



Pipe Boom System for Solar Applications

Introduction

NRG has developed a simple and effective way to mount PV panels, pyranometers, and other sensors to Solar Towers using tubing, which can easily be sized and/or cut to the desired length.

The following instructions pertain to NRG Part Numbers:

NRG Item 17858: Mounting Boom | Solar, 0.6m (24") Tubular

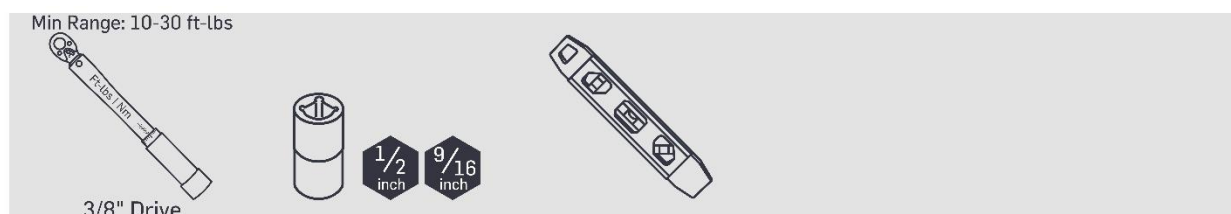
NRG Item 14443: Mounting Boom | Solar, 1.2m (48") Tubular

Parts/BOM

NRG Part Number	Part Description	Part Specification Notes	Quantity
14092	Mounting Bracket	0.17" Thickness Stainless steel	1
14232	Clamping U-bolt	3.625" ID Zinc-plated steel With nuts	2
14099	Clamping U-bolt	1.75" ID Galvanized steel With nuts	2
14394	Pipe boom	6061 Aluminum Sch. 40 1.65" nominal OD	2-8* (per foot)
14391	Pipe cap	Red PE	2

*This tubing (NRG part #14394) is sold by the foot. Certain kits have specific standard lengths already included, but custom lengths can be ordered.

Tools

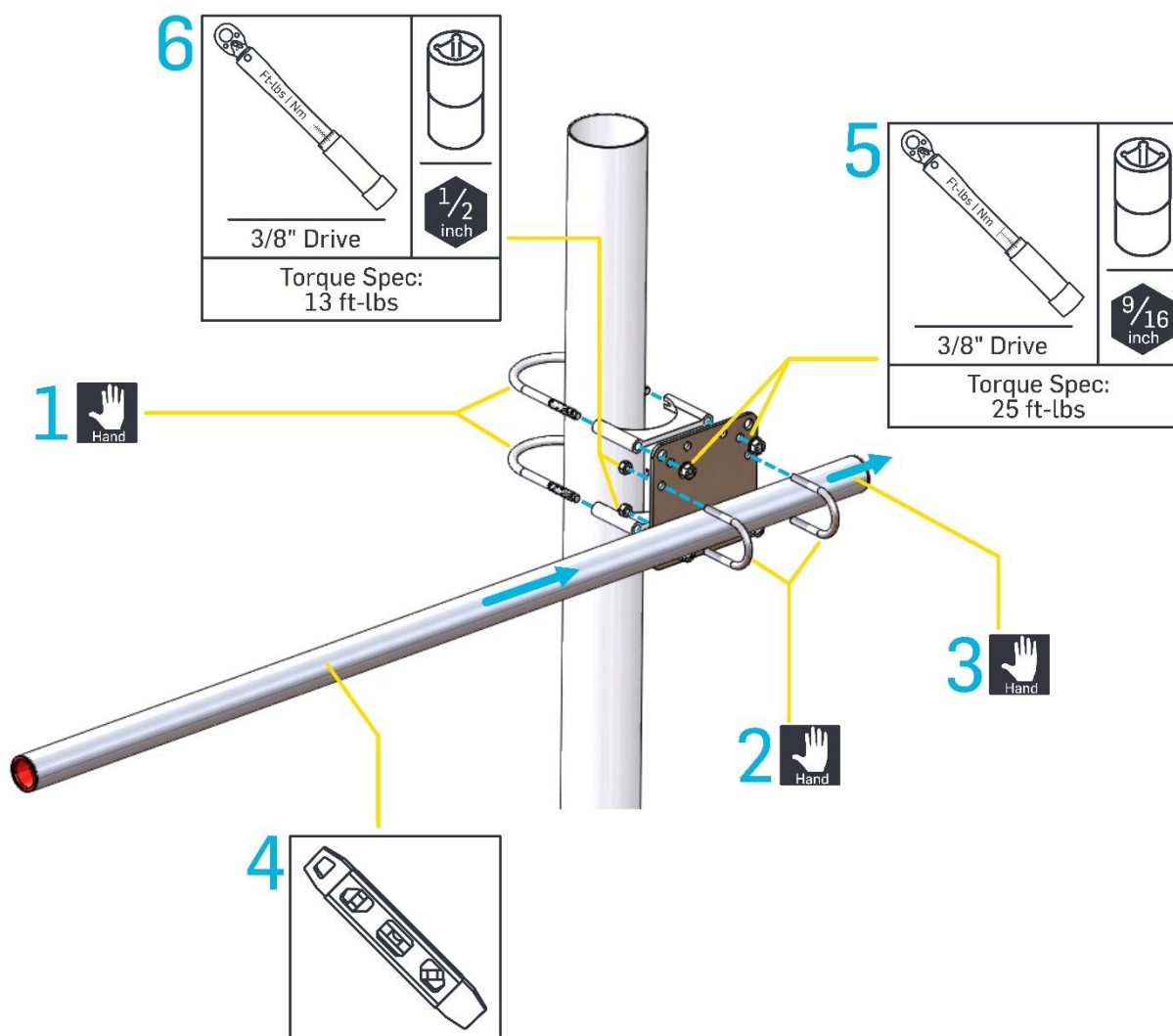




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Procedure

1. Place the 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.



The boom can now be used to mount PV panels, pyranometers, and other sensors to the tower.