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AL-7103 MKII

1.15m (45”) Ku-Band/X-Band Antenna
Maritime Stabilized VSAT System

Radome Installation Procedure

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1 INSTALLING AND SECURING THE DOME TO THE RADOME BASE

1.1 INTRODUCTION

The Dome is secured to the Radome Base with a securing-ring equipped with a locking mechanism.

The locking mechanism exists in two versions: original and modified.

The following procedures describe how to install and secure the Dome to the Radome Base, for the two locking-device configurations.

1.2 INSTALLATION PROCEDURE

The installation procedure should be performed by two personnel.

The procedure should be performed on a leveled, stable, and free-of-obstacles surface.

Step	Description	Details
1.	Verify that the securing ring in unlocked and placed around the Radome Base. Check that the ring is intact.	
2.	Place the Dome on top of the Radome Base. Walk around the system and verify that the Radome and Base are aligned, and that the Radome covers the Base uniformly all along the circumference.	 

Step	Description	Details
3.	Place the ring over the Dome and Radome Base joining circles, so it will overlap and secure the Radome to the Base all along the circumference. Carefully check for full alignment of the ring.	 
4.	Lock the ring latch. Again, verify that the ring is evenly securing the Radome to the Base all along the circumference.	 

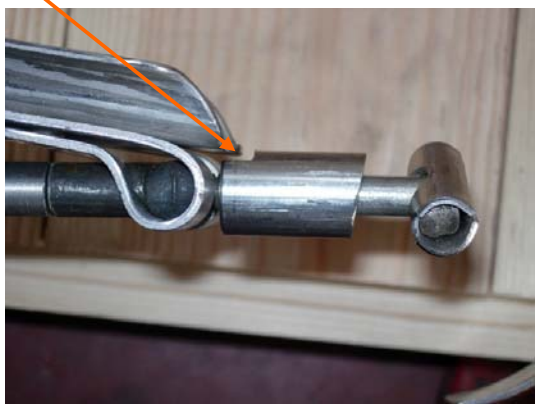
Step	Description	Details
5.	Using a mallet, tap the ring all along the circumference, to align the secured Radome and Base.	

Step	Description	Details
6.	Fasten the locking mechanism nut, (without a spacer) with a torque of 14 N-m (10 lb-ft), while another technician tapping the ring all along the circumference with a mallet, verifying alignment of the secured Dome and Radome Base. Fasten the nut, using slow movements and small circles of the torque, while the second person is tapping the ring. **<u>IMPORTANT:</u> Fastening the locking mechanism nut without tapping the ring with a mallet may harm the thread.** Once the fastening is done, using the correct moment, measure the locking mechanism inner gap (using a caliber). The inner gap measure should not exceed 30mm.	   

<table>
<tr><th>Step</th><th>Description</th><th>Details</th></tr>
<tr><td>7.</td><td><u>IMPORTANT:</u> If the inner gap measured is higher than 30mm, you must open the nut and the locking mechanism and repeat steps 1 to 6, making sure the fastening action is done correctly – verify again the ring is placed correctly and the fastening is optimal while tapping the ring with mallet.</td><td></td></tr>
<tr><td>8.</td><td><u>Finding the required spacer size:</u>
Choose the spacer size, using the following table (6 spacer types):

<table>
<tr><th></th><th>Ring Inner gap measure (mm)</th><th>Required Spacer size</th></tr>
<tr><td>1</td><td>9-12</td><td>12</td></tr>
<tr><td>2</td><td>13-15</td><td>15</td></tr>
<tr><td>3</td><td>16-18</td><td>18</td></tr>
<tr><td>4</td><td>19-22</td><td>22</td></tr>
<tr><td>5</td><td>23-26</td><td>26</td></tr>
<tr><td>6</td><td>27-30</td><td>30</td></tr>
</table>

<u>Note</u>: If there is no spacer size matching the measured inner gap - use the next in size spacer (a longer spacer and not a shorter one)</td><td></td></tr>
</table>

Step	Description	Details
9.	Reopen the fastening nut and insert the chosen spacer, based on the measured inner gap. Please ensure that the spacer is assembled, where its inclined side should match to the ring inclined surface, while attaching the step to the clamp as shown Fasten the locking mechanism nut (with Spacer) using torque of 14 N/m [10lb-ft], while another technician tapping the ring all along the circumference with a mallet, verifying alignment of the secured Dome and Radome Base, as was done on the previous stage, without the spacer. **IMPORTANT: Please make sure once the fastening is complete, that the spacer is tightly held between the ring ends and cannot be moved or rolled manually.**	   

Step	Description	Details
10.	Using a 1/2” or 13mm metric open-end key, hold the locking mechanism fastening nut, in order for it not to move, and fasten the securing (outer) nut using a torque of 14N/m [10lb-ft].	
11.	Install and lock the safety pin on the locking lever.