

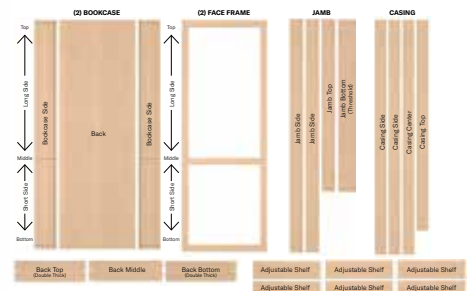


**MURPHY DOOR**

Flush Mount French Door - unassembled



BILT  
3D interactive instructions



murphydoor.com | 888.458.5911

## PLEASE READ INSTRUCTIONS FULLY BEFORE YOU BEGIN ASSEMBLY

Our hidden flush mount doors have unique finishing details. To ensure proper installation, make sure that all instructions are read and understood by whoever is installing your door.

The cabinet of your hidden door is 1-1/2" to 2" narrower than the jamb. This allows for the proper function of the door. The gaps will be covered by finish casing. In-swing and out-swing casing and hinges are placed differently. It is important to follow the installation instructions for the door swing selected. There will be some wall finish work needed where the wall meets the jamb. For best results prep the wall with the sheet rock edge cut as straight and clean as possible.

01

### Storage

If you are not installing door on receipt keep it standing level on its base or lay it flat. **DO NOT** lean it against a wall on its edge.

02

### Proper handling

Take door/cabinet out of jamb and carry cabinet and jamb separately. **DO NOT** carry or lift the cabinet by the face frame.

The doors are heavy, handle with care. You will need to support the entire door when carrying and lifting the door. A minimum of two persons recommended.

**Murphy Door can not be responsible for dropped door damage**

03

### Content check

Verify that you have all parts prior to starting the installation or hiring a contractor.

Test your pin to make sure it works properly. Hold the pin while pushing the center button. The two ball bearings should retract slightly. If the ball bearings do not retract spray with dry lube. Re-engage the center button several times to see if pin is working properly. The pin should not be used if not working correctly.

04

### Painting/staining

If you are finishing your door with paint or stain, it should be done within 10 days to seal the wood to minimize climate differences. Unfortunately, Murphy Door can not offer a warranty against sagging or warping on unfinished doors.

Use care when applying. Keep pre-drilled holes free of excess paint or stain to make assembly easier.

**DO NOT** use water-based paints. Commercial grade furniture paints and stains are required.

Always do a sample test with your paint or stain. The sides of the jamb that will be placed against the wall are great places to test, as they will not be seen once the door is installed.

Always follow the paint or stain instructions when applying to your door.

05

## Uninstalling your door

### **Out-swing Door**

Take pressure off the door. The pin must be vertical and the holes of the hinges must be aligned. If there is too much friction, the pin will not easily slip out of the hinges.

Locate hinge pin in the top of the cabinet through a 1" hole. Put the hinge pin removal tool up around the pin. Carefully pull the pin down as you slightly wiggle the removal tool. Once top pin is out, you can lift the door off the bottom hinge.

### **In-swing Door**

Take pressure off the door. The pin will be mounted to the side of the door.

Push the button on the pin, while pulling the pin down as you wiggle it down and out. Once top pin is out, you can lift the door off the bottom hinge.

If you lose the pin removal tool, you can order another at [murphydoor.com](http://murphydoor.com)

06

## Installation Tips

### **Framing**

Rough opening should be framed with 2"x 4" or 2"x6" studs. Make sure your studs are parallel (measure top, middle, and bottom of the jamb RO) and square (by putting a square in all four corners). If they are not, your Murphy Door will not function properly and may appear bowed. If using metal studs, replace the included 3" screws with (8) 3" self-tapping screws.

### **Threshold**

For best results install the door on a level surface. DO NOT install the bottom threshold over carpeting. Carpet will affect levelling and prevent proper function of the door. If you must shim the threshold, the shim should be the width of the threshold and runs the entire length of space needed to shim.

### **Jamb**

DO NOT over or under tighten jamb. When installing the jamb you need to make sure it is shimmed properly. It should be level and square with the threshold and header. If the jamb is not square it may cause your door to function improperly or appear to sag.

### **Hinge Pin Installation**

On out-swing doors make sure the pin goes up through the hole in the top of the door and through both hinges. DO NOT put the pin in from the top down. If properly installed the pin will countersink and the button will be fully extended (not depressed). If it protrudes below the header it is not properly seated and may fail causing the door to fall out. BE CERTAIN that the hinge pin is seated and goes through both hinges.

### **Casing (aka Trim)**

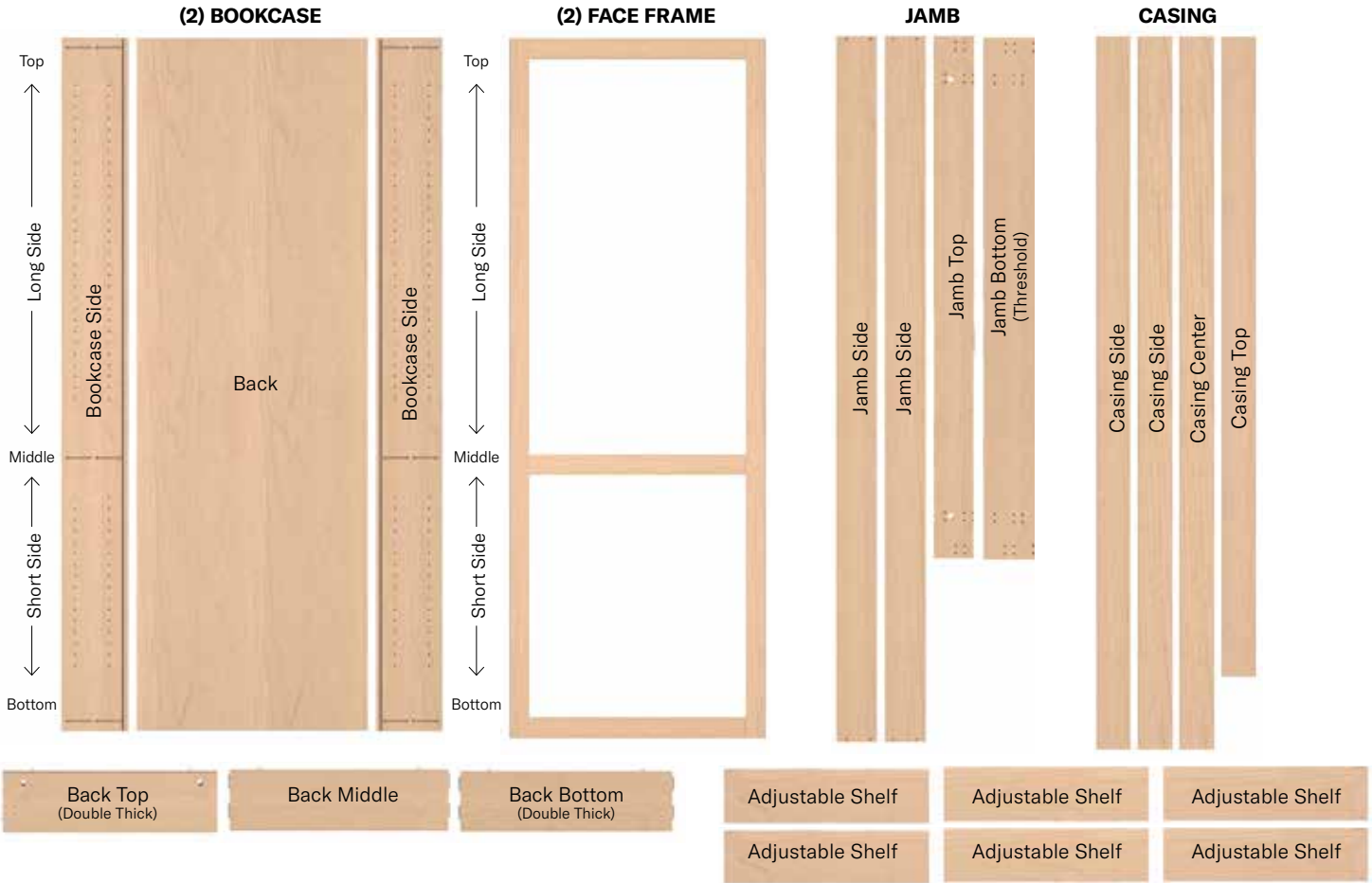
Make sure your door opens, closes, and swings properly prior to installing the casing. Our casing is designed so the top casing goes past the side casings 1-1/2" per side.

Attach vertical casing first then top casing. This will make it easier to visually center the top casing.

### **Finishing**

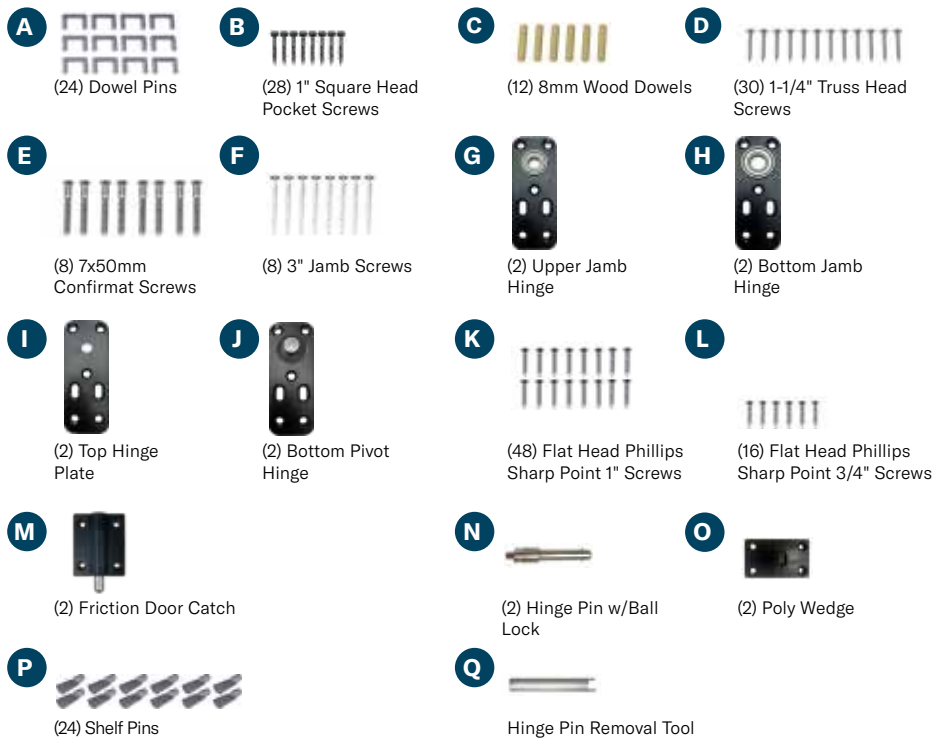
Make sure your door works properly before you finish the wall. Caulk, mud, or tape to finish the edge where the wall meets the jamb.

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To assemble the door you will need:

- Tape Measure
- Drill
- Countersink Bit
- Phillips Head Bit
- 1/8" Drill Bit
- Square Head Drill Bit (included)
- Adjustable Wrench
- Hammer/Brad Nailer
- Finish Nails
- Carpenters Square
- 2' and 6' Level
- Rubber Mallet
- Wood Glue
- (6) Wood Clamps
- (2) Saw Horses

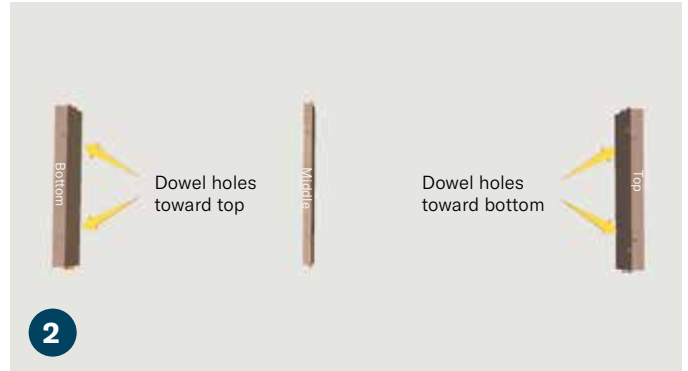


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Insert (4) dowel pins (A) all the way into the back top, back middle, and back bottom. Some splitting may occur but will not effect the performance or appearance of the door.

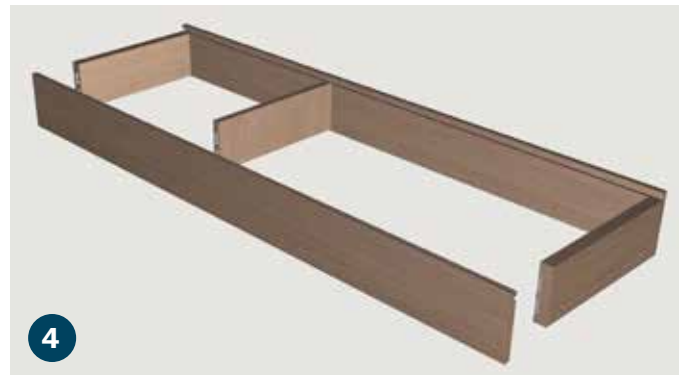
**Note:** The top and bottom bookshelf pieces are double thickness. The middle bookshelf piece is a standard single thickness.



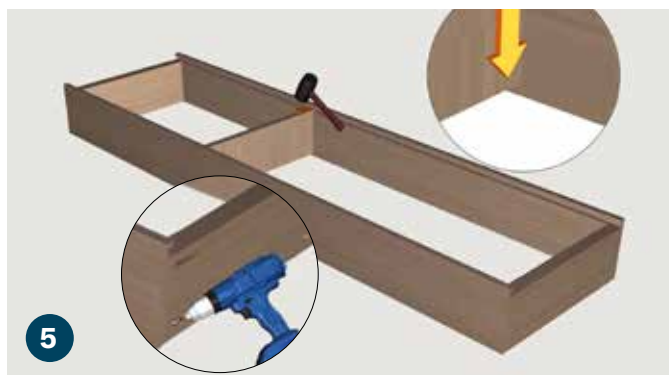
Note the orientation of the dowel holes and align the boards as shown. Flip all boards over so that the dowel holes are facing down.



Attach the back top to the right bookcase side by placing the dowel pins into the dowel pin joints and sliding down. Note the dowel hole and pilot hole orientation. Continue placing the back middle and back bottom noting dowel hole orientation.



Attach the back bottom, back middle, and back top to the left bookcase side by placing the dowel pins into the dowel pin joints and sliding down. Note the pilot hole orientation.

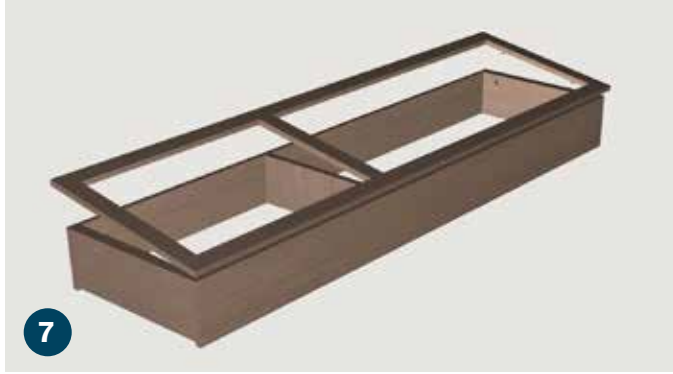


Using a rubber mallet make sure the back middle, back top, and back bottom are flush and even with the front of the bookcase sides. To avoid damage it is best to use a piece of scrap wood when using the rubber mallet. Once flush, re-enforce the corners with (8) 1" square head pocket screws (B).

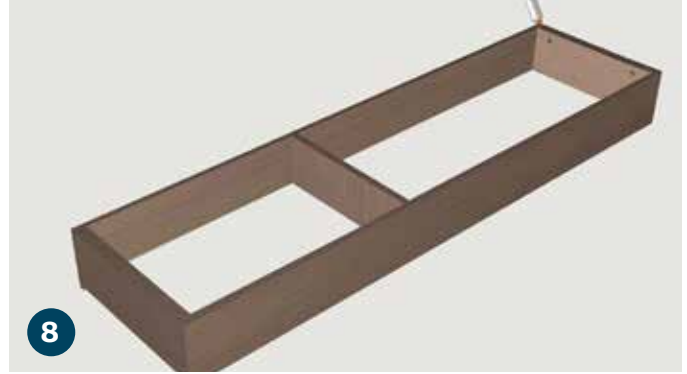


Turn the bookcase over to install the front face frame. Add a small amount of wood glue to the dowel holes on the face frame assembly and insert (6) wooden dowels (C).

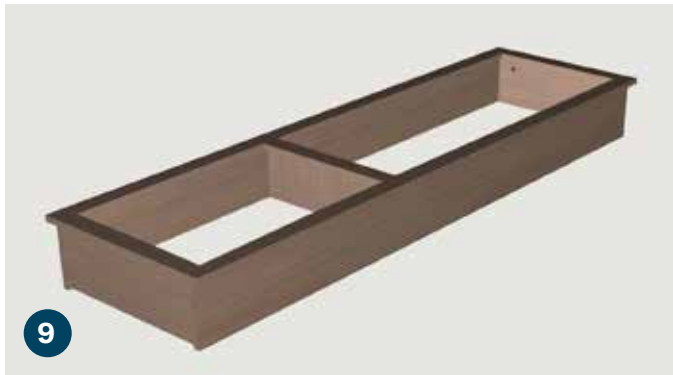
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Dry fit the face frame onto the bookcase to ensure that the dowel holes align properly.



Add a small amount of wood glue into the dowel holes on the bookcase. Next apply wood glue to the perimeter of the bookcase.

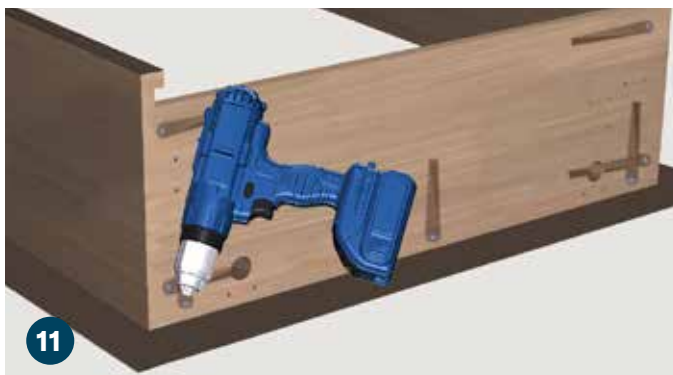


Firmly press the face frame assembly onto the bookcase, aligning the dowels and dowel holes.

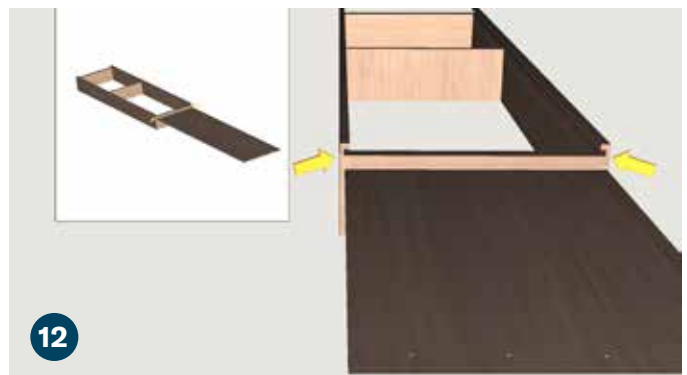


Place the bookcase onto saw horses, a work bench, or table. Place (6) wood clamps on the corners and the middle of the bookcase to secure the face frame while the glue dries.

**Note:** Although not required, you may use a brad nailer in addition to the glue to help secure the face frame.



Remove wood clamps and flip the assembly over. Reinforce the top and bottom face frame with (6) 1" square head pocket screws (B).

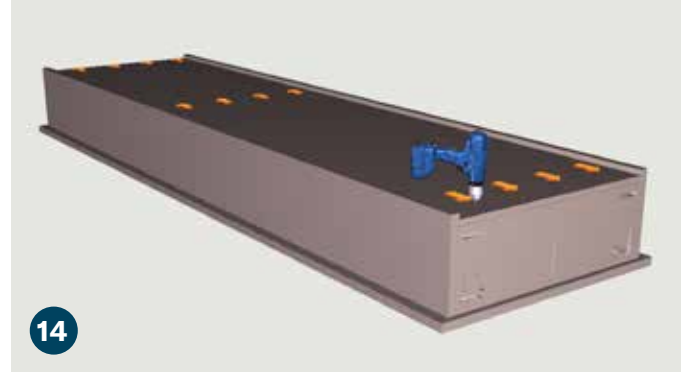


With the help of another adult, gently slide the back into the assembly. Make certain the back is sliding in straight to prevent it getting wedged.

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13  
Ensure that the back is flush with the tops of the bookcase sides and that the bookcase is square. The pre-drilled holes on the back should align with the back bottom, back middle, and back top.



14  
Using the back as a template, drill pilot holes in the back top, back middle, and back bottom using a 1/8" drill bit. This will prevent damaging or splitting the wood. Attach the back to the back top, back middle, and back bottom using (12) 1-1/4" truss head screws (D). Repeat steps 1-14 to build the second bookcase assembly.



15  
Align the jamb bottom threshold and (1) jamb side on a flat surface. Be certain that they sit flush at the front and that the pre-drilled hinge holes face in. After ensuring that the corner is square pre-drill, countersink and install (2) 7 x 50mm confirmat screws (E).  
**NOTE:** Jambs deeper than 4-9/16" will require additional screws



16  
Repeat the process securing and squaring all corners of the door jamb.



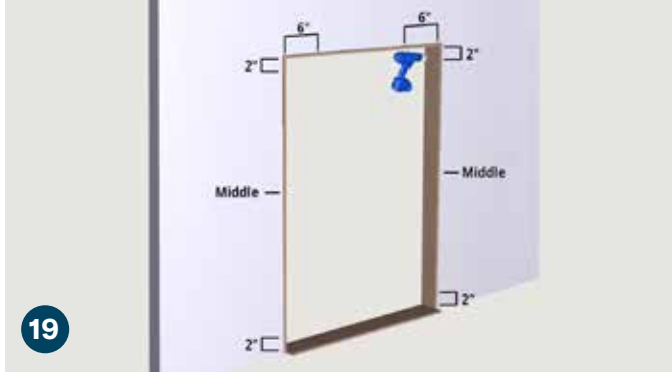
17  
Place the door jamb into the rough opening. The bottom jamb threshold should extend into the room toward the back of the bookcase.



18  
It is critical that the bottom threshold and jamb sides are level. If the door jamb is not level and plumb the door will not swing and close properly.

**Note:** The bottom threshold **SHOULD NOT** be installed over carpeting. Carpet will affect levelling and prevents proper function of the door.

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19 Using a 1/8" drill bit pre-drill and countersink three holes into each side of the door jamb 2" from the top of the jamb, 2" from the bottom of the jamb, and in the middle. Next pre-drill and countersink two holes into the jamb top 6" from the right and left sides of the jamb.

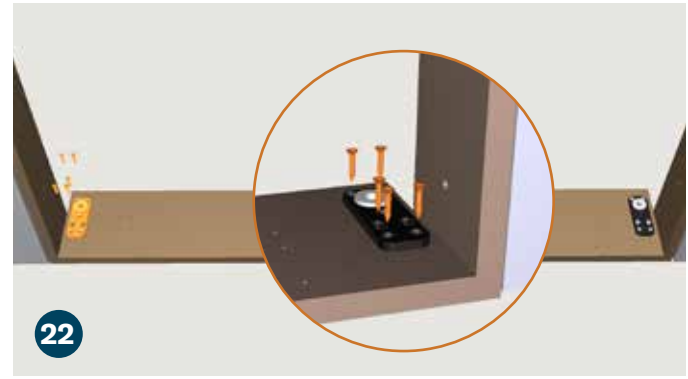


20 Using shims where needed, install (8) 3" screws (F) making certain the top and sides of jamb are level.

**Note:** The screws included are meant for a wood frame. If installing the jamb into a steel frame, replace the screws with (8) 3" self-tapping screws.



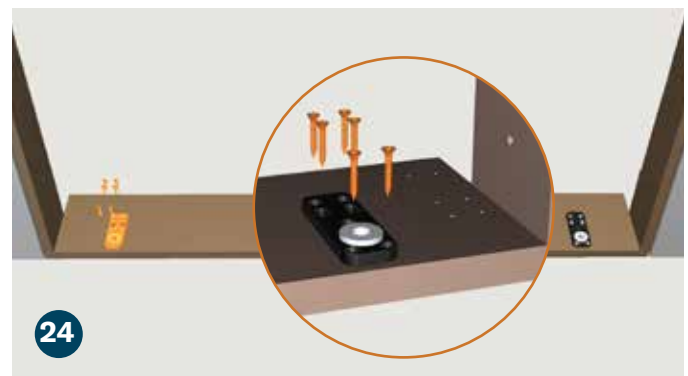
21 To install an in-swing French Door attach (2) upper jamb hinges (G) to the jamb top using (8) 1" screws (K), lining up the hinges as shown.



22 Install (2) bottom jamb hinges (H) to the jamb threshold using (10) 1" screws (K), lining up the hinge as shown.



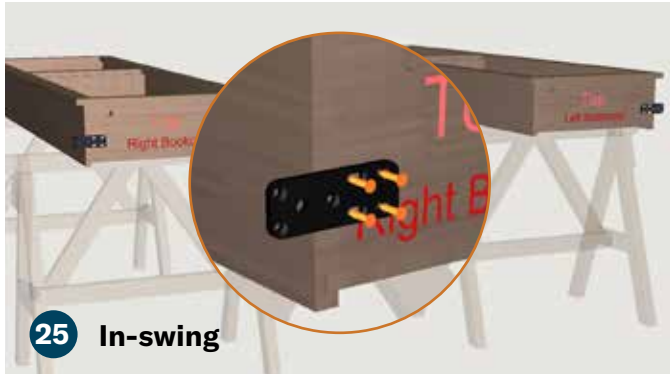
23 To install an out-swing French Door attach (2) upper jamb hinges (G) to the jamb top using (8) 1" screws (K), lining up the hinges as shown. Make sure that you only use (4) screws per hinge. Do not drill into the two holes closest to the edge of the jamb as this can split your edge.



24 Install the bottom jamb hinges (H) to the jamb threshold using (12) 1" screws (K), lining up the hinges as shown.



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**25 In-swing**

For a right hand in-swing door line up the hinge as shown. Attach the top hinge plate (I) to the top bookcase assembly using (4) 1" screws (K). For the left hand in-swing door, place the hinge plate on the corresponding holes on the opposite side.



**26 Out-swing**

For a right hand out-swing door line up the hinge as shown. Attach the top hinge plate (I) to the top bookcase assembly using (6) 1" screws (K). For the left hand out-swing door, place the hinge plate on the corresponding holes on the opposite side.



**In-swing**

**27**

For the right-hand in-swing door, match the bottom pivot hinge (J) to the pre-drilled holes on the bottom of the bookcase assembly as shown. With the hinge lined up, attach using (4) 1" screws (K). For the left-hand in-swing door, place the hinge on the corresponding holes on the opposite side.



**Out-swing**

**28**

For the right-hand out-swing door, match the bottom pivot hinge (J) to the pre-drilled holes on the bottom of the bookcase assembly as shown. With the hinge lined up, attach using (6) 1" screws (K). For the left-hand out-swing door, place the hinge on the corresponding holes on the opposite side.



**29**

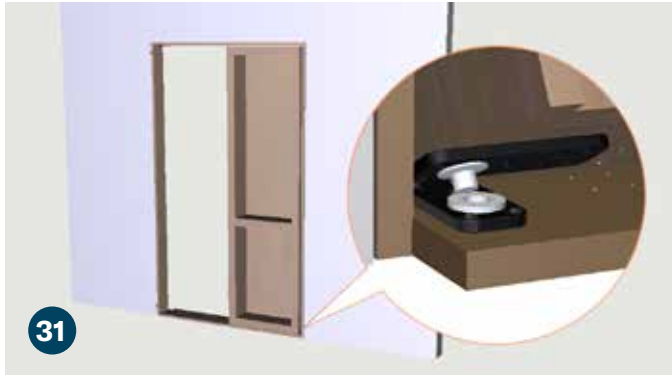
The friction door catch (M) is installed on the door side opposite the hinge. Make a mark 2" from the back of the door's face frame.



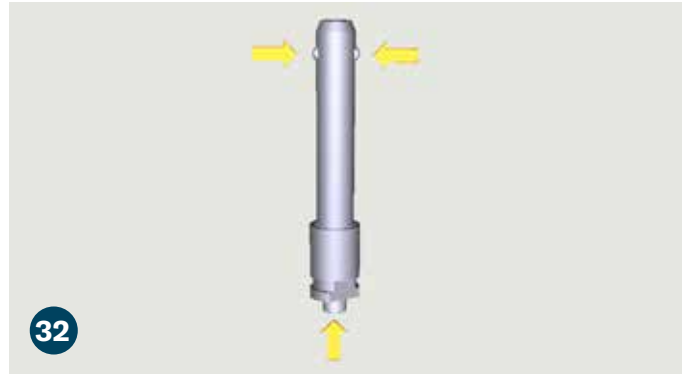
**30**

Position the friction door catch (M) at this mark, flush to the door bottom. Secure using (4) flat head Phillips sharp point 3/4" screws (L).

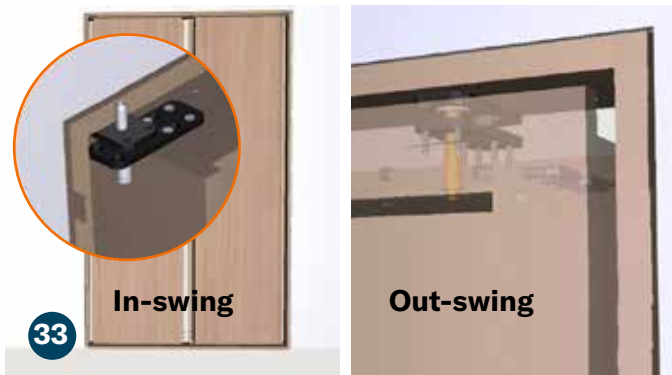
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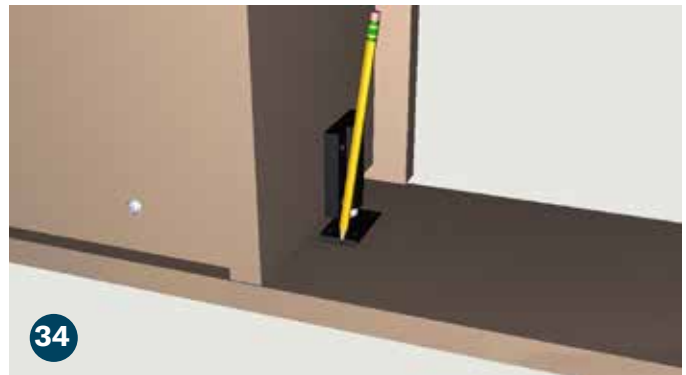
31 Place the right bookcase into the door jamb. Make sure the bottom pivot hinge sits into the silver thrust bearing.



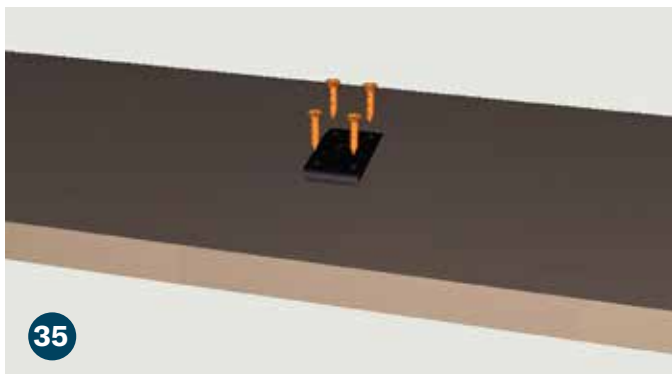
32 Press down on the ball lock of the hinge pin (N) to retract the two top pins.



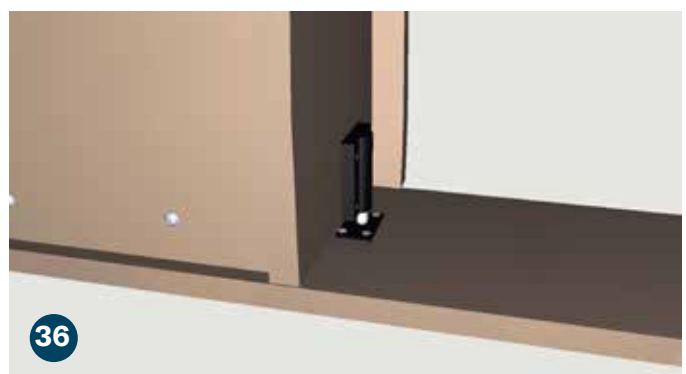
33 For in-swing doors, align the holes of the top jamb hinge with the holes of the top door hinge. Depress the hinge pin button and insert the hinge pin into the holes making certain it locks into place. Out-swing door pins insert from the front of the bookcase and will appear countersunk when properly locked.



34 Place the poly wedge (O) where the doorstop carriage bolt will go when the door is closed. Ensure that the door is flush. Mark out the poly wedge locations with a pencil or tape.

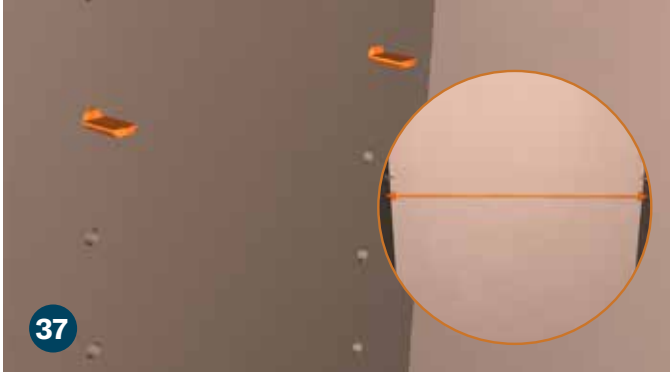


35 Remove the sticker from the back of the poly wedge and place it in the marked locations. The wedge taper should face in for an in-swing door and out for an out-swing door. Secure with (4) 3/4" screws (L).

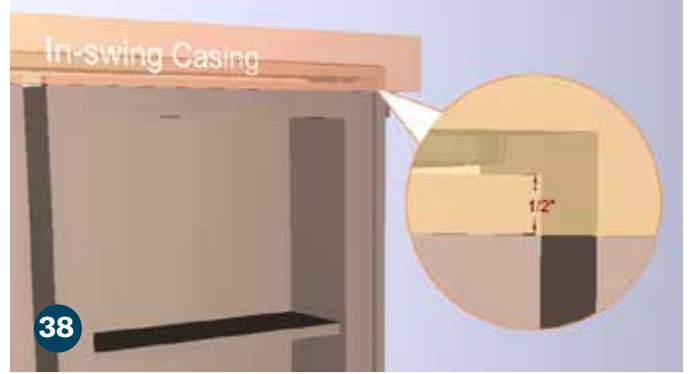


36 Now that the door assembly is in place use an adjustable wrench to tighten the carriage bolt just enough to catch the door catch. Repeat steps 31 - 36 for the other door.

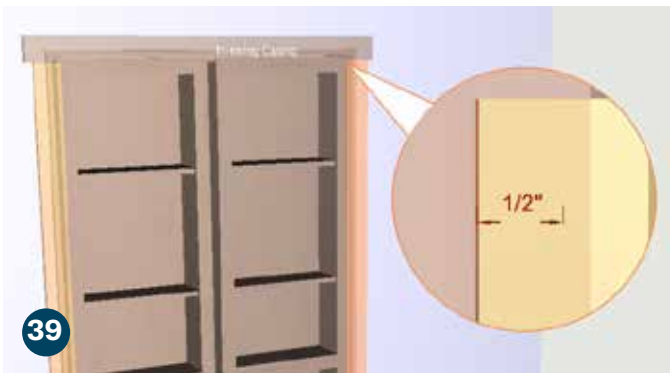
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37 Add (2) shelf pins (P) where desired and (2) shelf pins directly across from them. Slide the shelf into place onto the installed shelf pins. Do the same for remaining shelves as desired.

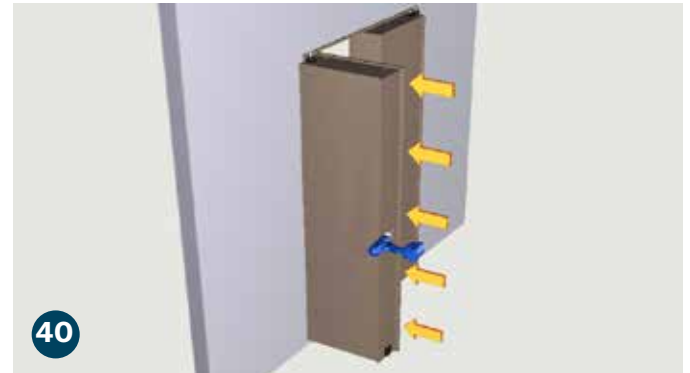


38 Position the top casing with a 1/2" overhang on the face frame of the door. Attach using a brad nailer.



39 Position the left and right side casings with a 1/2" overhang on the face frame of the door. Attach using a brad nailer. Test the left and right hand in-swing to ensure that the doors open and close smoothly.

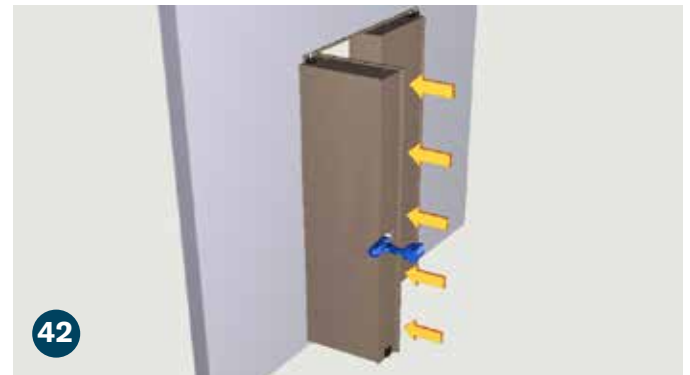
\*Due to variances in home construction, cutting the side casing may be necessary. We recommend cutting the bottom edge for the most professional finish. Alternatively, you may install the uncut side casings first and then the top casing.



40 Using a 1/8" drill bit pre-drill and countersink five holes into either the left face frame side of the right bookcase or the right face frame side of the left bookcase. The center casing will be attached to whichever frame side you have drilled.



41 Run a bead of glue down the face frame side, avoiding drilled holes. Position the center casing and firmly press into place.

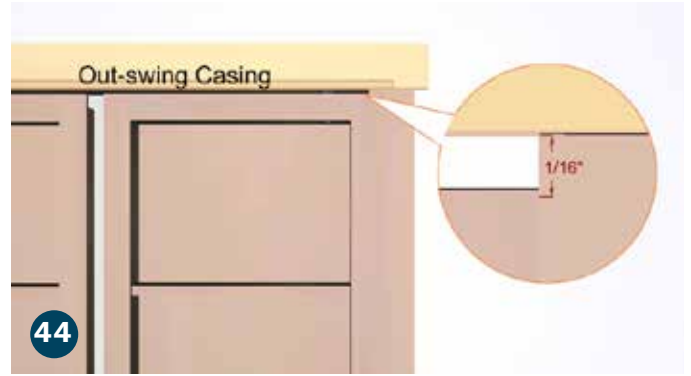


42 Secure the center casing to the face frame side using (5) 1-1/4" screws being certain not to screw through the front side of the casing. When closing the bookcase doors, make certain to close the bookcase with the attached casing first to prevent damage.

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The following steps will show you how to install the casing on an out-swing French Door.



Center the top casing with a 1/16" clearance over the door. Attach with a brad nailer.



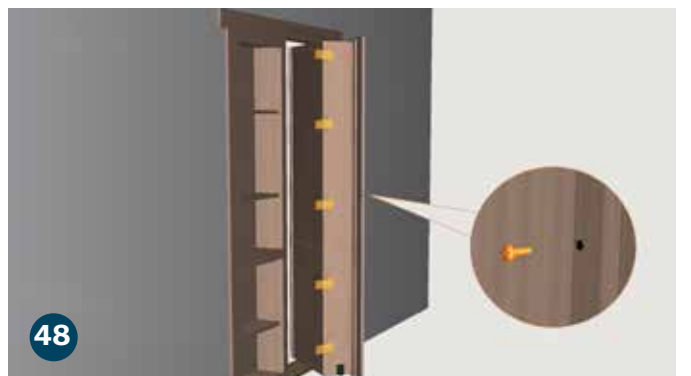
Position the left and right side casings with a 1/2" overhang on the face frame of the door. Attach using a brad nailer.



Using a 1/8" drill bit pre-drill five holes into either the left face frame side of the right bookcase or the right face frame side of the left bookcase. The center casing will be attached to whichever frame side you have drilled.



Run a bead of glue down the face frame of the door, avoiding the drilled holes, to strengthen the center casing. Firmly press the center casing into place. Test the door swing prior to screwing in to ensure it doesn't make contact with the floor.



Secure the center casing to the face frame using (5) 1-1/4" truss head screws (D), making sure not to drill through the front side of the casing.

**Congratulations.**

This completes the assembly and installation of the Murphy Door Unassembled French Door.