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**INSTRUCTIONS
FOR
HIT-66-255 TEMPLATE
FOR
MARKS MORTISE LOCK**

**WHEN USING POWER TOOLS
ALWAYS WEAR
EYE AND EAR PROTECTION!!**

THINK SAFETY!!

**WHEN USING POWER TOOLS
ALWAYS WEAR
EYE PROTECTION!!**

Before attempting any installation know how to safely use the power tools involved. Be sure all bits and cutters are sharp and in good condition and all power tools and extension cords are in good working order and properly grounded. **AND MOST IMPORTANTLY, BE SURE TO WEAR, EYE AND EAR PROTECTION.**

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Drill Bit Types



All hole saws are not created equal. A cheap hole saw from a home improvement center or one that has been dropped can be out of round and will not fit the drill bushings in our templates.



Shown above is a standard twist drill bit. They can be used on both wood or steel doors. Be sure to back out the bit when drilling to clear chips.



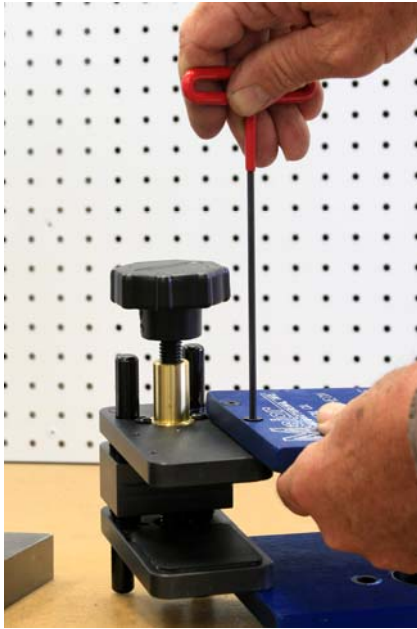
Shown above and at right is a brad point bit. They will produce a very clean hole in a wood door. Use at a low speed and back the bit out to clear chips. Do not use on a steel door.



Shown above is a tri-flute drill bit. Do not attempt to use this in a drill guide. The lack of bearing surface will cause the bit to jam.



Shown above is a spade or paddle type bit. Do not attempt to use this in any drill guide. There is no bearing surface and you will jam the bit.



NOTE: The HIT-66 clamps shown are not part of the HIT-66-255 template set and must be purchased as a separate item.

With both clamps opened equally, install both inside and outside templates to the HIT-66 clamp as shown. Do not tighten the 10-32 screws at this time. When all screws have been loosely installed, then it is ok to tighten.

This will center the drill guide correctly.



Install the alignment guide to either side of the template set. This is used to align the template to the mortise pocket.



Shown is a standard mortise pocket, we will use this as a basis for the Marks Mortise Lock install. While a new install is shown, this drill guide is the perfect tool for a retrofit install.



Install the mortise lock positioning plate. The plate will fit into the 1-1/4" x 8" faceplate cut out. There will be a 3/8" diameter pin centered on the plate. There is no top or bottom to worry about.



Slide the HIT-66 alignment fixture over the alignment pin and tighten to door. Alternate tightening between the top and bottom clamp. Do not attempt to tighten one clamp all the way at once.



For this installation you will need 5/8", 1" and 1-1/4" hole saw. Also required will be a 3/8" diameter twist drill.



Start by drilling the thru bolt holed located above and below the spindle with the 3/8" diameter drill bit. Drill both sides of door to the mortise pocket.

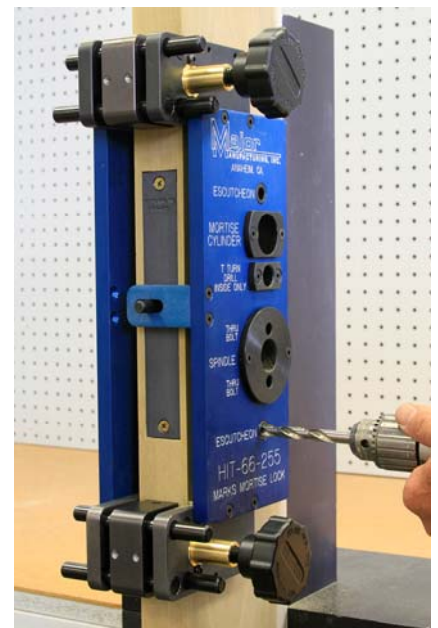


Opposite side of thru bolt holes being drilled.



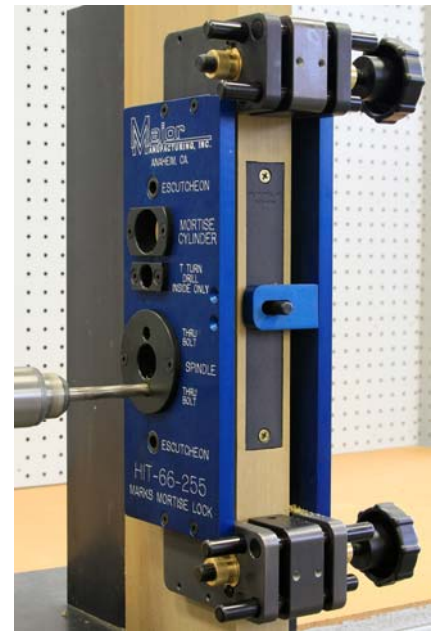
If the lock being installed requires thru bolt holes for escutcheon trim, drill them now with the 3/8" bit still in the drill. Drill half way from both sides of door, top and bottom.

DO NOT DRILL THESE HOLES IF USING ROSE TRIM.





Opposite side of escutcheon trim being drilled.



Change to a 1" hole saw and drill the spindle hole. Use a slow speed and back the hole saw out a few times to clear the hole saw from chips. Drill to the mortise pocket from both sides of door.



The mortise cylinder hole is drilled next with a 1-1/4" hole saw. Drill only on the side of the door that requires a cylinder.





The last hole to be drilled is for the thumb turn if required. The factory template calls for either a 5/8" or 7/8" hole depending on rose or escutcheon trim. A 5/8" works for all the escutcheon trim tested. Drill on the inside of door to the mortise pocket.



Remove the HIT-66 clamp, template and alignment plate from door.



Finished lock prep.



Install lock per manufacturers directions.
That's all there is to it!

Visit our web site at www.majormfg.com for more information on lock templates and a complete listing of all the tools we have available. While there, sign up for our newsletter and we will email new product information directly to you.