

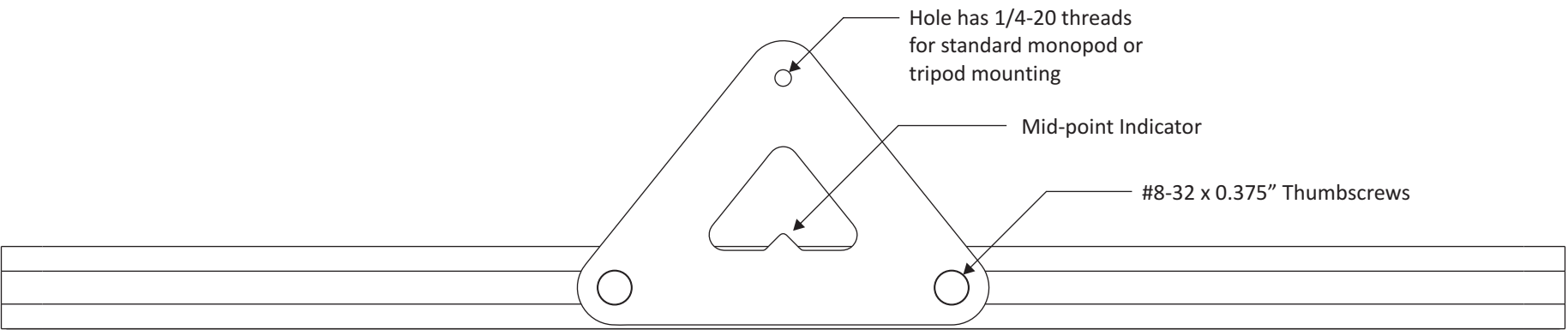
Tool - Elevations

SCALE 1:2

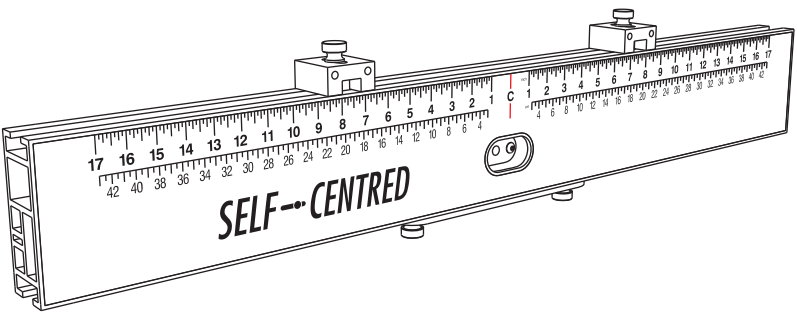
SELF-CENTRED

DATE: March 20, 2022
REVISION: 01
DRWN: AG

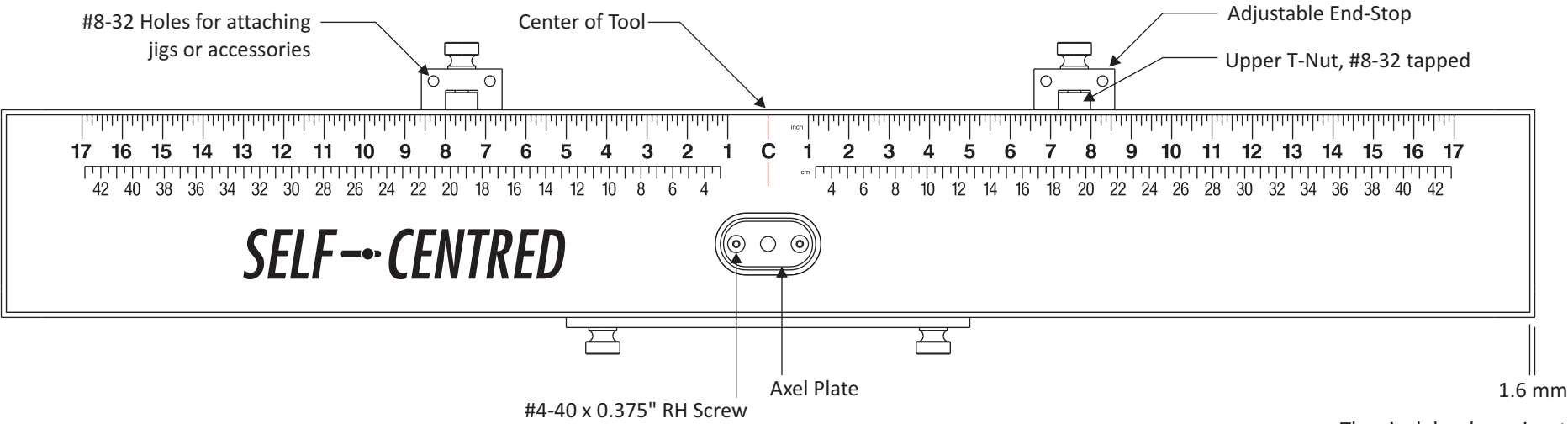
TITLE: Self-Centred - Installation Tool



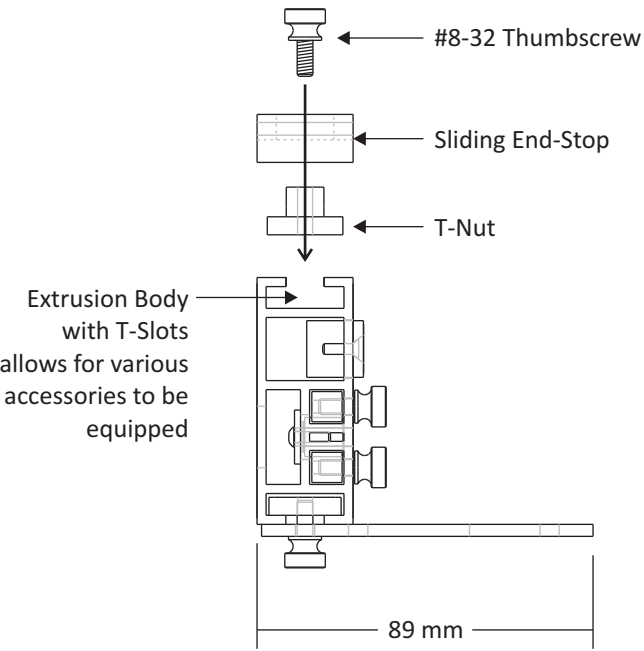
BOTTOM VIEW



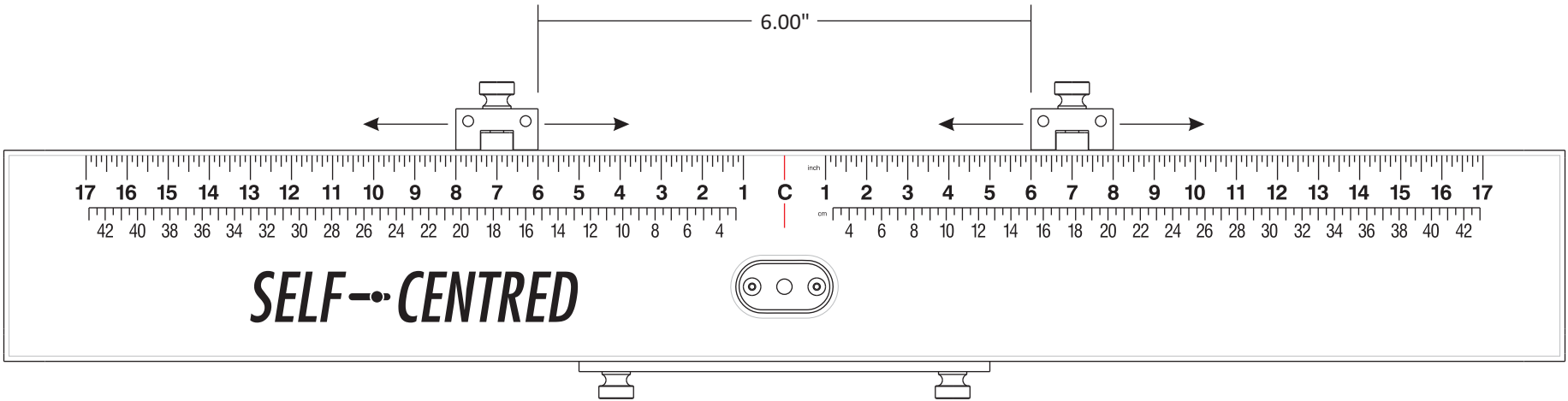
BACK PERSPECTIVE VIEW



BACK VIEW



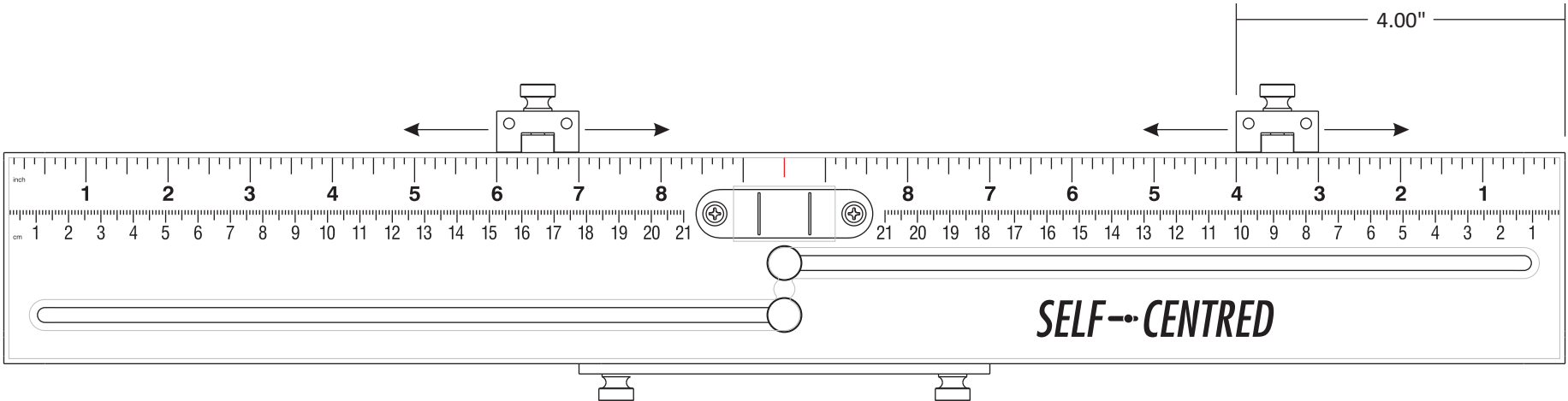
LEFT SIDE VIEW



BACK VIEW

Measurements on the back of the tool indicate how many equidistant inches (or mm’s) there are between the sliding end-stops. These are used for centering a sign on the tool and using the extending arms to center the tool in a doorway. This assures that the sign placement will be in the center of the door it is being applied to.

Example Scenario:
When the inside edges of the sliding end-stops are each set to the 6” mark, that means there is exactly 6” of space between the end-stops, thus a 6” sign will fit between them and be centered within the tool.
The arms can now be extended until they touch the door frame. Now the tool is centered within the doorframe.
A 6” wide sign can now be placed on the tool between the end-stops to achieve a centrally mounted sign on the door.

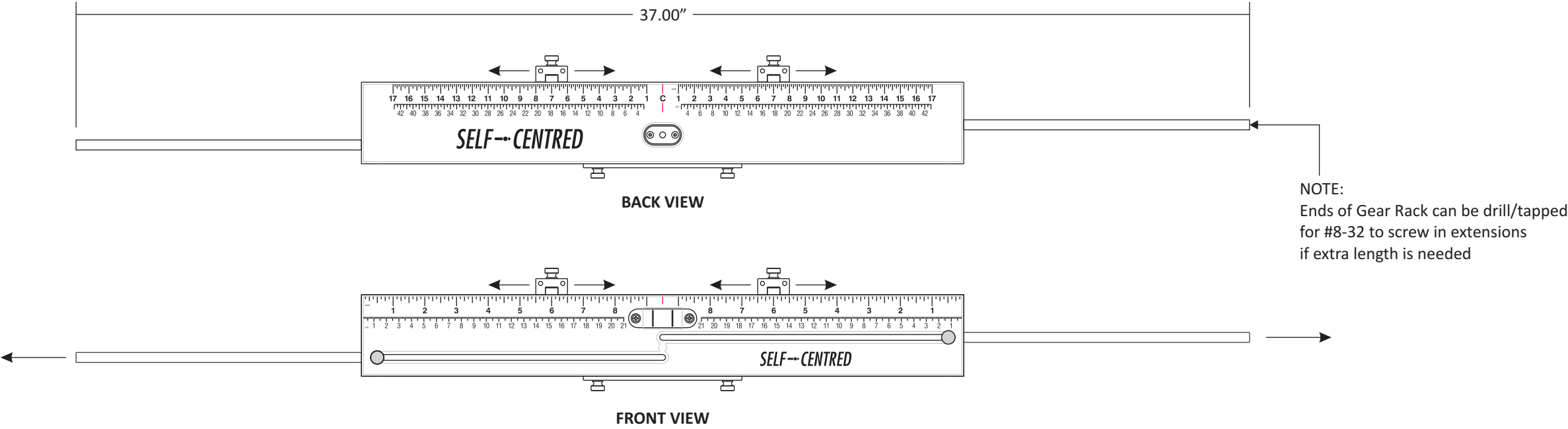


FRONT VIEW

Measurements on the front of the tool indicate how many inches (or mm’s) there are from their respective edges (left or right). These are used for offsetting a sign from a door frame or edge of wall. Extending arms are not used for this. Basically, the left and right ends of this tool can be used like a typical tape measure. The sliding end-stops can be set at a specific measurement so that signs can be quickly mounted at the same distance without repetitive measuring.

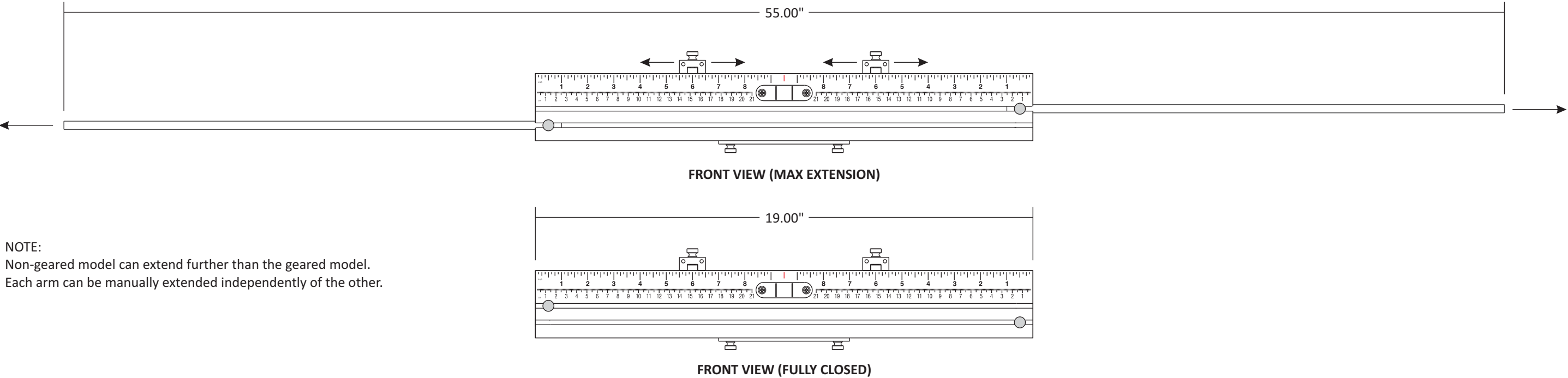
Example Scenario:
When the inside edge of one of the sliding end-stops is set to the 4” mark, that means it is exactly 4” from the closest end of the tool.
A sign can now be placed on the tool and against the inside edge of the end-stop to mount the sign 4” from the edge of the door frame.

ARM EXTENSION MODES



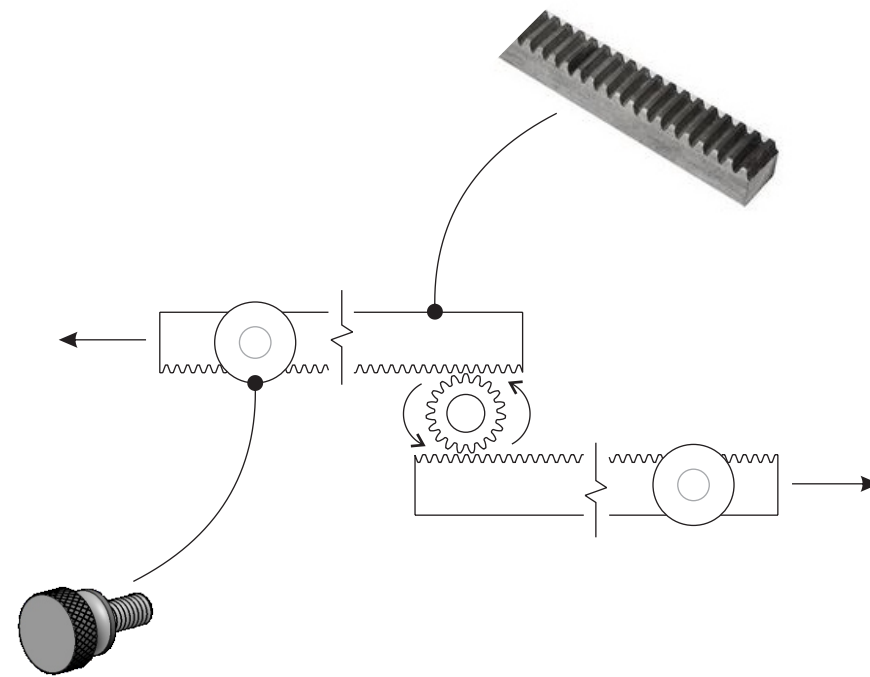
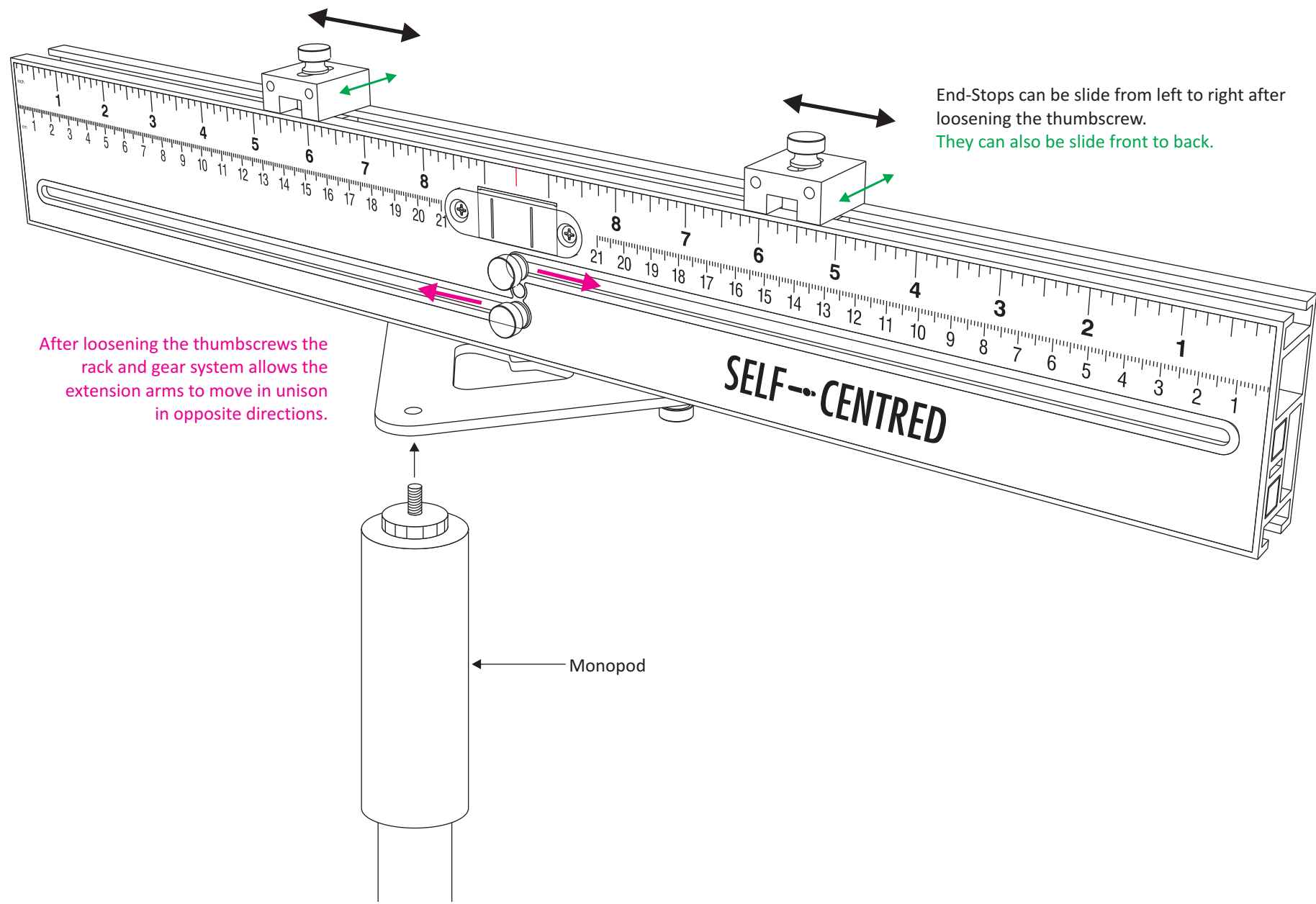
Elevations Demonstrating Geared Extending Arms

SCALE 1:4



Elevations Demonstrating Non-Geared Extending Arms

SCALE 1:4



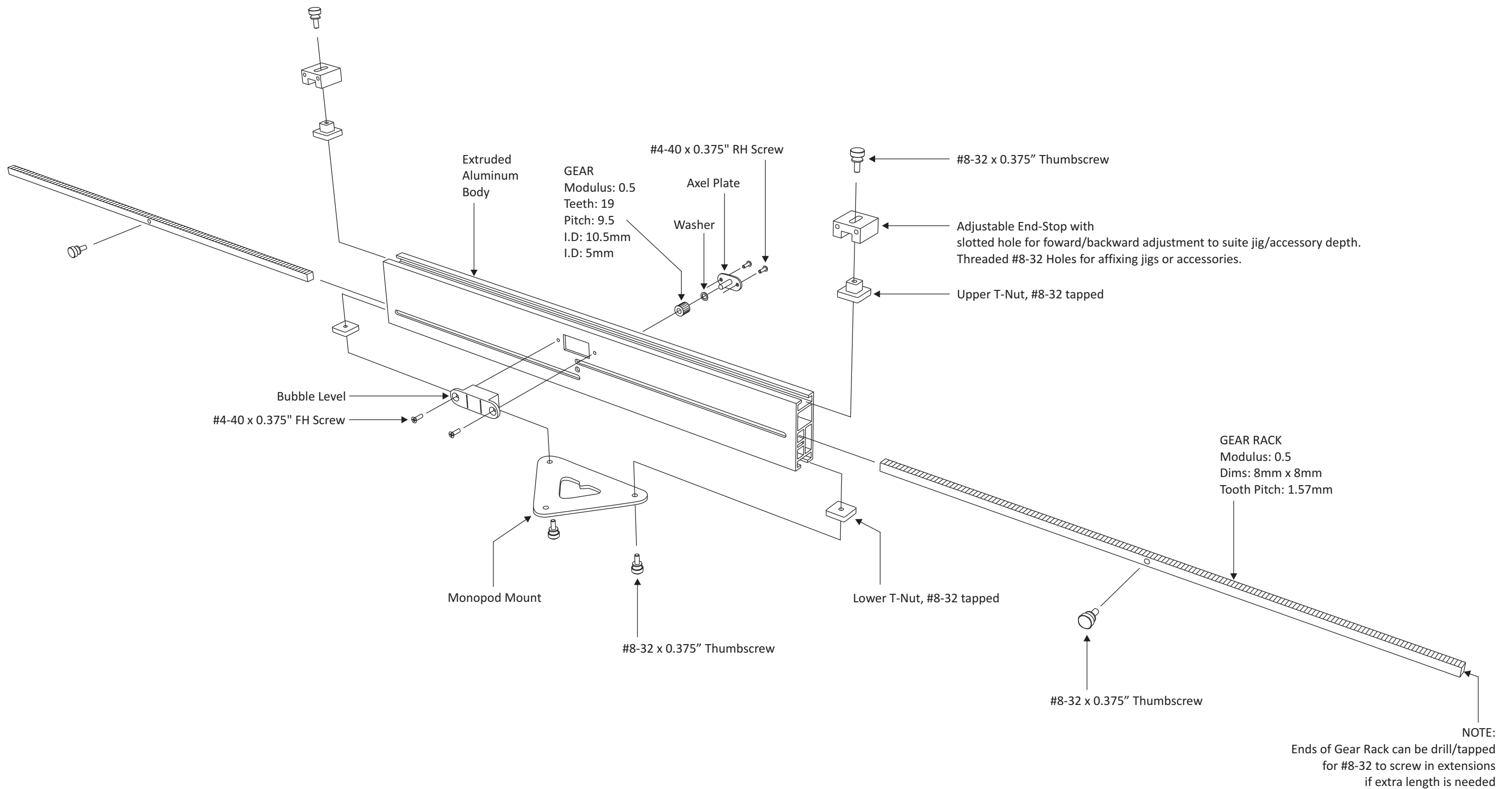
Functions Explained
NOT TO SCALE

Rack and Gear Extension Arm System
SCALE 1:1

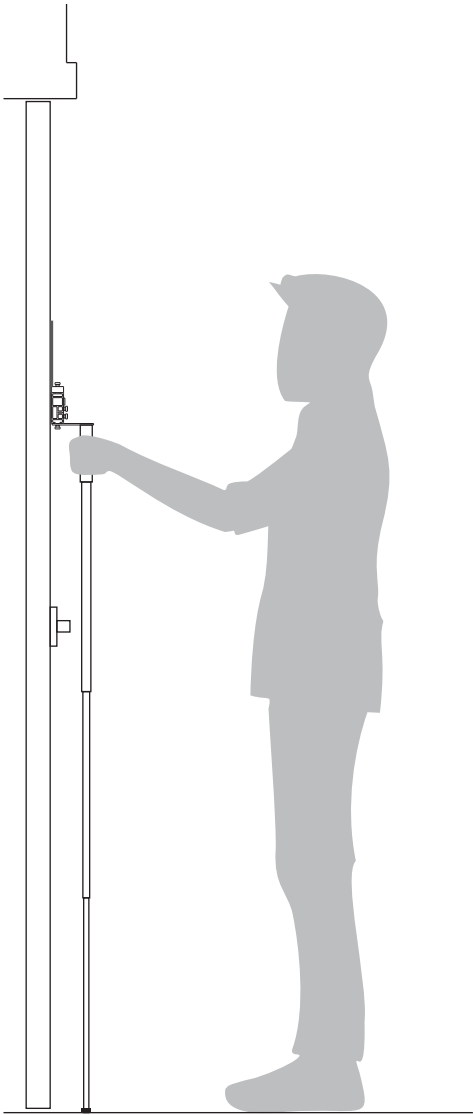
SELF-CENTRED

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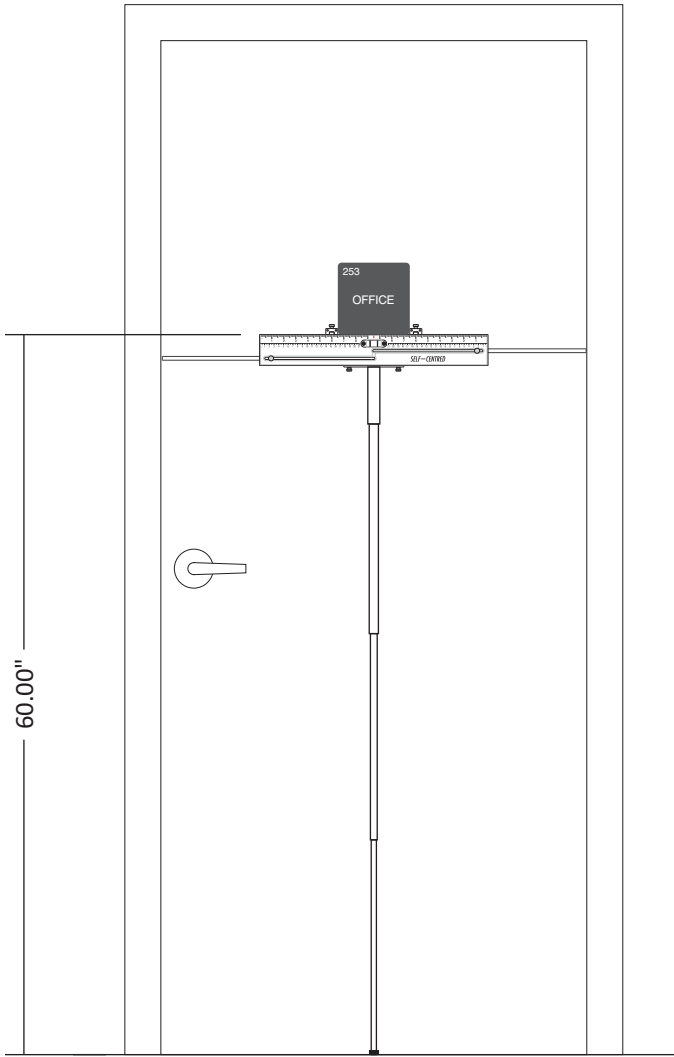
TITLE: Self-Centred - Installation Tool



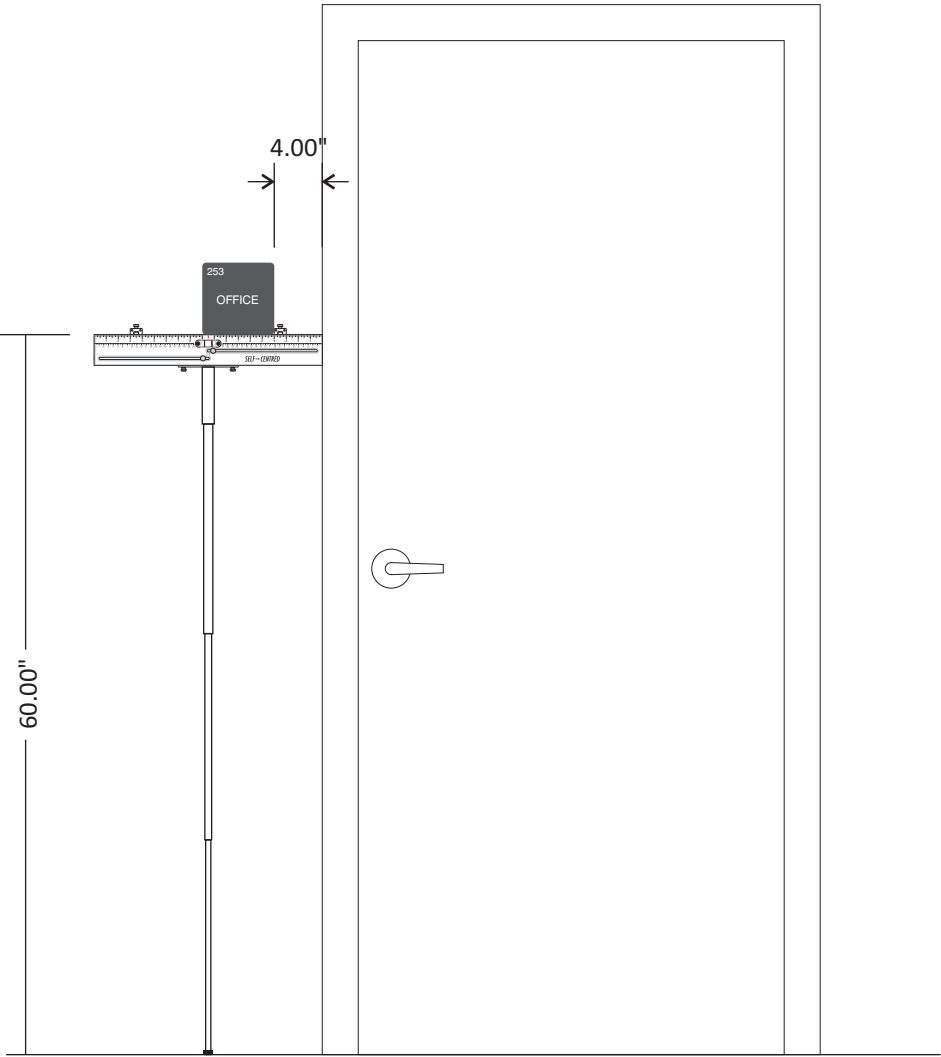
Exploded View
NOT TO SCALE



Installation Side View



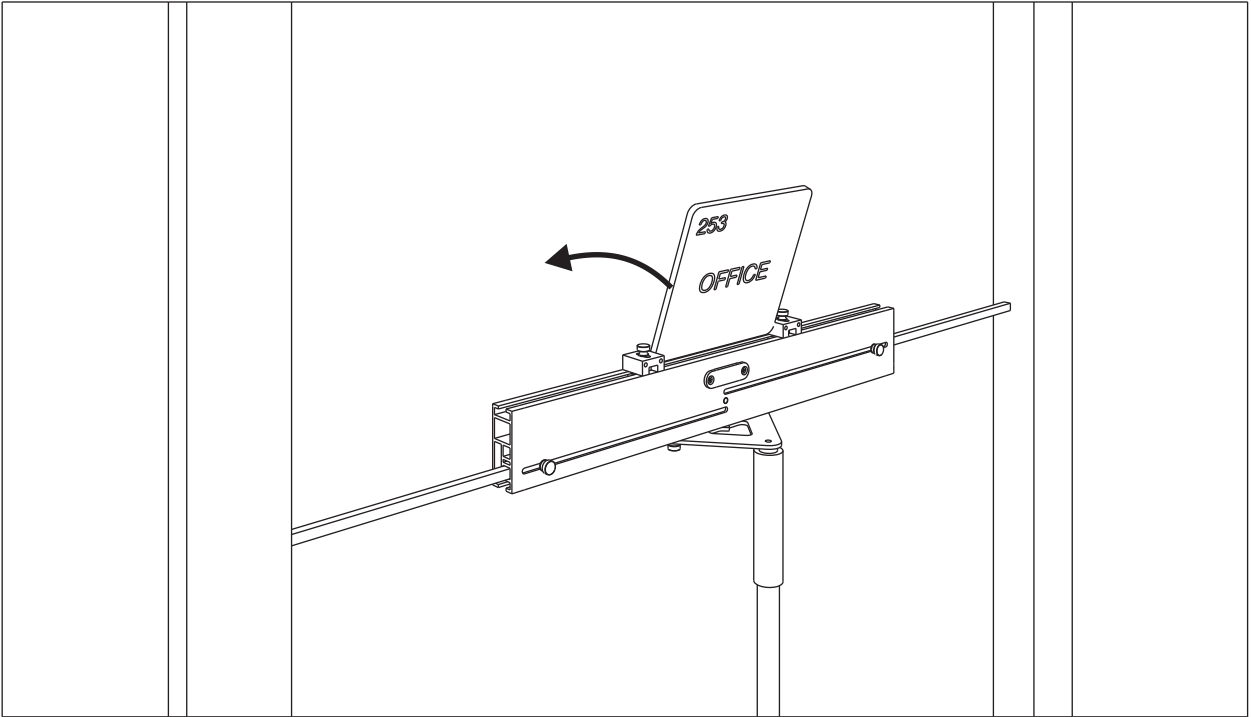
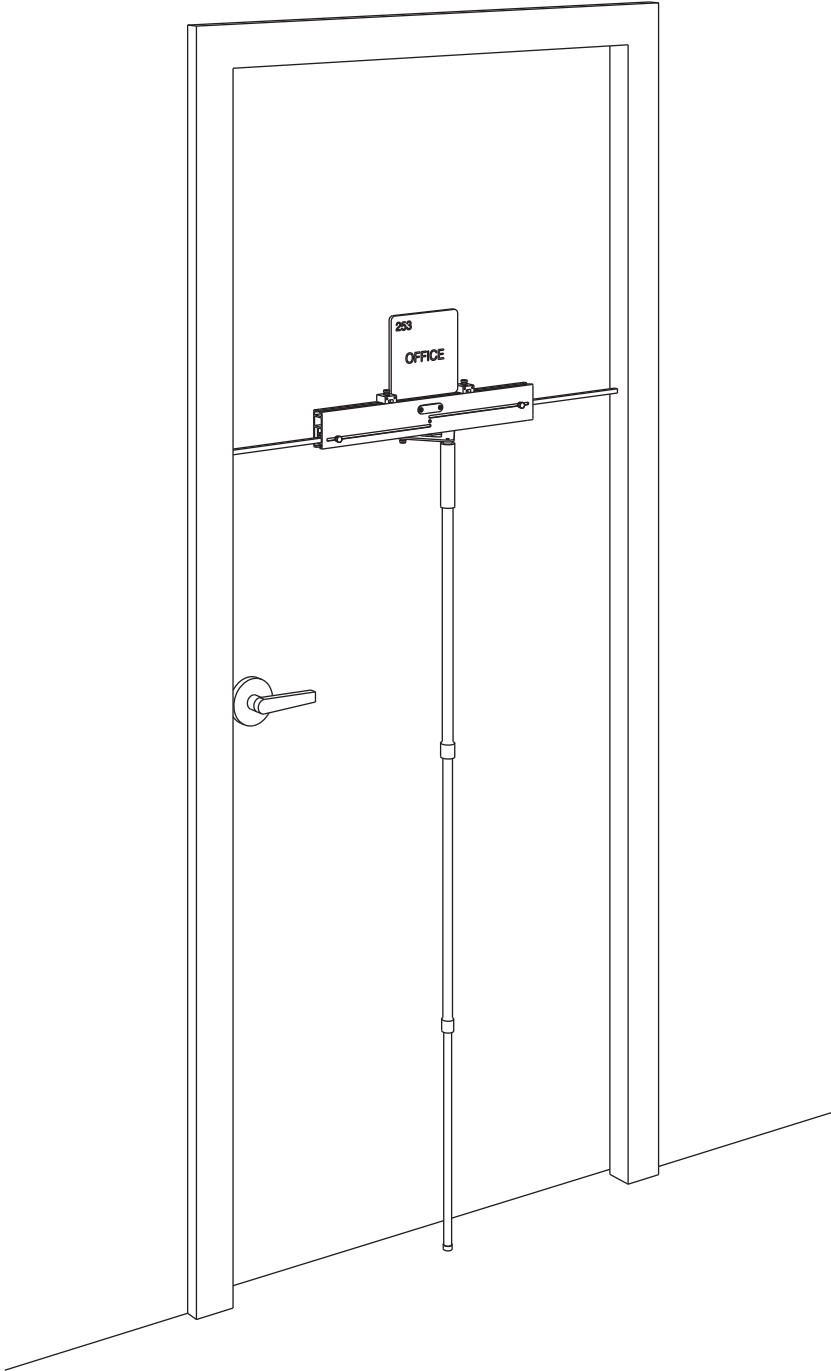
Installation centered on door



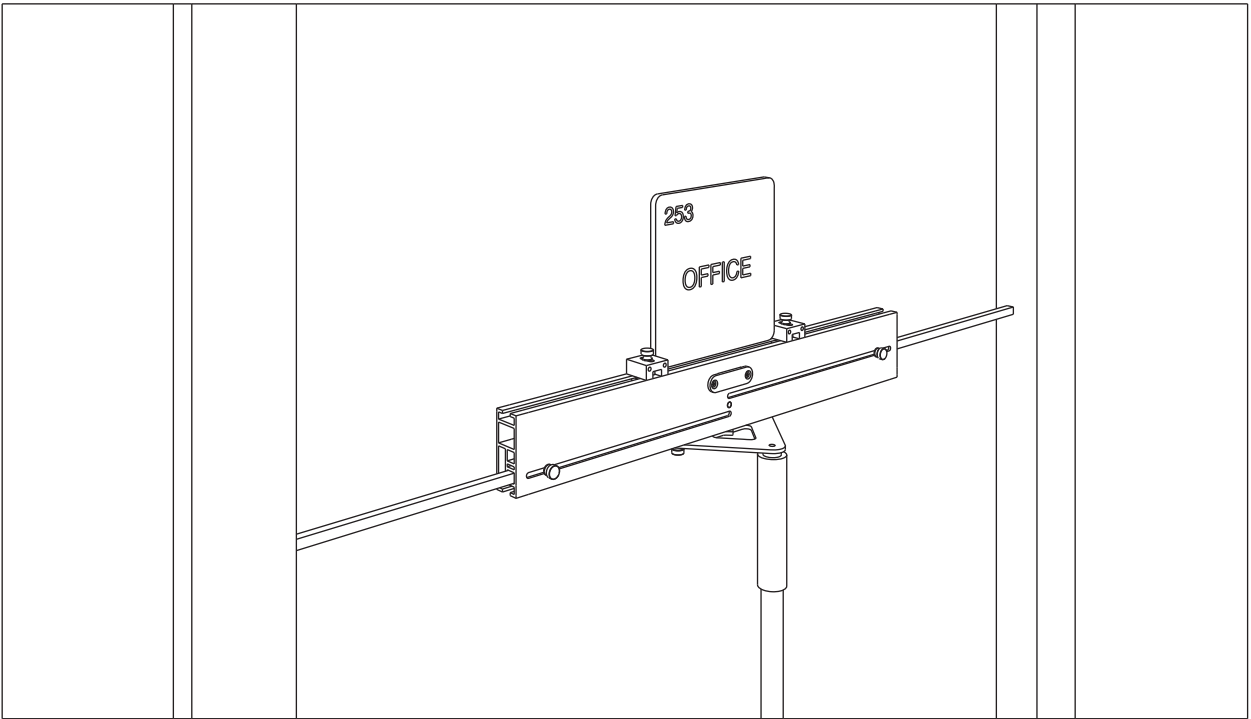
Installation 4" from edge of door frame

Elevations

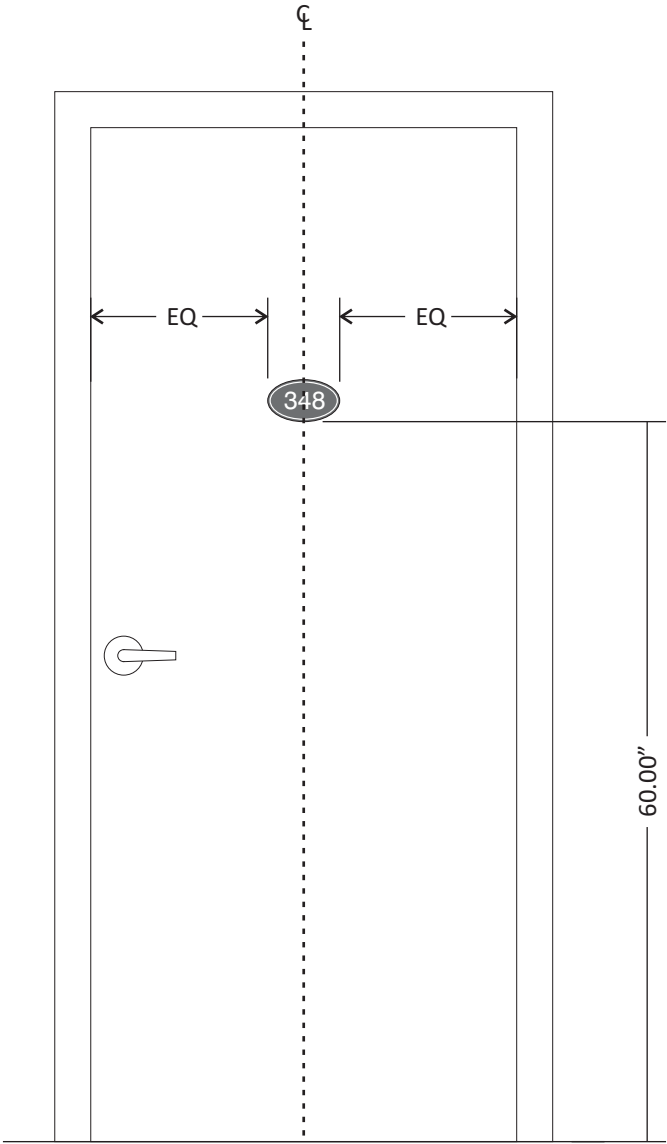
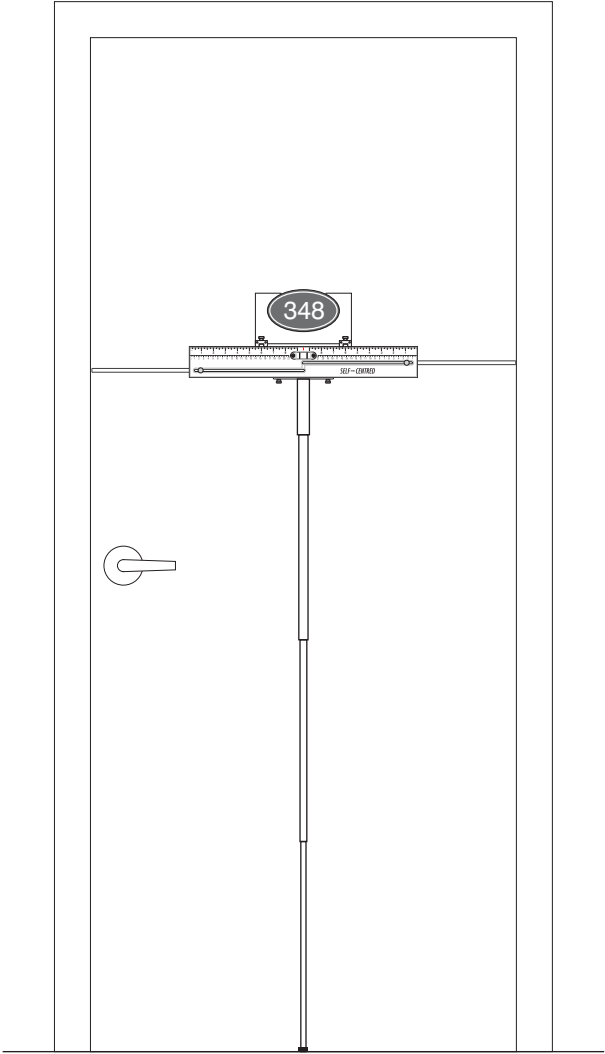
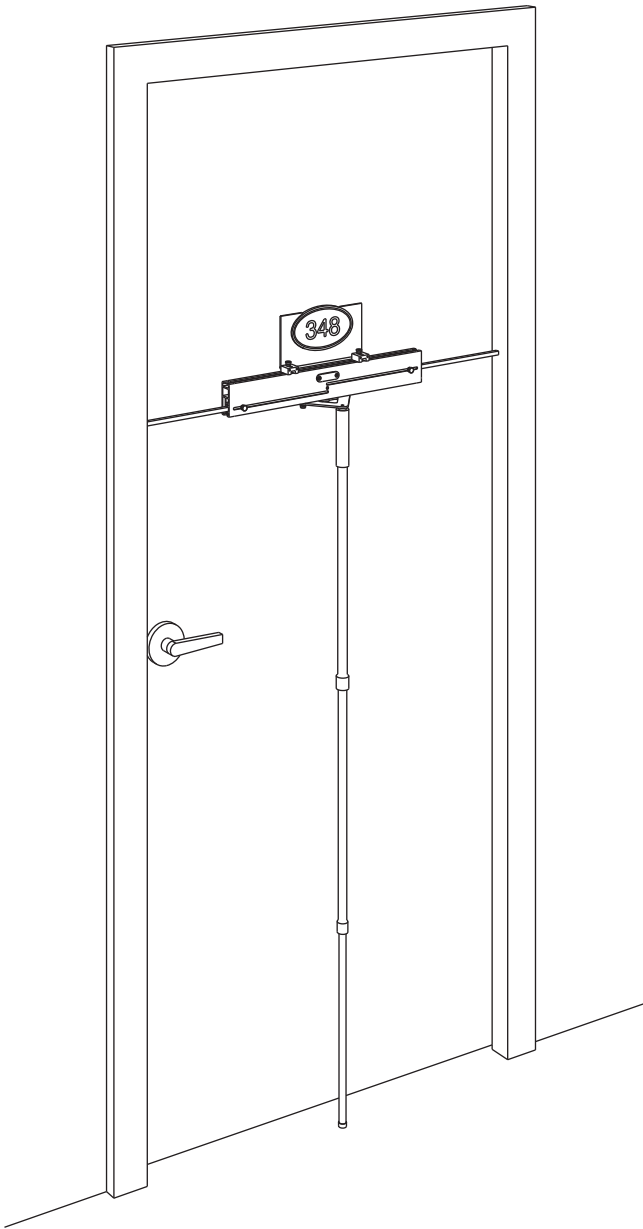
SCALE 1:16



After end-stops are set, monopod height is set, and arms are extended, and tool is level, the sign (with adhesive on the back) can rest its bottom edge on the tool between the end-stops and tilted into place on the door



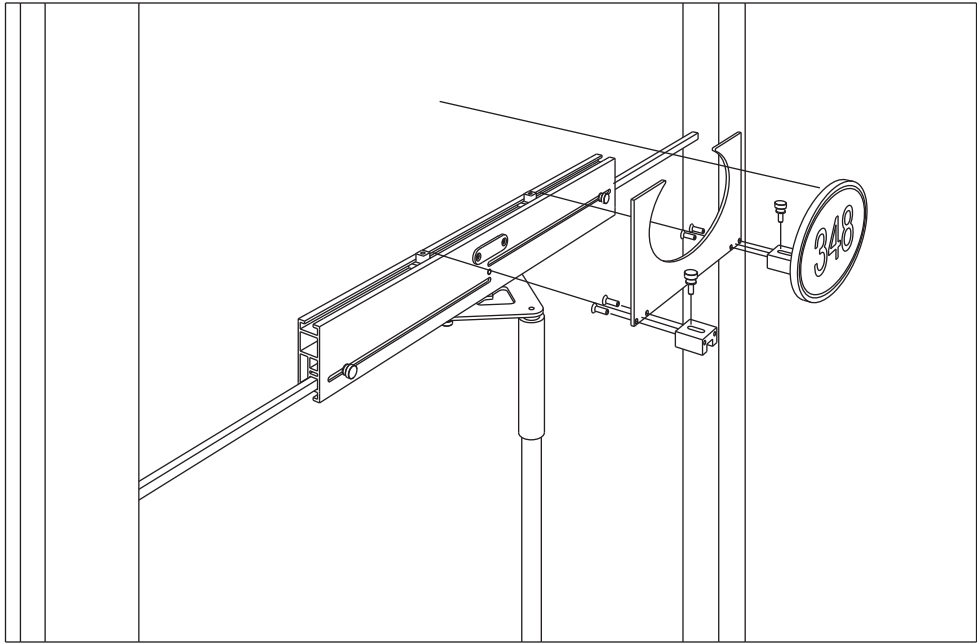
Mounting Details
NOT TO SCALE



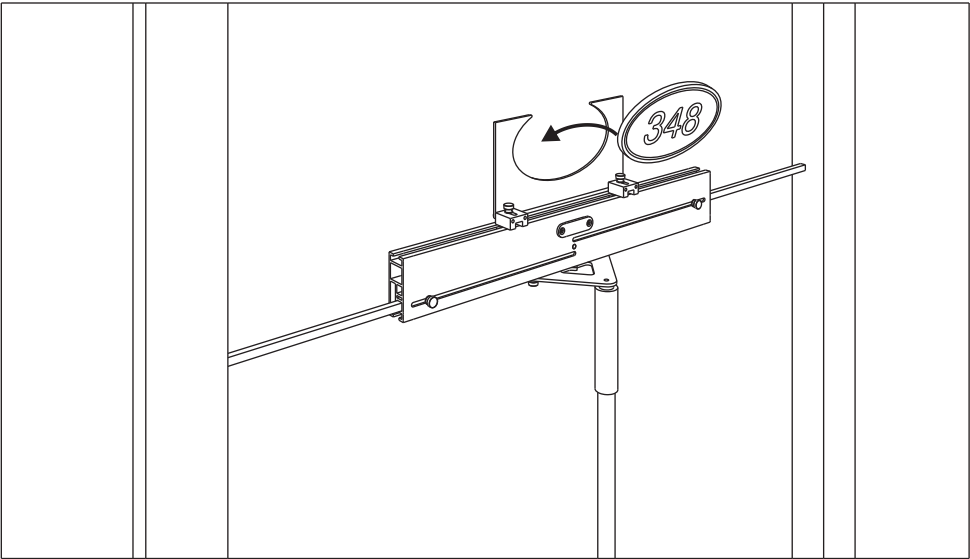
Installation centered on door and
60" from floor

Elevations

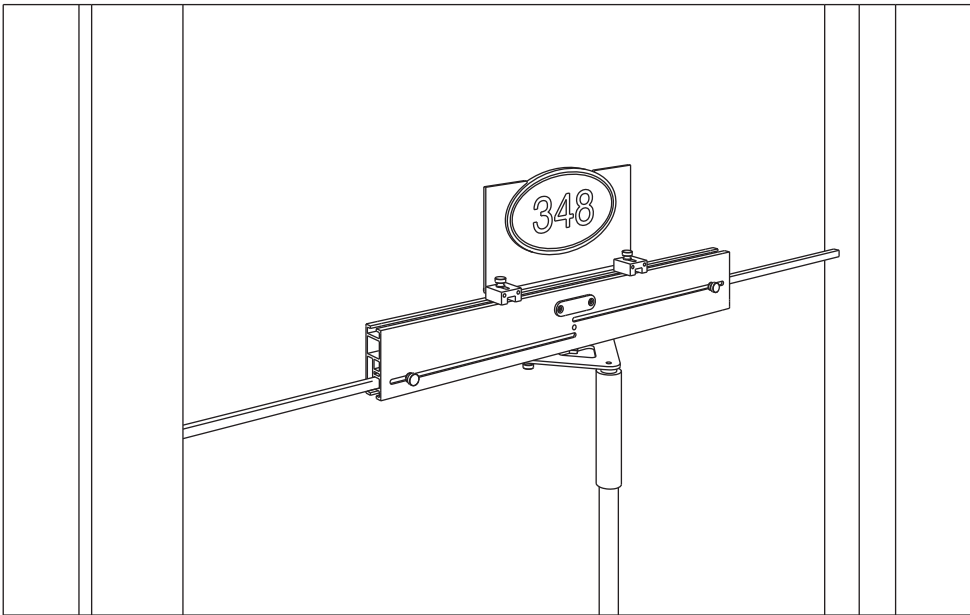
SCALE 1:16



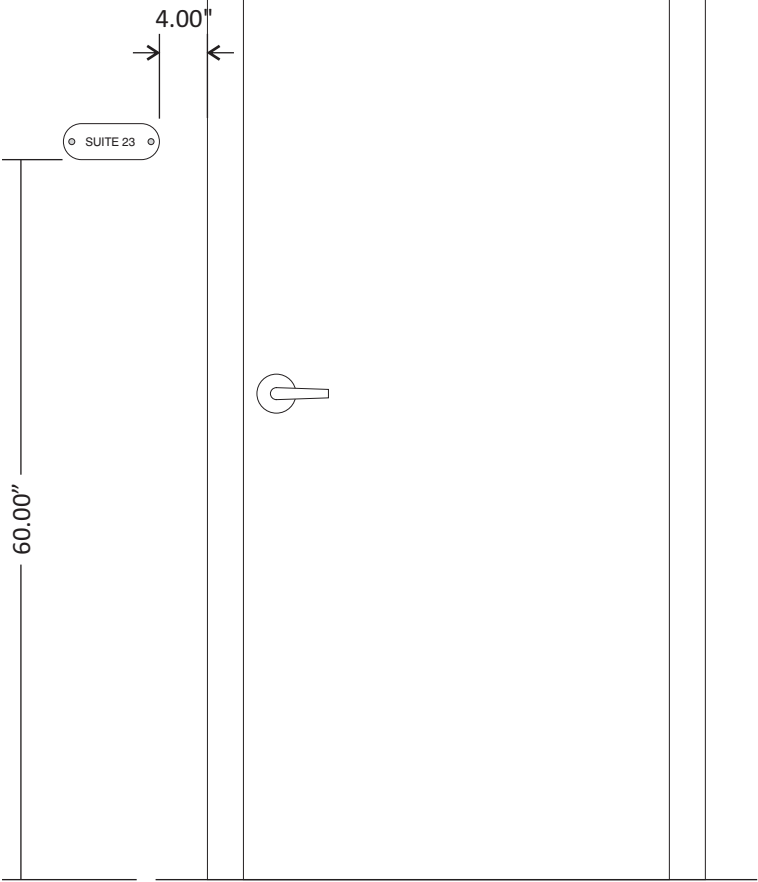
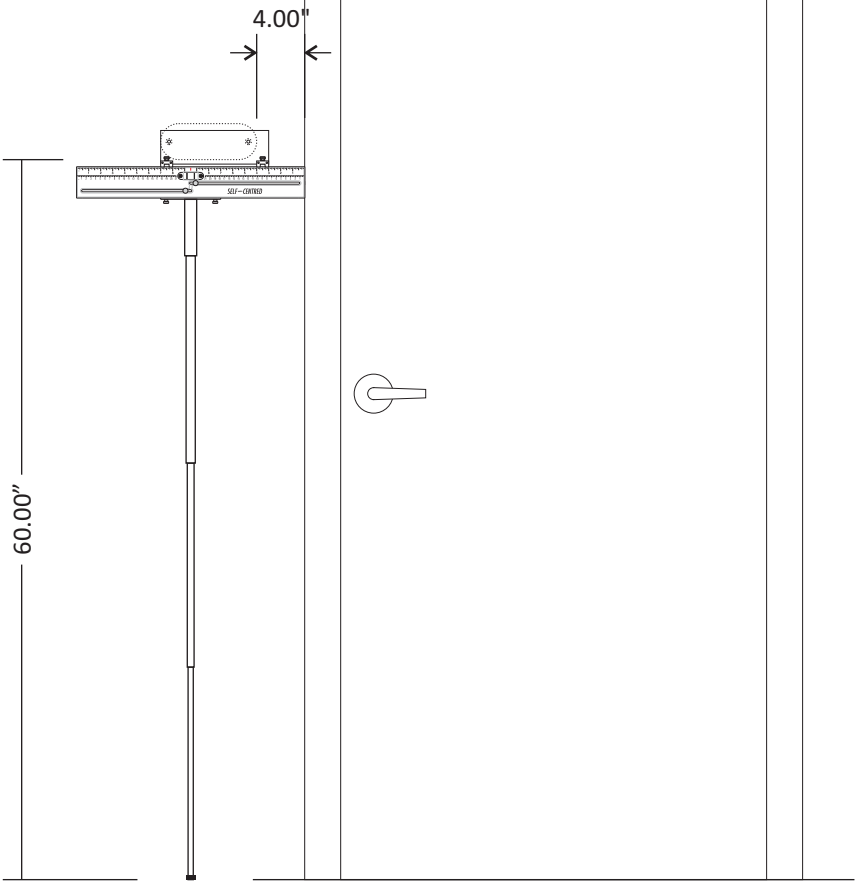
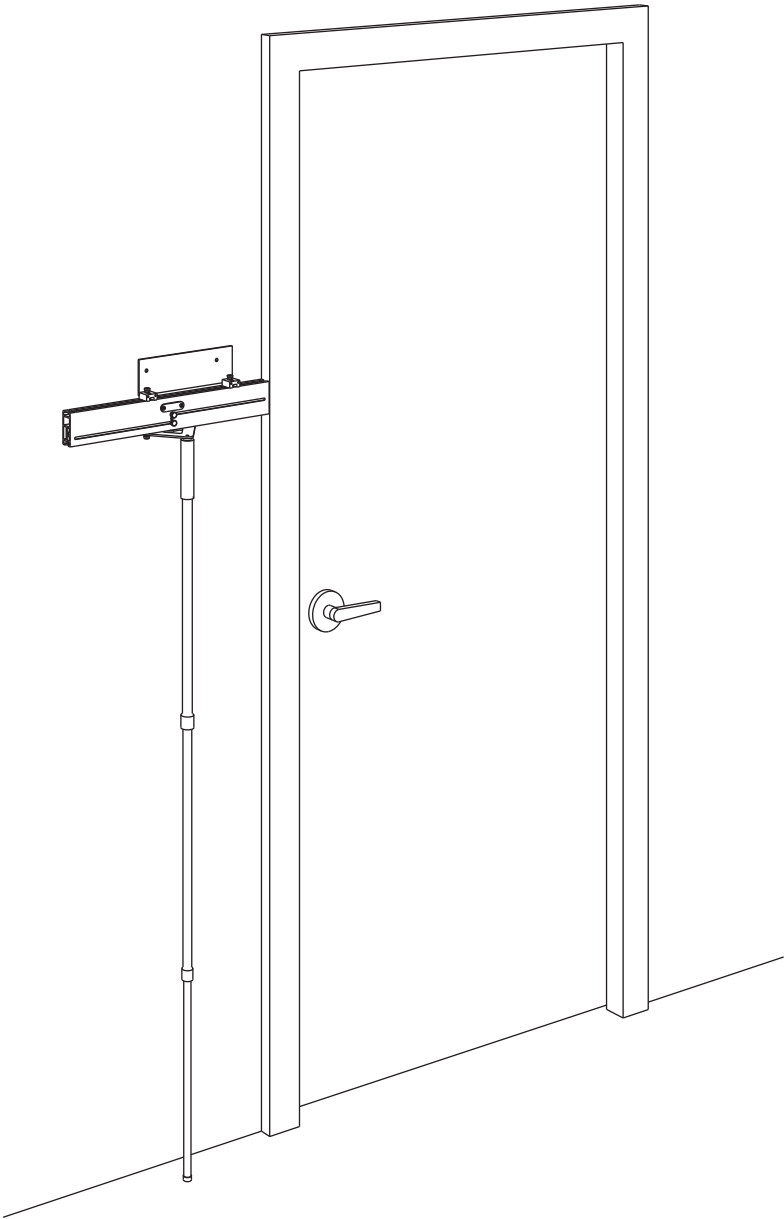
Custom made jig (1/8" CNC clear acrylic) is fastened to back of end-stops with flat head screws. End stops are centered on the tool.



After monopod height is set, jig is fastened to end-stops and they are centered on tool, arms are extended, and tool is leveled, the sign (with adhesive on the back) can rest its bottom edge on the jig and tilted into place onto the door



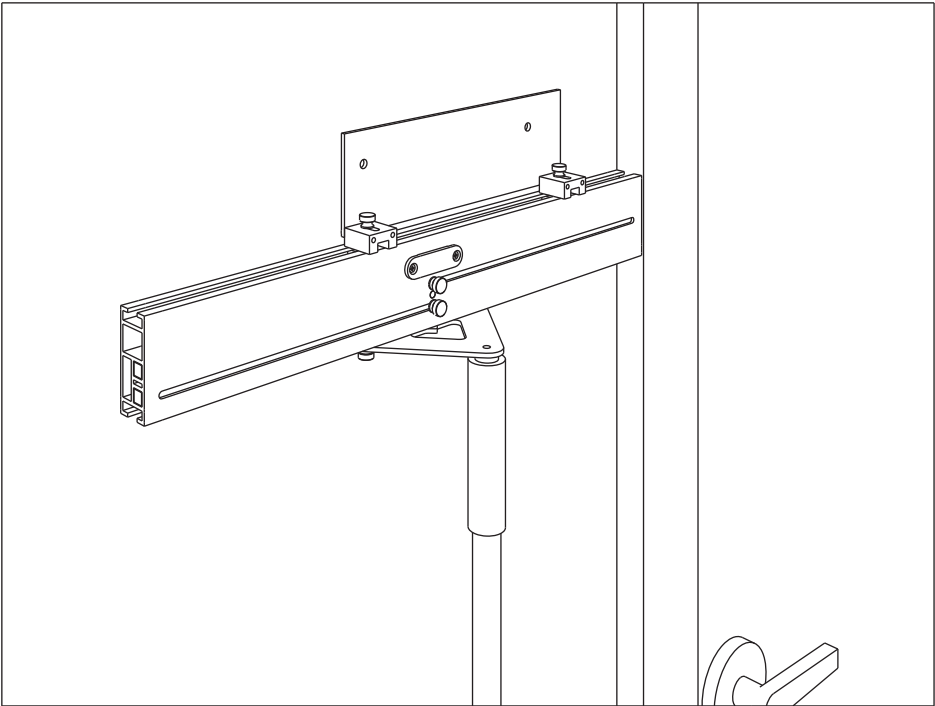
Installation centered on door



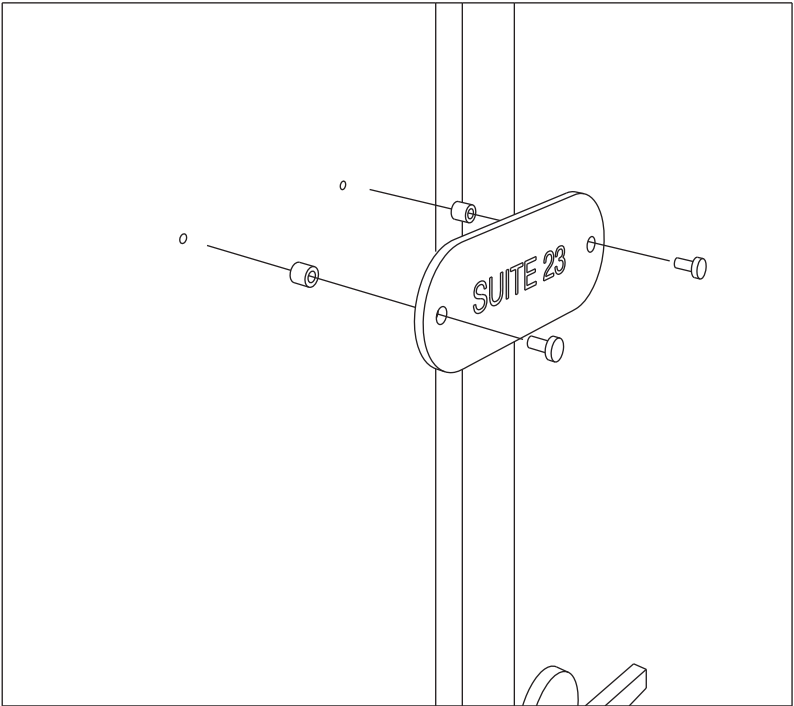
Jig has been custom designed to fit the Self-Centred Tool with mounting hole placement to achieve 4" from door frame mounting distance

Elevations

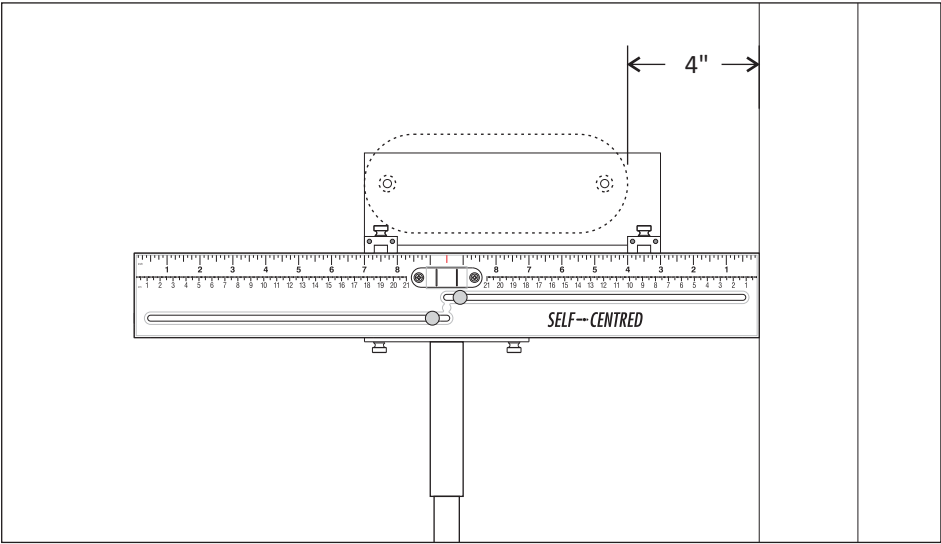
SCALE 1:16



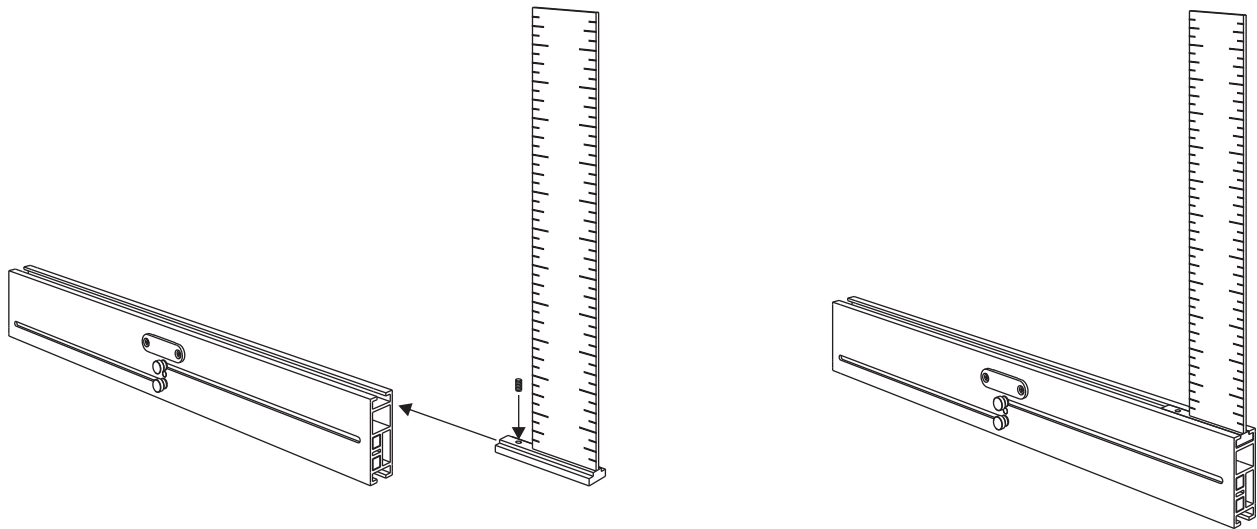
Holes in jig indicate where holes are to be drilled in the wall for anchors



After holes are drilled, the tool is removed and the sign can be mounted

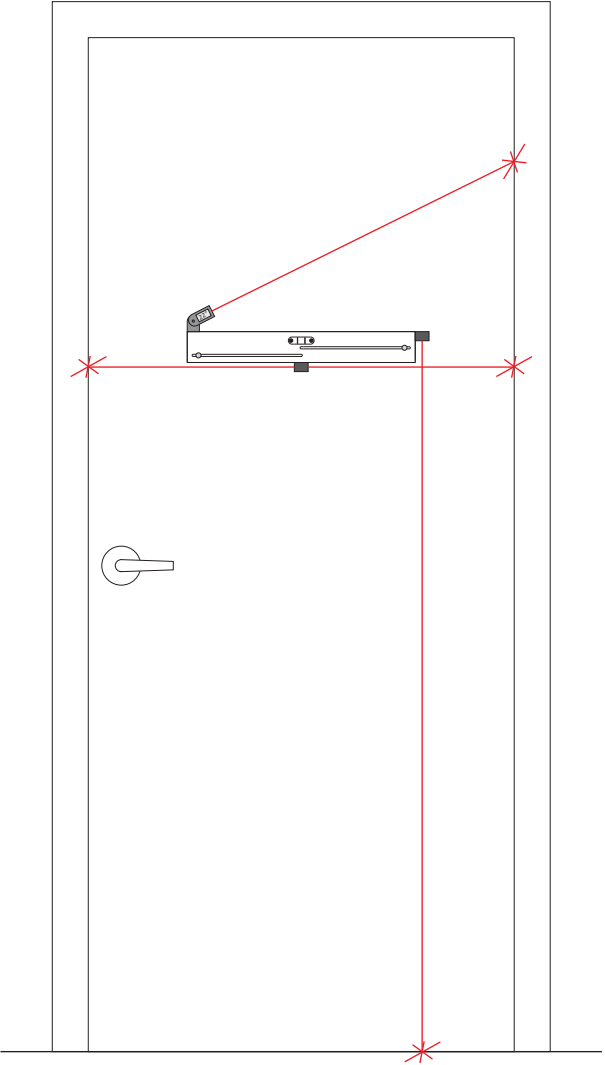


Jig has been custom designed to fit the Self-Centred Tool and for mounting hole placement to maintain a 4" from door frame mounting standard



A potential accessory is a carpenter’s square. It will have a base shape that matches the Self-Centre Tools extrusion and can be slid in and fastened with a set screw.

Other accessories can be slid into place and fastened in a similar fashion using either the top or bottom extrusion rails locations.



Another set of potential accessories are laser distance finders or angle finders. These can be used to digitally determine the height of the tool from the floor and used to center the tool within a space or doorway.