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INSTRUCTIONS FOR HIT-66-274 TEMPLATE FOR SARGENT "IN" SERIES CYLINDRICAL 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.**

Drill Bit Types

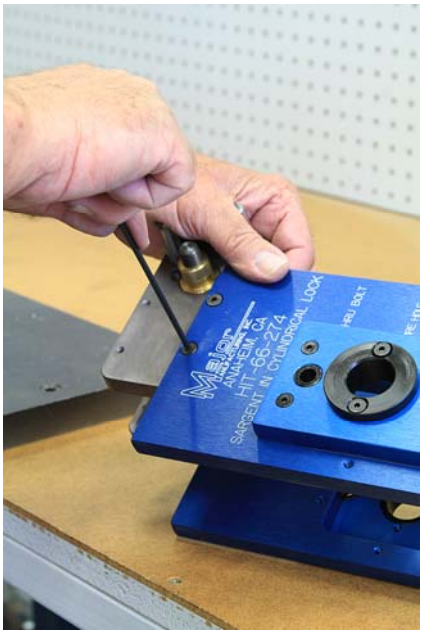
All hole saws are not created equal. A cheap hole saw from a home improvement center or one that has been dropped can be out of round and will not fit the drill bushings in our templates. When using hole saws, pull the hole saw out of the cut frequently to clear chips.

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.

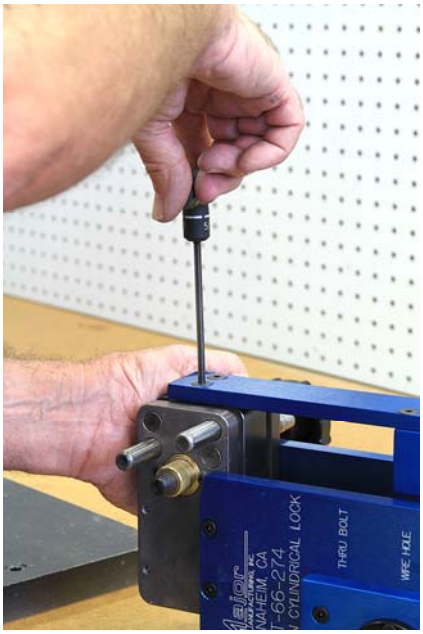
Shown above is a tri-flute drill bit. Do not attempt to use this in a drill guide. The lack of bearing surface will cause the bit to jam.

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-66-274 template set and must be purchased as a separate item.



Install the drill guide for latch and optional external DPS to the front of the HIT-66 clamps as shown. Do not tighten the 1/4-20 screws at this time. When all screws have been loosely installed, then it is ok to tighten.

Install the “U” shaped alignment guide to either side of the template set. This is used to align the template with the cylindrical latch when retrofitting.

Shown at left is a standard 1-3/4” lock mount. We will use this as a basis for the Sargent IN Cylindrical Lock install.

lock.

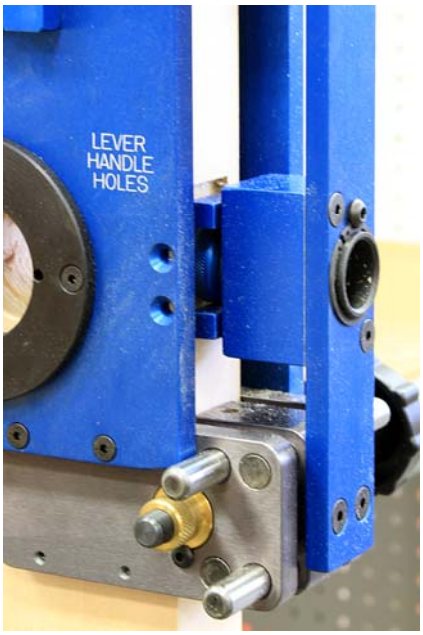
The HIT-66-274 can be used to do a new install on a blank door, as above, or retro fit an existing cylindrical prep as shown at left.

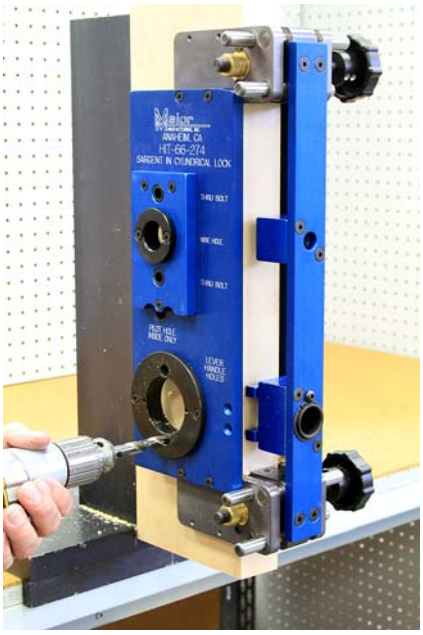
If doing a new install the jig clamps to the door at the desired height and is ready to go.

If doing a retro fit follow the next couple of steps.

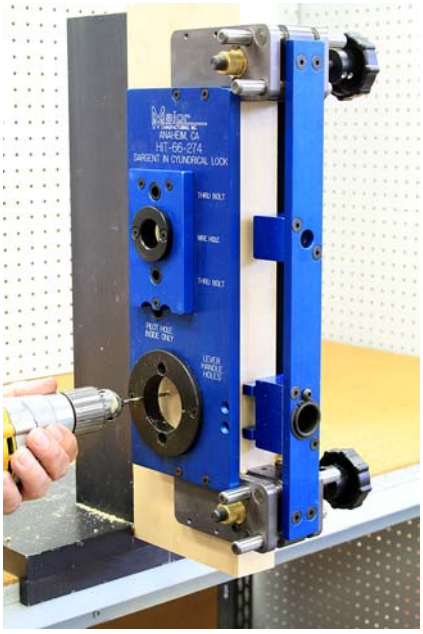
Insert the blue alignment plug (supplied) into the latch cross bore.

Slide the HIT-66 clamp system onto the door with the “U” shaped guide over the blue alignment plug. Tighten the clamps by alternating between the top and bottom clamp. Do not tighten one clamp all the way at once.

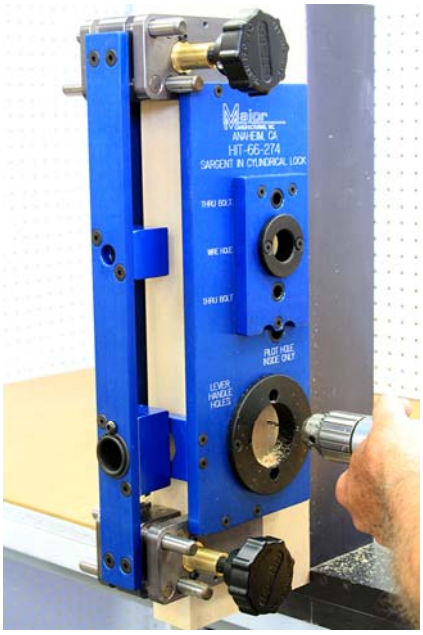




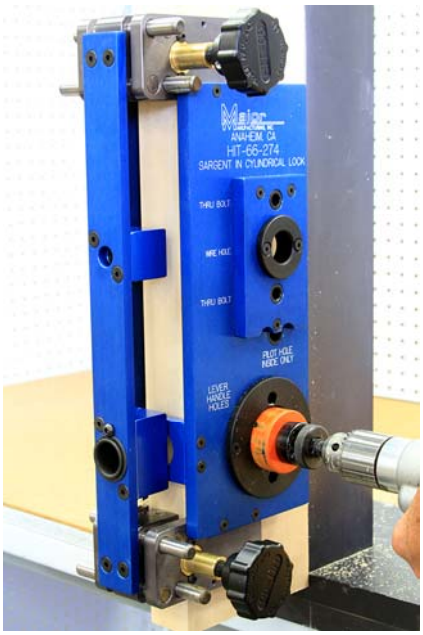
Start by drilling the two post holes with a 7/16” twist drill. Drill half way from both sides of the door. If this is a retro fit it is a good idea to re-drill these holes if they are on the door. This will ensure they are straight and true.



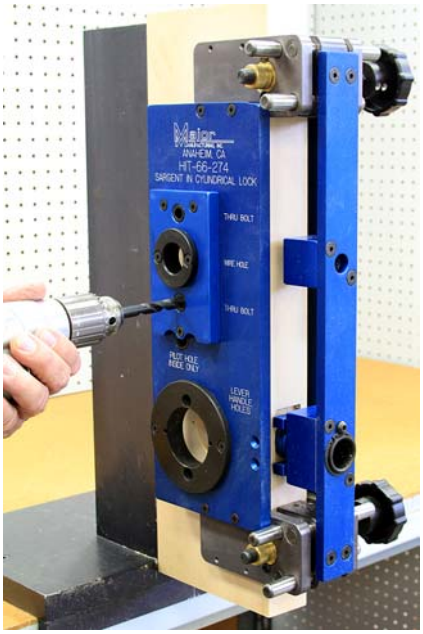
With a 5/32” twist drill, drill the holes for anchor lugs using the holes located at 3:00 and 9:00 positions. Drill about 3/16” into a wood door. On a steel door you may need to open the hole into a notch with the use of a file prior to installing the lock.



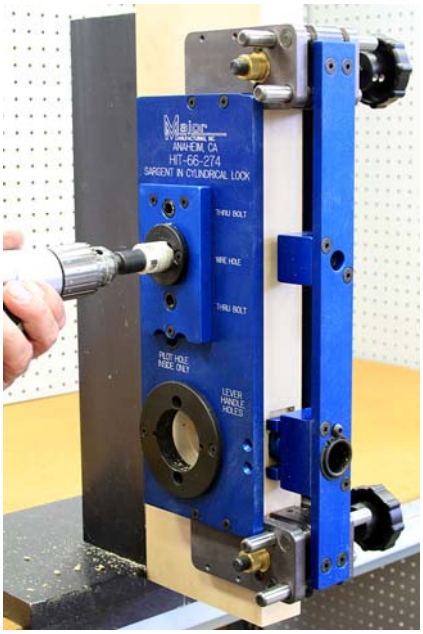
With a 2-1/8” hole saw, drill the cross bore hole. Drill from both sides of the door. When drilling, back the hole saw out of the cut to remove chips.



Using a 1” auger or brad point bit, drill the latch hole. Pull the bit out of the hole several times when drilling to remove a chips.

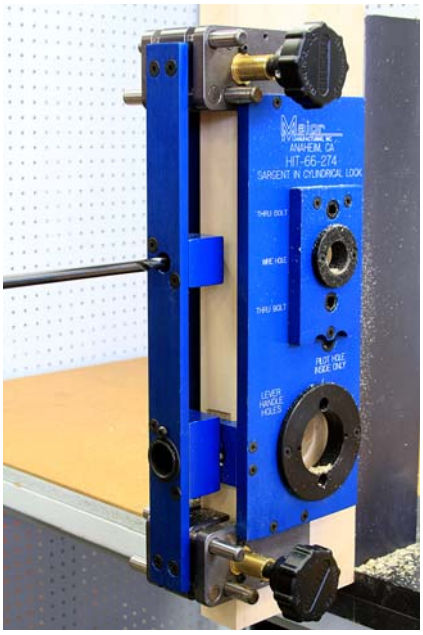


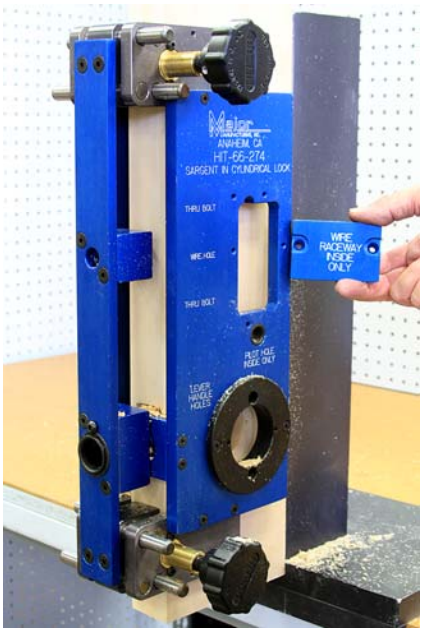
With a 3/8” twist drill, drill the holes for the thru bolts. Drill top and bottom holes half way from both sides of the door. Pull drill out several times when drilling to remove chips.



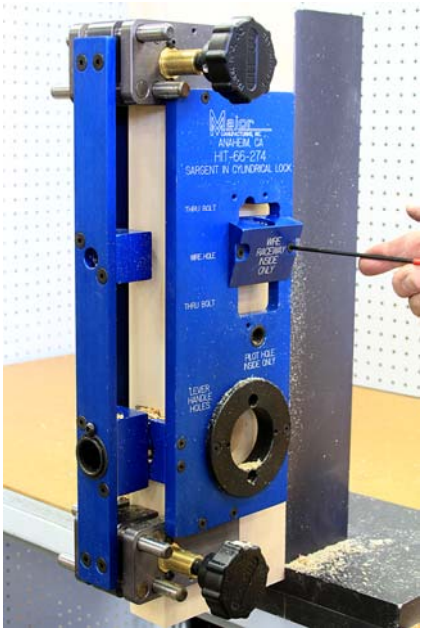
Use a 1” hole saw and drill the wire hole. Drill this hole half way from both sides of the door. Back the hole saw out once or twice when drilling to clear the chips from the cut.

If installing the optional external DPS, drill this hole with a 3/8” drill bit to the wire chase hole. Be sure to back the drill bit all the way out of the guide to clear chips. This will require a longer than normal drill bit. If installing on a steel door, increase the 3/8” hole to 3/4” with the use of a step drill.





To drill the wire raceway, remove the drill plate on the INSIDE of the door and replace with the auxiliary raceway drill guide.



The wire raceway will also require a longer than normal drill bit. This is a 1/2” diameter bit 12 inches long.

Shown at right is a pilot hole for the bit which is only drilled 1/2” deep into the door, not all the way through.

Drill the raceway hole to the cross bore. The drill bit must be pulled completely out of the drill bushing when drilling to clear chips. This is important when drilling this deep of a hole.

Outside

Inside

Completed installation

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.