



1825 VIA BURTON  
ANAHEIM CA 92806  
714-772-5202 / FAX 714-772-2302  
EMAIL: MAIL@MAJORMFG.COM  
WEB: WWW.MAJORMFG.COM

**INSTRUCTIONS  
FOR  
HIT-66-280 TEMPLATE  
FOR  
SCHLAGE AD 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.**

Copyright 2010—Major Manufacturing

# 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.



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.

**NOTE: The HIT-66 clamps shown are not part of the HIT-66-280 template set and must be purchased as a separate item.**



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

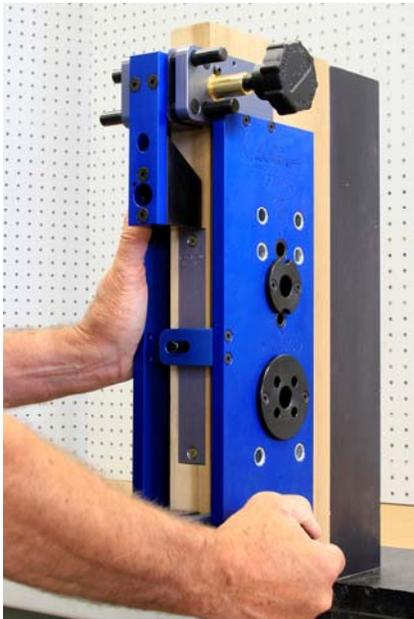
With a 5/32" allen wrench, install the DPS drill template to the top of the clamp.



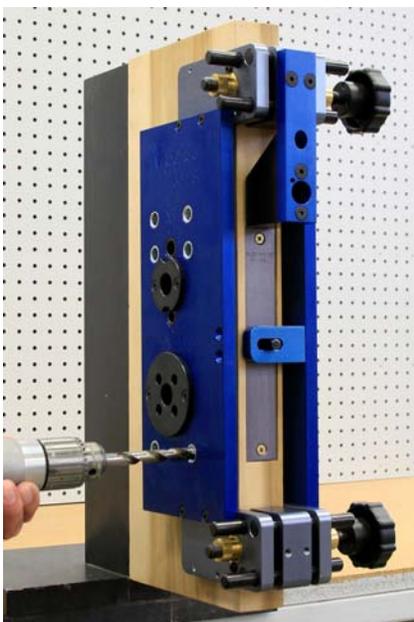
Shown is a standard mortise pocket, we will use this as a basis for the Schlage AD install.



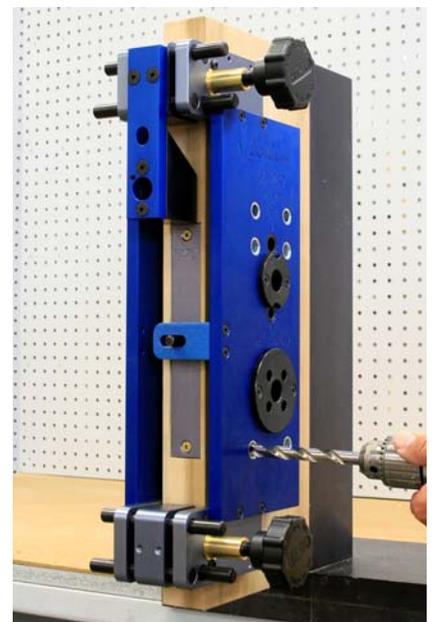
Install the mortise lock positioning plate. The plate will fit into the 1-1/4" x 8" faceplate cut out. There will be a 3/8" diameter pin centered on the plate. There is no top or bottom to worry about.



Slide the HIT-66 set up 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.



Start by drilling all of the holes located by the silver color drill bushings. Drill size is 7/16", drill half way from both sides of the door. There are a total of six holes to drill.



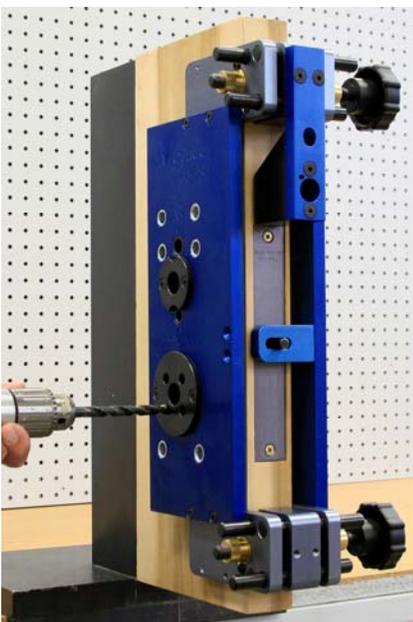


Using a good quality hole saw, drill the spindle hole using the drill bushing shown in the picture. The hole saw size is 3/4" and is drilled to the mortise pocket on both sides of the door. Use a slow speed when drilling.

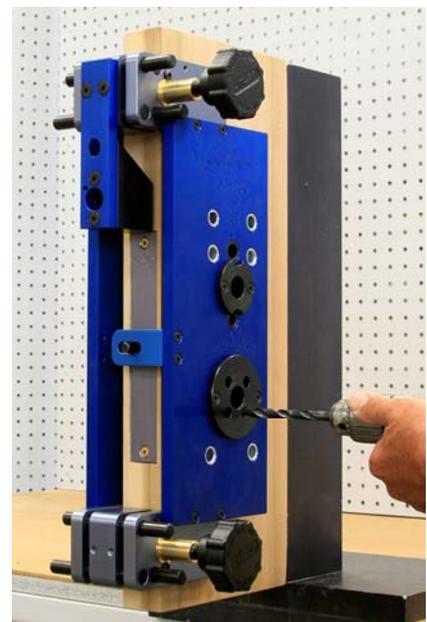
(You can also use a 3/4" brad point bit on a wood door only.)

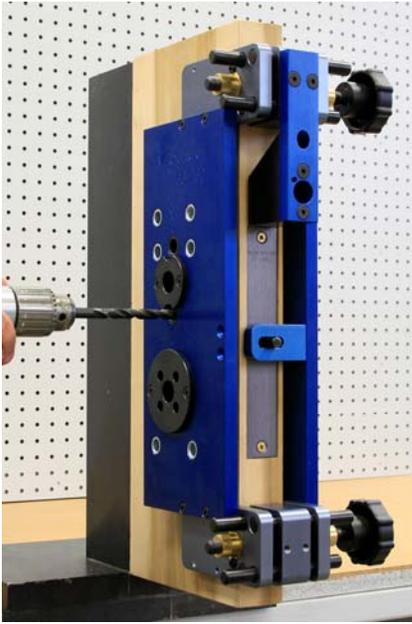


With the 3/4" hole saw still in the drill, drill the 3/4" wire run hole. Drill half way from both sides of the door. Use a slow speed when drilling.

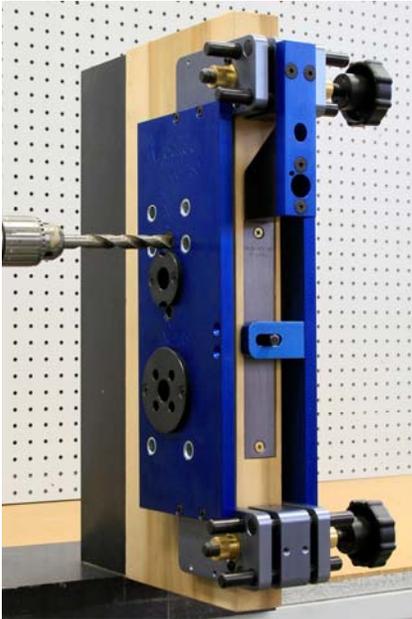


Drill the four 3/8" holes located around the 3/4" spindle hole. Drill to the mortise pocket from both sides of the door.

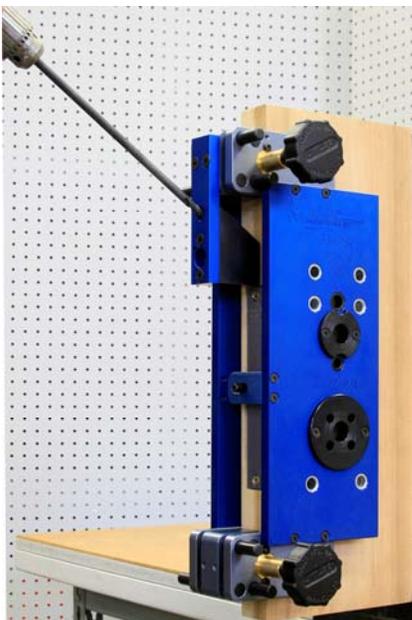




If your AD Mortise Lock is equipped with a dead bolt function, drill the DB hole at this time. NOTE: The factory template calls for a 5/8" hole, a 3/8" hole will work perfectly. Drill to mortise pocket on inside of door only.



If installing a lock with a door position switch, drill a 1/2" diameter hole on the inside only. Drill a little past center, this hole will meet up with the angled hole drilled in the next step.



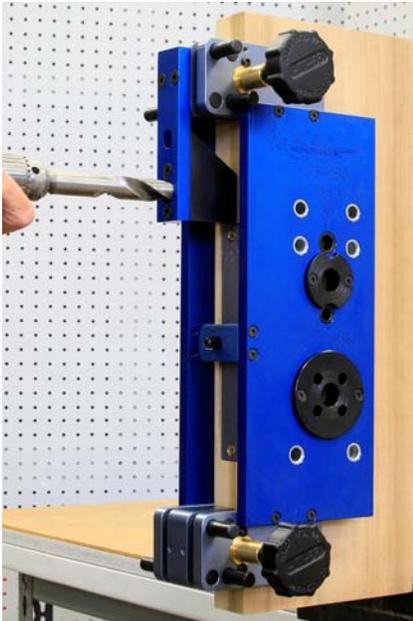
Using a 5/16" diameter long drill bit, drill to the DPS hole drilled in the step above. When drilling a deep hole, pull the bit out when drilling to remove chips.

NOTE: Schlage template calls for a 1/2" hole, a 5/16" hole works perfectly and is easier to drill.

**OMIT THIS STEP IF  
INSTALLING ON A STEEL  
DOOR.**

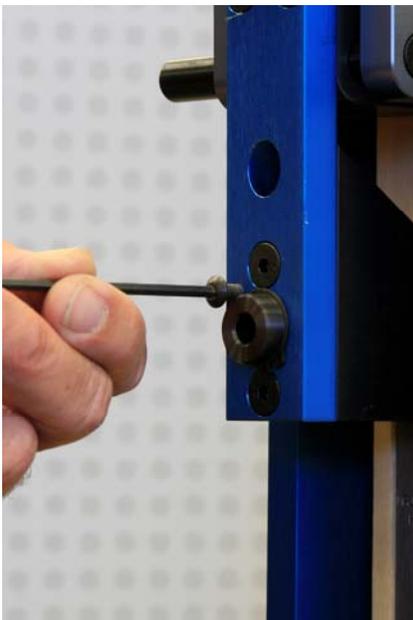


Use a 3/4" brad point bit to drill the hole for the door position switch. Use this bit on wood doors only.

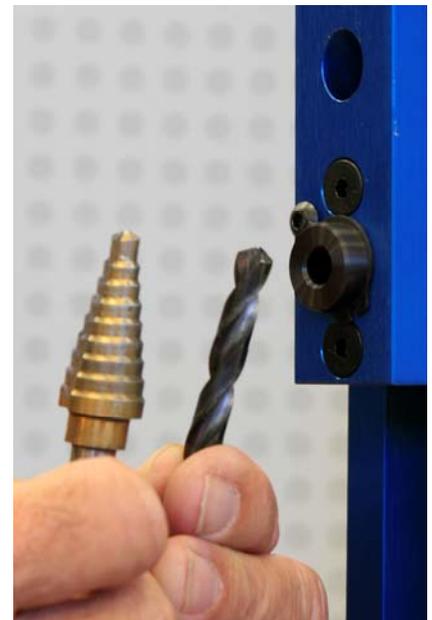


Drill this hole to a depth of 1-1/2". When drilling this hole, back the bit out a few times to clear out the chips.

## STEEL DOOR DIRECTIONS BELOW



If installing in a **steel door**, do not attempt to drill this hole with a hole saw. The hole will be too big and the door position switch will not be held firmly. Install the 5/16" supplied bushing and screw.( shown at left) Next drill a 5/16" diameter hole. Drill this hole to 3/4" with the use of a step drill as shown ( on right ) after the HIT-66 drill guide has been removed from the door. Use care and do not drill hole too big!





When all holes have been completed remove the HIT-66 system and alignment fixture from the door.

Install the AD Mortise lock per manufacturers instructions.

**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.**