

WindSensor Boom Brace

Introduction

These instructions will assist you in installing a boom brace on the 60.5" side mounting boom. This brace kit has been designed to work with TallTower tubing of 4.5", 6", 8", or 10" diameter and provides additional stability and support for the WindSensor P2546A anemometer.

The items included are:

- Qty (2) 4334 tower spacer kit
- Qty (2) 4336 braces
- Qty (1) 2703 hose clamp
- Qty (1) 4338 inline adapter kit
- Qty (4) 4342 screws
- Qty (4) 4341 nuts
- Qty (1) 4335 U-clamp

The tools required are:

- 5/16" hex socket bit for drill (for 4342 bolt head) – same one used to tighten the hose clamps
- 3/8" open end wrench, socket or nut driver (for 4341 nut)
- Tape measure
- Optional but nice to have: battery operated drill with clutch

This brace kit has been designed to work with TallTower tubing of 4.5", 6", 8", or 10" diameter. The kit fits differently on each size. Dimension "L" is from the top of the 3750 mounting bracket of the existing boom to the bottom of the 4334 Tower Spacer:

Tube Size	"L"
4-1/2"	26-1/8"
6"	24-3/4"
8"	22"
10"	19"

Installing the Brace

1. Remove contents from box, check against list above to see that everything is there.
2. Study diagram of all parts to see where each one goes.



Figure 1



Figure 2

3. Attach one 4334 Tower Spacer to one 4336 Brace with #10-32 x 1" long hex head bolt and #10-32 nylon lock nut, tighten until there is no more space between those 2 parts but Tower Spacer can still pivot. Repeat. See Figure 1.
4. Thread 2703 hose clamp through slots in both Tower Spacers as shown and attach hose clamp around Tower. Leave loose for adjustment. See Figure 2.



Figure 3



Figure 4

5. Attach U-Clamp to left side brace and install #10-32 Pan Head Screw with #10-32 Nylon Lock nut. See Figure 3.
6. Slide left side brace over existing 3390 boom so that U-clamp gets positioned at middle of 90 degree bend in existing boom. See Figure 4.



Figure 5

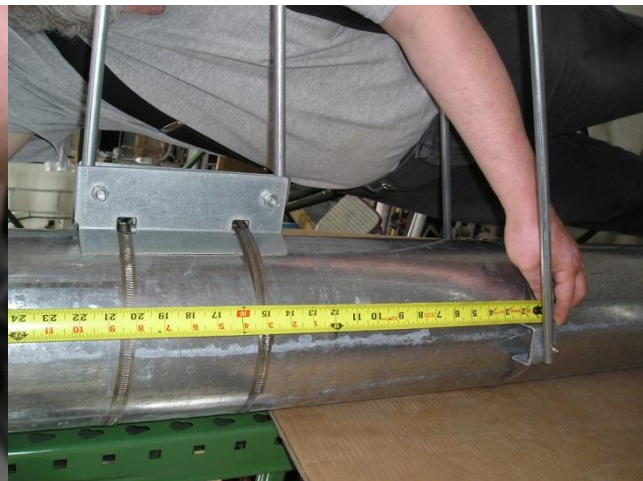
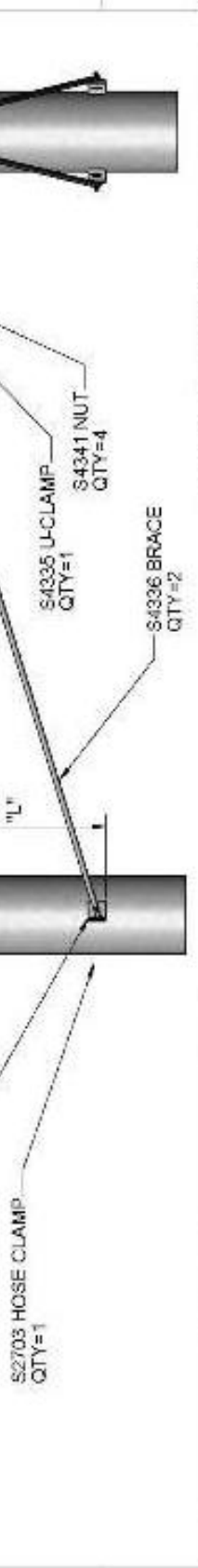
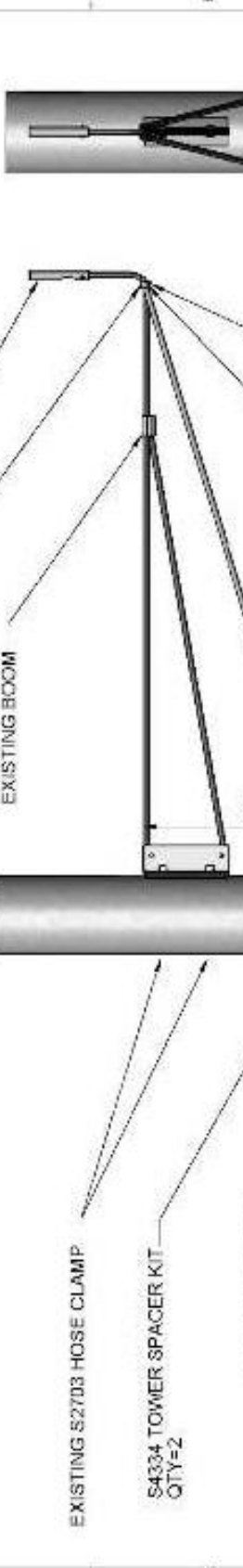
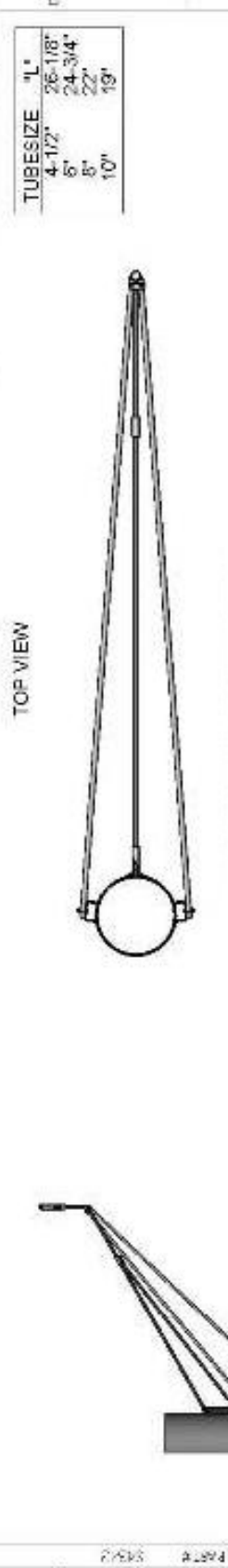


Figure 6

7. Position right side brace into U-clamp and install #10-32 pan head screw and #10-32 nylon lock nut. Tighten both #10-32 nuts to lock U-clamp in place. See Figure 5.
8. With 3390 existing boom level, adjust height of 4334 Tower Spacer pair & hose clamp to correct spacing. Spacing varies depending on Tower tube diameter. See Figure 6.
9. If location of 4334 Tower Spacers interferes with existing guy ring, loosen existing 2703 hose clamps and lower boom placement on tower to avoid guy ring.

REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR FABRICATION	12/15/11	JL	MS
2	REVISED FOR TUBING CHANGE	01/10/12	JL	MS
3	REVISED FOR TUBING CHANGE	01/10/12	JL	MS



TUBESIZE	"L"
4-1/2"	26-1/8"
6"	24-3/4"
8"	22"
10"	19"

ITEM NO.	PART NUMBER	QTY
1	S4334 Spacer/Brace, Steel, Galvanized	2
2	S4337 In-line Adapter for Winches	1
3	S4336 Brace-Steel, Galvanized, 5 inch Tubing	2
4	S4341 Nut-Hex Machine, #10-32 Nylon Lock	4
5	S4342 Screw-Hex Machine, #10-32 x 1	4
6	S4335 U-clamp	1

NRG SYSTEMS
 BRACE ASSEMBLY FOR NRG 60.5" BOOM
 S4343
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