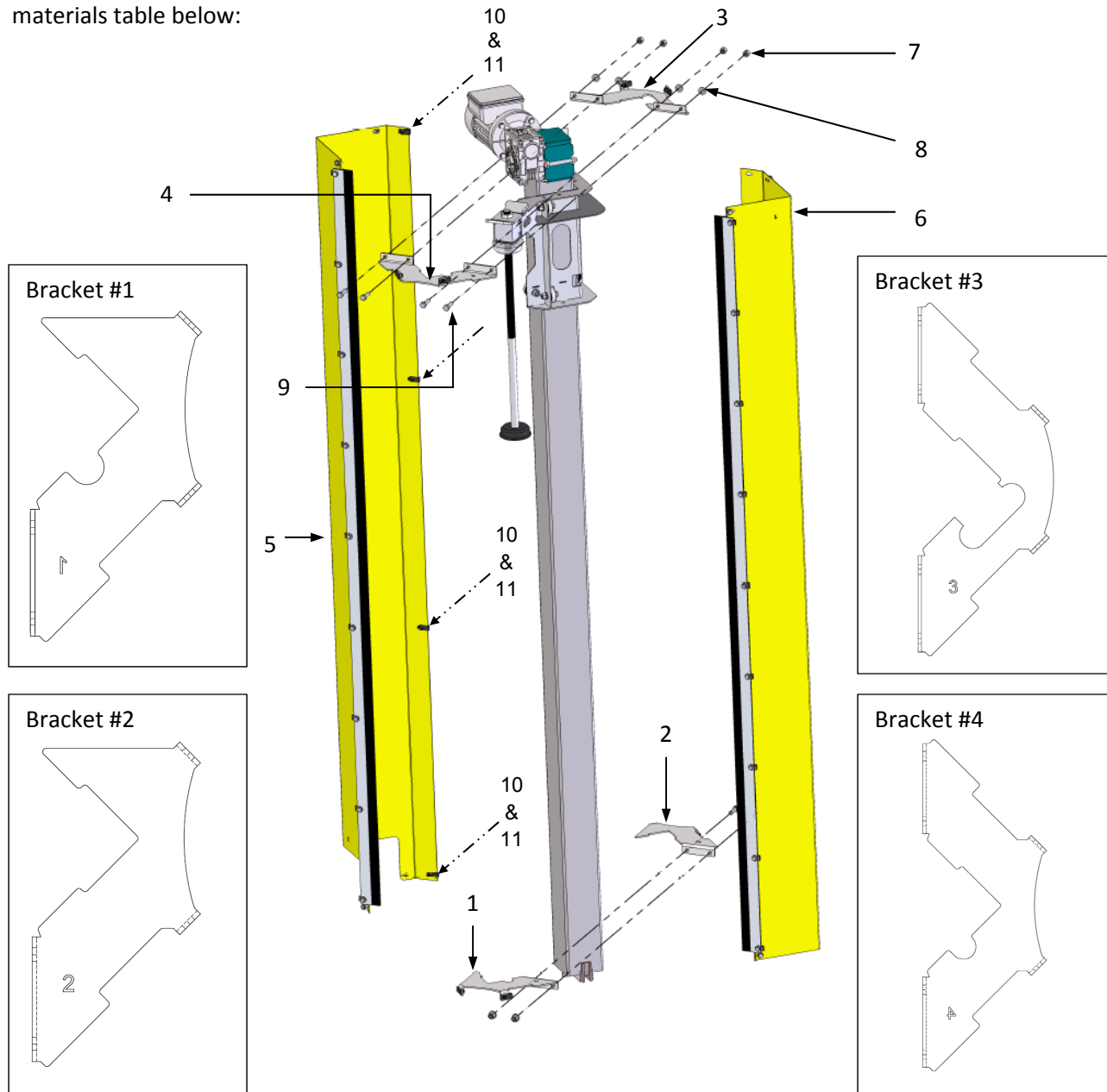


### Chain Guard Installation Instructions:

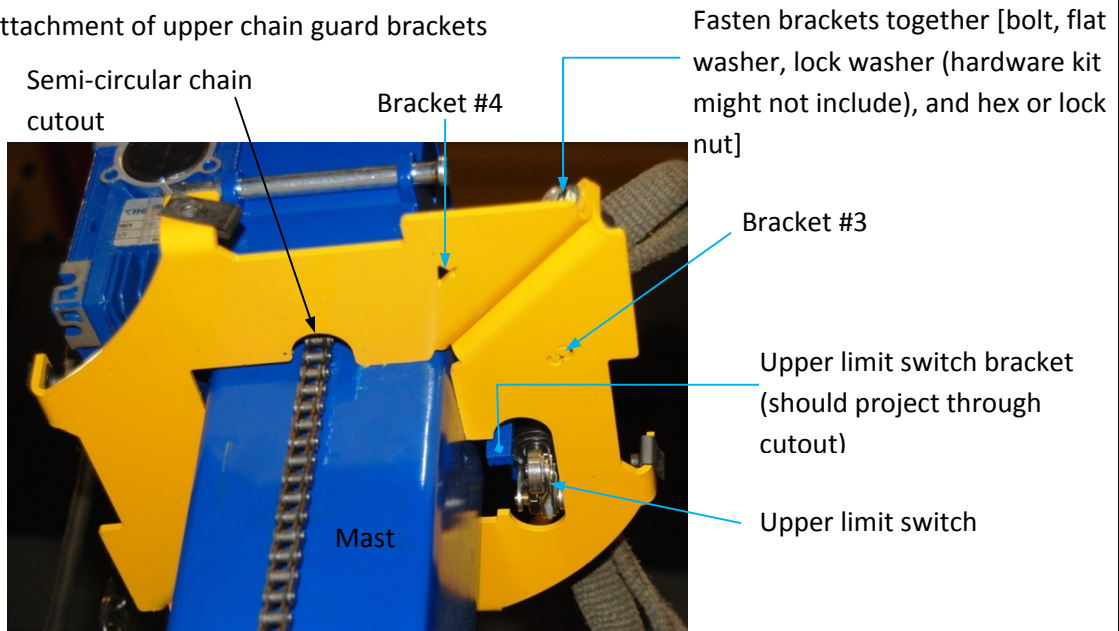
The chain guard consists of 2 guard sections and 4 brackets. To facilitate assembly, each guard and each bracket is identified by a number (cut out of the material) as indicated in the diagram and bill of materials table below:



Item no.	Part no.	Description	Quantity
1	20-016-098	Bracket #1	1
2	20-024-099	Bracket #2	1
3	20-016-100	Bracket #3	1
4	20-016-101	Bracket #4	1
5	20-024-102	Guard #1	1
6	20-016-103	Guard #2	1
7	37024	$\frac{3}{8}$ in. - 16 nut	6
8	33008	$\frac{3}{8}$ in. flat washer	6
9	11107	$\frac{3}{8}$ in. - 16 x 1in. bolt	6
10	11003	$\frac{1}{4}$ in. - 20 x $\frac{3}{4}$ in. bolt	4
11	33004	$\frac{1}{4}$ in. flat washer	4

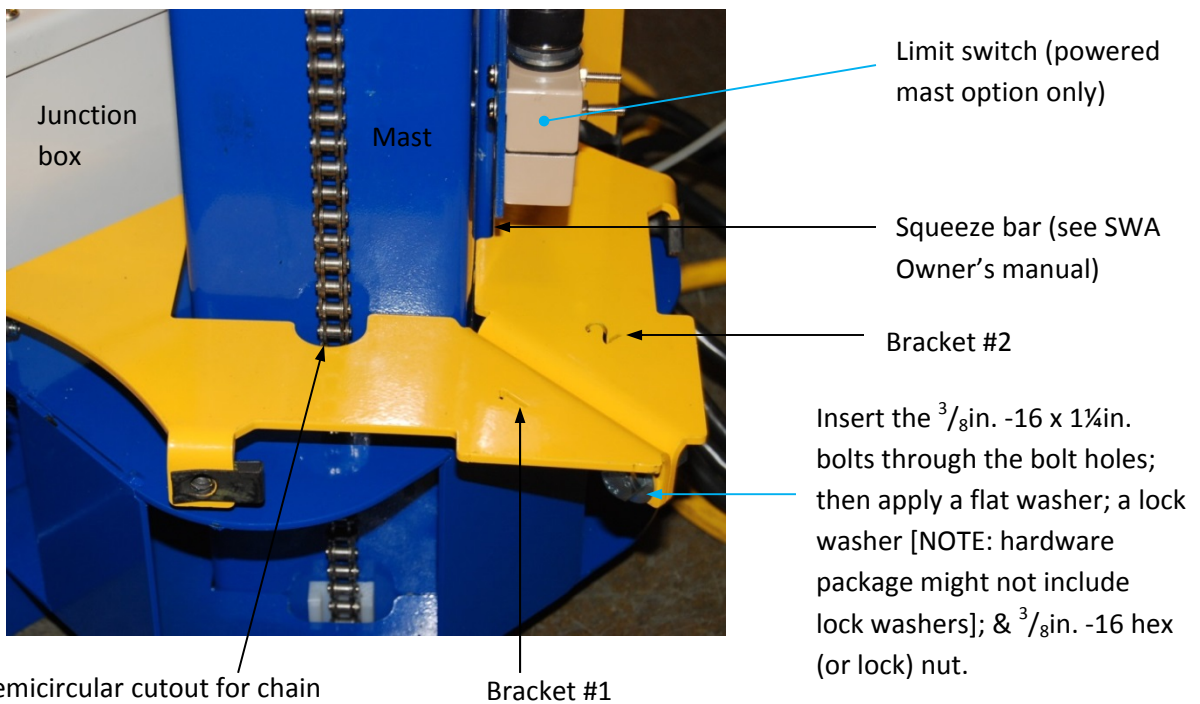
1. Fasten brackets #3 and #4 to the top of the mast. The geometry of bracket #4 includes a semicircular cutout for the carriage chain. Both the upper limit switch and the upper limit switch bracket must protrude below the cutout in bracket #3. Fasten brackets 3 & 4 together by inserting  $\frac{3}{8}$ in. -16 x  $1\frac{1}{4}$ in. bolts through each of the 4 bolt holes; then apply a flat washer, a lock washer [hardware package might not include lock washers], and a  $\frac{3}{8}$ in. -16 hex (or lock) nut to each bolt and tighten the nuts.

**FIG. 1:** Attachment of upper chain guard brackets



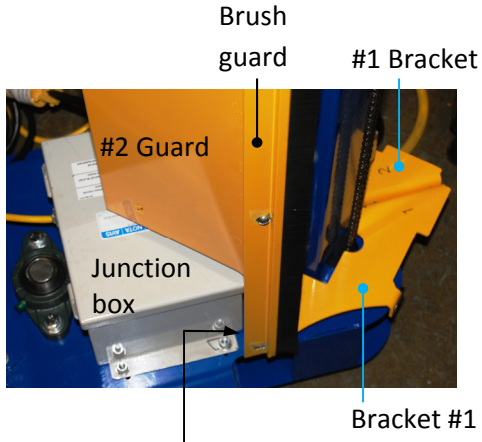
2. Fasten bracket pieces 1 & 2 together at the base of the mast. The semicircular cutout in bracket #1 must align with the chain as shown in the photo below. A rectangular cutout in bracket #2 aligns with the squeeze bar.

**NOTE:** Do not completely tighten the fasteners to allow the brackets to slide up and down the mast.



3A. Fasten the brush guard side of the #2 guard to the #4 (upper ) bracket and #1 (lower) bracket with ¼ in. – 20 x 1in. bolts and ¼ in. flat washers . The bottom of the guard is cut out to accommodate the junction box mounted to the frame at the base of the mast.

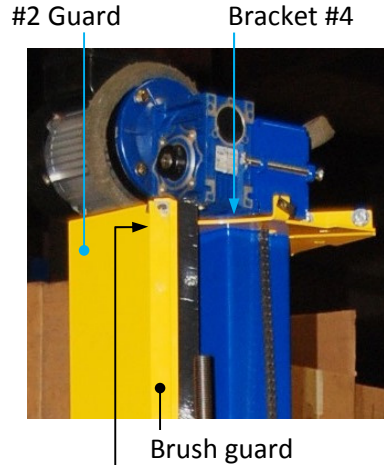
Bottom of guard #2 fits around junction box



Fasten base of guard to bracket #1 (bolt slot is behind brush guard)



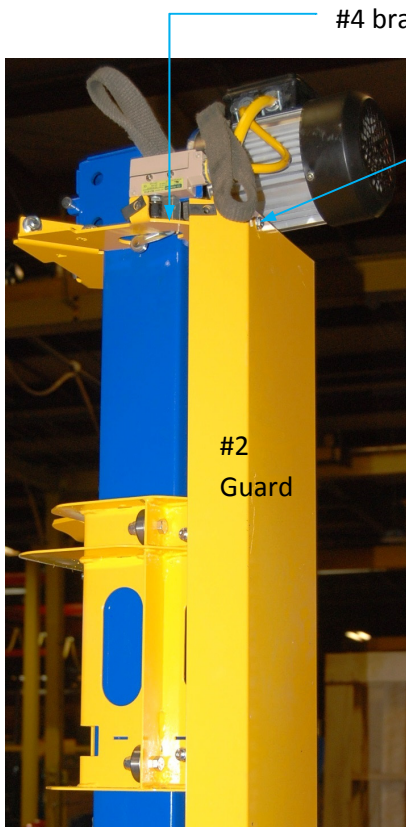
Top of guard #2



Fasten top of guard to bracket #4 (bolt slot behind brush guard)

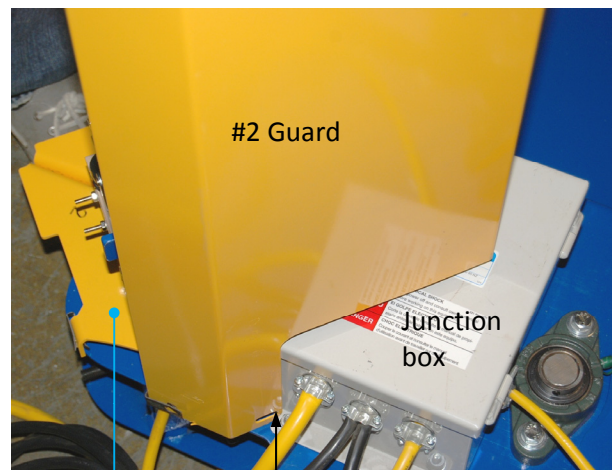
3B. Attach the back side of the #2 guard to the #4 (upper) and #2 (lower) brackets.

Top end of guard



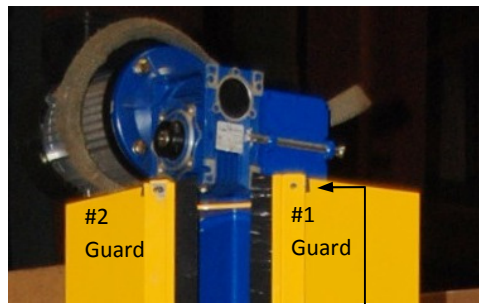
Fasten with ¼ in. – 20 x 1in. bolt and ¼ in. flat washer

Bottom end of guard

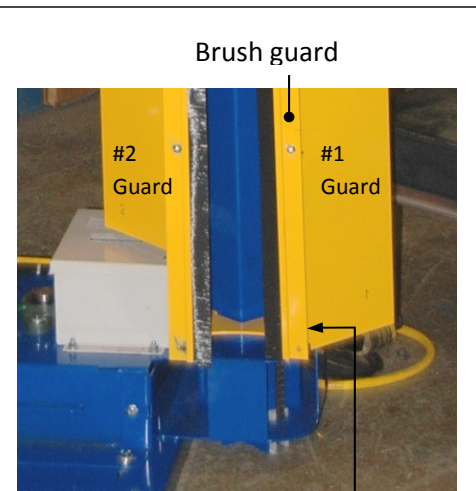


Fasten with ¼ in. – 20 x 1in. bolt and ¼ in. flat washer

4A. Fasten the brush side of the #1 guard to the (upper ) bracket #3 and (lower) bracket #2 with ¼ in. – 20 x 1in. bolts and ¼ in. flat washers .



Fasten guard to bracket #3 (bolt slot behind brush guard)

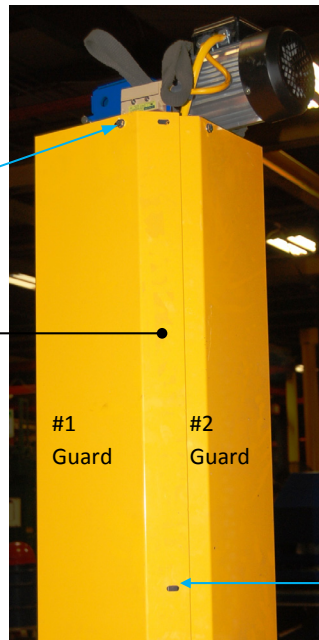


Fasten to bracket #2 (bolt slot behind brush guard)

4B. Fasten the back side of the #1 guard. Guard #1 will overlap Guard #2 as shown below.

¼ in. – 20 x 1in. bolt and ¼ in. flat washer

Flange of Guard #1



Slotted holes in guard flanges

5. Tighten the lock nuts of lower brackets #1 and #2.

6. Install the ¼ in. bolts and flat washers (items 10 & 11 on p. 1) into each of the 4 slotted holes in the flanges of the guards.