

Introduction

These instructions show how to attach a Lufft ultrasonic sensor to the NRG Solar Tower. Consult the documentation from Lufft for information about configuration, wiring, and specs for your specific sensor.

#16105: Parts/BOM

NRG Part Number	Part Description	Part Specification Notes	Qty
14092	Mounting Bracket	0.125" Thickness Stainless	1
14476	Mounting Boom	48" length 6061 Aluminum Sch. 40 1.65" nominal OD	1
14391	Pipe cap	Red PE	2
14099	Clamping U-bolt	1.75" ID Galvanized steel With nuts	4
14232	Clamping U-bolt	3.625" ID Zinc-plated steel With nuts	2
16289	Sensor Mount	12" length 6061 Aluminum Sch. 40 2.875" nominal OD	1
17002	Mounting Bracket	0.125" Thickness Stainless Slotted holes	1
17727	Clamping U-bolt	2.5" ID Zinc-plated steel With nuts	2
17731	Washer	5/16" ID Galvanized	4

Tools



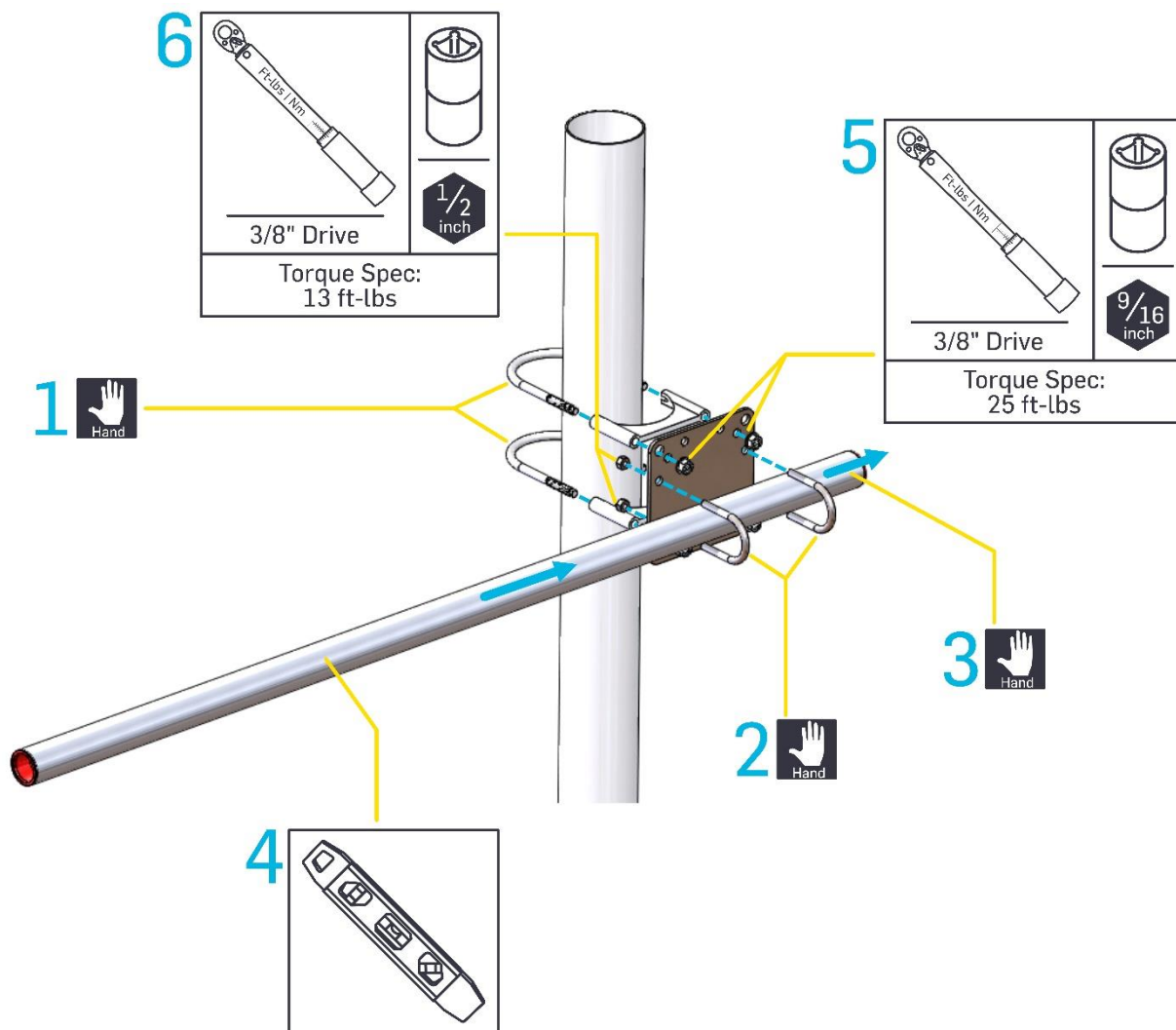


Lufft Boom Solar Tower Kit #16105

Procedures

Attaching Pipe Boom to Solar Tower

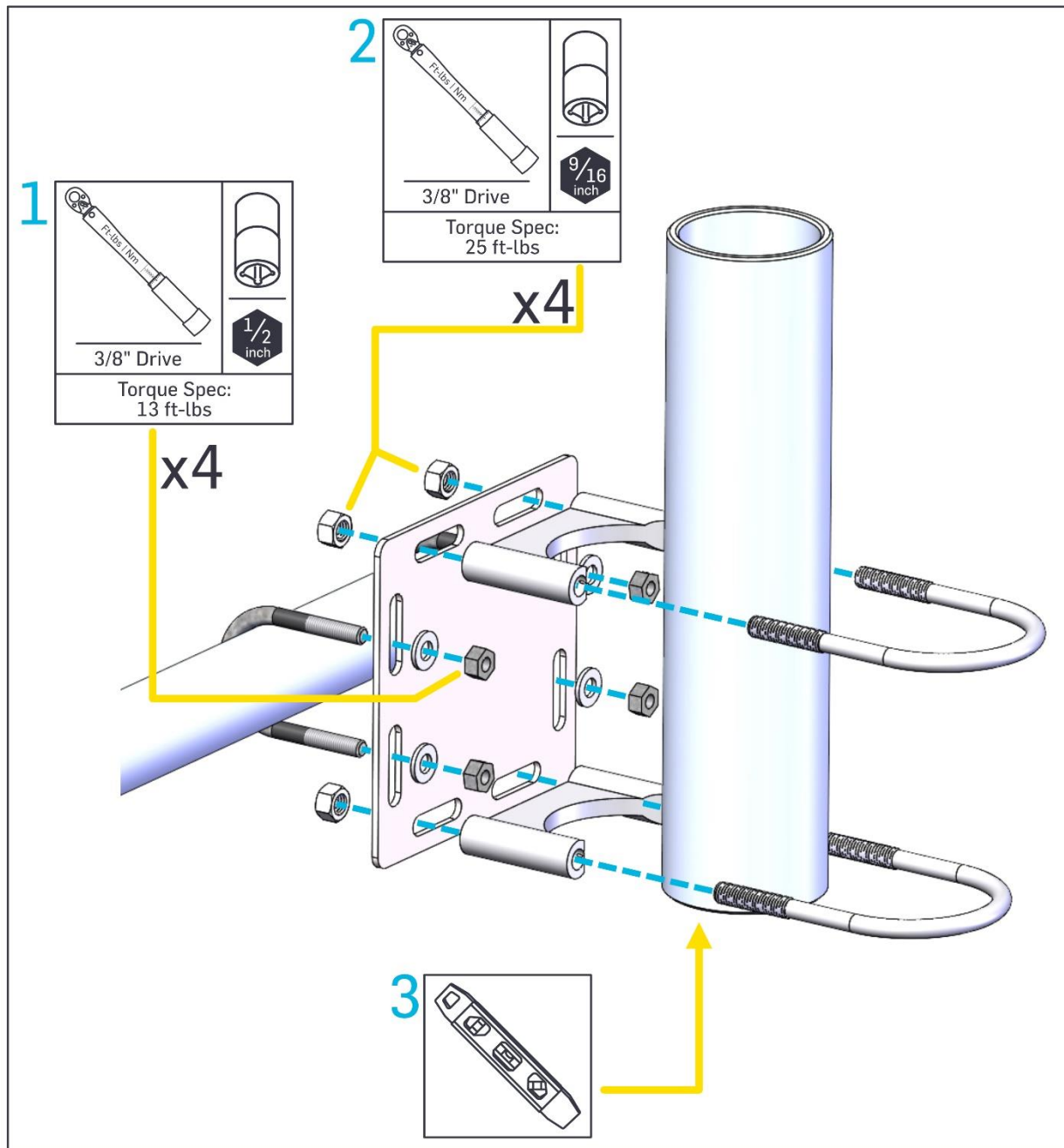
1. Place the #14092 bracket against the tower tube and feed two 3.625" U-bolts around the tower, through the clamping piece, and through the appropriate holes in the bracket.
2. Feed the 1.75" galvanized U-bolts through the appropriate holes in the bracket, from the side opposite of the tower. Thread the galvanized nuts onto the end threads of each U-bolt.
3. Feed the Sch. 40 aluminum pipe through the galvanized U-bolts to the desired location, depending on the intended length of boom on each side of the tower.
4. Orient the boom to your desired heading and level.
5. Torque the 3.625" U-bolt nuts to spec.
6. Torque the 1.75" U-bolt nuts to spec.





Attaching The Mount & Lufft Sensor to Pipe Boom

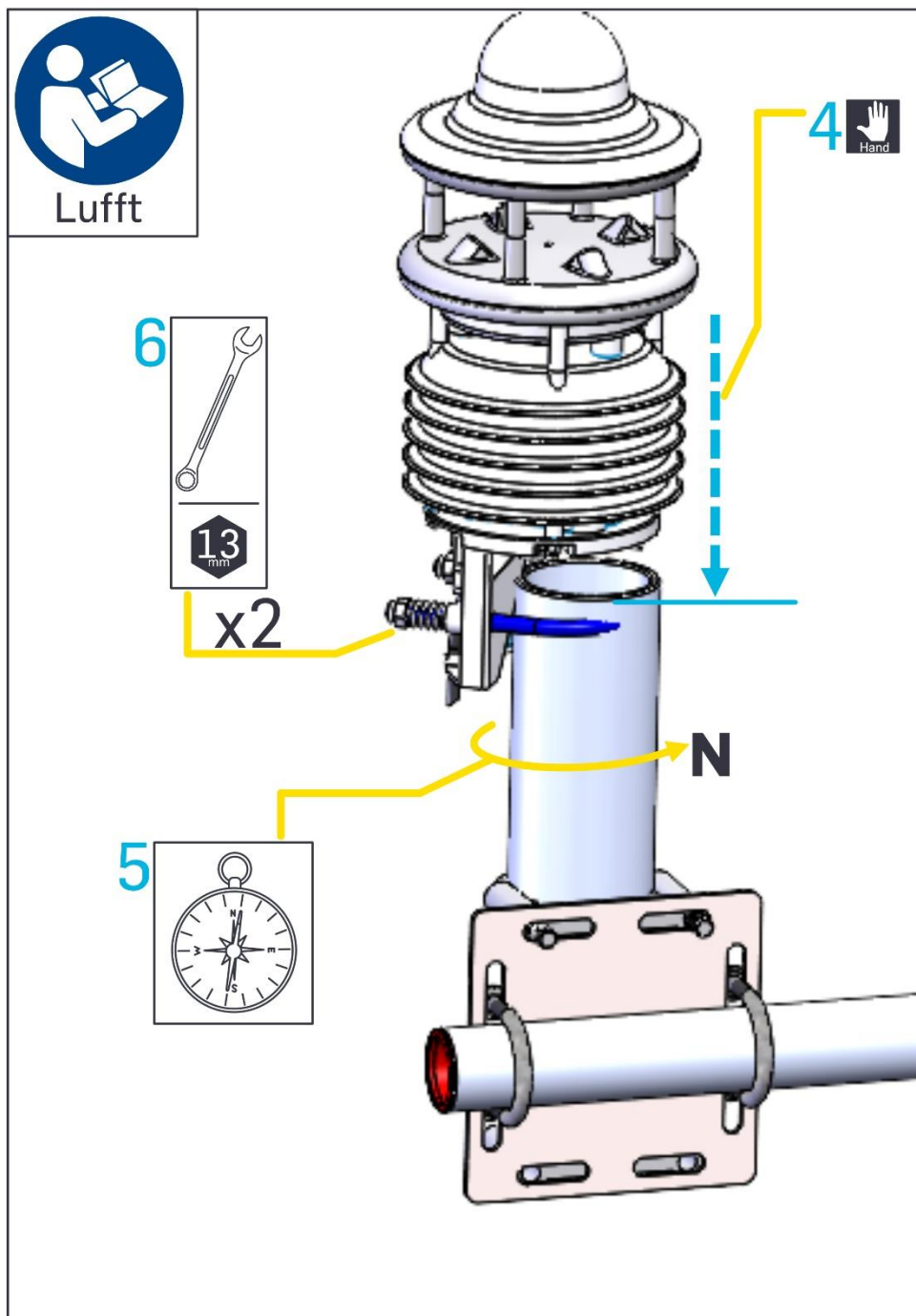
1. Attach the #17002 mounting bracket to the end of the pipe boom using the 1.75" galvanized U-bolts. Torque to spec.
2. Assemble the 4.25" bolts, clamping hardware & nuts to the mounting plate and around the Lufft sensor mounting pipe. Torque to spec.
3. Check that the Lufft sensor mounting pipe is plumb. Adjust & retighten hardware if needed.





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4. Carefully place the Lufft sensor onto the mounting pipe.
5. Rotate the sensor until the North mark faces the proper direction. *
6. Tighten the nuts on the mounting U-bolt to manufacturer's specifications. *



***Note: Consult the corresponding Lufft sensor manual for the location of the North Mark and mounting hardware torque specifications.**