Installation Instructions

ValuLine® VHLP3 Antennas

COMMSCOPE®

Bulletin 7706805 page 1 of 14

Version 10 Status RE Rev L Model Version 01 Status RE Rev Y

Installation Safety & Equipment



IMPORTANT! READ MANUALS FULLY BEFORE UNPACKING, ASSEMBLING & INSTALLING ANTENNA

SERVICE PERSONNEL

Installation, maintenance or removal of equipment must be carried out by authorized personnel having the appropriate technical training, education and experience necessary to be cognizant of hazards during installation and service, and of measures to minimize any danger to themselves or any other person.

SAFETY REGULATIONS

Always use mandatory local safety regulations, instructions in this manual shall be used as a supplement to the local regulations. In case of conflict between the safety instructions in this manual and local safety regulations, the local mandatory safety regulations shall prevail. CommScope will not accept responsibility for accidents resulting from non-compliance to regulations

INSTALLATION HARDWARE

Do not use any components (for example screws and nuts) other than those enclosed with the equipment or recommended by CommScope.

Use protective wear to avoid skin contact with conductive grease. Keep away from mouth. Wash thoroughly after use with liberal amounts of liquid soap and rinse with water. Do not store open near food or food substances.

Contents: Oil, clay & zinc dust.

HOISTING & WORKING AT HEIGHTS

Some working areas involve the risk of accidents caused by falling or by falling objects



Use only tested and approved hoisting equipment in accordance with the instructions supplied with the equipment.

- · Appropriately trained personnel must operate the hoisting device.
- Never walk under hoisted loads.

GENERAL MAINTENENCE

• The antenna is designed such that minimal maintenance is required. Equipment should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment to ensure trouble free operation.

CLEANING OF ANTENNA

· If subsequent cleaning of the antenna is required use water and mild detergent.

HARDWARE AND TOOLS

Fastener Torques & Tool Sizes										
Thread	М3	M4	М5	M6	M8	M10	M12	M16	M20	
Stainless Steel Hardware Torque (Nm ±5%)	1.0	2.2	4.5	7.7	19	38	-	-	-	
Galvanised Steel Hardware Torque (Nm ±5%)	-	-	-	-	-	38	60	95	185	
Brass Hardware Torque (Nm ±5%)	-	-	-	-	-	-	-	-	95	
Spanner and Sockets (mm A/F)	5.5	7	8	10	13	17	19	24	30	

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Bulletin 7706805 page 2 of 14 Version 10 Status RE Rev L Model Version 01 Status RE Rev Y

OVERVIEW



This instruction describes how to assemble a VHLP(X)3 antenna.

The antenna can be mounted with the mount offset to the left or to the right. Offset left is described in this bulletin, however the images showing offset right installation are shown at the end of this document.

EQUIPMENT

ltem	Qty	Description	Contained in Kit Part No
Α	1	Reflector	
В	4	Radome Rim	
С	1	Radome	
D	1	Feed	VF-3-FR-14
D1	1	Feed Installation Kit	
E	1	Mount: Elevation Adjustment Assembly	7679156
F	1	Mount: Azimuth Adjustment Clamp	7671897
G		Mount Hardware Kit	7700025
	1	Conductive Grease (Tube)	
	2	Gloves	
G1			
	2	M10 x 100lg Hex Hd Screw, sst, pass	
	4	M10 Flat Washer, stl, sst, pass	
	2	M10 Lock Washer, sst, pass	
	2	M10 Hex Nut, stl, sst, pass	
G2			
	1	M10 x 35lg Hex Hd Screw, stl, galv	
	1	M10 Lock Washer, stl, galv	
	2	M10 Flat Washer, stl, galv	
G3			
	1	M10 x 140lg Eyebolt, stl, galv	
	2	M10 Lock Washer, stl, galv	
	2	M10 Flat washer, stl, galv	
	2	M10 Hex Nut, stl, galv	
G4			
	1	Pipe Clamp, stl, galv	
	4	M10 x 130lg Hex Hd Screw, stl, galv	
	4	M10 Lock Washer, stl, galv	
	4	M10 Hex Nut, stl, galv	
G5			
	2	M10 x 35lg Hex Hd Screw, sst, pass	
	2	M10 Lock Washer, sst, pass	
	2	M10 FlatWasher, sst, pass	
G6			
	1	M10 x 50lg Hex Hd Bolt, sst, pass	
	1	M10 Lock Washer, sst, pass	
	1	M10 FlatWasher, sst, pass	
Н		Radome Rim Assembly Hardware	7700748
	16	#12 x 16lg Self Tapping Screw, sst, pass	
	16	M6 Lock Washer, sst, pass	
	16	M6 FlatWasher, sst, pass	

Bulletin 7706805 page 4 of 14 Version 10 Status RE Rev L Model Version 01 Status RE Rev Y

EQUIPMENT



















Bulletin 7706805 page 6 of 14 Version 10 Status RE Rev L Model Version 01 Status RE Rev Y



3 Radome attachment and alignment



3 Radome attachment and alignment



4 Mount Attachment and Alignment





Carefully lay antenna on clear, flat ground. Then remove brace and discard fixings. Do not apply excessive weight to antenna assembly.





4 Mount Attachment and Alignment











For installation of Intregration unit see manual: Installing an integrated Dual Polarization Unit to a 0.3m, 0.6m, 0.9m, 1.2m and 1.8m antenna. Fit radio per instructions