

NONE

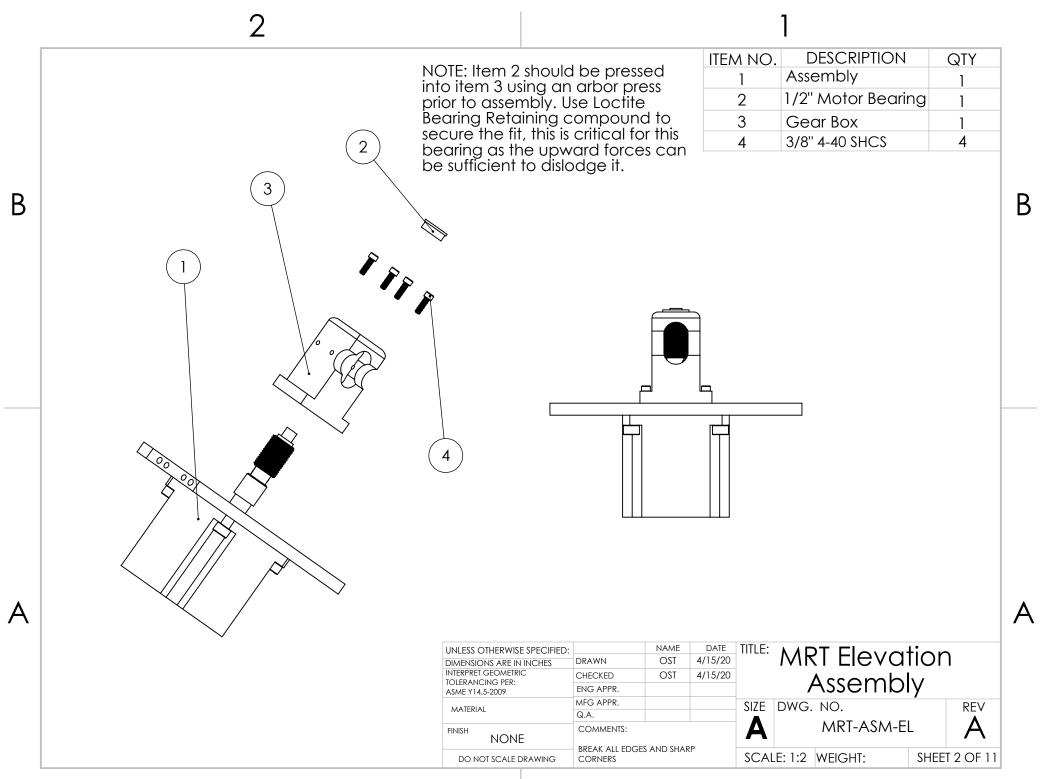
DO NOT SCALE DRAWING

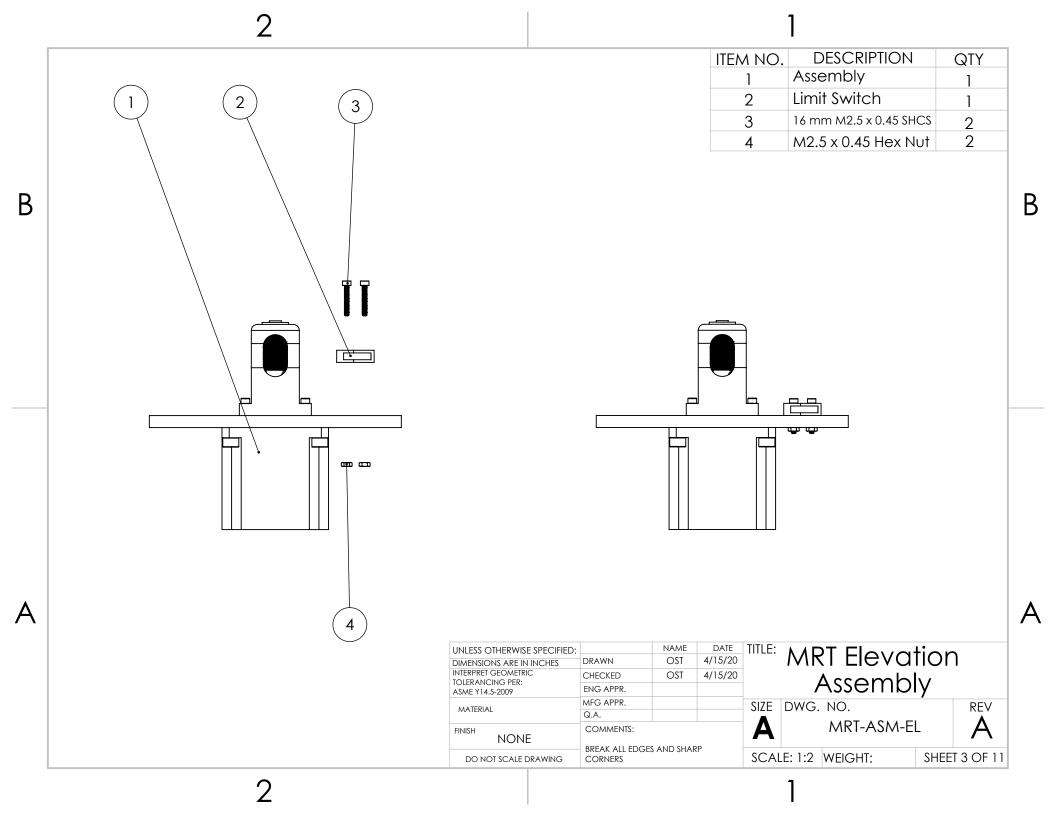
BREAK ALL EDGES AND SHARP

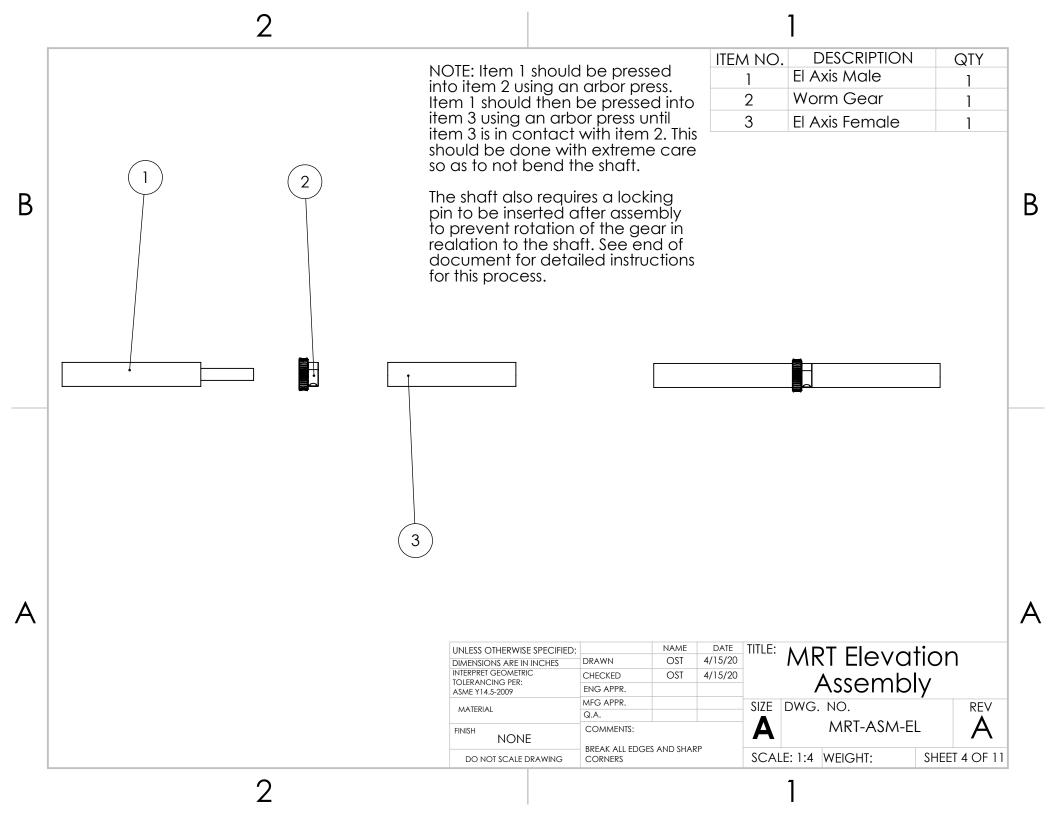
**CORNERS** 

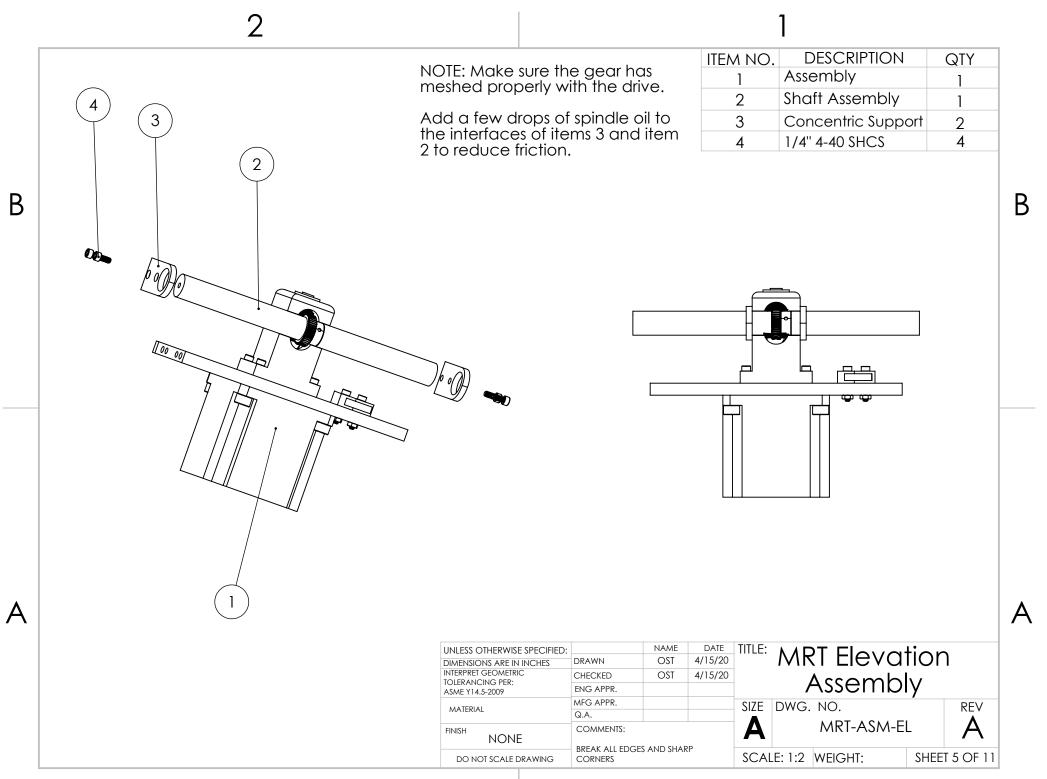
SCALE: 1:2 WEIGHT:

SHEET 1 OF 11











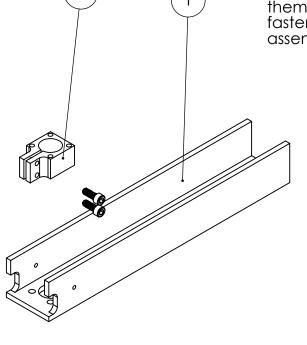
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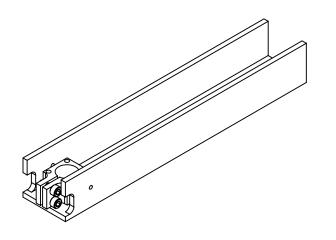
NOTE: Do not fully tighen any fasteners at this stage.

Assemble both uprights this way, but be sure to flip item 2 for one of them so that the tightening fasteners face outwards upon final assembly.

ITEM NO.	DESCRIPTION	QTY
1	Upright	1
2	1/2" Tube Clamp	1
3	3/8" 6-32 SHCS	6

В







NAME DATE UNLESS OTHERWISE SPECIFIED: 4/15/20 OST DRAWN DIMENSIONS ARE IN INCHES INTERPRET GEOMETRIC OST 4/15/20 CHECKED TOLERANCING PER: ENG APPR. ASME Y14.5-2009 MFG APPR. MATERIAL Q.A. COMMENTS: FINISH NONE BREAK ALL EDGES AND SHARP DO NOT SCALE DRAWING CORNERS

MRT Elevation
Assembly

SIZE DWG. NO.

MRT-ASM-EL

SCALE: 1:2 WEIGHT:

SHEET 6 OF 11

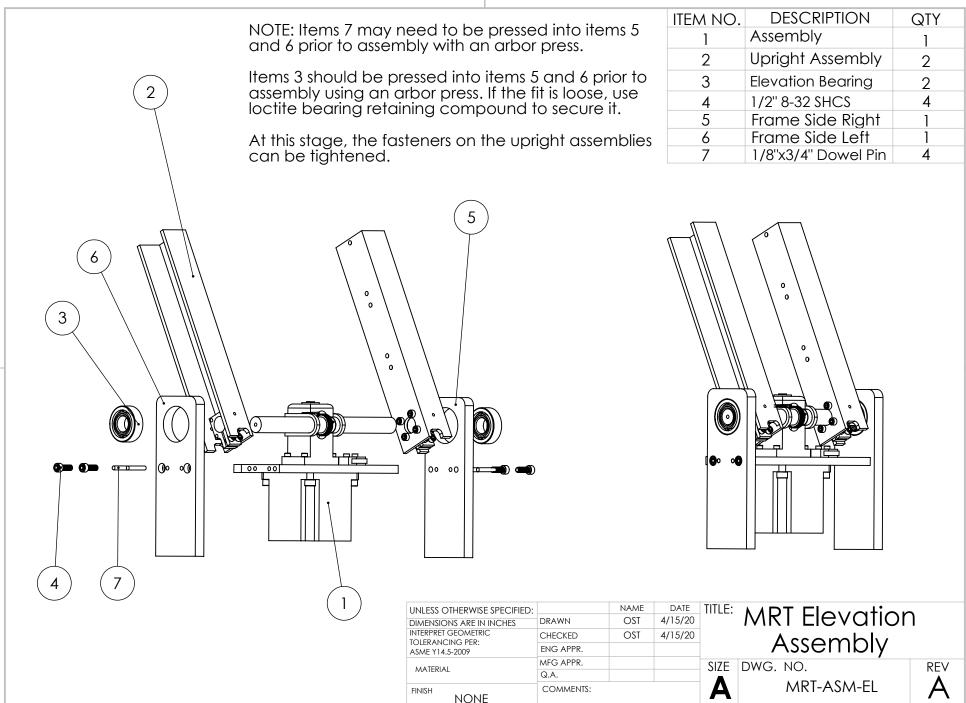
REV

В



1

В



DO NOT SCALE DRAWING

2

В

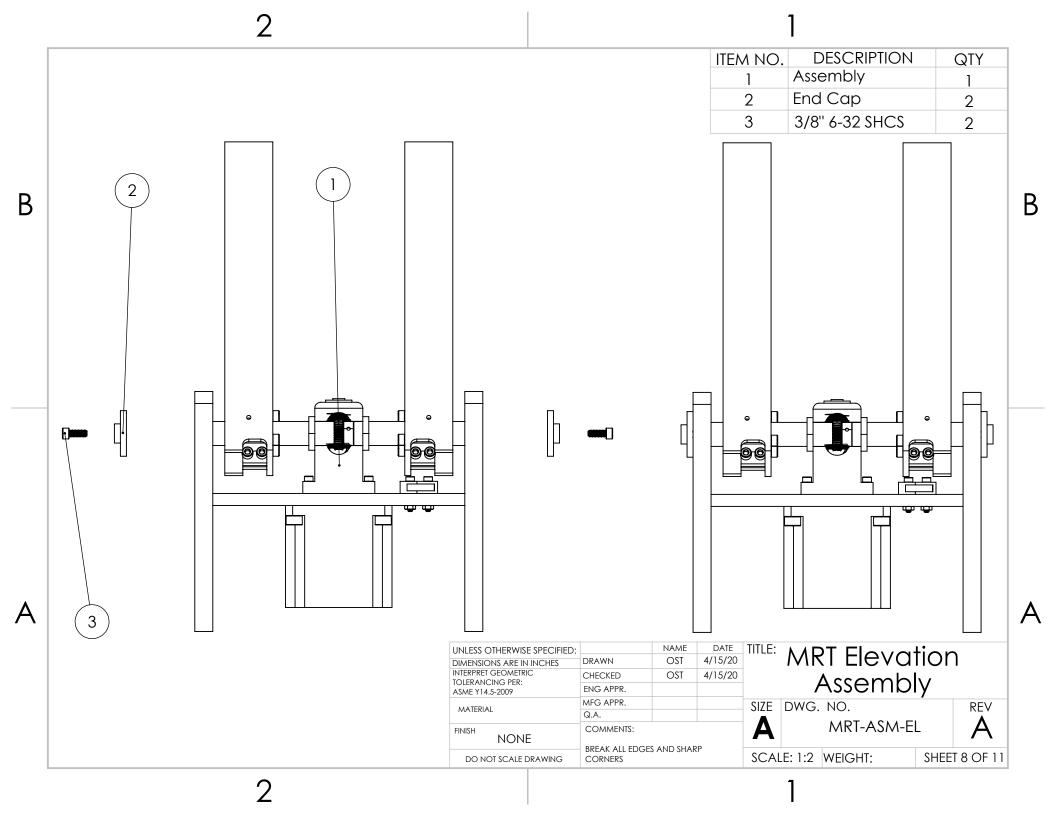
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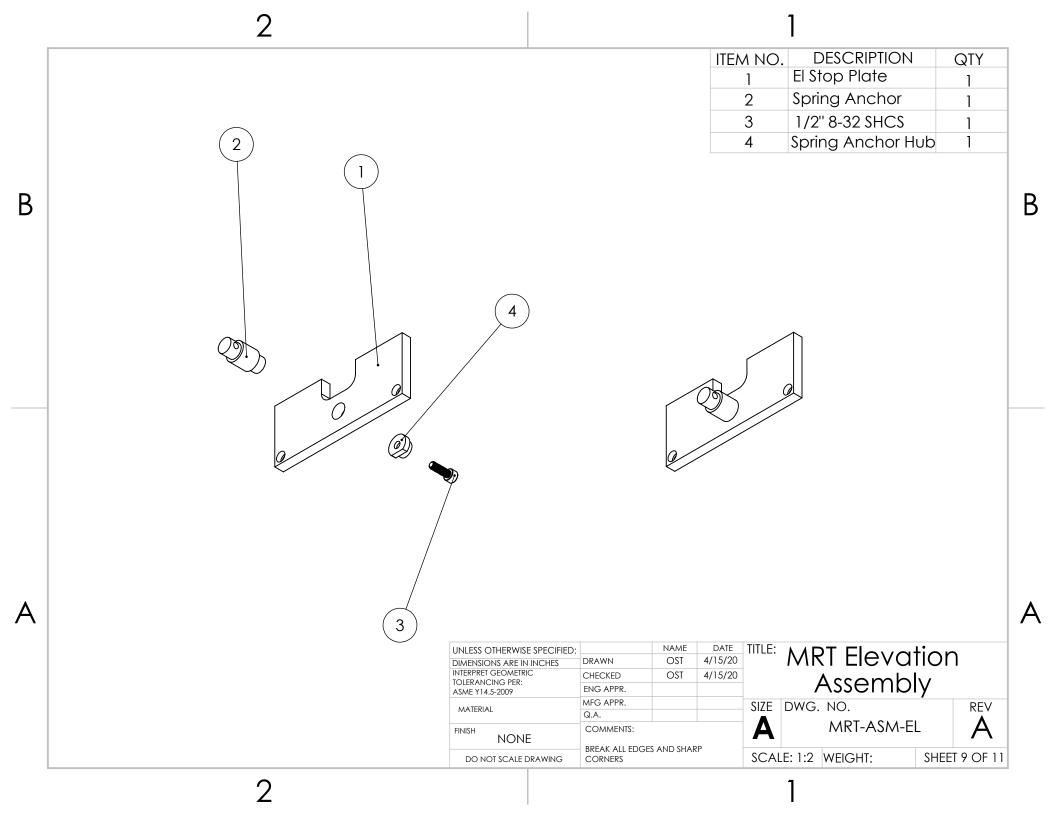
SCALE: 1:3 WEIGHT:

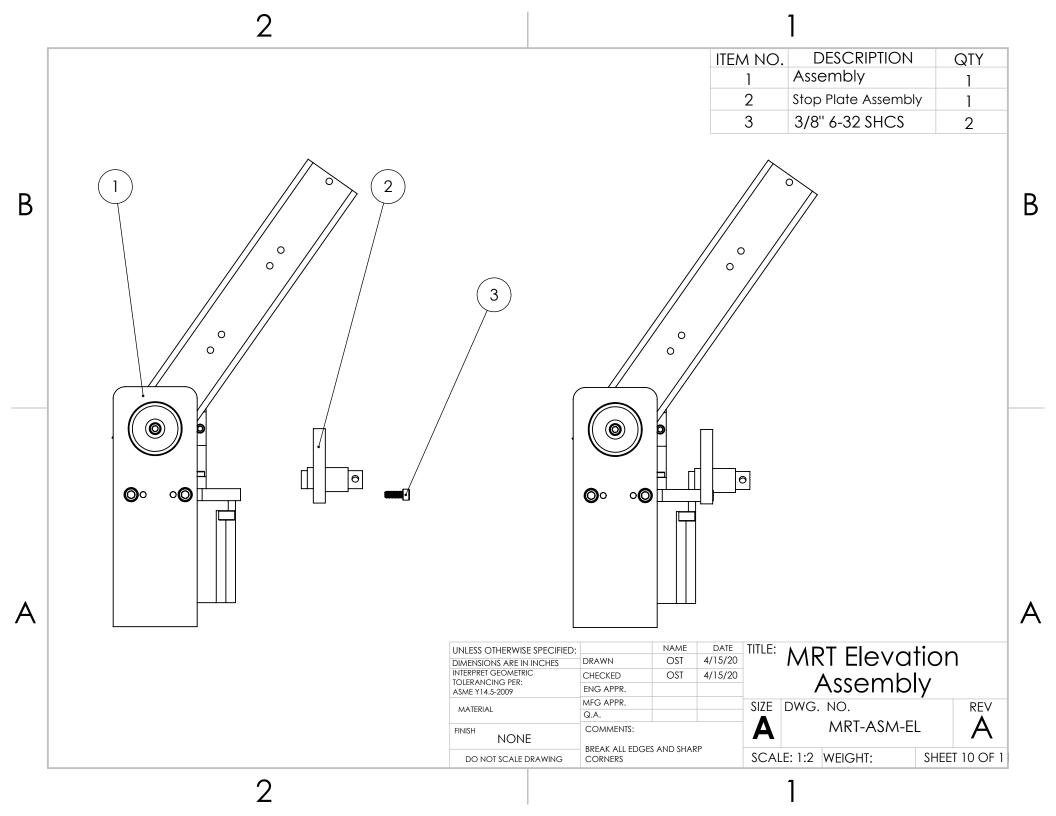
SHEET 7 OF 11

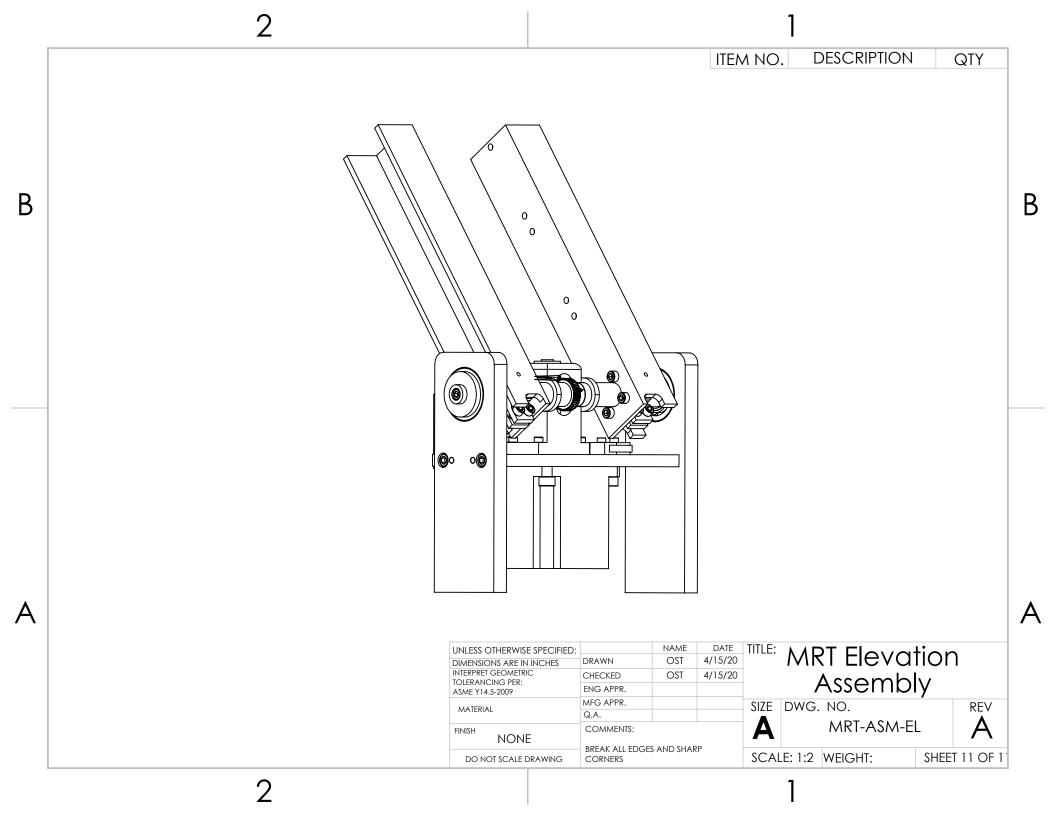
BREAK ALL EDGES AND SHARP

**CORNERS** 









## Elevation Axis Locking Pin

The following instructions detail the performance of the secondary operation required to complete the assembly of the elevation axis, involving the insertion of a  $\frac{1}{8}$ " x  $\frac{3}{8}$ " steel locking pin.

- 1. Begin by securing the axis in the vise of a milling machine using a collet block and ½" collet. The axis should be perpendicular to the z axis of the machine (and the drill chuck).
- 2. Using an edge finder, find the center of the axis. Then find the approximate midpoint of the hub of the worm gear (this does not have to be precise), x marks the spot on the picture below.
- 3. Using #2 center drill, create a divot to center the drill bit.
- 4. Using a #32 drill bit (0.116" diameter) drill all the way through the axis.
- 5. Using a 0.1247" reamer, ream the hole all the way through.
- 6. Using a 0.1260" reamer, ream the hole to approximately half depth (0.25").
- 7. Debur the hole.
- 8. Insert a 1/8" x 3/8" steel dowel into the larger hole, and using an arbor press, press the dowel in until it is just past tangent with the axis. The axis is complete.

