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**INSTRUCTIONS  
FOR  
HIT-66-248 TEMPLATE  
FOR  
HAGER SERIES  
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.



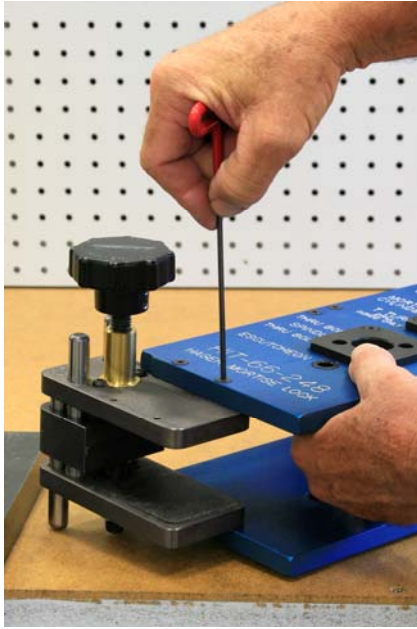
Shown above and at right is a brad point bit. They will produce a very clean hole in a wood door. Use at a low speed and back the bit out to clear chips. Do not use on a steel door.



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.

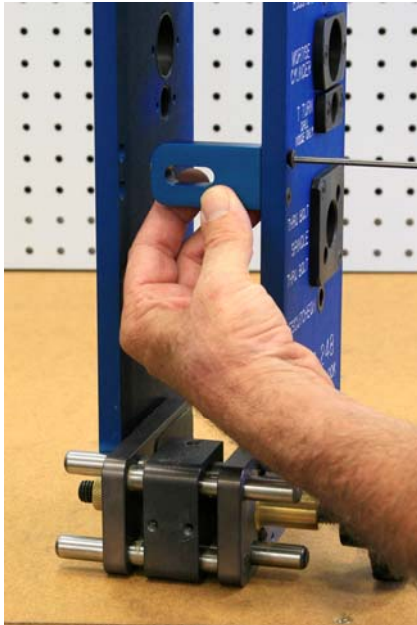


Shown above is a spade or paddle type bit. Do not attempt to use this in any drill guide. There is no bearing surface and you will jam the bit.



**NOTE: The HIT-66 clamps shown are not part of the HIT-66-248 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.



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



Shown is a standard mortise pocket, we will use this as a basis for the Hager Mortise Lock installation.



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 template guide onto 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.



With a 3/8" twist drill, drill the thru bolt holes on both sides of the door. These holes go to the mortise cavity. Do not attempt to drill from one side through to the other.





With the 3/8" bit still in the drill, drill the top and bottom escutcheon trim holes. Drill these from both sides of the drill guide.



Use a 1" hole saw to drill the spindle hole. Drill this hole to the mortise pocket from both sides of the door. When drilling back the hole saw out a few times to clear saw dust from the cut.



Use a 1-1/4" hole saw to drill the mortise cylinder hole on the outside of the door. Again, back the hole saw out a few times to clear saw dust from the cut.



Use a 5/8" diameter hole saw to drill the hole for the thumb turn. This hole is drilled on the inside and drilled to the mortise pocket.

When all holes have been completed, remove the HIT-66 drill guide from the door.



**Completed lock prep.  
Install lock per manufacturers  
directions.**

**That's all there is to it!**

**Visit our web site at [www.majormfg.com](http://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.**