

Dual Axis Navigator Mount



Dual Axis Navigator Mount User's Manual

VS-MNT-DA

MAN-VS-MNT-DA_REV002

Specifications are subject to change without notice

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Warranty

Seller warrants the items ordered hereunder at the time of shipment to be free from defects in material, workmanship, and to conform to the contract specification. Seller's liability under this Warranty shall terminate one (1) year after date of shipment of order. Some individual products include extended warranties as stated in brochure(s) and extended warranties may be purchased as requested and quoted. Written notice of any defects shall be given Seller upon discovery and Seller shall promptly correct such defects by repair or replacement, at its option, without charge, either FCA Seller's plant or service in the field. After the warranty period stated herein has expired, some manufacturer's and/or licensor's warranties may still be in effect, and the Purchaser shall look solely to such manufacturer and/or licensor for warranty repair.

IN NO EVENT SHALL SELLER'S LIABILITY UNDER THIS WARRANTY EXCEED THE COST OF REPAIR OR REPLACEMENT OF SUCH DEFECTIVE ITEM AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES.

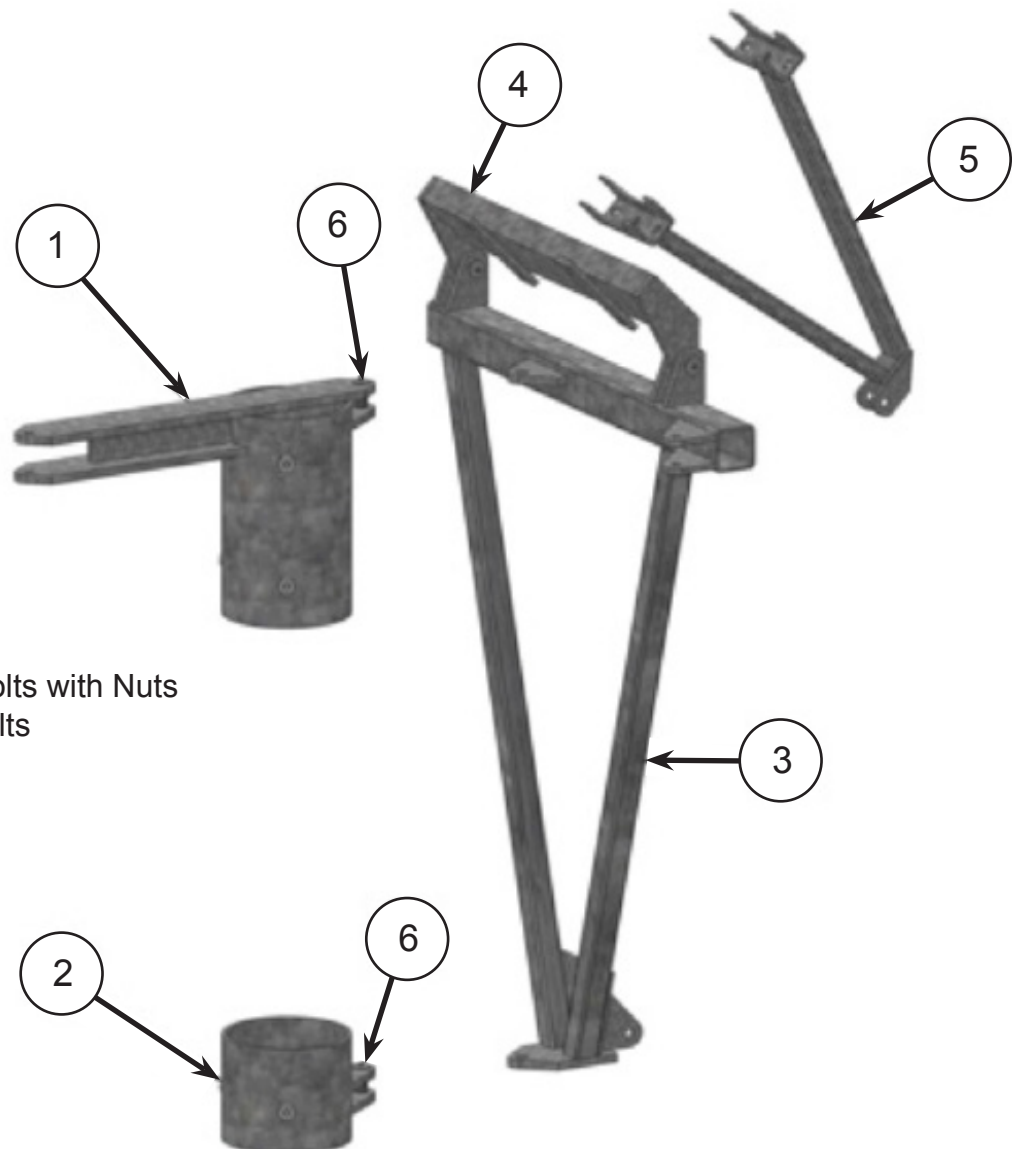
Specifically excluded from this Warranty are:

- a. Defects or nonconformance caused by and resulting from improper operation, maintenance, or storage of the equipment.
- b. Items of characteristically indeterminate life, such as bulbs, fuses, etc.

THIS WARRANTY CONSTITUTES SELLER'S SOLE AND EXCLUSIVE LIABILITY HERUNDER AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DEFECTIVE OR NONCONFORMING ITEMS AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS IMPLIED OR STATUTORY (INCLUDING THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE).

PARTS LIST

Item Number	Part Number	Description	Quantity
1	11008	Pipe Top Assembly	1
2	11014	Pipe Collar Assembly	1
3	11016	Yoke Assembly	1
4	11026	EL Axis Channel Assembly	1
5	11001	Jack-Hub Bracket Assembly	1
6	11032	Axis Pin Assembly	4

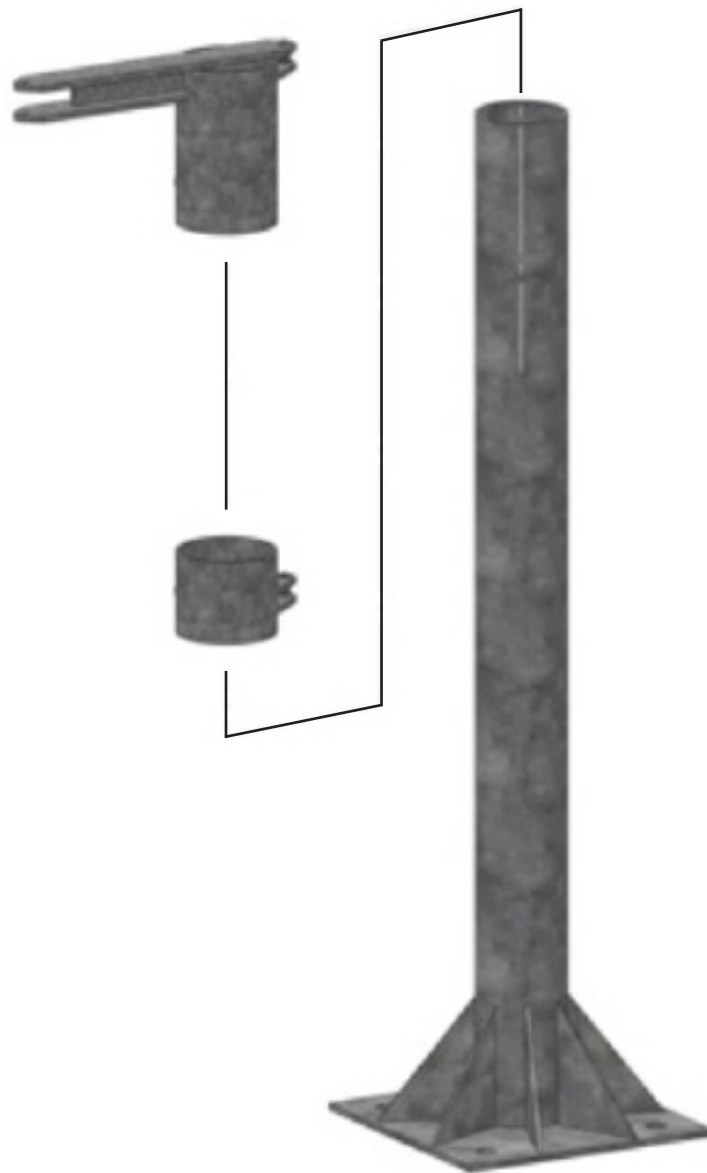


HARDWARE KIT

- (2) 4 in. x 5 1/2 in. U-Bolts with Nuts
- (2) 1/2 in. x 3 1/2 in. Bolts
- (2) 1/2 in. x 3 in. Bolts
- (10) 1/2 in. Washers
- (6) 1/2 in. Lockwashers

1. ASSEMBLY

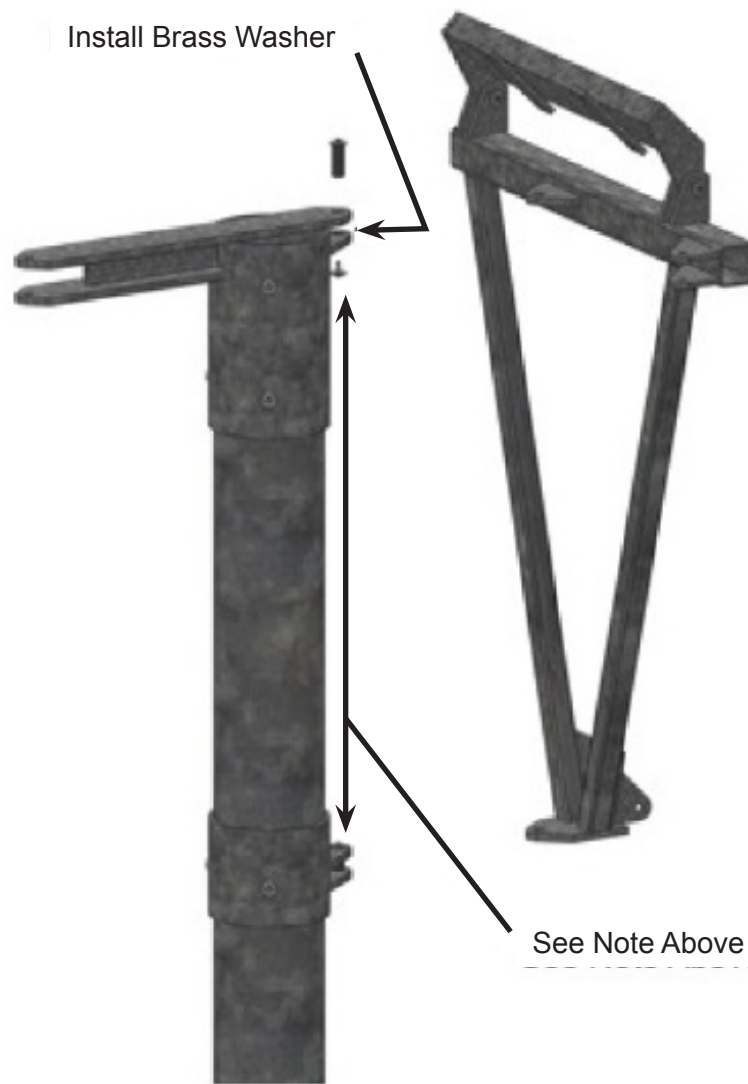
1. Slide the Lower Pipe Collar onto the mast pipe (not provided). Temporarily snug one 1/2 in. Bolt to hold collar approximately 44 in. down from the top of the pipe.
2. Slide the Pipe Top Assembly onto the mast pipe. Snug hardware with the mount pointed roughly in a due south direction (due north for southern hemisphere sites).



3. Remove one of the #10-24 socket head cap screws and fender washers from the pre-assembly axis pins on both the Lower Pipe Collar and the Pipe Top Assembly and remove the pins so that the Yoke Assembly may be mated with both.

4. Assemble the Yoke as shown by aligning the axis holes and re-inserting the pins removed in Step 3. Replace the pins and tighten the #10-24 screws to secure the axis pins. Tighten the hardware to the mast pipe enough to hold heading position for reflector assembly.

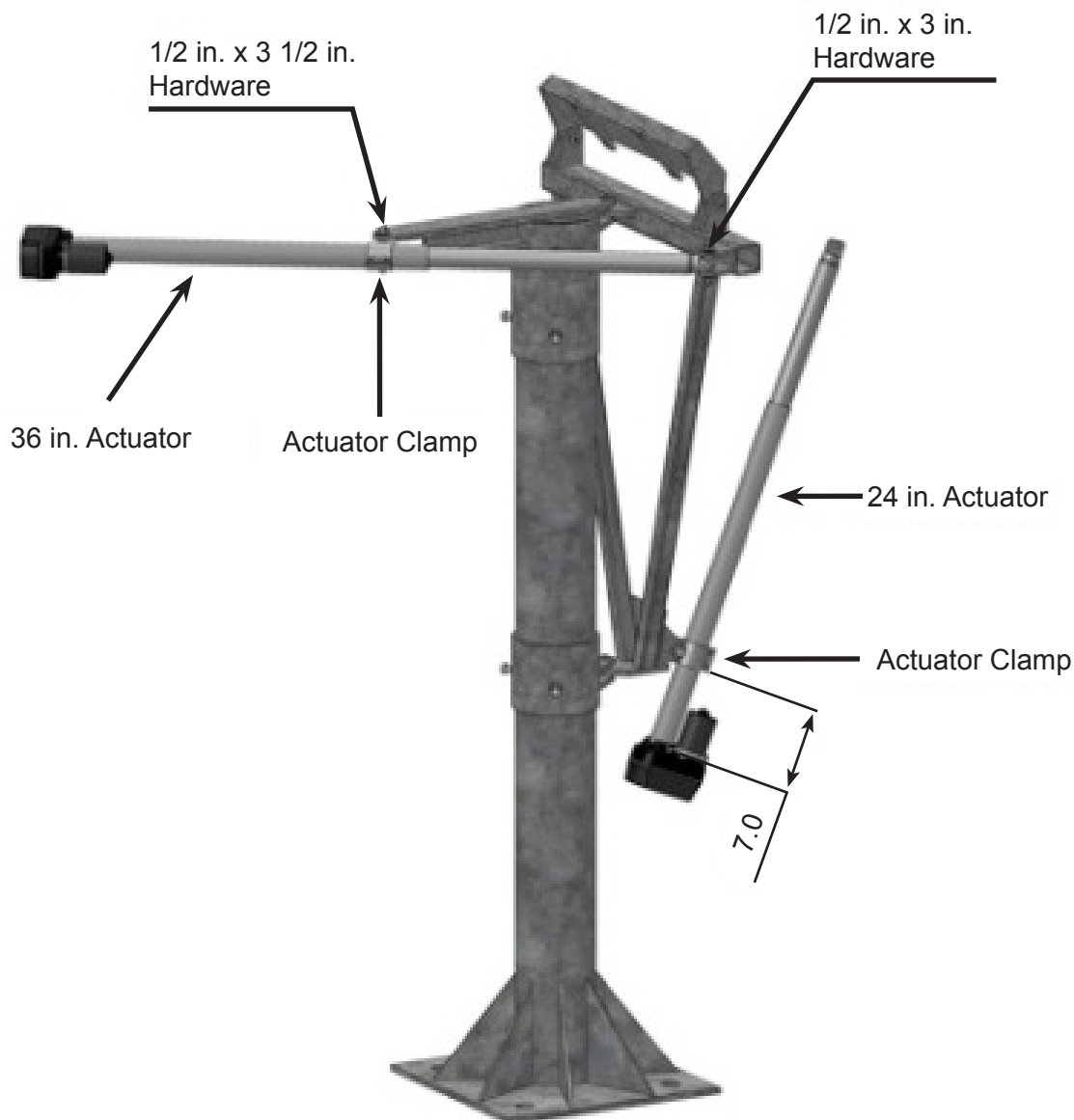
Note: Visually align the axis as close as possible in order to ensure that there will be no binding throughout the Azimuth range of motion.



5. Attach the 24 in. Elevation Actuator to the Yoke as shown using (1) 1/2 in. x 3 1/2 in. Bolt, (2) Washers, Lockwasher, Nut, and Actuator Clamp.

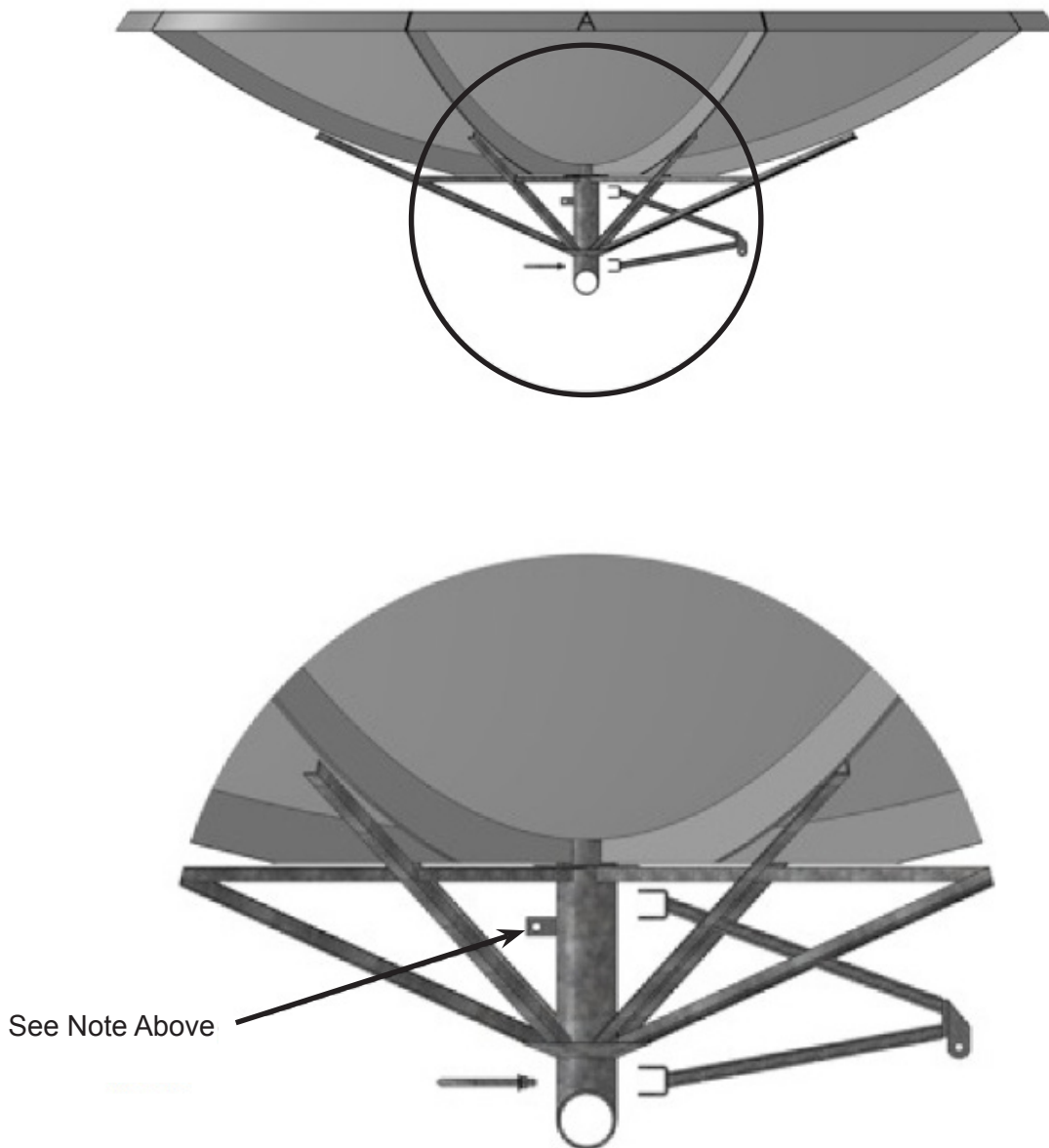
Note: Adjust and tighten the Actuator Clamp approximately 7 in. from the end as shown. This will enable a range of motion from approximately 7° Elevation to 70°.

6. Attach the 36 in. Azimuth Actuator using (1) 1/2 in. x 3 in. Bolt, (2) Washers, Lockwasher, and Nut for the end of the Actuator, and (1) 1/2 in. x 3 1/2 in. Bolt, (2) Washers, Lockwasher, Nut, and Actuator Clamp.



7. Next, attach the Jack-Hub Bracket Assembly to the center pipe of the Reflector Hub as shown using the (2) 4 in. U-Bolts. Use (2) 1/2 in. Flat Washers and Lockwashers per U-Bolt. Leave the Nuts snug, but plan to precisely position the Bracket later.

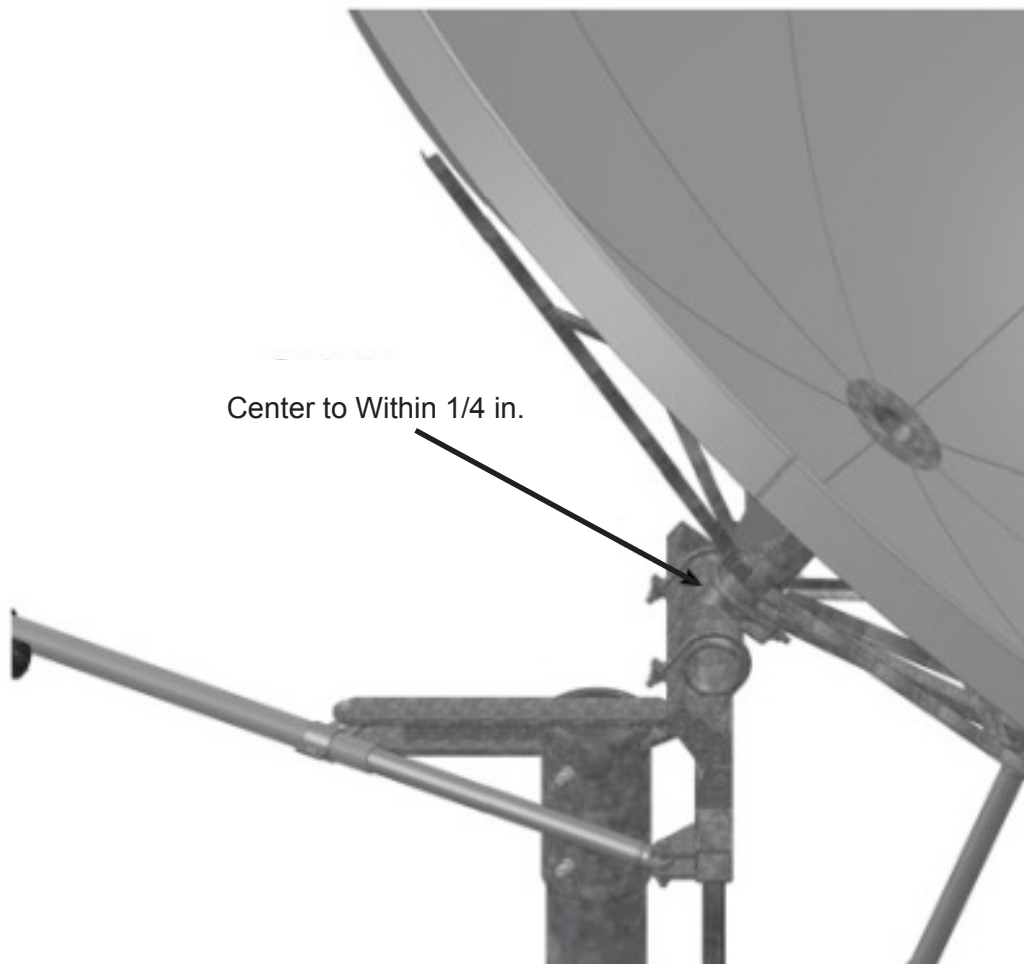
Note: Orient the turnbuckle tab 180° away from the section opening for the Bracket.



8. Assemble the Reflector to the Dual Axis Mount. Nest the Cross-Tube of the Reflector Hub into the channel as shown. Use the (2) 4 in. x 6 in. U-Bolts, Washers, LW, and Nuts provided with the Prodelin Antenna. Tighten the hardware to approximately 45 ft./lbs..

Center the Tube within 1/4 in. of the center of the channel. Check the alignment of the Jack-Hub Bracket. It should be vertically plumb when the dish is pointed to the horizon. Tighten the U-Bolt hardware to approximately 45 ft./lbs..

9. Attach the 24 in. Elevation Actuator end to the Jack-Hub Bracket with 1/2 in. x 3 in. Bolt, (2) Washers, Lockwasher, and Nut.



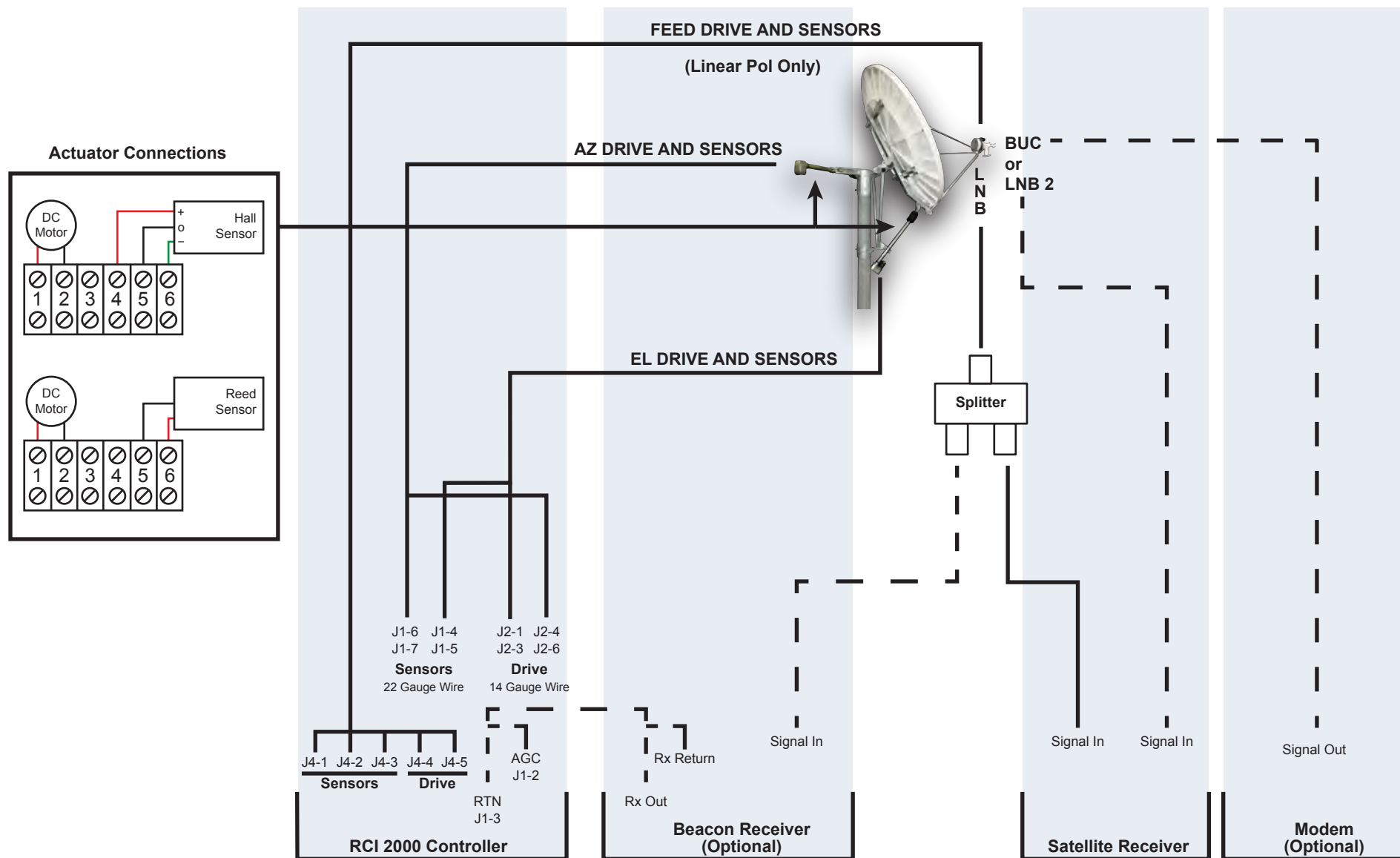
Assembly is now complete. Site-In for the desired satellites can proceed. Azimuth Heading can be oriented as needed so that the range of motion provided by the Actuator can be anywhere between east and west horizons.

Note: For Azimuth, the recommended range of motion should not exceed 120°. This requires approximately 30 in. of Actuator extension. The Actuator provided will have 36 in. of extension, so be sure to set at least software limits with the controller and redundant hard limits if possible (not included).



Viking Satcom Navigator Antenna Wiring Diagram

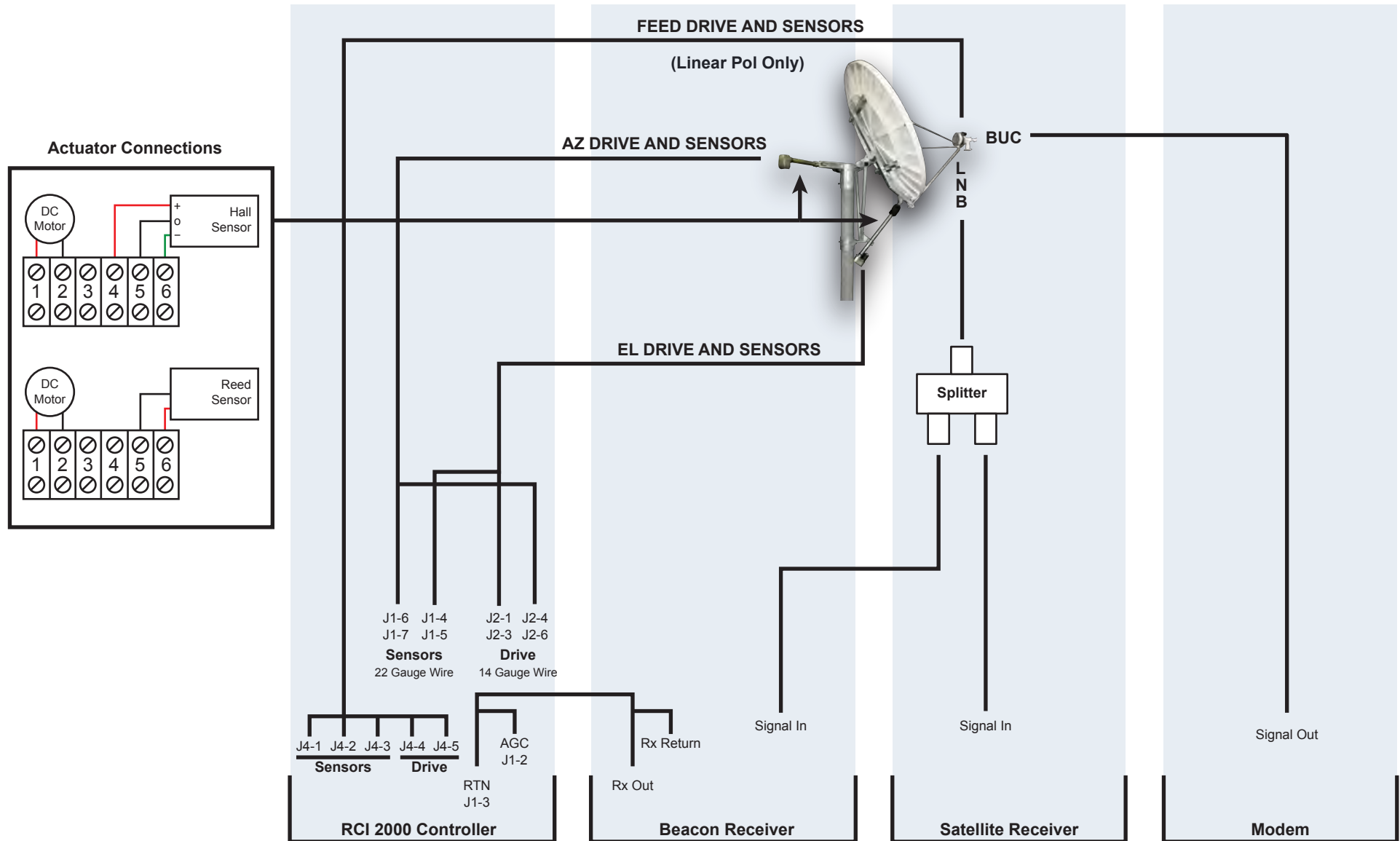
RC2000A Non Tracking Controller



*Diagram based on typical configuration

Viking Satcom Navigator Antenna Inclined Orbit Wiring Diagram

RC2000C Tracking Controller



*Diagram based on typical configuration