

FRANKLIN AUTOSWING® BI-FOLD DOOR INSTALLATION GUIDE

COMPONENTS LIST

ORDER INFO:

Shop drawings

DOORS:

(4) Door slabs

JAMB:

N/A

HINGES:

(8) Butt hinges, for edges where doors join

(2) Pivot hinges (at jambs)

HARDWARE:

(1) 16ft (overall length) Sliding track

(1) Pair Trolleys

(2) End stops + springs

OPENER:

(1) Franklin Auto-swing opener w/ swing arms

ACCESSORIES:

(4) Brush sweeps (for length of each door slab)

WHAT YOU WILL NEED

- An extra person or 2 (for installation assistance)
- Tape Measure
- Carpenter's Level
- Power drill + bits
- Finish nail gun + nails
- Philips + slotted screwdrivers
- Hammer
- Utility knife
- Sandpaper
- Waterproof wood glue
- Wood shims
- Wood blocks (for propping up door in position)
- Painters tape (to reduce "tear-out")
- Circular saw (if adjusting height)

Your hand made wood doors will arrive raw, ready for light sanding and finishing. We recommend finishing the doors prior to hanging to ensure all surfaces and edges are protected - take care to consider surfaces that may need to be trimmed or planed once the doors are hung.

STEP 1 - LAYOUT

- Using the shop drawings – lay out the door slabs according to **interior** vs **exterior** surface:

REALCRAFT

- Locate slabs with (1) rounded edge – position rounded edge at jamb side with round to the inside (doors fold-IN)
- Match slabs with butt hinge prep where doors fold

STEP 2 - INSTALL THE TRACK

- Locate the track for the opening.
- Considering the setback for door thickness and clearances, mark the mounting location for the track at the top as well as the bottom pivots within the opening.

SETBACK:

To match the surface of the door with the surface of the adjacent siding, the track will need to be setback from the face of the header.

CLEARANCES:

- 1-3/8" from edge of door to pivot point (pre-drilled at shop)
 - 1-9/16" (MIN) from jamb-legs to center of pivot (top and bottom)
 - 3/16" MIN gap between jamb and edge of door
- Make sure the carriage insertion window, visible at the underside of the track, is positioned to the center of the opening.

NOTE: If the track needs to be trimmed - trim off the end at the jamb (not the insertion point). For balance and symmetry - make straight and equal cuts.

- In order, at the insertion window, load the top pivot, end stop, spring, and trolley for each half of the opening – keep them loose for final adjustments later.
- Line up the top pivot with the corresponding bottom pivot and install the track.

STEP 3 – INSTALL TOP PLATE + BOTTOM PIVOT

- Attach the mounting plate to the top of the door.
- Assemble and install the corresponding bottom pivot.

STEP 4 – INSTALL THE DOORS AT THE PIVOT

- Position the bottom of the door over the bottom pivot seated flat. Move the top of the door towards the top pivot in the track (you may need to tighten the track pivot upwards using the wrench, supplied).
- Push up and click the door over into the seat in the top pivot. Use a 3/4" wrench on the bottom to raise the door to the desired height off the floor.
- Align doors according to spacing listed above – gaps between slabs, at top and bottom, as well as against cased opening.

STEP 5 – INSTALL CENTER DOOR SLABS

- Secure the doors at the jamb in the open position (with temporary blocking) to align the corresponding hinges and trolleys.
- The doors have been pre-drilled for the butt hinges, hang the center door slabs with the hinges provided and attach corresponding carriage (trolley) to the opposite end of the door.
- Operate the doors to ensure smooth range of motion.

STEP 6 – DOOR ADJUSTMENTS

- Check alignment -
 - The top of the door to the bottom of the track should be equal.
 - The gaps between each panel should be equal.
 - From one slab to another, the gap at the bottom of the door to the floor should be equal.

REALCRAFT

STEP 7 – INSTALL FRANKLIN AUTO-SWING

- Refer to the Franklin auto-swing installation manual
 - Page 7 for motor dimensions
 - Page 6 for the system overview.
- The **mounting location of the motor** and the **attachment point of the arm** on the door are directly related to the **clearance available at the side** (left or right) of the opening and the **maximum open position** suitable for the doors.

To determine the mounting points that will work for your application this step requires the motor and extension arms be assembled and trial run.

TRIAL GUIDELINES:

For the arm to stay within the opening (in the max open position) use the following parameters:

- **Motor mount:** 12" – 17" from center of motor pivot (at the underside of the motor) to the edge of the door (door in closed position).
- **Arm attachment:** Based on the mounting location of the motor, the attachment point of the arm can range from 32" – 40" from edge of the door to center of the arm mounting bracket.

TRIAL:

1. Open the doors to the maximum open position.

NOTE: When setting the max open position, test open / close to ensure the leading door can reverse easily by allowing enough "bank space". The end stop + spring will give flexibility to reverse and close. In conjunction, the Franklin Auto-swing can be programmed with the limiter function.

2. Lay the motor and arms on the ground and maneuver them to find mounting points that fit the parameters of your application. *(if needed, trace the open doors on the ground for a template).*
3. Move the end stops to the desired location and tighten.

INSTALLATION:

1. Once the mounting location is determined, install the motor and arm:
 - Using a 2x4 as a template – place the 2x4 flat on the top surface of the door.
 - Position the bottom of the motor mounting bracket no less than 1-1/2" above the top edge of the door (see photo example).



SOFFIT MOUNT BI-FOLD -
Use a 2 x 4 spacer to locate mounting point of motor bracket – no more than 1-1/2" above top surface of door to bottom of mounting bracket.



SOFFIT MOUNT BI-FOLD -
Clearance is limited - mounting the arm bracket toward the top edge of the door.

SOFFIT MOUNT BI-FOLD -

Use a 2 x 4 spacer to locate mounting point of motor bracket – no more than 1-1/2" above top surface of door to bottom of mounting bracket.



- Mount motor above opening and arm bracket on door.
- Open and close the door to verify clearances.
- For programming, proceed to the Franklin auto-swing installation guide.

STEP 8 – (OPTIONAL) INSTALL ASTRAGAL

- To cover the gap between the center doors - attach an astragal to surface of trailing door at exterior using wood glue and finish nails
Alternate: countersink screws then plug holes and finish to match doors