

2025 5-Point Tongue Lock Mortise Mechanism Installation Instructions and Work Sheet

1. **IMPORTANT!** Handle all hardware in a clean work area. Sawdust and other debris may cause malfunction of the mechanism and other components.
2. You will need to know measurements for the door height and the desired handle height (if any).
3. **USE THE WORK SHEET BELOW.**
 - A. In the "A" column, enter the door height and subtract your handle height. From the top, you will take off the length of the reversing top shoot bolt, depending on which option you select (see table below for 3 reversing shoot bolt height options). The reversing shoot bolt will extend its bolt in the opposite way when the connector tab is pulled on. After subtracting the reversing shoot bolt length, this is the length at which the face plate and inner operating rod need to be cut at, measuring from the center of the handle operating hub.
 - B. Next, enter your handle height in the "B" column. Subtract 5.875" for the TM2-150 shoot bolt. The TM2-150 is a plain forward action shoot bolt (Extends by moving the connector tab in the same direction). After subtracting 5.875", this is the length at which the face plate and inner operating rod need to be cut at, again, measuring from the center of the handle operating hub. If the measurement is longer than the standard length mechanism, attach an extension to reach. Cut top mechanism to allow for extension and desired placement of shoot bolt.
4. **CUTTING:** Cutting can be done with a hack saw or power hack saw. Prepare your mechanism for cutting by using the handle with spindle in the operating hub. Rotate the hub so that the inner rod and face plate will become flush together at the very tip of the mechanisms' face plate. This is very important for it trims the face plate and operator rod at the correct position for including the shoot bolts and proper operation of the shoot bolts. Mark and cut. Repeat the same procedure for the top and bottom of the mechanism. (See FPL's Cut to Adjust Procedure drawing)
5. **MILLING DETAIL:** Prepare door with the milling details given.
6. **IMPORTANT!** Clean out mortise and channel of all sawdust and debris with a strong vacuum before inserting hardware into slot.
7. After vacuuming, insert hardware into mortise and channel.
8. Mark holes to be drilled. Remove hardware.
9. Drill pilot holes for the channel screws using a 1/16" drill bit.
10. **IMPORTANT!** Clean out the mortise and channel once again of all sawdust and debris with a strong vacuum. Sawdust and debris may cause malfunction of the mechanism.
11. In a clean work area, install mechanism and components into the door. Install handles, plates, and key cylinder. Test and adjust.
12. When using this mechanism on an active double door, the #2030 Inactive 2 Point Locking Door Mechanism should be installed on the inactive door behind an astragal. Note that the #2025 mechanism strikes are to be installed on an astragal, both for the main latch/deadbolt (either #SP2010LL for Left Hand, or #SP2010LR for Right Hand), as well as the 2 tongue locking points (#344).
13. Determine where shoot bolt strikes are to be placed. Install adjustable shoot bolt strikes. Following are the strikes and corresponding installation tool (use installation tool to adjust):
 - #398 (Thimble): Use FPL's Thimble Strike Driver, #398DR (8mm square head can be removed from manual driver and used as a drill driver tip)
 - F10PZREL (Rectangular) - use 10mm or 3/8" hex key
13. Test and adjust. Determine where the #2025 latch/deadbolt strike (either #SP2010LL for Left Hand, or #SP2010LR for Right Hand), and the Tongue strikes (#344) will be placed, and install them on the astragal.

PAIN T & FINISH WARNING: ATTENTION HOMEOWNERS, PAINTERS AND INSTALLERS!!! If doors are to be painted, stained, varnished or finished – it is important to remove the mechanism and all it's components before doing so to prevent any contact with the mechanism or its components. Paint, stain, varnish and other chemicals that come in contact with the mechanism or any of its components may cause malfunction or damage and thus voids all warranties. If claims are submitted where warranties have become void, service call and replacement merchandise charges will apply and advance payment will be required for replacement merchandise and before service is performed.

"A"		"B"	
ENTER DOOR HEIGHT:			
SUBTRACT HANDLE HEIGHT:	-	→ ENTER HANDLE HEIGHT:	
SUB-TOTAL:		SUBTRACT FOR TM2-150:	- 5.875
SUBTRACT FOR REVERSING SHOOT BOLT (CHOOSE ONE)	IM2-150: -5.875 IM2-199: -7.875 IM2-556: -21.875	BOTTOM CUT AT:	
TOP CUT AT:		PLEASE PRINT TO USE AGAIN.	

System 2025

CUT TO ADJUST AND CONNECTION PROCEDURE

