

Installation Instructions commscope

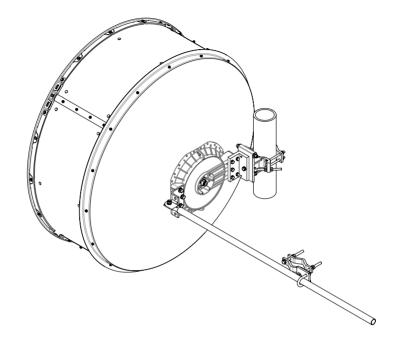


ValuLine™ 4ft (1.2m) Antenna

Bulletin 7835454 page 2 of 17 Version 00 Status RE Rev A Model Version 00 Status RE Rev A

Factory Assembled

This document is for the following: VHLP(X)4-*** 1.2m ANTENNA



SAFETY

ANTENNA INSTALLATION, MAINTENANCE OR REMOVAL MUST BE PERFORMED BY QUALIFIED EXPERIENCED INSTALLER.

It is essential that all appropriate national and local safety regulations be strictly observed to ensure the safety of personnel and to prevent damage to the equipment. CommScope cannot accept responsibility for accidents resulting from non-compliance with such regulations.

The Antenna is designed to attach to a vertical tower pipe of diameter 115mm The mount provides adjustment ranges of $\pm 15^{\circ}$ fine elevation and $\pm 180^{\circ}$ ($\pm 15^{\circ}$ Fine) azimuth.

Always read the entire manual before commencing installation.

WARNING

Do not use any installation components (screws, nuts, etc) other than with the equipment or recommended by the supplier

Andrew Solutions

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CE

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SECTION 1 CONTENTS & INTRODUCTION

LIST OF CONTENTS

SECTION	TITLES
1	INTRODUCTION
2	SAFETY INSTRUCTIONS Including Introduction, Standards, Safety Requirements, Safety Symbols, Definitions and Hazards.
3	EQUIPMENT & TOOLS Including Equipment supplied diagram, Equipment quantities and descriptions. Tools required.
4	UNPACKING Including Unpacking of antenna parts.
5	MOUNT ATTACHMENT AND ALIGNMENT
	Including Basic alignment, Attaching the antenna to the pole, Fitting the mount, Elevation alignment, Azimuth alignment and tightening fasteners instruction.
6	TRANSITION POLARISATION ADJUSTMENT
7	GENERAL INFORMATION Including maintenance and cleaning instructions.

INTRODUCTION

This instruction describes how to unpack and adjust a factory assembled VHLP(X)4 antenna.

Mount to the left of the supporting structure. It can also be configured to mount to right - refer to full antenna assembly instructions on CommScope.com

SAFETY INSTRUCTIONS

INTRODUCTION

This section describes the system used for presenting safety information.



Reduce the risk of accidents by studying all the instructions carefully before you start working.

The safety information in the relevant manuals presupposes that any person performing work on CommScope products or systems has the education, training and competence required to perform the task correctly.

SAFETY REQUIREMENTS

The safety requirements in the following sections must be followed to avoid personal injury and damage to tangible property.

It is the responsibility of the installer to ensure that local regulations and the safety instructions in this manual are known and followed.

SERVICE PERSONNEL

Installation and service must be carried out by authorized personnel having the appropriate technical training 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

Use local safety regulations where these are mandatory. The safety 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 the local safety regulations, the local safety regulations shall prevail if these are mandatory. If the local regulations are not mandatory the safety instructions in this manual shall prevail.

INSTALLATION HARDWARE

Do not use any installation 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.

INSTALLATION PROCEDURES & TOOLS

The installation procedures in this manual must be followed. Make sure that:

- Working instructions are followed.
- Recommended tools are used.
- Adequate safety devices are used.
- The risk of falling and falling objects is known. •
- All hardware is tightened to the torgues specified ±5%. The integrity of the antenna depends an all fasteners being tightened correctly.

ANNUAL INSPECTION

Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

SAFETY SYMBOLS & DEFINITIONS

HOISTING



WARNING!

Falling objects can cause accidents.

- Use only tested and approved hoisting equipment in accordance with the instructions supplied with the equipment. Appropriately trained personnel must operate the hoisting device.
- Always hoist the equipment in the specified hoisting points.
- Never walk under hoisted loads.
- Follow local regulations for safety clothing and safety equipment for hoisting or moving goods.

WORKING AT HEIGHTS



WARNING!

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

Table 1Supplied Equipment and Tools

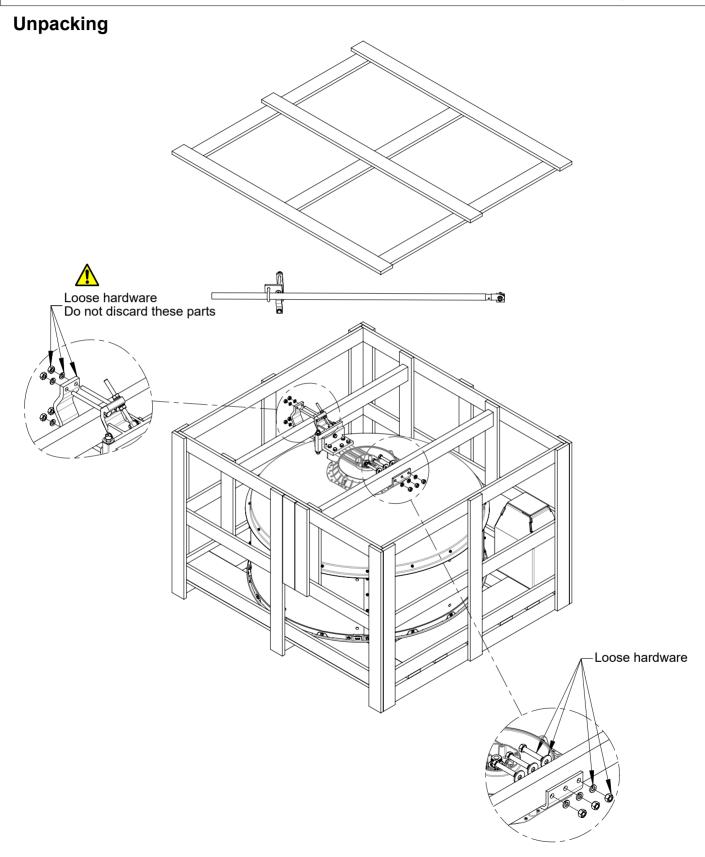
ltem	Qty	Description		
Α	1	Assembled antenna		
В	1	Strut Kit		
С	1	Integration Unit *		
D	1 or 2	Flange Hardware Kit *		

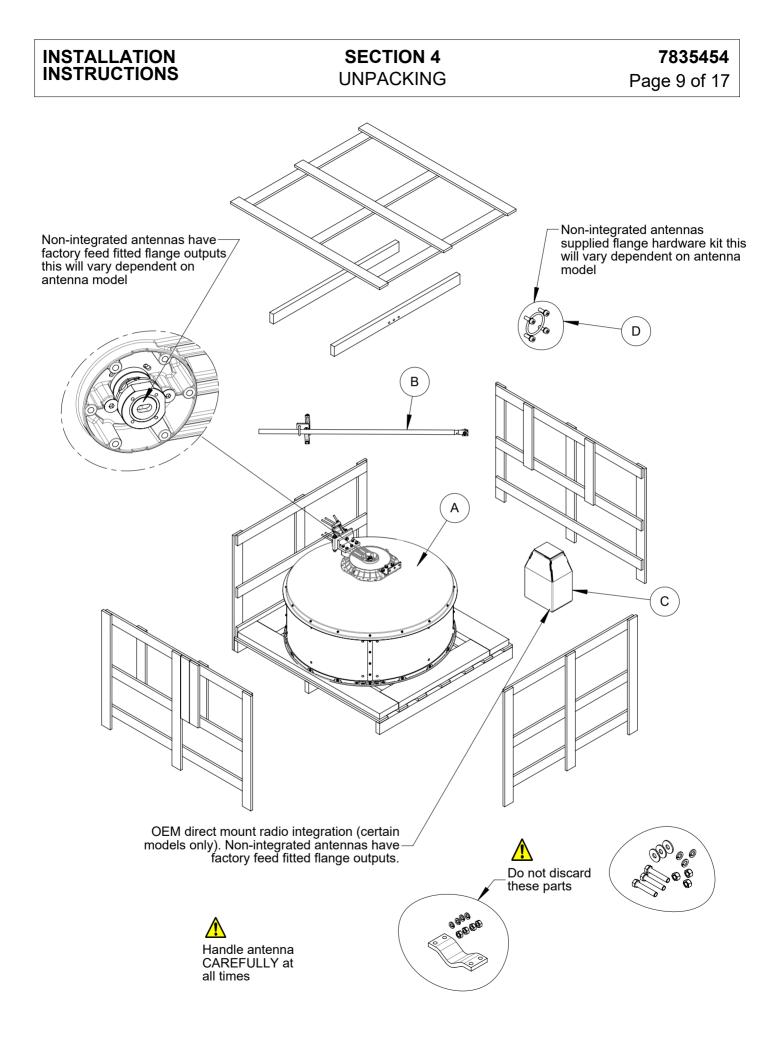
*Either Item C (Integration Unit) or Item D (Flange Hardware Kit) are supplied.

Tools

TOOL REQUIREMENTS

	Bolt Diameter in MM			
Tools Required	M4	M6	M10	M12
Ring and Open spanner (A/F)		10mm	17mm	19mm
Torque Wrench	2.5 - 95Nm			
Sockets (A/F)		10mm	17mm	19mm
Allen Key (A/F)	3mm		8mm	

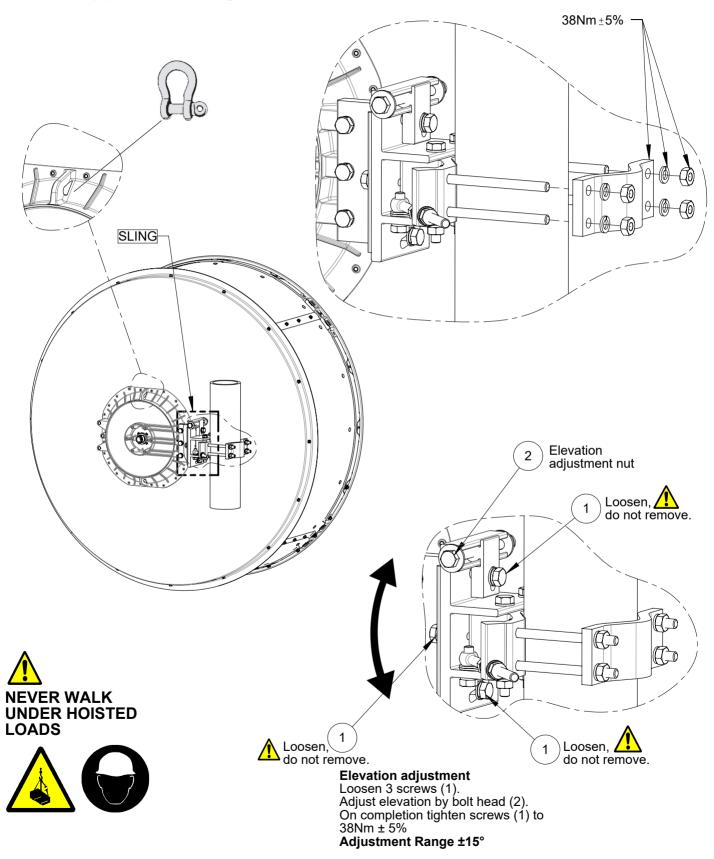


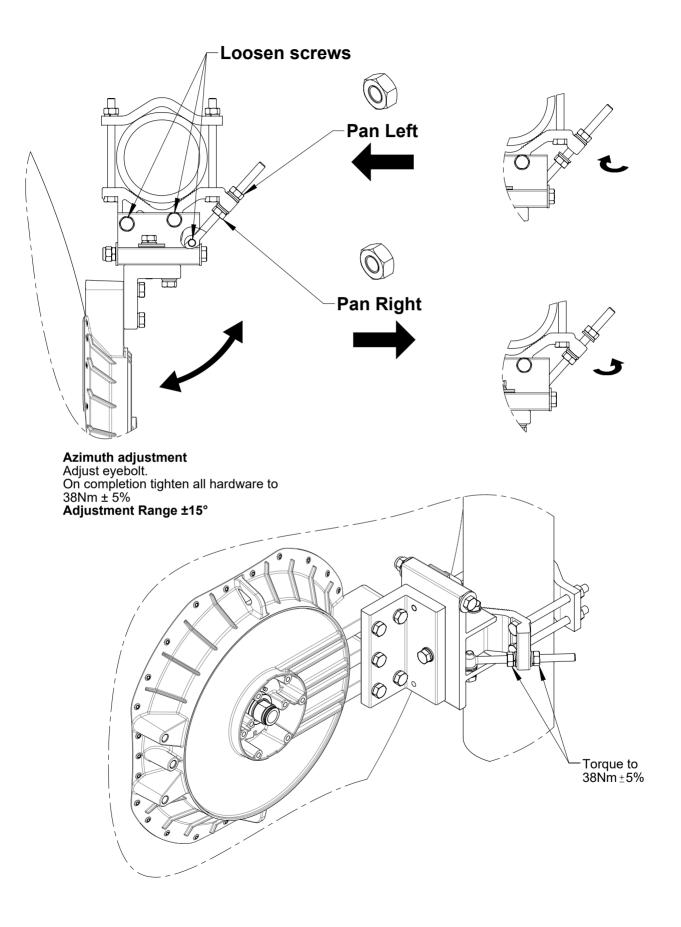


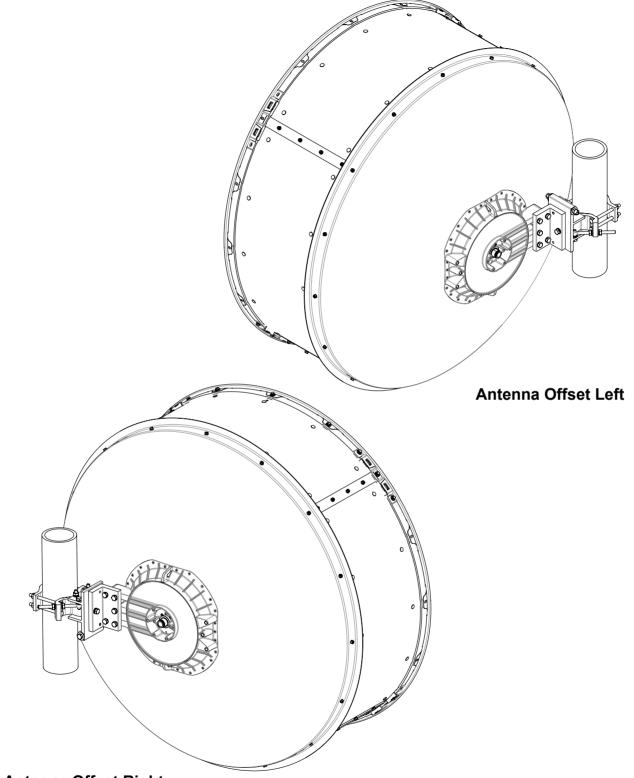




Where required, fit radio integration unit at this stage - refer to instructions supplied with integration unit.

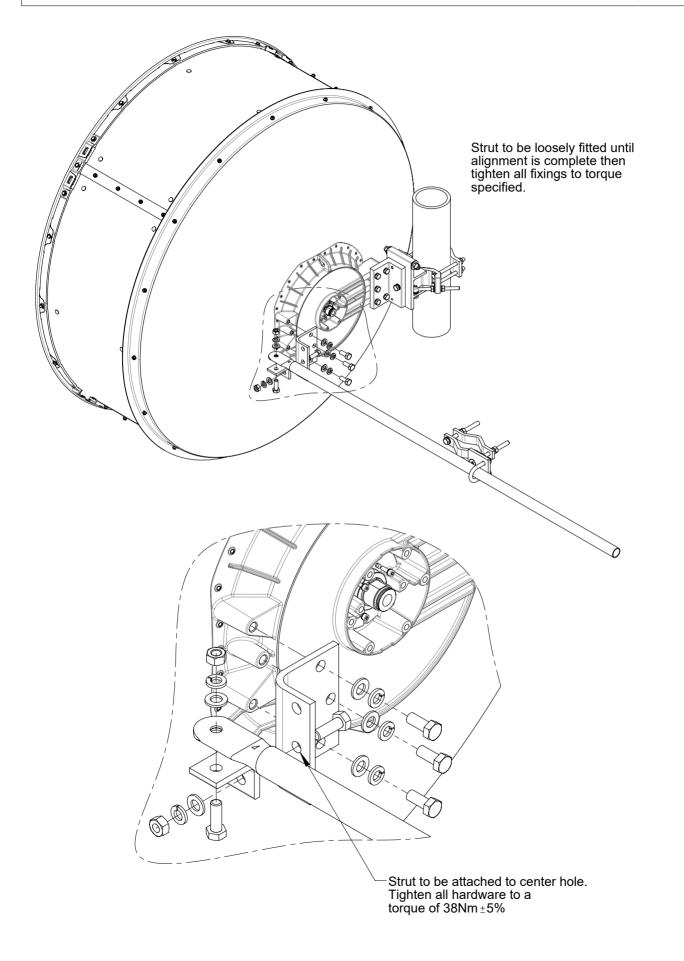


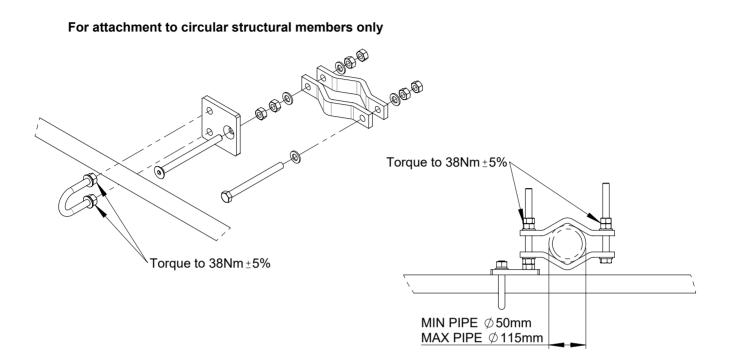




Antenna Offset Right

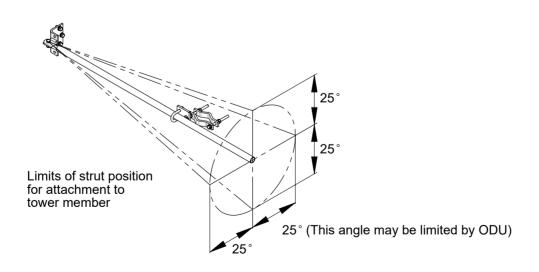
Refer to full antenna assembly instructions on www.commscope.com for details on how to switch mount offset





Struts must be attached to a circular structural member capable of supporting 2704N in line with TIA-222.

The maximum allowable relative deflection between the antenna mounting pipe and the strut attachment point must be less than 2mm at the survival wind speed of the antenna.

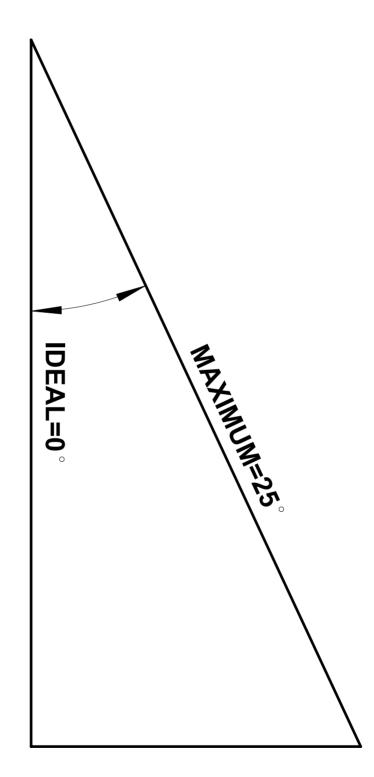


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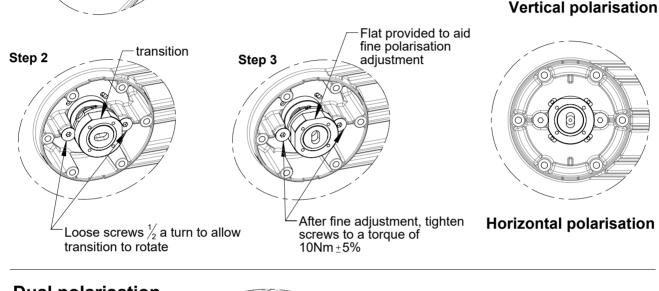
- •
- Image shown is intended as a guide for strut alignment Strut must be attached to an appropriate, structural mounting point
- Strut angle must not exceed maximum specified

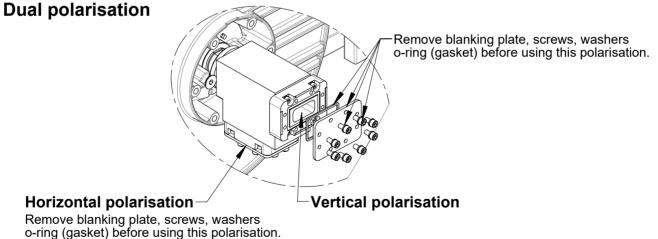
INSTALLATION INSTRUCTIONS

Failure to install the strut as instructed may result in mechanical failure of the antenna



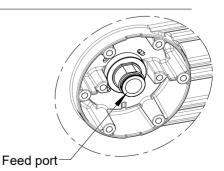
INSTALLATION INSTRUCTIONS SECTION 6 TRANSITION POLARISATION ADJUSTMENT Page 16 of 17 Page 16 of 17 Single polarisation Step 1 Remove blanking plate, screws, washers o-ring (gasket)





For OEM direct mount radio integration installation of integration unit see separated INSTALLATION INSTRUCTIONS

Prior to assembly of integration unit, remove any tape or protective cap from feed port



7 General Information

7.1 General maintenance

The antenna is designed such that minimal maintenance is required. Other than strong wind conditions the unit is not subject to abnormal forces and regular inspection and maintenance should ensure trouble free operation.

7.2 Cleaning of Antenna

If subsequent cleaning of the antenna is required solvent based solutions must not be used.