

# SEGMENT FLIPPER PLANS

Kevin Neelley made a video and uploaded it you the KC Woodturners YouTube area: <https://www.youtube.com/watch?v=RTnYKkbsHfo>

In the video, Kevin cuts segments for a 12-segment 7" diameter ring from maple using a Wedgie-Less Wedgie Sled made by Pete Marken and features a Segment Flipper made by Kevin but invented by a guy named John (don't know his last name) who has a YouTube video of this segment flipper entitled "Wedgie Sled Companion".



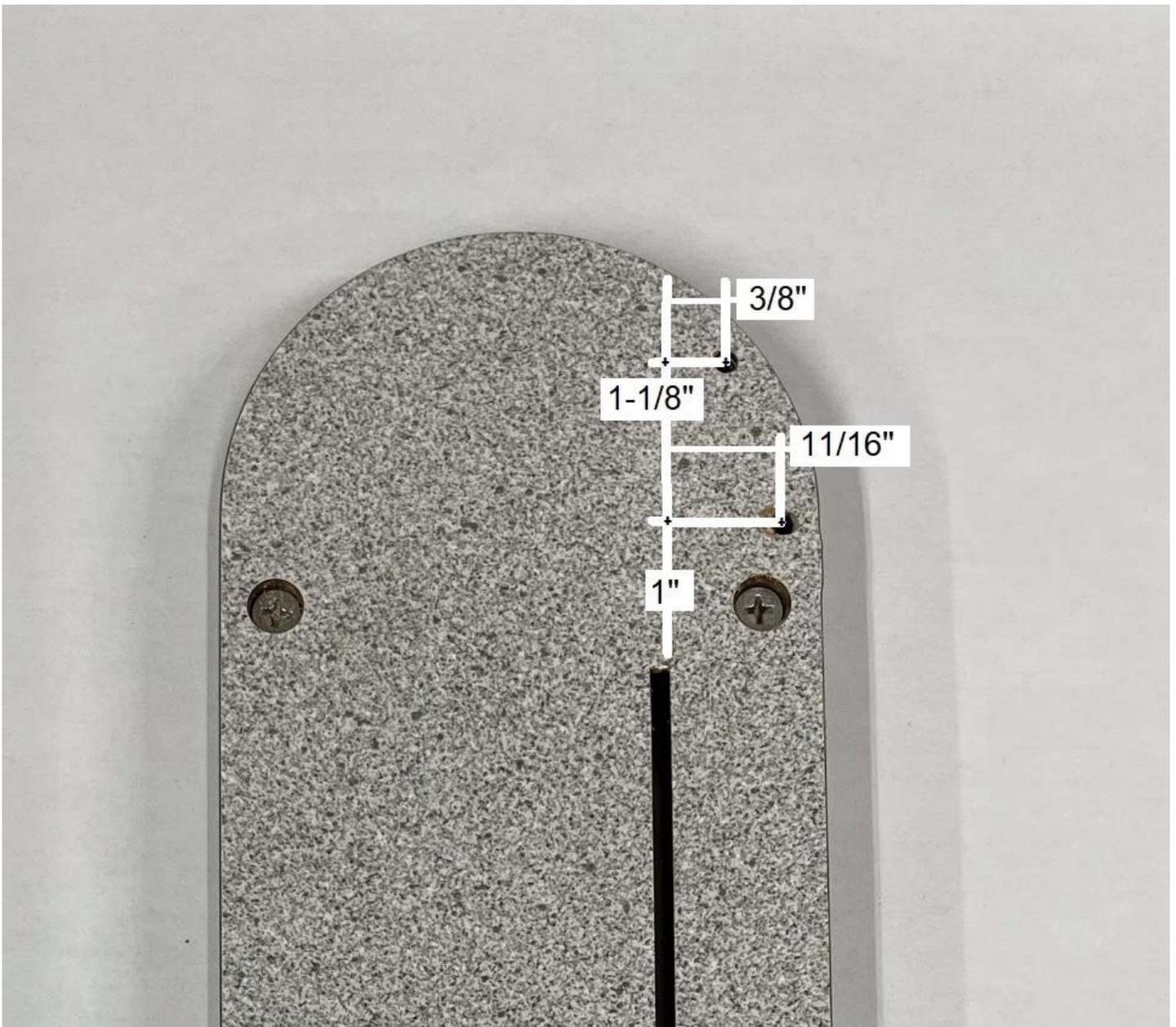
The Segment Flipper is constructed on a Leecraft DL-1 Zero Clearance Table Saw Insert so the insert and flipper can be easily removed and replaced with a regular blade insert. The DL-1 insert is made for Delta and other saws with a 3-3/4" x 13-3/8" opening, The flipper has about 1/16" clearance to the sawblade. The sawblade clearance is set by the location of the brass flipper pin at the bottom of the flipper and by the location of the flipper block's countersink screw hole.



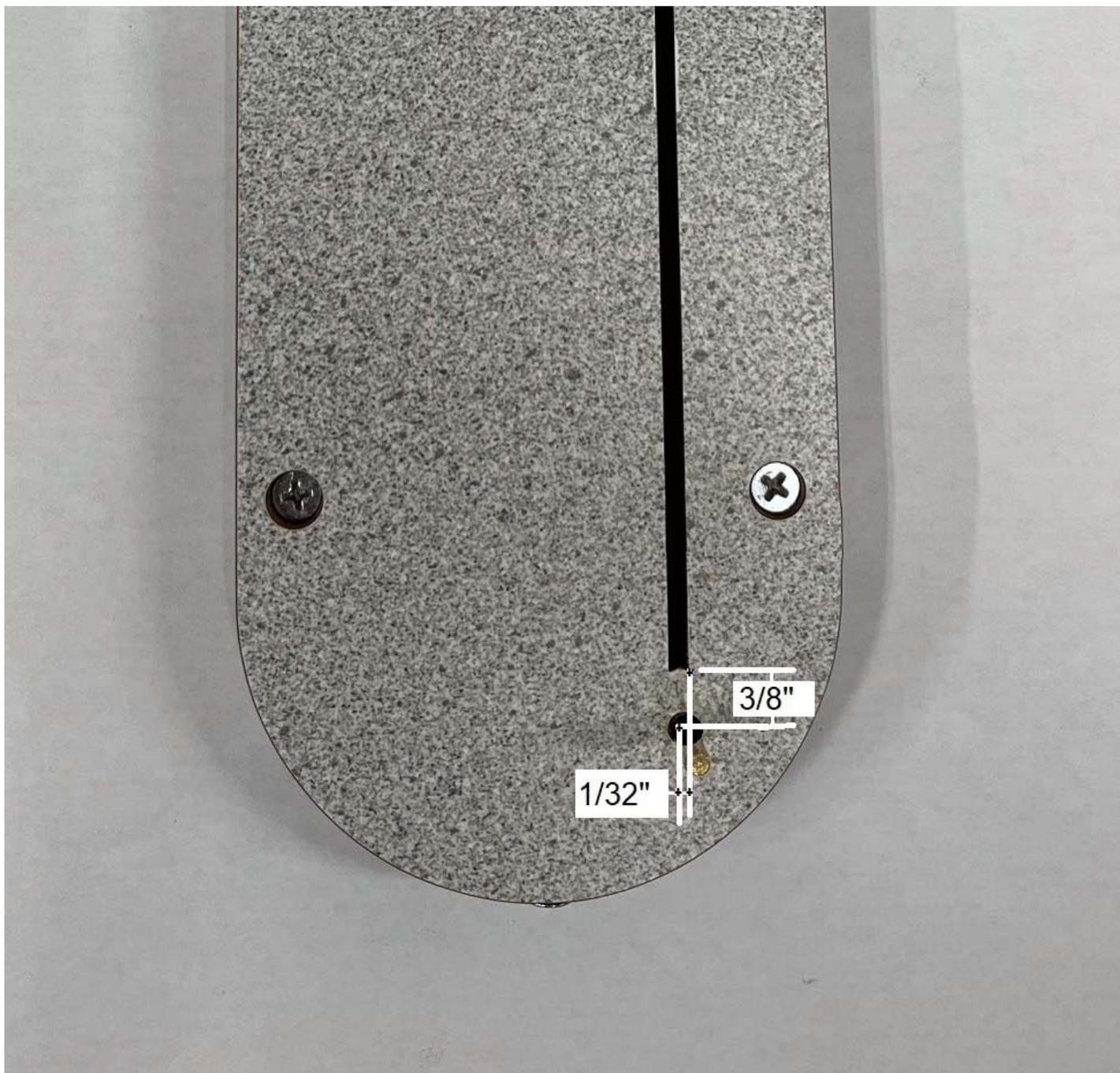
The Table Saw Blade Insert is modified by drilling three holes in it.



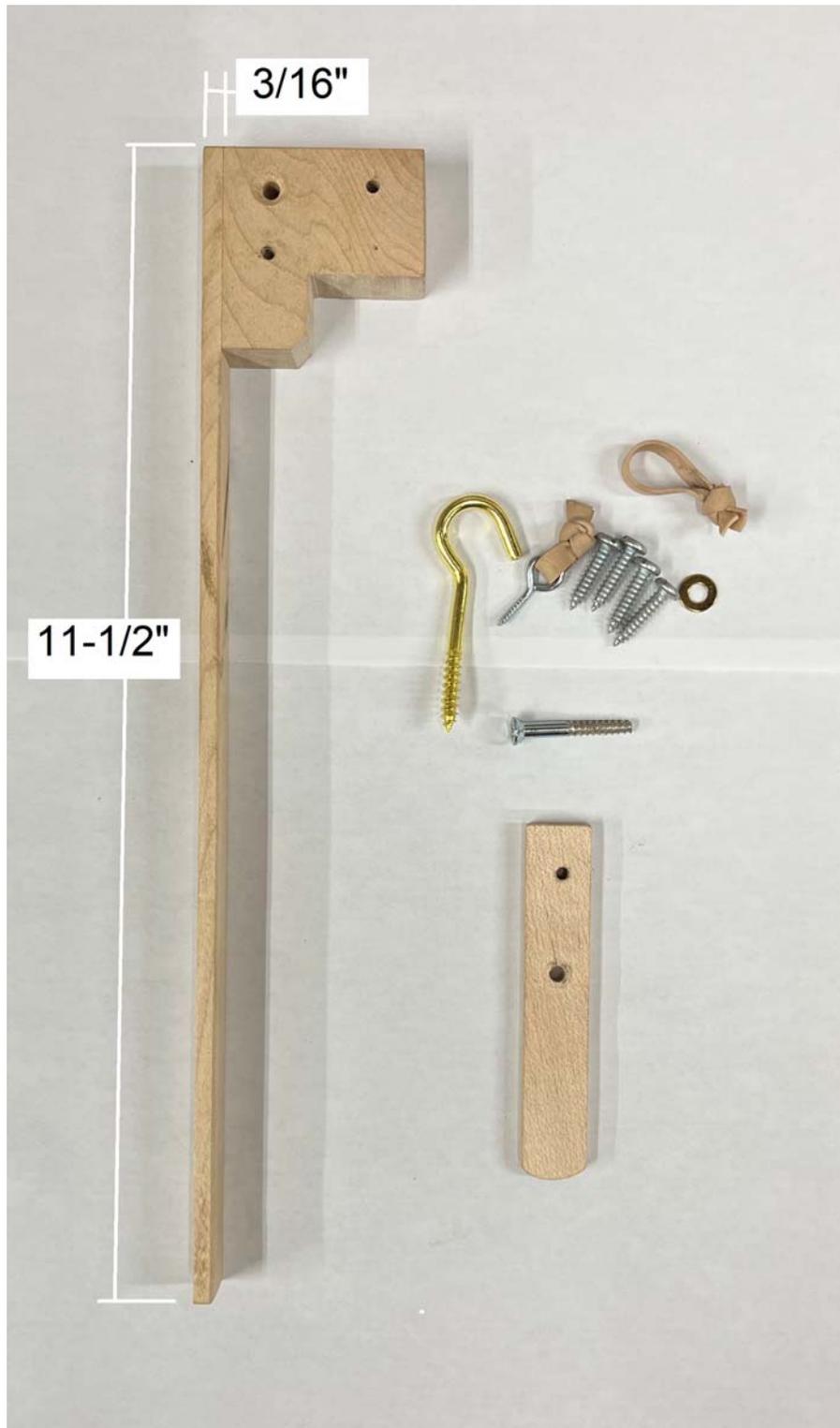
These are the screw hole locations for the Segment Flipper block mounting screw and the flipper return rubber-band screw. The holes are drilled a bit smaller than the thread diameter. The screws tap themselves into the blade insert. The location of the Segment Flipper block allows about 1/16" clearance to the saw blade. The hole locations are referenced to the upper-right corner of the blade slot.



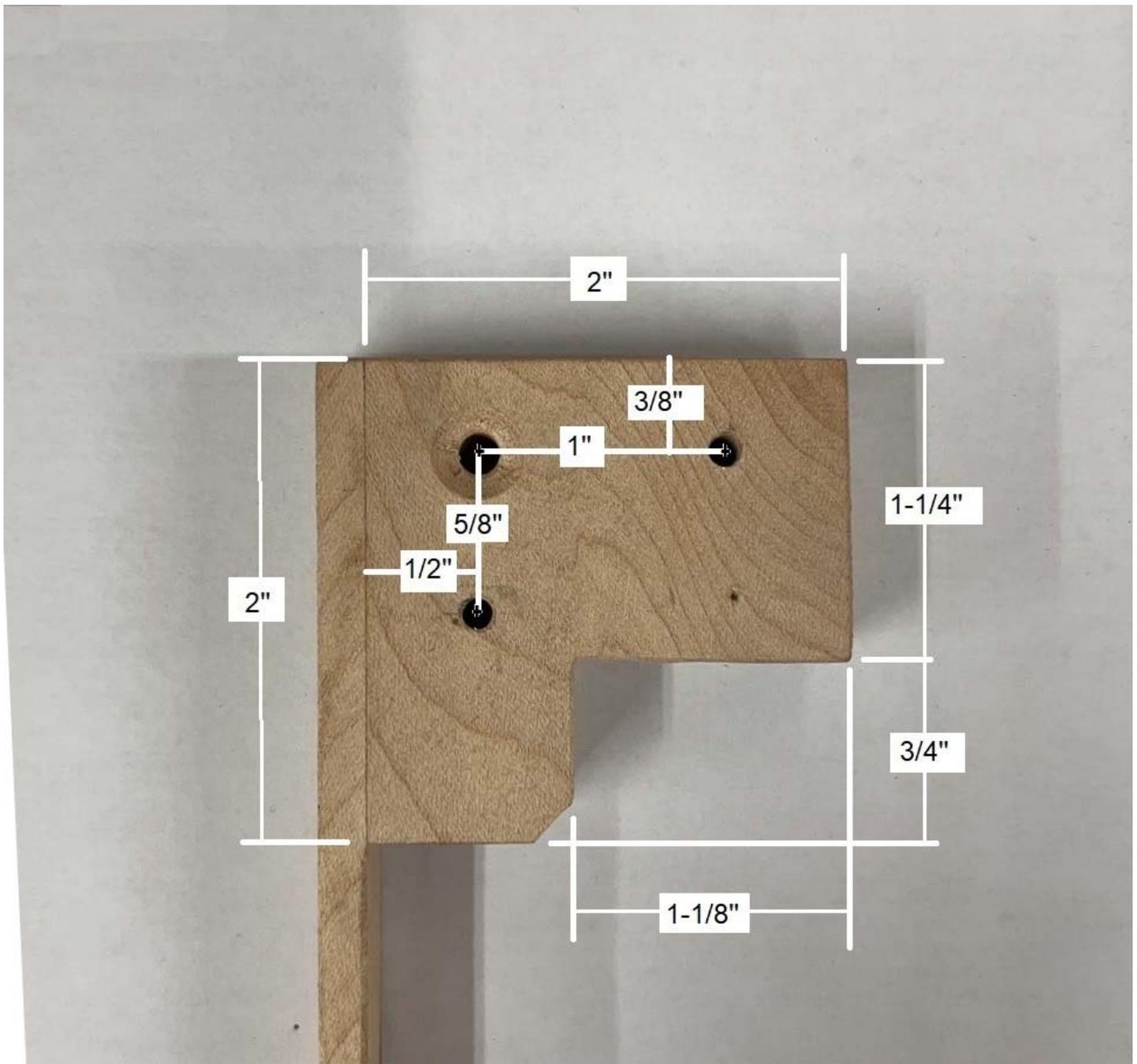
This is the screw hole location for the flipper pin. The flipper pin was made from a brass screw hook. I screwed in the screw hook, then cut off the hook and excess screw material under the insert leaving about 3/4" brass material to stop the flipper. The location of the flipper stop allows the flipper to have about 1/16" clearance to the table saw blade. The hole location is referenced to the lower-right corner of the blade slot.



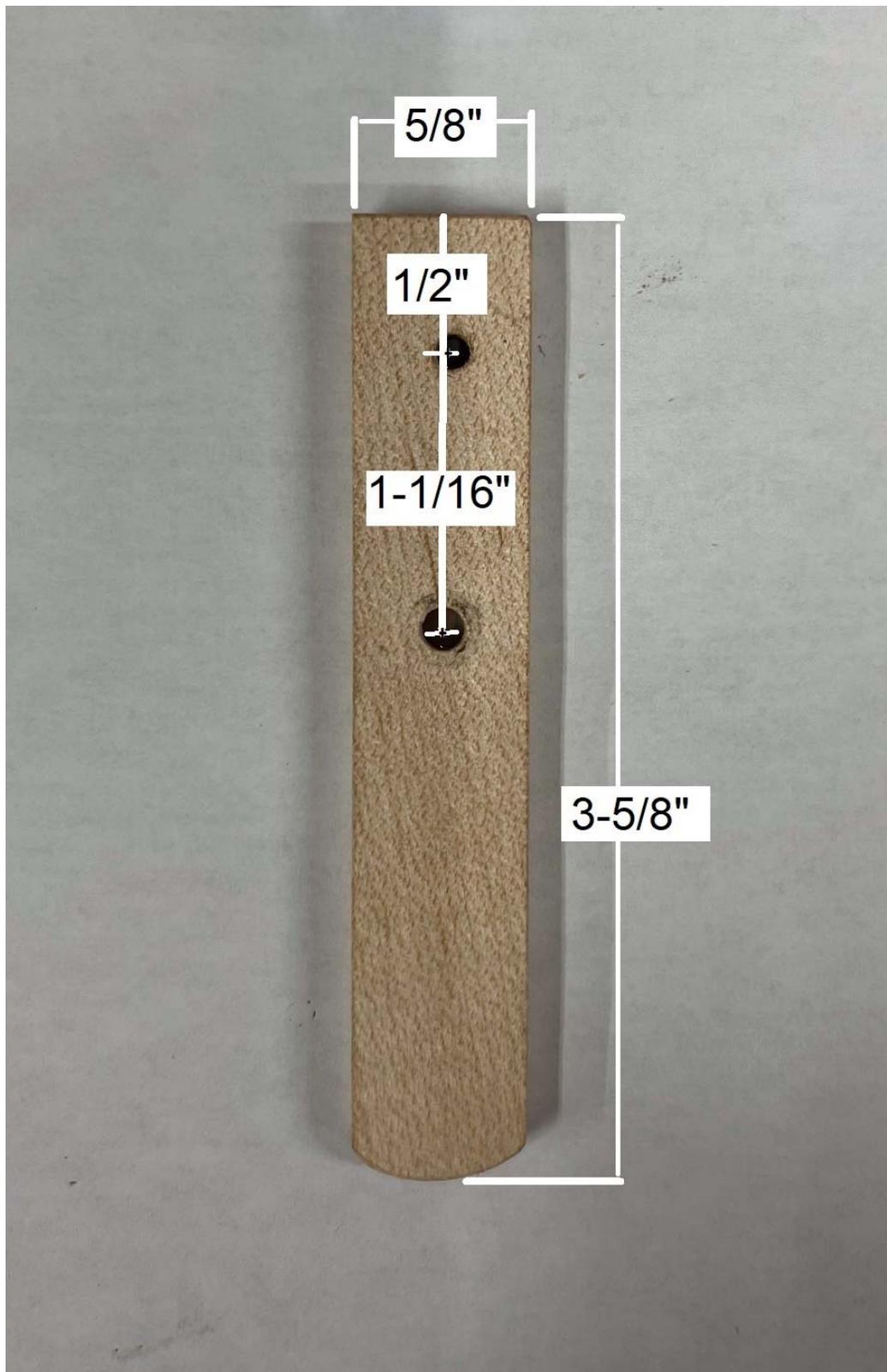
This is the Segment Flipper mechanism deconstructed. The flipper lever is glued to the flipper block. The thickness of the flipper and block is determined by the sled thickness. Pete Marken's Wedgie-Less Wedgie Sled is xxx thick, so my flipper and flipper block is about 1/32" thinner than the Pete Marken sled for clearance.



This is the Segment Flipper block dimensions and screw hole locations. The countersunk hole is thru-drilled so the block can pivot. The other two holes are drilled a bit smaller than the screws so the screws can self-tap.



This is the flipper finger dimensions and hole locations. The lower hole is drilled so the finger will pivot on the screw. The upper hole is for the stop screw so it is drilled a bit smaller than the screw diameter so its screw will self-tap.



This is the location of the sled finger pin. You need another 3/4" long screw for this location.



Here is the hardware needed for the Segment Flipper. There are six 3/4" long pan-head screws (the photo show five but you need six), one 1-1/2" counter sink screw, one small screw eye, one brass screw hook, one washer for under the finger, and two shortened rubber bands.

