INTERIOR DOUBLE DOOR SYSTEM
INSTALLATION INSTRUCTIONS

REQUIRED TOOLS

- Wood Chisel • Utility Knife Punch • Marker • 2-1/2" Finishing Nail Qty: 2-1/2" Wood Screws Qty: 6
- 8d Finishing Nails • Wood Shims (1pkg.) • Door Hangers

WARNING
Door Units Are Heavy! Use an adequate number of people to set the unit and prevent injuries or damage to the door.

1) Check Rough Opening

a) Check your rough opening. The rough opening height should equal the door slab height plus 2-1/2”. The rough opening width should equal the door slab width plus 2” for a door without an astragal; and plus 2-1/2” for a door with an astragal (fig.1).

b) Check the opening and both walls for plumb and square (fig.2 & fig.3). Make the necessary corrections prior to installing the door unit. If the opening is not plumb the door will not hang correctly.

2) Install Hanger

Install one door hanger flush with the top of each hinge. Use the supplied screws included with the door hanger (fig.4). This should be repeated for all six hinges.

3) Opposite Hangers

Place six additional hangers directly in line with the hinge side hangers that were just installed in step 2 (fig.5).

4) Bend Hangers

Using a pliers, bend the six clips on the non-hinge side (applied in step 3) so that they are parallel with the jambs (fig.6).
**INTERIOR DOUBLE DOOR SYSTEM**

**5) Draw Plumb Line**

Draw a plumb line approximately 1/2 in from the rough opening on both hinge sides of the door (fig. 7 & 8).

![fig. 7](image)

**6) Remove Bracing**

Cut the cardboard on the bottom corners of the unit. Remove the bottom bracing board from the door unit (fig. 9).

![fig. 9](image)

**7) Set Door Into Opening**

Using two people, set the bottom of the door unit into the rough opening and tip the top of the unit into place (fig. 10). Center the middle notch on the door hanger directly in line with the plumb line drawn in step 5. Once the notch and the plumb line are in alignment, run one of the supplied 1-5/8 screws through the long slot in the hanger and into the stud wall (fig. 11).

![fig. 10](image)

**8) Remove Bracing**

Remove the remaining two bracing boards from the interior side of the door using a hammer. Place a wood block on the surface of the jamb to avoid damaging the wood of the door unit (fig. 12).

![fig. 12](image)

**9) Adjust Margins**

Check the margins between the doors and across the header of the door unit. The doors should have an even margin across the top of the door and roughly a 1/8 even margin between the two door slabs (fig. 13). If the margin is not even across the header or does not equal roughly 1/8 down the middle of the doors, loosen the screws on the door hangers and slide the door unit in or out until the margins are even. Re-tighten the screws once the adjustments are complete (fig. 14).

![fig. 13](image)

**10) Check For Plumb**

If the doors stick into the room at the top of the door unit, double check the doors for plumb. Using a 6' level, place the level parallel with the door frame. The bubble should be centered (fig. 15). If the bubble is not centered, loosen the screws on the hinge hangers and slide the jamb in or out as needed to correct for the wall plumb. Shimming materials may need to be added behind the hangers to accommodate for plumbing the door. Re-tighten the hangers when this step is complete.

![fig. 15](image)

**11) Secure Hangers**

- **a)** Using a hammer, tap the six door hangers on the exterior side of the door back to their original position so that they are tight against the wall surface (fig. 16).
- **b)** Screw a 1-5/8" screw into each of the six door hanger locations (fig. 17).

![fig. 16](image)

**WARNING**

Door Units Are Heavy! Use an adequate number of people to set the unit and prevent injuries or damage to the door.
**12) Install Shims**

Place shims directly behind each of the six hinge locations (fig. 18). Place three additional shims across the head of the door unit. (fig. 19) Keep the shims as flat as possible during the installation in order to prevent twist on the jambs. NOTE: Door units are heavy. If this step is not performed the door slab may sag in the opening over time.

**13) Secure and Finish Shims**

a) Remove one hinge screw from each of the six hinges on the hinge jambs. Replace the screws using one 2-1/2" construction screw on each hinge. The screw should pass through the hinge shims and into the rough opening stud (fig. 20). To fasten the head jamb, pre-drill through the door stop in the location of each of the three shims. Nail the head into place by using 2-1/2" finishing nails.

b) Use a hammer to remove all excess shim material (fig. 21).

**14) Doors with Astragal - Optional**

Doors with astragals: With the inactive door open (door with the astragal), raise the head pin about 1/4". Using a black permanent marker, color the top of the head pin (fig. 22). While the marker is still wet, lower the head pin and close the door tightly. Raise the pin until it touches the head jamb. This should leave a black circle on the head jamb (fig. 23). Use a punch to mark the center of the head pin and then drill a 5/16" hole (fig. 24). Next, place the strike plate so that the center hole in the plate is directly over the hole drilled (fig. 25). Screw the strike plate into place and use a utility knife to score around the edge of the plate (fig. 26). Remove the plate and use a small wood chisel to remove any undesired wood (fig. 27). Once the strike plate has been properly mortised, screw the strike plate back into place. Repeat this process for the foot pin.

**15) Install Ball Catch - Optional**

With the doors in the closed position, mark the center of the ball catches on the header frame. Using the ball catch plates, provided in the MASTERCRAFT® hardware bag, center the plates over the ball catch locations and mortise as needed.
16a) Preparing the Lockset

a) All Mastercraft doors are setup with a 2-1/8" bore hole set at either a 2-3/8" or a 2-3/4" backset (depending on door type). Non edge prepped crossbores are set for a 1" drive point latch. This is done to allow installers to utilize drive point latch systems, radius plate systems, or square plate systems (fig.30).

b) To install the backset as a drive point system, simply follow the lock manufacturer’s instruction for converting to a drive point. Hammer the drivepoint into place making sure the angled portion of the backset faces the jamb (fig.31).

The edge prep option on your interior door will come with a pre-routered pocket for the crossbore (fig.28). The edge prep is bored 1”w x 2-1/4”h at a depth of 1/8” to fit most factory supplied locksets with no adjustments needed (fig.29).

16b) Installing the Lockset

a) Using the manufacturer’s instructions, install the lockset (fig.32).

b) Install the strike plate on the astragal. Our astragals are mortised for a 1/4" radius strike plate. If the lock manufacturer has supplied a square plate, mark the outside edge and use a chisel to remove the excess wood material from around the corners of the plate.

18) Apply Casing

Apply casing to the unit as desired (fig.33).

19) Finishing Recommendations

Our wallcovering department carries all the quality products you need to finish your new door. Choose from a complete line of sandpaper, stains and finishing products to give your project that professional look. Remember, always follow all the manufacturer’s finishing instructions.

1.) Surface must be clean and dry. 2.) Lightly sand and clean door of all dust and debris. 3.) Apply a first coat of oil-based stain, polyurethane, conditioners or primer (oil-based is required) to all six sides of the door and jamb. 4.) When first coat is dry, lightly sand and then clean surface. Once the oil-based primer has properly dried, a latex or water based paint can be applied. 5.) Apply at least one finish coat. Allow ample drying time between coats.

IMPORTANT: Water-based stain, polyurethane or conditioners are not recommended. Only oil-based stains, polyurethane or conditioners should be used. Apply a minimum of two coats of sealer to all six sides of the door. Carefully follow all paint manufacturer’s preparation and finishing instructions. Do not close the door until the paint is completely dry.

20) Disposal of Waste Materials

For proper handling and disposal of construction waste materials please consult your local building codes. Additional disposal and recycling recommendations can be found on the EPA website at www.epa.gov

21) Troubleshooting Help

Questions or Concerns: For guest assistance contact MASTERCRAFT® by sending an email to: MastercraftDoorHelp@MidwestManufacturing.com

For more information, including troubleshooting help and videos, please visit: www.MastercraftDoors.com

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