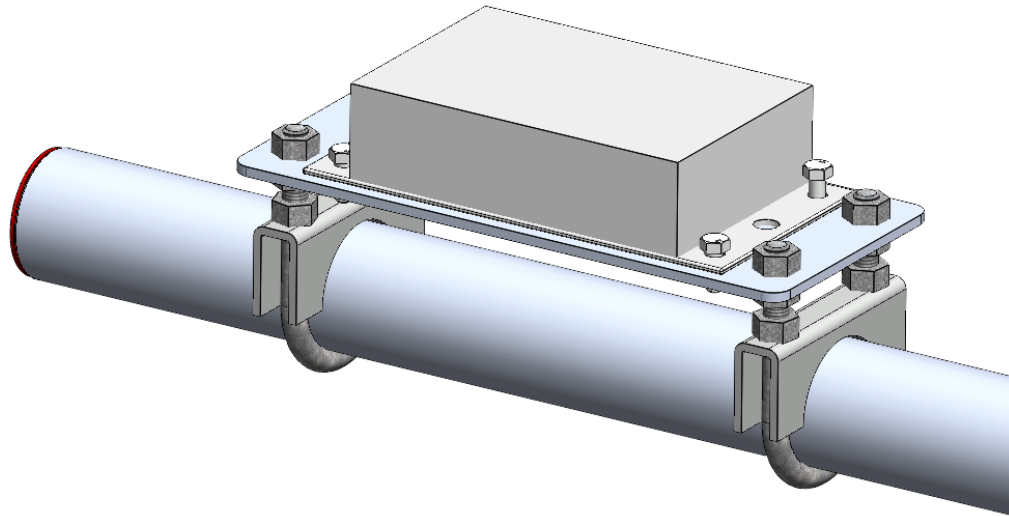




INTRODUCTION

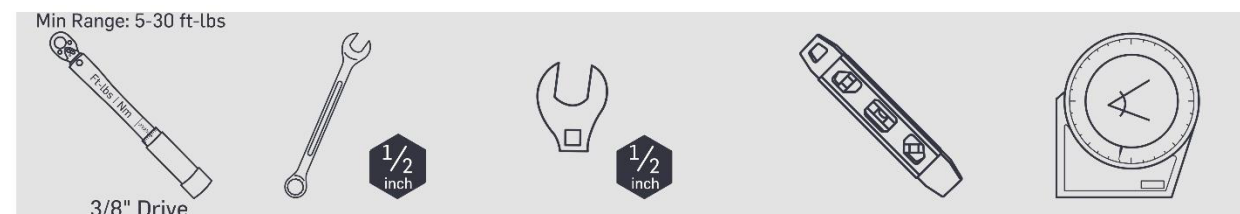
Kit #17763 was designed to mount a reference cell sensor to a 1.66” diameter boom using Mounting Plate #15756 and two U-bolts #14223. It can be installed in an upward facing (GHI) configuration or a downward facing (RHI) position.



#17763: Parts/BOM

NRG Part Number	Part Description	Part Specification Notes	Qty
10194	Cap Screw	Screw, Cap, M5 x .8mm, 14mm Length	5
14223	Clamping U-bolt	1.75 ID, .3125 Thread	2
14356	Nut	.3125-18, Low Strength	4
14407	U-bolt	1.75, Extended	2
14975	Nut	Nut, M5, Stainless, Nylock	5
15756	Reference Cell Plate	Plate, Reference Cell, Boom Mount	1

Tools

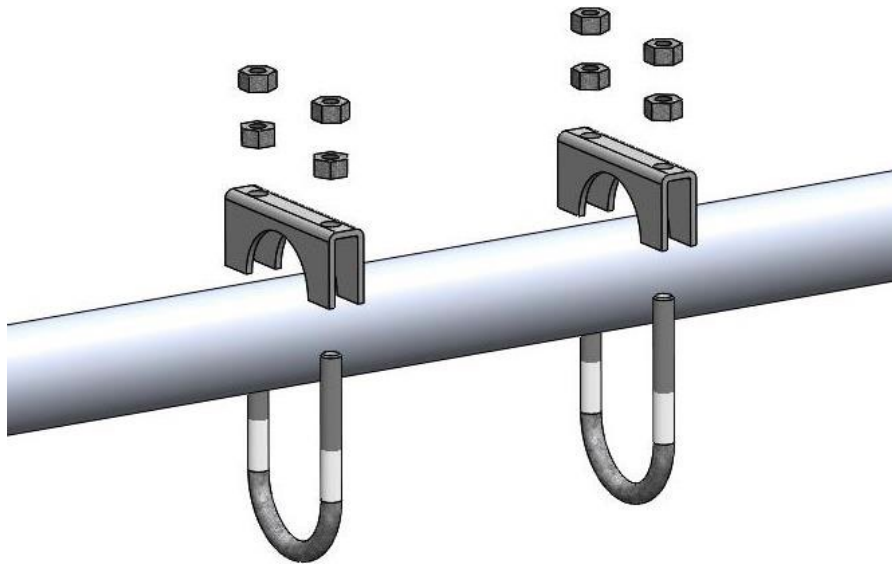


Apply a small amount of anti-sieze to the bolt threads.

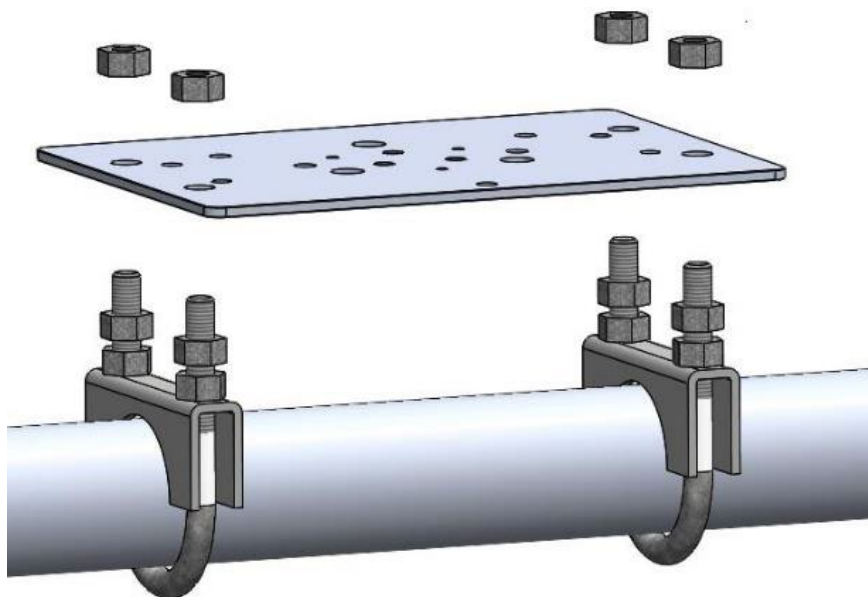


INSTALLATION PROCEDURE

1. Connect the reference cell sensor to the mounting plate by lining up the holes and threading through the M5 screws (#10194) and securing with the M5 nuts on the bottom of the plate (#14975). Be sure not to overtighten.
2. Assemble the pair of clamping U-bolts (#14223 and #14407, plus nuts) around the pipe boom as shown below. Hand-tighten the lower sets of nuts and leave the upper nuts loose.



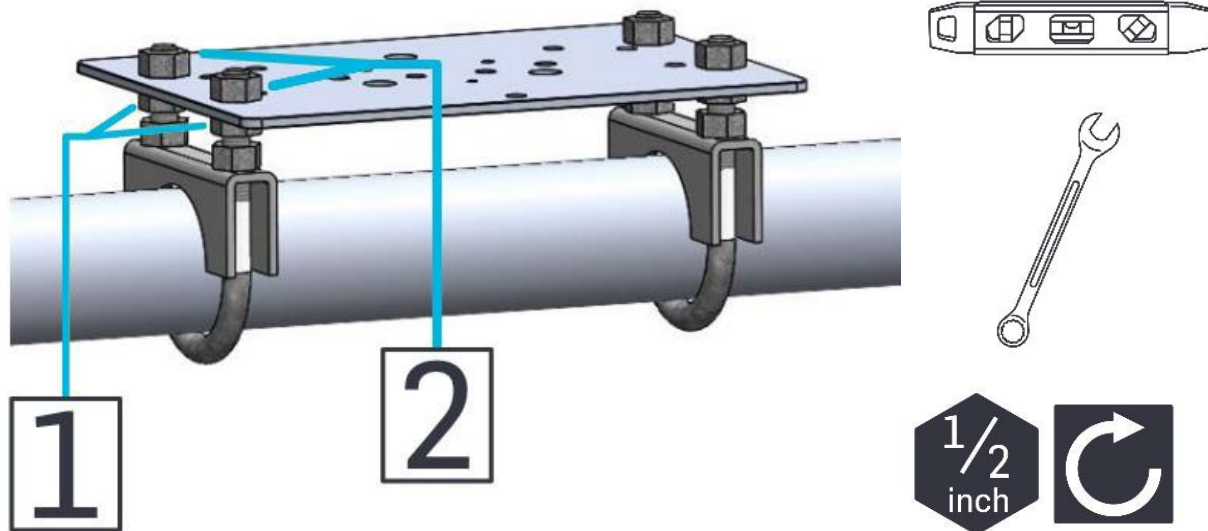
3. Line up the mounting holes on each end of the Reference Cell Mounting Plate with a U-bolt. Place the plate onto the U-bolts and loosely thread on a third set of nuts. Hand tighten.





Solar | Boom Mounted Reference Cell #17763

- Rotate the plate to the desired orientation (upward or downward facing). Use a bubble level to ensure the plate is flat. Secure the plate to the U-bolts by tightening the middle (1) and upper (2) sets of nuts on each U-bolt until the plate is secure. Recheck with a level and adjust if necessary.



- Torque all U-bolt nuts to 13 ft-lbs (17.6 Nm).



- Recheck the angle of the plate after fully securing the assembly. Make adjustments and retorque the hardware if necessary.

Alternative Configuration

This hardware can be used to position a reference cell sensor in the downward facing (RHI) positioning if desired. Follow the same instructions as above, rotating the hardware into position before tightening.

