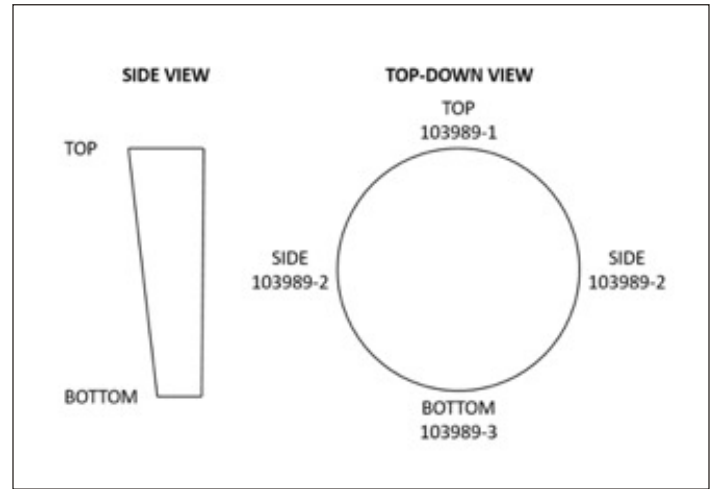
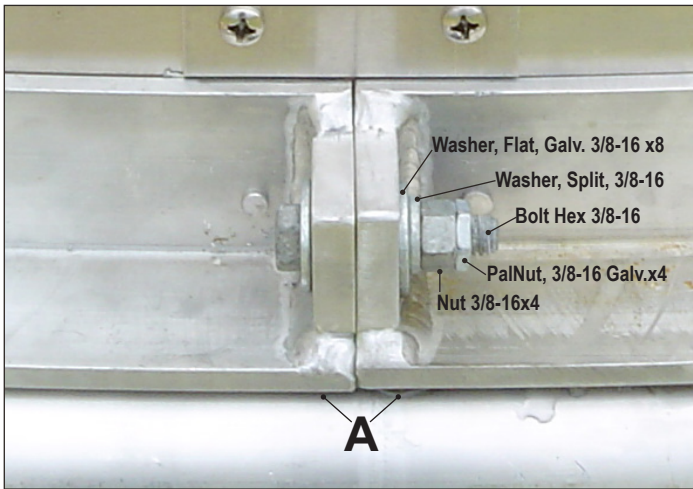
Hardware Kit 96" Shroud (103996-1)

PART	DESCRIPTION	QTY
BH38-16.13-1	BOLT, HEX HD, 3/8-16 X 1.25, SS	24
BH38-16.17-2	OLT, HEX HD, 3/8-16 X 1.75 GALV	4
NH38-16.GV-1	NUT, HEXHD, 3/8-16, GALV	4
NH38-16.SS-1	NUT, HEX, 3/8-16, SS	24
NL38-16.GV	NUT, HEX, 3/8-16 GAL, PALNUT	4
SP12-24.07-1 ST	SCREW, PAN, SS# 12 X 1/2 SELF-TAPPING	40
WF38.GV-1	WASHER, FLAT, 3/8, GALV	8
WF38.SS-1	WASHER, FLAT, 3/8, SS	48
WS38.SS-1	WASHER, SPLIT LOCK, 3/8, SS	24
WS38.GV-1	WASHER, SPLIT LOCK, 3/8, GALV	4
103989-1	SPLICE, STRAP, 28.75 X 6.88 X 3	1
103989-2	SPLICE, STRAP, 28.75 X 6.25 X 3	2
103989-3	SPLICE, STRAP, 28.75 X 5.63 X 3	1

Hardware Kit, Radome (103998-1)

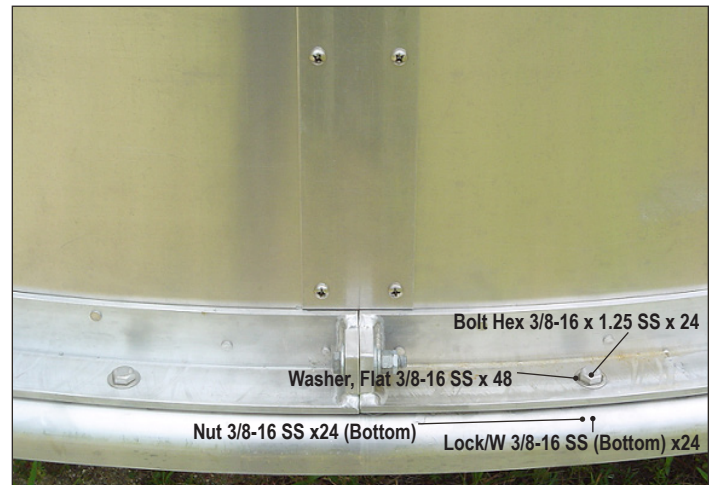
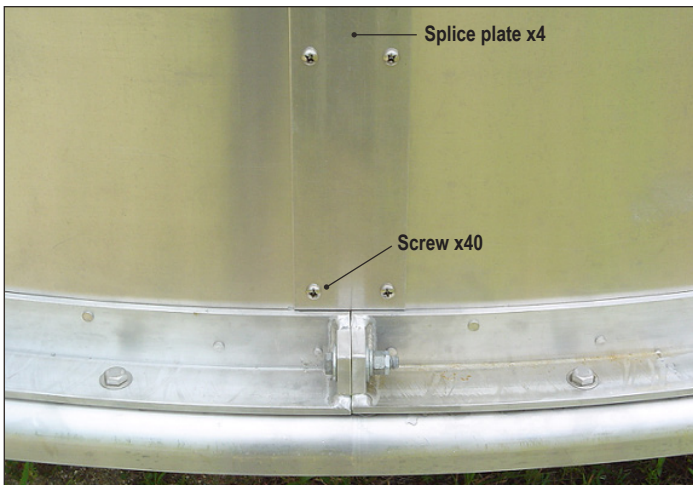
PART	DESCRIPTION	QTY
103991-1	SPRING, COMPRESSION, RADOME	20
103992-1	J-BOLT, 11 X .375DIA	20
NH38-16.GV-1	NUT, HEX, 3/8-16, GALV	20
WF38.SS-1-2	WASHER, FLAT, 3/8, S.S1"OD	40
WS38.GV-1	WASHER, SPLIT LOCK, 3/8, GALV	20

Shroud Assembly Instructions



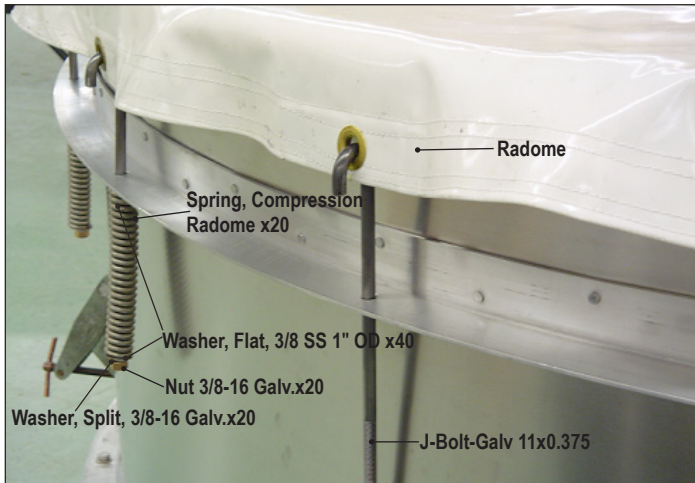
1. On a flat surface, match the alphabetical letters on bottom of each shroud piece.
2. Align bolt holes and install hardware in sequence shown.
3. Repeat for the other four joints marked B, C, D.

4. Secure splice plates (103989-1, 103989-2, and 103989-3) over all four seams using supplied self-tapping pan-head screws (#12 x 0.5").



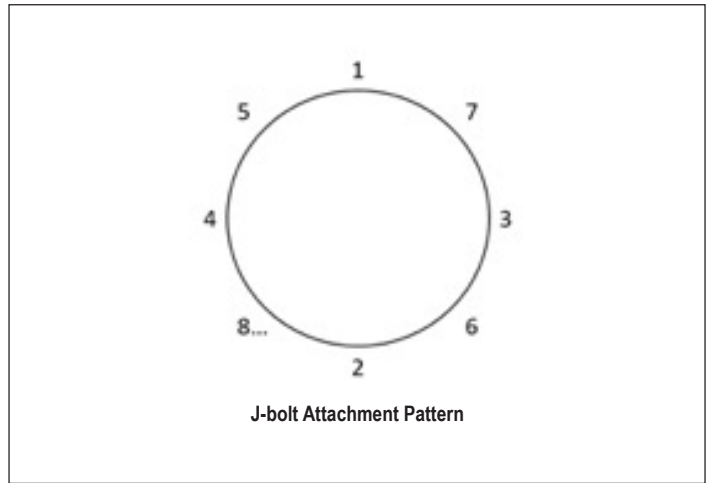
5. With the antenna assembly facing upward transfer the assembled shroud onto the antenna.
6. The shroud and antenna are match-drilled at the factory. Align the holes in the shroud with the holes in the antenna. For typical installations (as viewed if the antenna were mounted upright to a pole), the shroud will be oriented as follows:
 - * the RF absorber panels are located on the left and right sides of the antenna
 - * the tallest part of shroud is located toward the top (i.e. closest to sky)
 - * the shortest part of shroud with the drain holes is located at the bottom (closest to ground)

7. Install the attachment hardware in the sequence shown. Tighten the 20 bolts (3/8-16 x 1.25 SS) at top and bottom of the antenna's side edge.
8. Match the top of the radome (indicated by tag) to the top of antenna (see step 6), lay the radome over the circumference of the shroud assembly, and evenly distribute the amount of the radome hanging over the shroud assembly's edge.

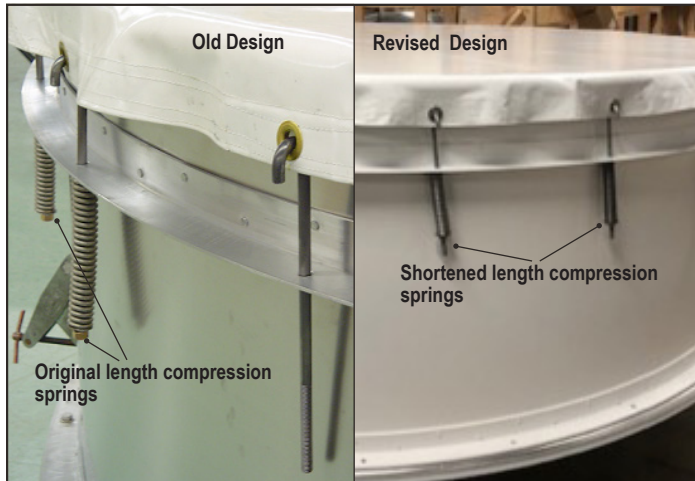


9. Secure the radome using the J-bolt, compression spring, washers, and nut as shown in the figure below. Loosely thread the washer and nut onto the J-bolt at this time.

Working in a star pattern attach the remaining nineteen (19) J-bolt/spring assemblies to the perimeter of the shroud, repeating the process.



10. Once all twenty (20) J-bolt assemblies are loosely installed, use the same star pattern to tighten the nut on each bolt so that the spring is compressed to 5 ± 1 inches in length.



11. Old vs. New spring length

With the old compression spring length, little-to-no-thread on the J-bolt was accessible when attaching washers/nut to end of assembly, see left image above. To address this issue, the springs were shortened by 1.0 inches in length, to both aid in initial assembly and decrease the time necessary to properly tension the radome cover, see right image above. Using the recommended tools listed below, attaching the radome should be completed in an estimated 20-25 minute period.

Recommended tools:

1. 3/8" socket head, deep (3" length)
2. Cordless impact driver



12. Complete assembly as shown in this figure



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Safety Information

This Information May Save You from Death or Injury

Do not attempt to install or dismantle any RadioWaves Inc. products until you have read and understood the information and instructions in this document.

Installations: Only trained professional installers should be used to install or dismantle antennas, mounts, and related hardware. It is the responsibility of the installer to be sure that all building and safety codes are met and that the installation is complete and secure.

Lightning Protection: All antennas and related hardware must be attached to and connected correctly to a properly grounded structure. It is the responsibility of the installer to be sure that the installation is completed in accordance with all applicable grounding and safety codes.

Electrocution Hazard: Do not install or dismantle RadioWaves Inc. products near any type of power line. Should your antenna or related hardware come in contact with power lines you **could be killed!** Be sure your installation is out of falling distance of any overhead wires-including the lead to any building or structure.

NEVER OPERATE OR LOCATE THIS OR ANY EQUIPMENT NEAR POWER LINES

Electrocution Hazard:

Portable or Mobile Installation.

If you are installing a RadioWaves Inc. component or part on a portable or mobile platform such as a Portable Tripod, Mast, Truck, or Van, be sure all safety procedures are followed and that operators have been properly trained. No one should be allowed to operate or set up the equipment that has not been properly trained.

RadioWaves Inc. is a component supplier and is not the system designer and has no control over how its products are used and installed.

It is the responsibility of the System Designer, Van Manufacturer and Owner / Operator to be sure that the overall system is built in accordance with all applicable design and safety standards and procedures and that the operators have been properly trained.

NEVER OPERATE OR LOCATE THIS OR ANY EQUIPMENT NEAR POWER LINES