

Hinge Boring/Insertion Machine Set Up And Operation Instructions

Manufactured In The USA By:



Thompson Industries, Inc. 1018 Crosby Avenue, Sycamore, IL. 60178-0127 Ph:815-899-6670 Fax:815-899-1918

*Thank you for choosing the **Thompson Industries** hinge boring/insertion machine. **Thompson Industries** has been manufacturing high quality woodworking equipment for nearly thirty years. We are committed to providing the best machines available and standing behind those machines with all the technical and service assistance you expect. If you have any questions regarding the set up and operation of your machine please do not hesitate to contact us, and thanks again for choosing the **Thompson Industries** hinge boring / insertion machine.*

Important:

Please read and understand all safety instruction before operating machine.

General Safety Instructions

- **Keep Guards in Place** and in working order.
- **Remove Adjusting Keys and Wrenches.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

- **Keep Work Area Clean.** Cluttered areas and benches invite accidents.
- **Do Not Use in Dangerous Environment.** Do not use power tools in damp or wet locations, or expose them to rain. Keep work areas well lighted.
- **Keep Children Away.** All visitors should be kept at a safe distance from area.
- **Make Workshop Child-Proof** by using lock-off key, master switches or padlocks.
- **Use Right Tool.** Do not force tool or attachment to do a job for which it was not designed.
- **Do Not Use Extension Cord.**
- **Wear Proper Apparel.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry, which may get caught, in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- **Always Use Safety Glasses.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses; they are NOT safety glasses.
- **Secure Work.** Use clamps or a vise to hold work when practical. It is safer than using your hand and it frees both hands to operate tool.
- **Do Not Overreach.** Keep proper footing and balance at all times.
- **Maintain tools With Care.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- **Disconnect Tools** before servicing; when changing accessories, such as cutters and fixtures.
- **Reduce the Risk of Unintentional Starting.** Make sure switch is in the off position before plugging in.
- **Use Recommended Accessories.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
- **Never Stand On Tool.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
- **Check Damaged Parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. i.e.: Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- **Never Leave Tool Running Unattended. Turn Power Off.** Do not leave tool until it comes to a complete stop.

- 1.) Inspect the shipping container for damage. Document any damage with photos.
- 2.) Cut the banding that secures the machine to shipping pallet.
- 3.) Use proper lifting techniques to carefully remove the machine from the shipping container and place the machine on a stable workbench.



4.) Hook up the vacuum/dust collector. Use the 4" tube for a shop system or the 2" tube for a portable shop-vac.

5.) Connect an air hose with a standard 3/8" quick connect fitting to the filter/regulator. **DO NOT PLUG THE OPPOSITE END OF THE HOSE INTO THE SHOP AIR SUPPLY.** (When the air is charged the boring head of the machine will move to the up position).

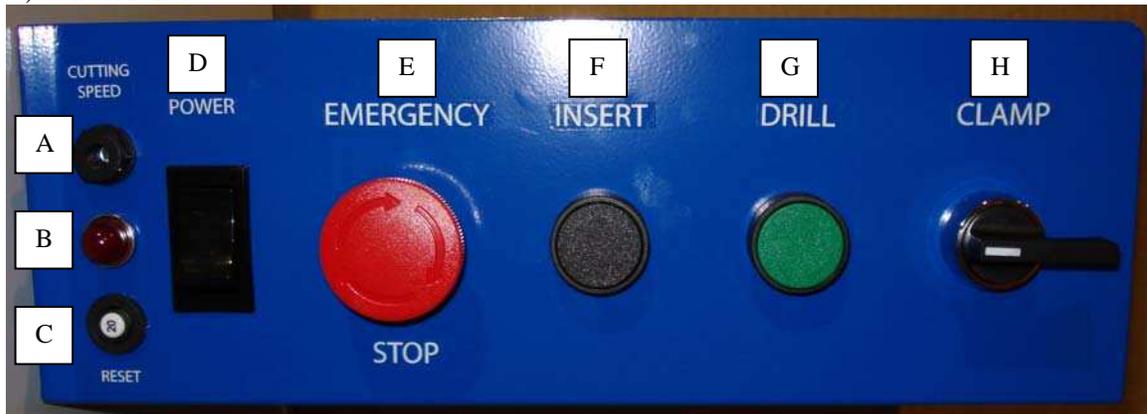


6.) **STAY CLEAR OF THE FRONT OF THE MACHINE.** Plug the air hose into the shop air supply. **CAUTION:** The boring head will quickly move to the up position and the work-piece hold down clamps may actuate to the down position.

7.) Lift up on the knob, on top of the filter/regulator and adjust the air pressure to 90 PSI. Press the knob down into the locked position.



8.) Control Panel.



- A.) CUTTING SPEED. Use a 4mm hex key to adjust the drilling speed. Turn clock-wise to slow the cutting speed and counter clock-wise to increase the speed. Note: This flow control only effects the bottom 1-1/4" of the down stroke. The machine will rapid down to the work-piece and the feed at the cutting speed.
- B.) INDICATOR LIGHT. Indicates that the machine is under power and turned on.
- C.) CIRCUIT BREAKER. Protects the machine from overload and short circuit. Repeated reset indicates and electrical problem with the machine.
- D.) POWER ON/OFF. Depress the top portion of the rocker switch to power the machine on and the bottom portion of the button to power the machine off.
- E.) EMERGENCY STOP. Press to quickly interrupt the power and shut the machine off. Also use with the POWER ON/OFF and unplug the power cord when working on the machine. Press and turn clock-wise to reset.
- F.) INSERT. Press this button in conjunction with the DRILL/INSERT SAFETY button to actuate the machine head down without the cutting tools in rotation. Presses the hinge into the drilled hole pattern. NOTE: Operator must press and hold both buttons to complete the insertion cycle.
- G.) DRILL. Press this button in conjunction with the DRILL/INSERT SAFETY button to actuate the machine head down with the cutting tools in rotation. Drills the hole pattern for the hinge. NOTE: Operator must press and hold both buttons to complete the boring cycle.
- H.) CLAMP. Turn this toggle lever clock-wise to actuate the work-piece hold down clamps in the clamped position. Turn in the counter clock-wise direction to release the clamps.
- 9.) DRILL/INSERT SAFETY BUTTON. This button must be pressed and held to actuate the boring head down to DRILL or INSERT. DO NOT CIRCUMVENT THE TWO HAND OPERATION OF THE MACHINE. This is an important safety feature that should not be altered.



- 10.) Set the boring depth. The machine is equipped with two methods to set or adjust the boring depth. The first method is a draw bar at the top of the machine. Drill a test panel that is the same thickness as the door panel to be used. Measure the depth of the center (cup) hole. Loosen the lock nut at the top of the draw bar and turn the draw bar tube clock-wise to make the bore depth less and counter clock-wise to make the bore depth deeper. Tighten the lock nut. Note: One revolution of the draw bar tube equals one millimeter (.04"). The second method of setting the boring depth are the positive stops located on the bottom of the boring head. These are useful when the same hinge will be used for door panels of different thickness. Loosen the lock nut on both stops. Turn the stops to adjust the depth and tighten the lock nuts. One revolution of the stops equals one millimeter (.04"). Make sure that the stops are set to the same depth.



- 11.) Set the top and bottom distance to the center of the hinge. Loosen the socket head cap screw and slide the swivel-stop to the desired location using the engraved scale on the back rail. Tighten the screw. Note: There are swivel-stops on both the left and right side of the back rail.
- 12.) Set the tab or side of door panel to the center of the hinge distance. Loosen the levers at both sides of the machine. Use the scales located on the inside of the extruded aluminum legs to set the tab distance and tighten.



13.) Adjust the pneumatic hold down clamps. Loosen the knob to move the bracket up and down or to swivel to the left or right. Loosen the socket head cap screw holding the shaft assembly to the extruded aluminum machine leg to move front to back. To move the hold down clamp further away from the center of the machine take the assembly off of the extruded aluminum leg and affix into the slot on the back rail.

14.) Plug in the machine power supply. DO NOT SERVICE OR ADJUST THE MACHINE WHILE THE POWER IS CONNECTED.



15.) Release the EMERGENCY STOP button. Press the button and turn clock-wise. DO NOT SERVICE OR ADJUST THE MACHINE WITHOUT HAVING THE E-STOPBUTTON DEPRESSED.

16.) Turn the POWER ON/OFF rocker switch to the on position. DO NOT SERVICE OR ADJUST THE MACHINE WITH THE POWER ON/OFF SWITCH IN THE ON POSITION.

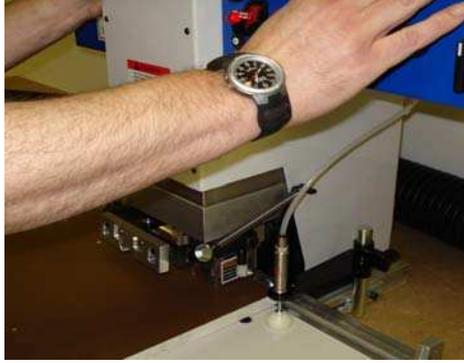


17.) Place the door panel to be drilled onto the machine table top. Position against the back rail and the swivel-stop to the left or right. Hold in place and actuate the pneumatic hold down clamps.

18.) Load hinge onto insertion ram with arm pointing down.



19.) Drill hole pattern. Press the DRILL/INSERT SAFETY BUTTON with the left hand and hold while pressing the DRILL button on the control panel with the right. The machine will drill the hole pattern.



20.) Rotate hinge beam assembly to the down position. Note: The insertion ram may need to be adjusted. To adjust the location, loosen the two socket head cap screws and move the ram to the desired position and tighten.

21.) Actuate machine down with the Insert button.

Thompson Industries, Inc.

1018 Crosby Ave.
Sycamore, Illinois 60178

One Year Limited Warranty

Thompson Industries Inc. will repair or replace, at its expense and at its option, any machine part, or machine accessory which in normal use has proven to be defective in workmanship or material. The customer must return the product prepaid to Thompson Industries within one year, with proof of purchase, and provide Thompson Industries with reasonable opportunity to verify the alleged defect by inspection. Thompson Industries will not be responsible for any asserted defect, which has resulted from normal wear, misuse, or repair or alteration made. Do Not Modify. Under no circumstances will Thompson Industries be liable for incidental or consequential damages resulting from defective products. This warranty is Thompson Industries' sole warranty and sets forth the customer's exclusive remedy, with respect to defective products: all other warranties express or implied, whether of merchant-ability, fitness for purpose, or otherwise, are expressly disclaimed by Thompson Industries.

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(MUST BE FILLED IN AND RETURNED TO THOMPSON INDUSTRIES, INC. TO VALIDATE WARRANTY)
(SERIAL NUMBER IS STAMPED ON NAMEPLATE ON BACK OF MACHINE)

SERIAL NUMBER _____ **DATE of PURCHASE** _____

NAME _____

ADDRESS _____

CITY _____ **STATE** _____ **ZIP** _____

PHONE _____

PURCHASED FROM _____

ADDRESS _____

CITY _____ **STATE** _____ **ZIP** _____

PHONE _____