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**INSTRUCTIONS
FOR
HIT-66-110 TEMPLATE
FOR
CYLINDRICAL LOCK PREPS**

**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.



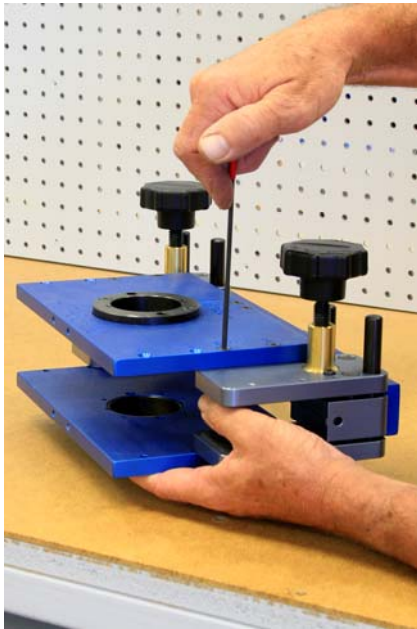
Shown above is a tri-flute drill bit. Do not attempt to use this in a drill guide. The lack of bearing surface will cause the bit to jam.



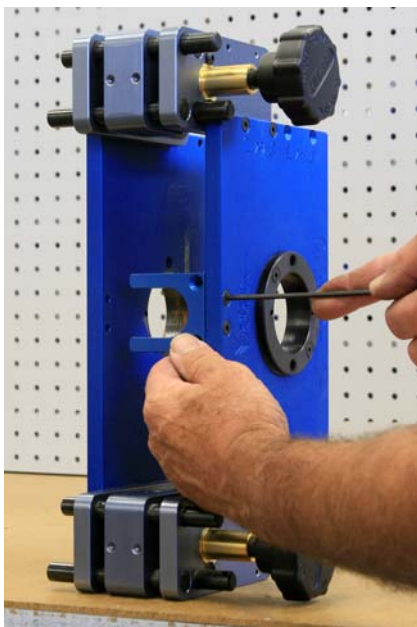
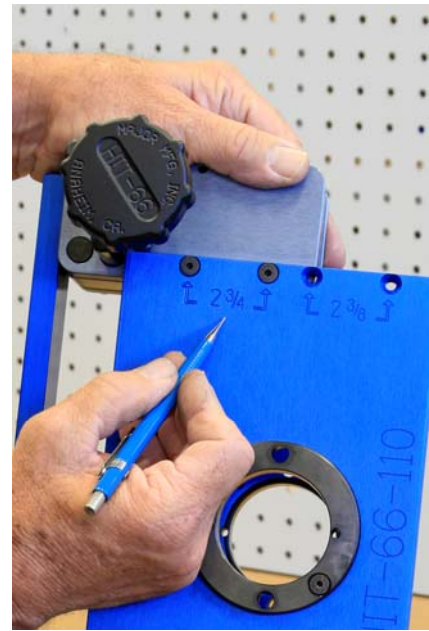
Shown above is a spade or paddle type bit. Do not attempt to use this in any drill guide. There is no bearing surface and you will jam the bit.

The HIT-66-110 can be used to retrofit a cylindrical prep to accept a lever lock with 5/16" diameter posts at 2-3/4" center to center. It can also be used to true up a mis-drilled cross bore or to convert a 2-3/8" backset to 2-3/4". Set your clamp system up in the following manner.

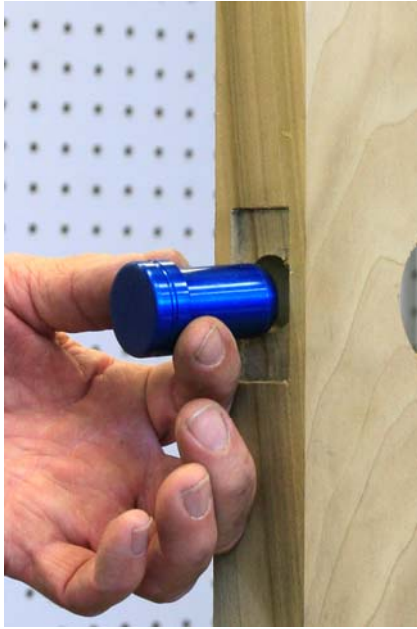
NOTE: The HIT-66 clamps shown are not part of the HIT-66-110 template set and must be purchased as a separate item.



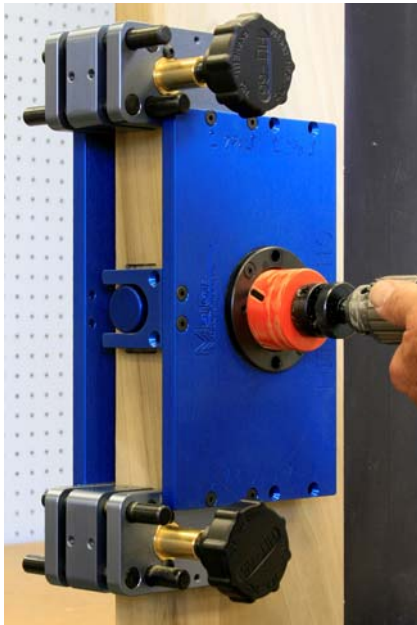
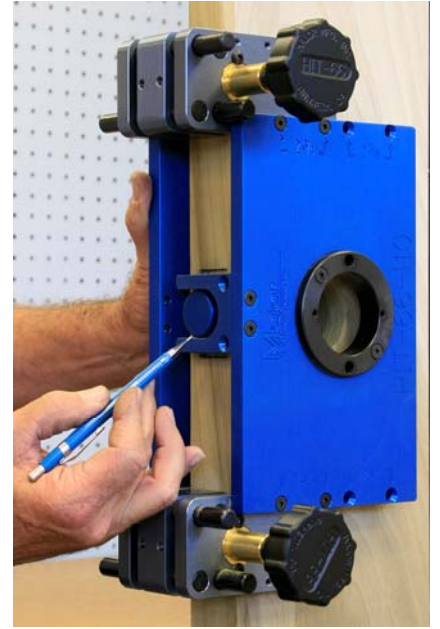
With both clamps opened equally, install both inside and outside templates to the HIT-66 clamp as shown. Do not tighten the 10-32 screws at this time. When all screws have been loosely installed, then it is ok to tighten.



Install the alignment guide to either side of the template set. This is used to align the template with the cylindrical latch hole for retrofits.

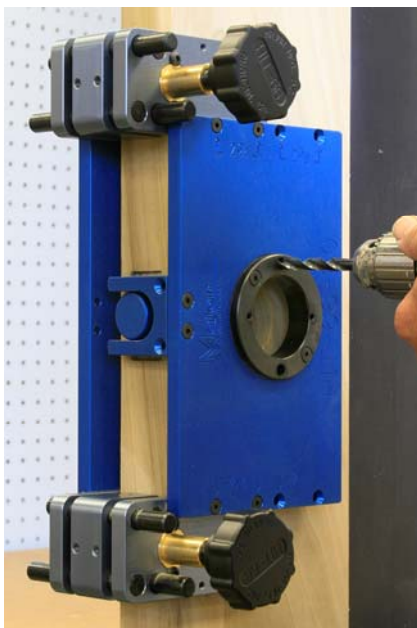


Insert the alignment plug into the latch hole. Place the clamp over the plug and tighten the top and bottom clamp knobs. When tightening to door, alternate between the top and bottom knob, do not tighten one clamp all the way at once.

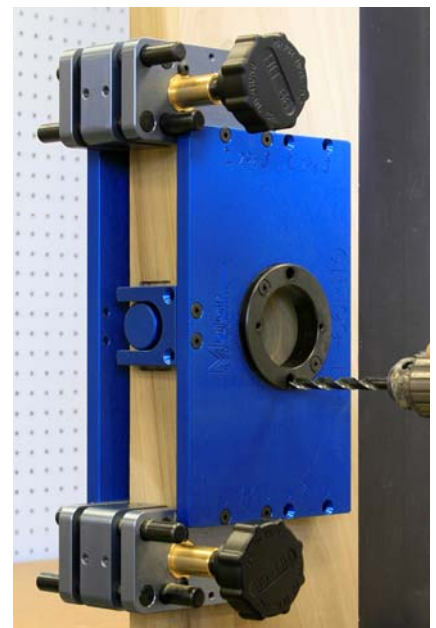


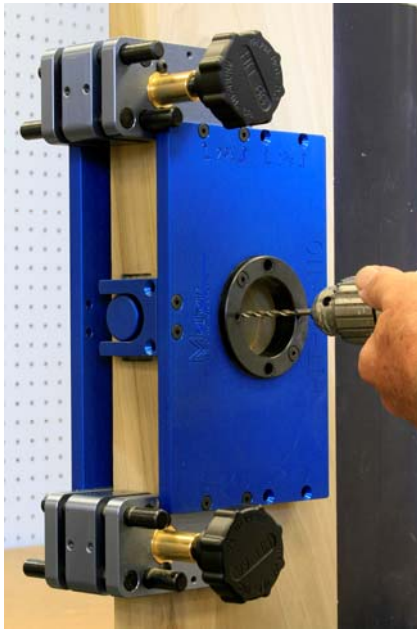
Using a 2-1/8" hole saw, the cross bore can be trued up or changed from 2-3/8" to 2-3/4" backset. The hardened bushing will support the hole saw when drilling. Be sure to use a low RPM and pull the hole saw out a few times when drilling to clear saw dust. Drill half way from both sides of the door.

NOTE: Hole saws vary in quality, some are more round than others and more consistent in size. Not every 2-1/8" hole saw will fit this bushing.

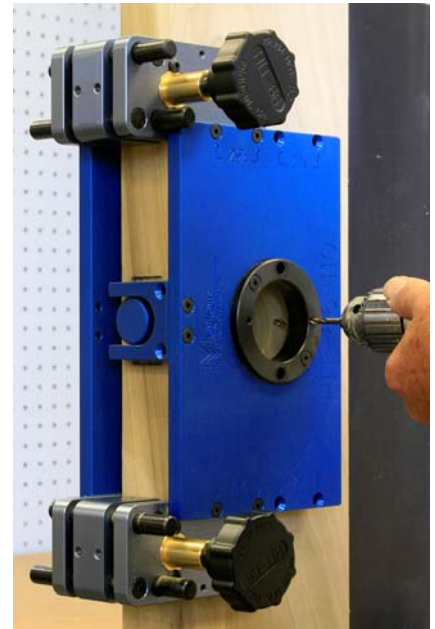


If drilling for a lever lock, use a 5/16" diameter drill bit and drill both top and bottom holes. Do not go all the way through the door, drill half way from both sides.





If the lock you are installing uses anchor plate lugs, they may be located using a 5/32" drill bit, Drill to a depth of about 1/4" using the 3:00 and 9:00 bushings. They are located on both sides of the door.



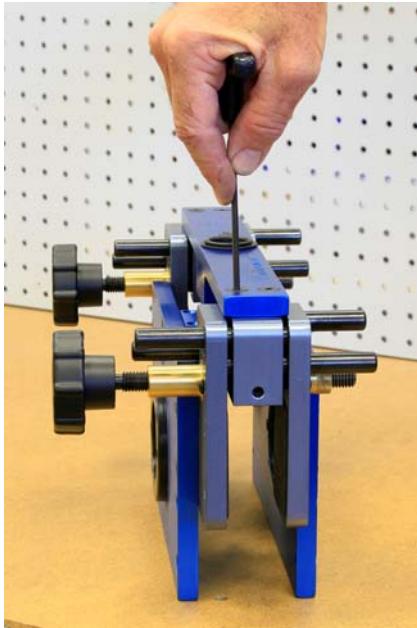
The prep is now complete, install lock per manufacturers directions.

That's all there is to it!

If using the HIT-66-110 for a new install, set up your HIT-66 in the manner on the following pages.

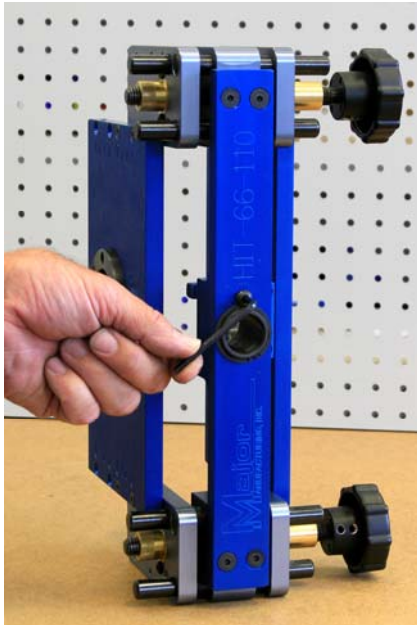
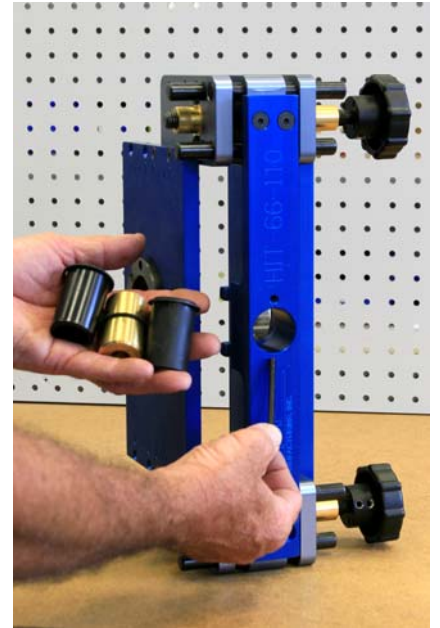
The edge bore guide may be left installed and the unit may still be used for retrofitting.

It was omitted in the first pages for clarity of the alignment plug and yoke.

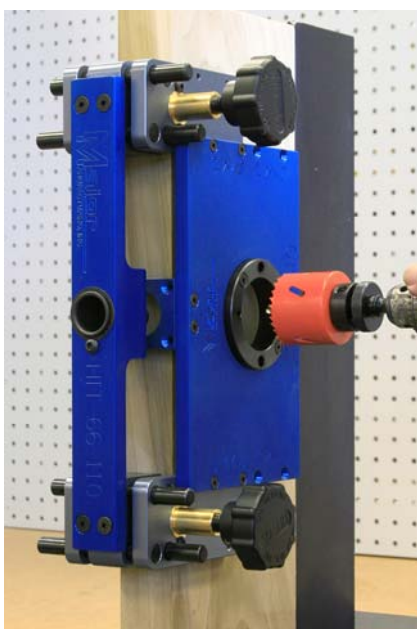


Install the HIT-66-100 guide to the front of the HIT-66 clamp system. The guide will fit over the top of the “U” shaped alignment fixture and will not interfere with it.

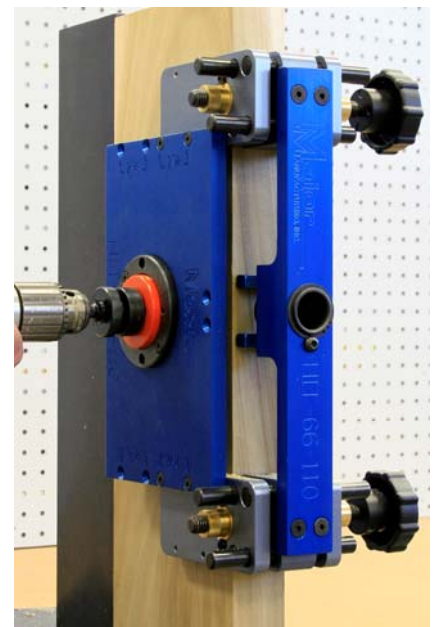
The guide is supplied with three different drill bushings that will allow a selection of bits.

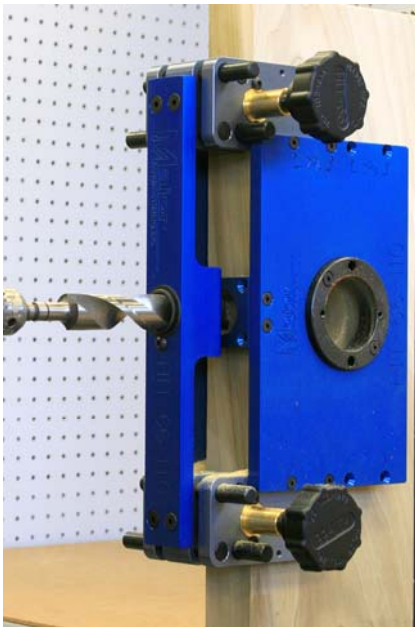


The edge bore drill bushing is held in with a button head cap screw. To install, put bushing in hole and secure with the button head cap screw.



Using a 2-1/8” hole saw, drill half way from both sides of door. Use a low RPM when drilling. Back the hole out a few times when drilling to clear saw dust.



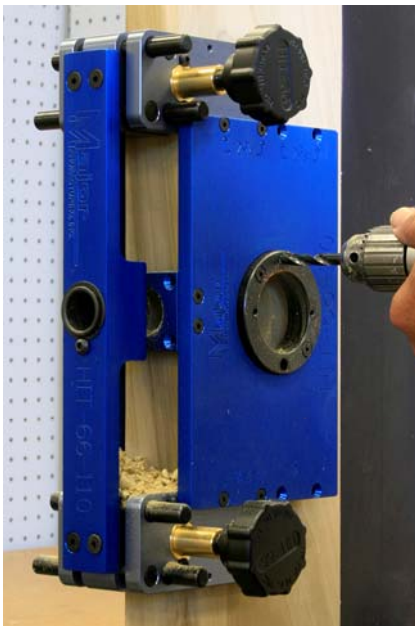


We chose a 1" diameter brad point bit (P/N HIT-44B15) to drill the latch hole. A number of other bits shown will work fine.

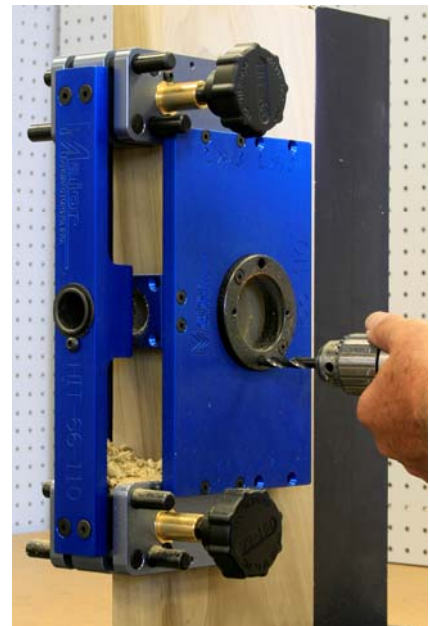
See the last page for a listing.

If installing on a steel door, a hole saw may be used for this step.

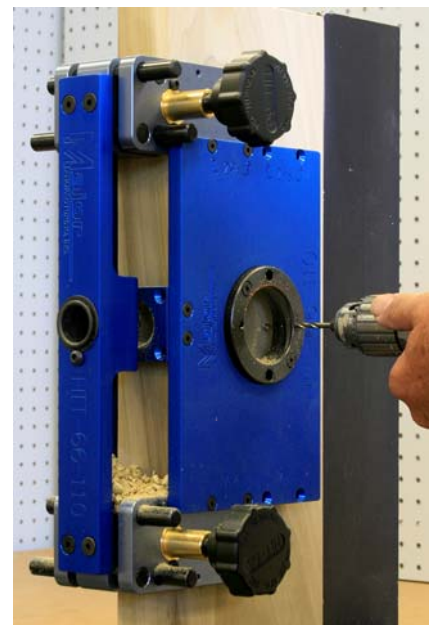
Again, when drilling use a low RPM and pull the bit out a few times to help remove chips.



Drill the post holes with a 5/16" diameter bit if installing a lever handle lock. Be sure to drill half way from both sides of the door.

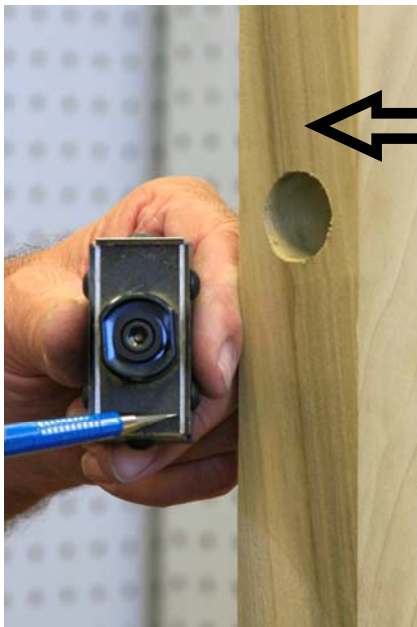


If the lock you are installing uses anchor plate lugs, they may be located using a 5/32" drill bit, Drill to a depth of about 1/4" using the 3:00 and 9:00 bushings. They are located on both sides of the door.

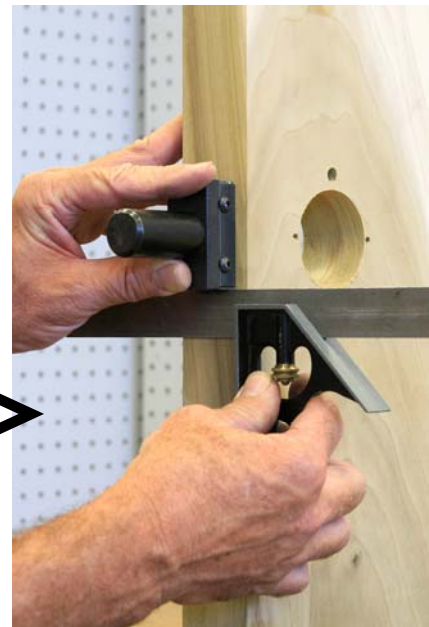




When all holes have been completed, remove the HIT-66 system from the door.



We are using our HIT-44LM3 latch marking tool to mark the area for the faceplate. There is a 1/16" shim that is used to adjust to a 1" or 1-1/8" face. With the shims on the inside, this will mark a 1-1/8" face.



The use of a combination square will help to square the marker to the door.



Use a hammer and mark for the faceplate.



Use a sharp box cutter to deepen the vertical outline left by the marking tool. If you use a chisel for this step you run the risk of splitting out the side of the door.



A chisel can be used to deepen the top and bottom of the outlined area. Once everything has been outlined, chisel out the latch mortise.



Don't forget to mark the jamb for the strike plate. Shown is our HIT-44SL8 strike locator.



Use one of our centering drills to drill for the latch screw. This will assure a centered hole and will allow you to drive in the screw without splitting the door. Do not attempt to drive in a screw without a pilot hole.



Completed lock prep.



Install lock per manufacturers instructions.

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.

We supply a large selection of bits that can be used to drill the edge bore. They are listed below:



Visit our web site at www.majormfg.com to see our complete line of tools and accessories. While there, sign up for our new product releases and we will email them direct to you.