JELD-WEN DesignGlide Barn Door Hardware System Installation (JII-90003)

IMPORTANT INFORMATION

PRECAUTIONS AND SAFETY

- Read and fully understand ALL manufacturer's instructions before beginning. Failure to follow proper installation and finishing instructions may result in the denial of warranty claims for operational performance problems.
- Kit contents are not to be resized outside of the limits on page 5. Modifying the kit contents beyond this will result in the denial of warranty claims.
- Do not work alone. Two or more people are required. Use safe lifting techniques.
- Wear protective gear (e.g. safety glasses, gloves, ear protection, etc.).
- Operate hand/power tools safely and follow manufacturer's operating instructions.
- If disturbing existing paint, take proper precautions if lead paint is suspected (commonly used before 1979). Your regional EPA (www.epa.gov/lead) or Consumer Product Safety Commission offices provide information regarding regulations and lead protection.
- **WARNING:** Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Use a respirator or other safeguards to avoid inhaling wood dust.
- Hand fasten & tighten all fasteners with appropriate tool.
- If door includes glass panels, ensure drilling for handle or finger pull will not interfere with glass.
- Only one door can be hung onto a track.

MATERIALS AND DOOR HANDLING

- Allow doors to acclimate to local conditions for at least 24 hours before finishing.
- Store door in dry, well-ventilated area.
- Do not drag the door slab on the floor.
- Protect from exposure to direct sunlight during storage.

IF INJURY OCCURS, IMMEDIATELY SEEK MEDICAL ATTENTION!

MATERIALS AND TOOLS

NEEDED MATERIALS

- (1) 1 3/8" hollow core or solid core door slab (NOT included, see page 2) .
- Paint/stain/sandpaper for use on the door and backer board (optional).
- Scrap wood (optional, blocking for predrilling).
- Tape.
- Black paint (optional, for resizing Rustic kit for custom width door).

NEEDED TOOLS

- Drill
- 3/32" drill bit
- 1/8" drill bit
- 5/32" drill bit
- 3/16" drill bit
- 1/4" drill bit
- 1 1/4" Forstner bit (for optional finger pull installation)
- (2) Clamps
- Level
- Stud finder
- Phillips head screw driver
- Adjustable wrench
- Safety glasses
- Pencil/Pen
- Calculator
- Miter saw with metal cutting blade (optional, for resizing kit for custom width door)
- Metal file (optional, for resizing kit for custom width door)

Visit jeld-wen.com/product-support for installation and finishing instructions and how-to videos.

SELECTING THE CORRECT SIZED DOOR FOR THE INSTALLATION

DOOR SPECIFICATIONS

Solid core doors must have two internal top rails.

Hollow core doors must have one internal top rail.

Door must weigh less than 120 lbs.

DOOR CONFIGURATION

This kit will accommodate a finished opening to the left or a finished opening to the right of the barn door hardware.

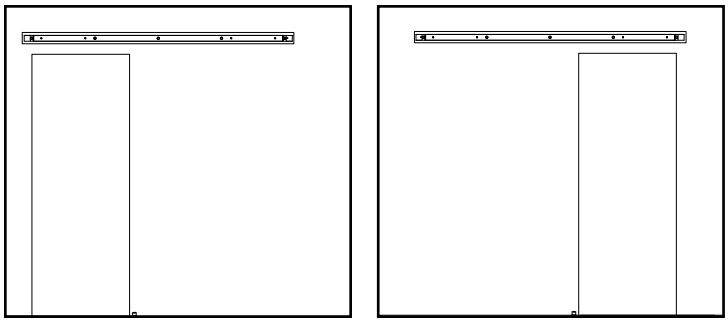


Figure 1. Left and Right Hand Configurations

DOOR HEIGHT

The height of the door used with the kit is dependent on the opening height. Subtract 1" from the opening height to determine the door height. If installing above thick carpet, be sure to firmly press the tape measure to base of carpet to obtain the opening height.

Door Height	Opening Height - 1"

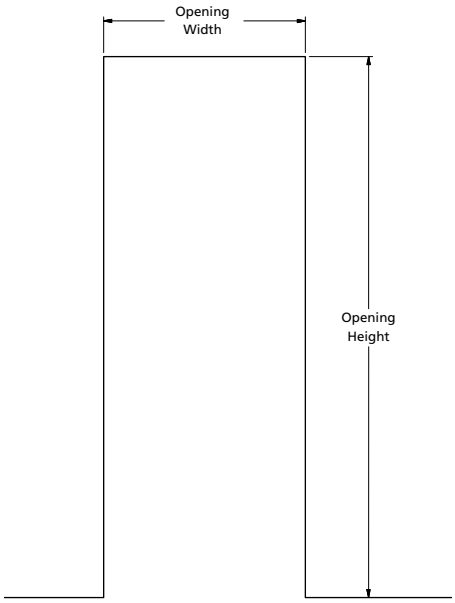


Figure 2. Opening Width and Height

STILE WIDTH

Definition: **Stile** – a vertical piece in the frame of a paneled door.

To install the included finger pull, it is recommended a door without stiles is used, or a door with stiles that are at least 4 11/16" in width, 5" in width if door includes glass panels.

DOOR WIDTH

The selected door should be no wider than the kit's rail width. Recommended door width is least 6" wider than the opening width.

Door Width	Opening Width + 6"

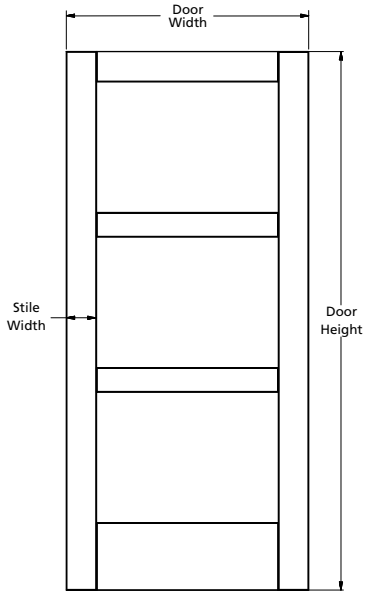
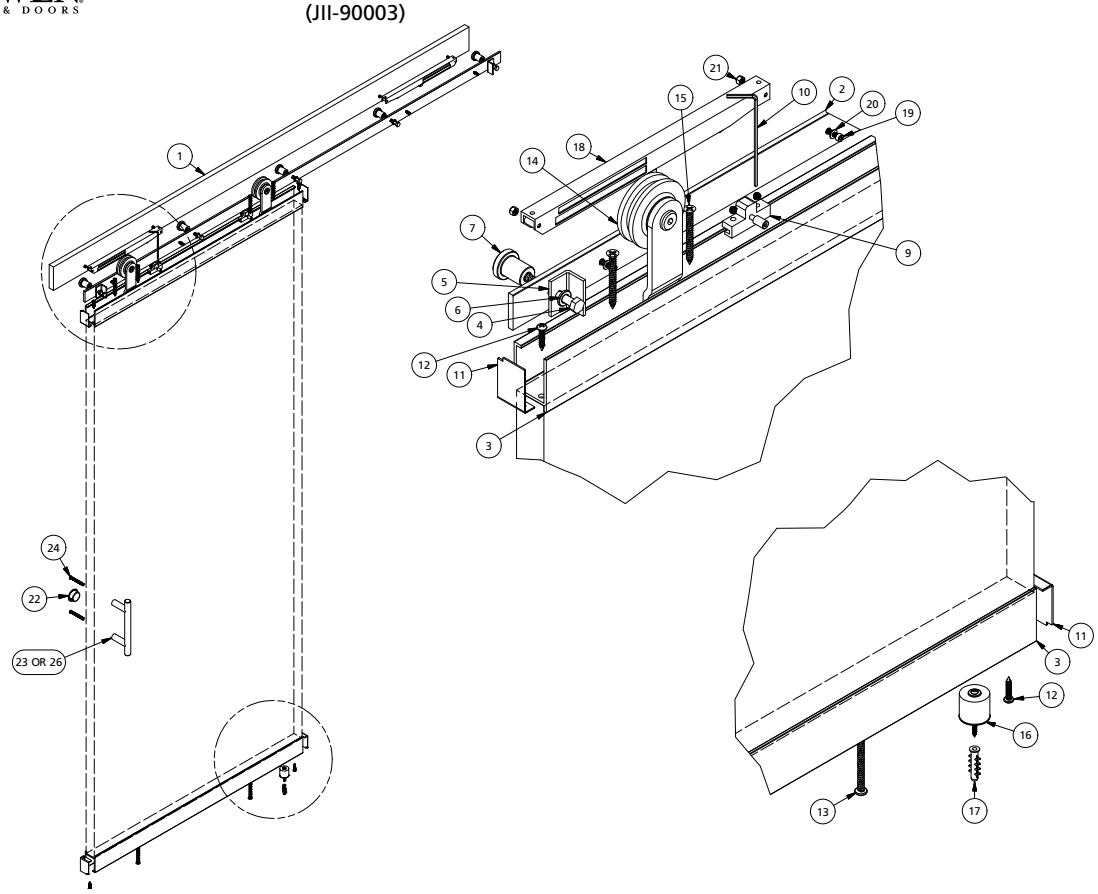


Figure 3. Door Width, Height and Stile Width

KIT CONTENTS



BACKER BOARD (1)
1

SOFT CLOSE TRACK (1)
2

RAIL (2)
3

LAG M8 X 90mm (5/6)
4

TRIGGER ASSEMBLY (2)
9

SOFT CLOSE (2)
18

PASSIVE END STOP (2)
5

ALLEN WRENCH, 3mm (1)
10

HANGER (2)
14

SOCKET HEAD, M4 X 35mm (4)
19

WASHER, M8 (5/6)
6

LEFT END CAP (2)
RIGHT END CAP (2)
11

FLAT HEAD, #14 X 2 1/2" (4)
15

WASHER, M6 (4)
20

STANDOFF (5/6)
7

PAN HEAD, #10 X 1" (4)
12

FLOOR GUIDE ASSEMBLY (1)
16

LOCKING NUT, M4 (4)
21

FLAT HEAD
#9 X 2-1/2" (10/12)
8

PAN HEAD, #14 X 2 1/2"
13

FLOOR ANCHOR (1)
17

FINGER PULL (1)
22

MODERN KIT	RUSTIC KIT
MODERN HANDLE (1) 23	RUSTIC HANDLE (1) 26
BUTTON HEAD SCREW, M6 X 55mm (2) 24	FLAT HEAD, #8 X 3/4" (4) 27
ALLEN WRENCH, 4mm (1) 25	

STEP 1: DOOR HARDWARE INSTALLATION

Predrill for handle.

If the door design selected for this kit includes stiles, it is recommended that the handle is installed at the center of the stile. This can easily be achieved through the use of the rulers included on the Handle Drill Guide, on Page 13. Simply measure the stile width of the door, and fold the guide along the same measurement, shown in Figure 4.

If the door does not include stiles, fold as indicated on guide.

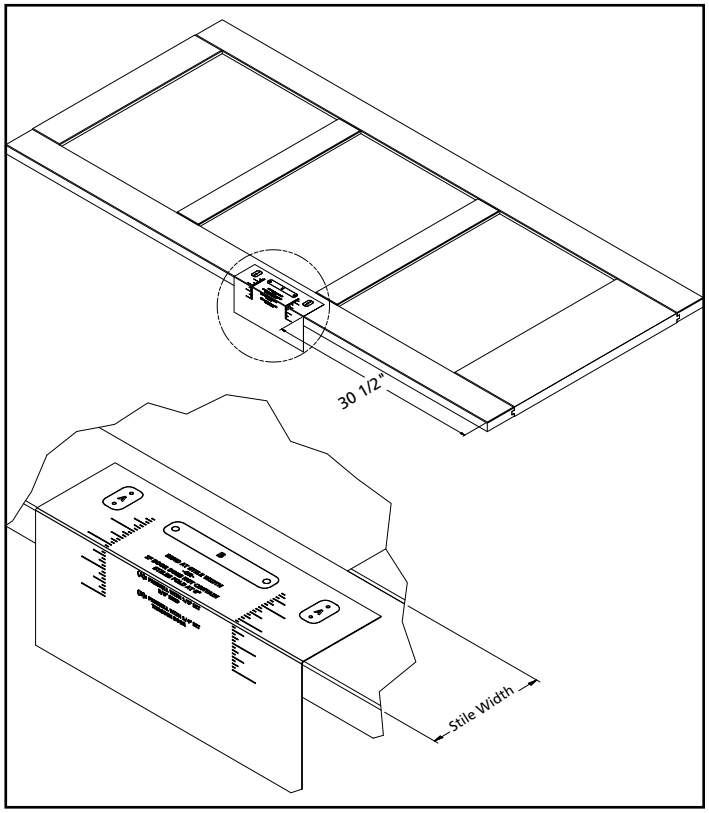


Figure 4. Aligning Handle Drill Guide to Door.

Before predrilling the door, ensure the handle is being installed on the side of the door that will be closest to the opening when the door is in the opened position.

Predrilling handle

1. Remove the Handle Drill Guide on Page 13.
2. Fold the guide along rulers at the correct stile width.
3. Place the bottom edge of the Handle Drill Guide 30 1/2" above the bottom of the door as seen in Figure 4.
4. Tape the Handle Drill Guide in place.
5. Predrill for kit's handle as indicated on guide, to diameter and depth prescribed.

Note: If drilling for the Modern handle apply blocking to the back of the door, clamping it in place under the area of door that will be drilled through. This will help create a clean hole through the door.

Predrilling for finger pull.

An optional finger pull is included in the kit. Before installing, ensure the door design adheres with the stile width guidelines on Page 2.

1. Remove the Finger Pull Drill Guide on Page 14.
2. Fold as indicated on guide and wrap guide around door, placing the guide on the backside of the door, aligning the bottom edge 30 1/2" above the bottom of the door as shown in Figure 5.
3. Tape the finger pull guide in place.
4. Predrill to diameter and depth indicated on guide.

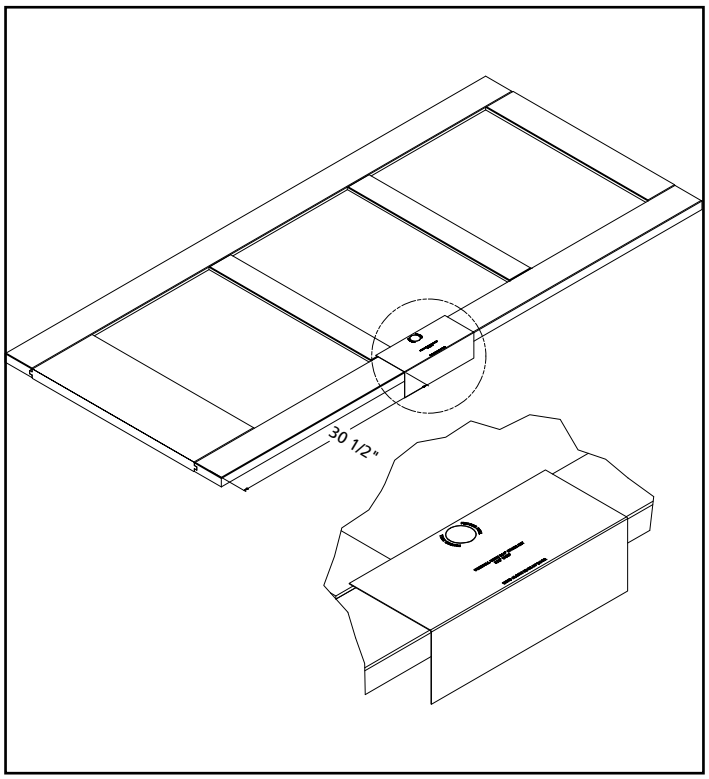


Figure 5. Aligning Finger Pull Drill Guide to Door.

Note: After predrilling for the handle and/or finger pull, sand/paint/stain the door if desired.

STEP 2: SIZING RAIL AND PREDRILLING FOR END CAPS

DesignGlide hardware is capable of being cut down 6" from the kit's stock rail ③ length to support custom width doors.

Kit	Max Door Width	Minimum Door Width
36" (72" track)	36"	30"
42" (84" track)	42"	36"

Table 2. Minimum Door Width

If you are using a door width that is smaller than the kit's stock rail width, follow the steps below. If not, skip to the next step, Predrilling for End Caps.

Sizing Rails

1. Both the top and bottom rails ③ need to be cut symmetrically. Use the formula below to determine your cut dimension 'A'.

$$A = \frac{\text{Rail Width - Door Width}}{2}.$$

2. Mark each rail at the 'A' dimension.
3. Slowly cut both rails symmetrically with a miter saw, using a metal cutting blade.
4. Finish and smooth all edges with file/fine sand paper.
5. If cutting a rustic kit, refinish ends with black paint.

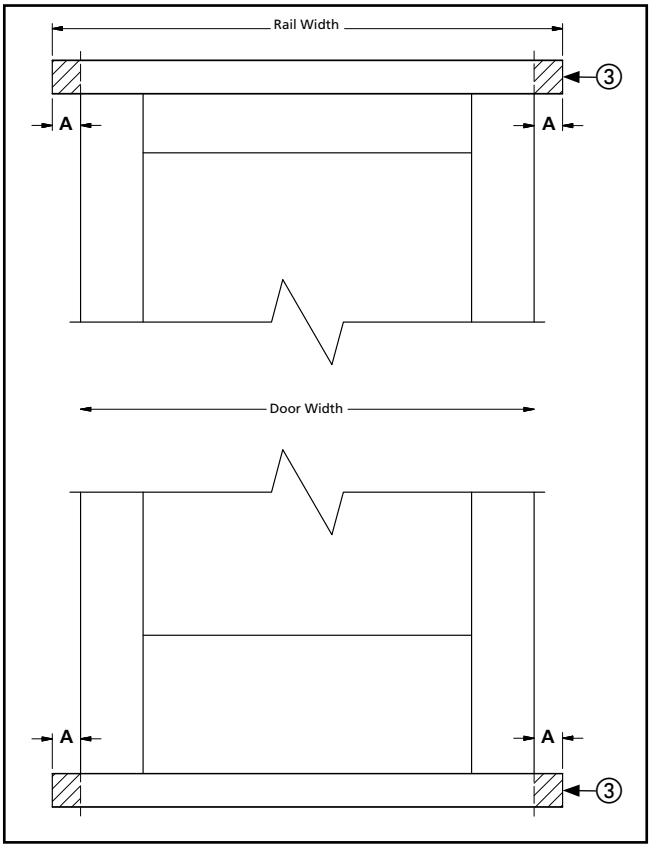


Figure 6. Cutting Rails for Custom Width Door

Predrilling for End Caps.

Place rail in configuration seen in Figure 7.

1. Place an end cap ⑪ inside the rail ③, ensuring it fits flush with end of the rail.
2. Rotate the end cap to the top of the rail as shown in Figure 8.
3. Mark the end cap's fastening hole on rail.
4. Predrill through the rail using a 1/4" drill bit.
5. Repeat for the remaining ends of both rails.

Note: Do not install the end caps at this time.

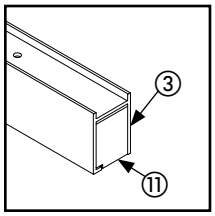


Figure 7. Matching End Cap to Rail

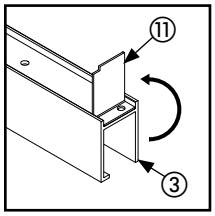


Figure 8. Marking End Cap on Rail

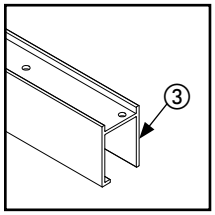


Figure 9. Rail Predrilled for End Cap

STEP 3: TOP AND BOTTOM RAIL INSTALLATION

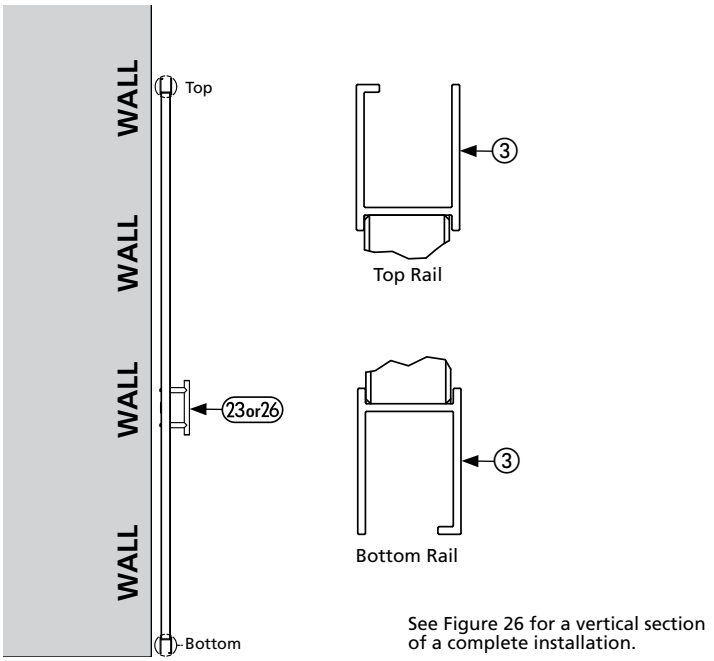


Figure 10. Rail Orientation

Predrill bottom rail.

1. Align one of the two rails ③ to bottom of door, in the configuration shown in Figure 10.
2. Mark the center of holes 1, 3, 4 and 6 as shown in Figure 11, (holes 2 and 5 will not be used on the bottom rail), remove the rail.

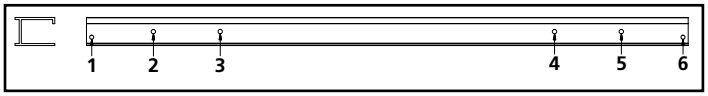


Figure 11. Mounting Pattern

3. Predrill holes 1 and 6 with an 1/8" bit, 3/4" deep.
4. Predrill holes 3 and 4 with a 5/32" bit, 1 7/8" deep.

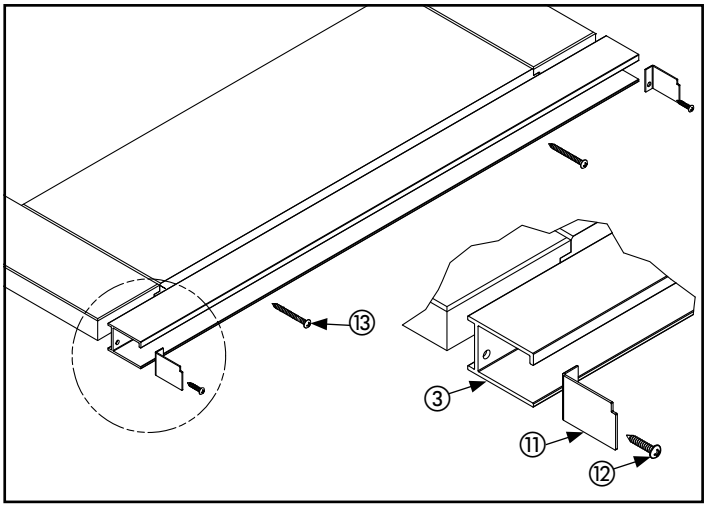
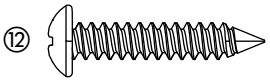
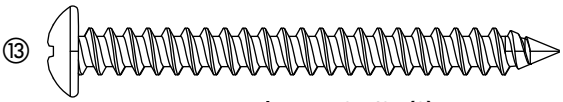


Figure 12. Attach Rail to Bottom of Door

5. Realign rail to the bottom of the door in the same configuration as the door was predrilled.
6. Fasten the rail to the bottom of the door with (2) #14 x 2 1/2" pan head screws ⑬.
7. Install the end caps into holes 1 and 6 using (2) #10 x 1" pan head screws ⑫.



Pan Head, #10 x 1" (2)



Pan Head, #14 x 2 1/2" (2)

Predrill top rail.

1. Align other rail ③ with the top of door, in the configuration shown in Figure 10.
2. Mark the center of all holes, remove rail.
3. Predrill holes 1 and 6 with an 1/8" bit, 3/4" deep.
4. Predrill holes 2, 3, 4, and 5 with a 5/32" bit, 1 7/8" deep.

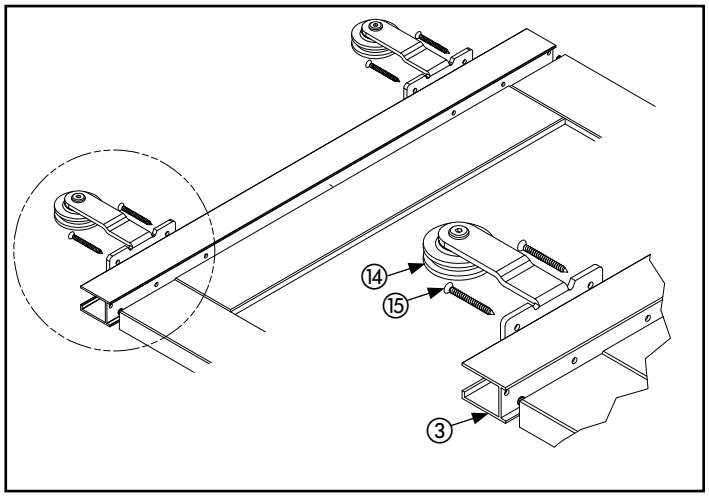
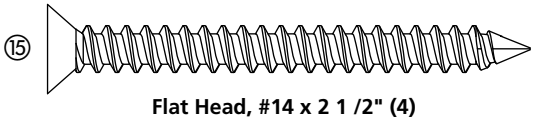


Figure 13. Attach Rail and Hangers to Top of Door

5. Realign rail to the same configuration as the door was predrilled.
6. Place hangers ⑭ with the stem of the hanger aligned with the flat wall of the rail.
7. Fasten the hangers in place through holes 2, 3, 4, and 5 using (4) #14 x 2 1/2" flat head screws ⑮.



Flat Head, #14 x 2 1 /2" (4)

STEP 4: BACKER BOARD INSTALLATION

Predrill backer board.

1. Clamp the track ② to the backer board ① , 1" above the bottom edge.
2. Predrill through the 3/8" holes using a 3/16" bit, through the backer board.

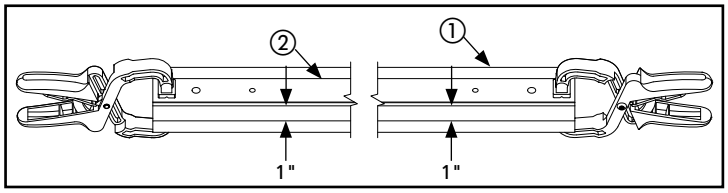


Figure 14. Predrilling Backer Board

Determine backer board offset.

The backer board ① offset is referenced from the inner surface of the door opening to the end of the backer board. This position will coincides with the closed position of your new DesignGlide barn door. Measure the width of your new door and match it to the value for the backer board offset found in table 3.

Kit Size (Track Length)	Door Width	Backer Board Offset
36" (72" track)	30"	8"
	30 1/2"	7"
	31"	6"
	31 1/2"	5"
	32	4"
	32 1/2"	3"
	33"	3"
	33 1/2"	
	34"	
	34 1/2"	
	35"	
	35 1/2"	
	36"	

Kit Size (Track Length)	Door Width	Backer Board Offset
42" (84" track)	36"	8"
	36 1/2"	7"
	37"	6"
	37 1/2"	5"
	38"	4"
	38 1/2"	3"
	39"	3"
	39 1/2"	
	40"	
	40 1/2"	
	41"	
	41 1/2"	
	42"	

Table 3. Determining Backer Board Offset

Determine backer board placement.

The height of the backer board can be determined via the door height using Table 4.

Backer Board Height	Door Height (without the door rails) + 4 1/4"

Table 4. Door Height/Backer Board Height

Notes to consider:

- The floor below barn door must be level. If not, take opening and backer board measurements from highest point.
- If installing into thick carpet, firmly press the tape measure to the base of the carpet before making the backer board height measurement.

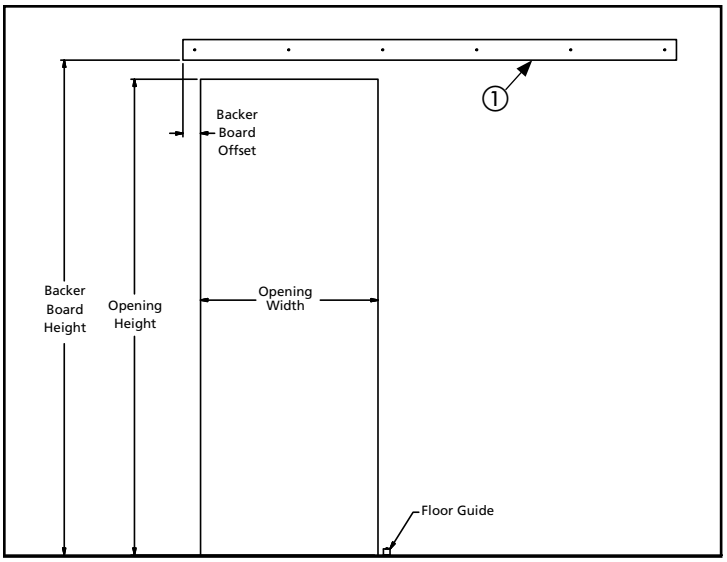


Figure 15. Backer Board Placement

Predrill the backer board for stud attachment.

1. Using a stud finder, mark all stud locations on the wall that overlap with the placement of the backer board ①.
2. Mark stud locations on backer board.
3. With the backer board held in position, and leveled, predrill for the included wood screws using 1/8" bit (two screws per stud, evenly spaced vertically on backer board. The 72" kit comes with mounting hardware ⑧ for 5 studs, the 84" kit comes with mounting hardware ⑧ for 6 studs).

Note: After completing all predrilling of the backer board, sand/paint/stain the board if desired.

Attach backer board to the wall

Once the desired finish is achieved, fasten the backer board to the wall with the included #9 x 2 1/2" flat head screws ⑧.

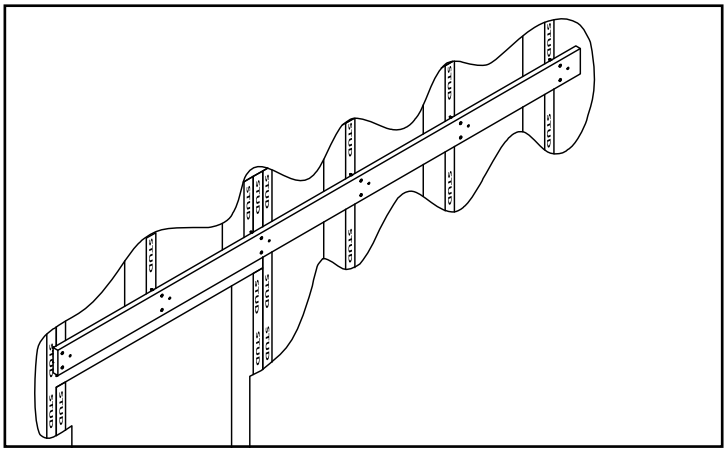
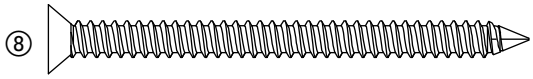


Figure 16. Backer Board Stud Alignment



Flat Head, #9 x 2 1 /2" (10/12)

STEP 5: SOFT CLOSE AND TRACK INSTALLATION

Install soft close to track.

1. Align the soft closes ⑱ on the track as shown in Figure 17, with movable catches loaded towards the center of the track.
2. Verify plastic spacers are inserted into ends of soft close mechanisms, aligned with fastening holes.
3. Fasten the soft close to the track using the supplied M4 x 35mm socket cap screws ⑲, M6 washers ⑳ and M4 locking nuts ㉑.
4. Fasten with supplied 3mm Allen wrench ⑩.

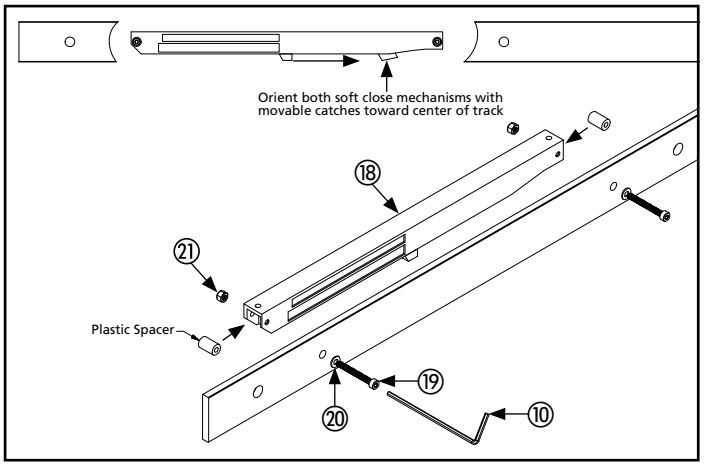


Figure 17. Soft Close Orientation

Fastening track to backer board.

1. Secure the first and last holes in the track ② using a 90mm lag bolt ④, M8 washer ⑥, passive end stop ⑤ and standoff ⑦.
2. Secure the rest of the holes with a 90mm lag bolt ④, M8 washer ⑥ and standoff ⑦.

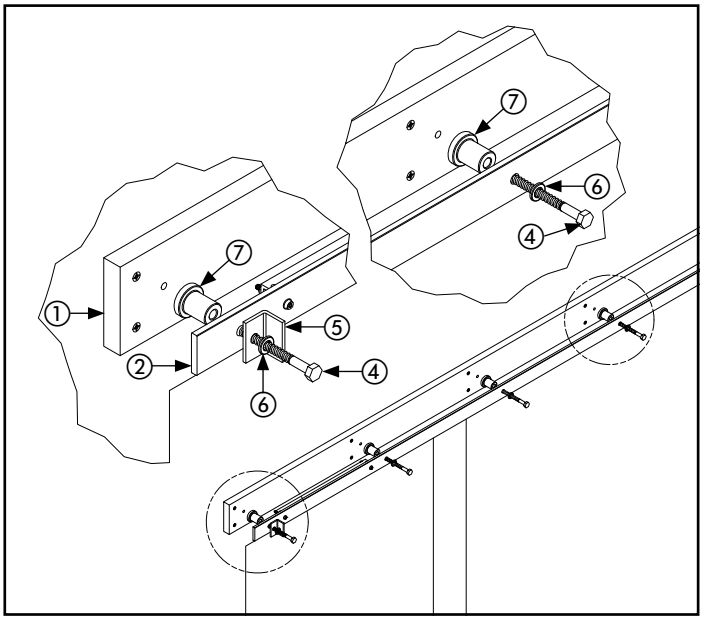


Figure 18. Track Assembly

STEP 6: FLOOR GUIDE INSTALLATION

1. Reference Figure 15 on Page 7, to determine the installation location of the floor guide, relative to open/closed positions of the system.
2. Using a pencil, mark 2" away from the wall and 1 1/2" in from the interior edge of the opening, reference figure 20.

Note: If there is a baseboard, take its thickness into consideration.

3. Predrill with a 3/32" bit, 1" deep. If installing into a concrete floor, predrill with a 1/4" bit, 1 3/8" deep.
4. Assemble the floor guide ⑯ (if not pre-assembled) as shown in Figure 19. If installing into concrete, use floor anchor ⑰ in predrilled hole.
5. Hand tighten the floor guide in place, ensuring the rubber base has the ability to rotate.

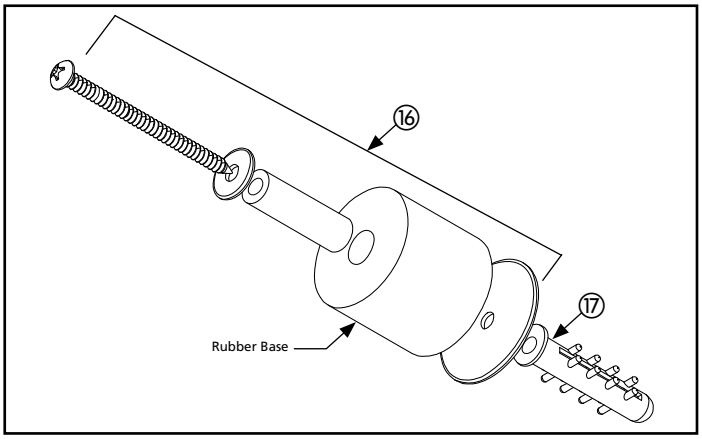


Figure 19. Floor Guide Assembly

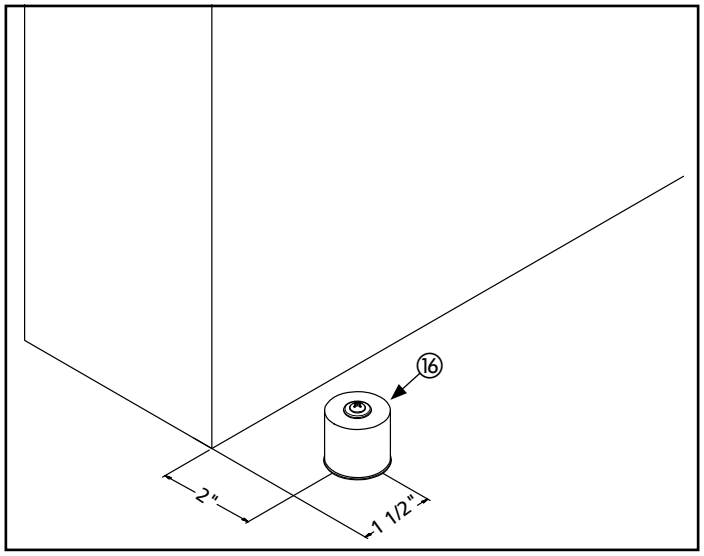


Figure 20. Location of the floor guide

STEP 7: HANGING BARN DOOR

Hang barn door on track.

1. Using two people, lift the door vertically and place the bottom rail over the floor guide Ⓐ.
2. Keeping the bottom rail over the floor guide ⑯, lift the door vertically and place hangers on the track Ⓑ.

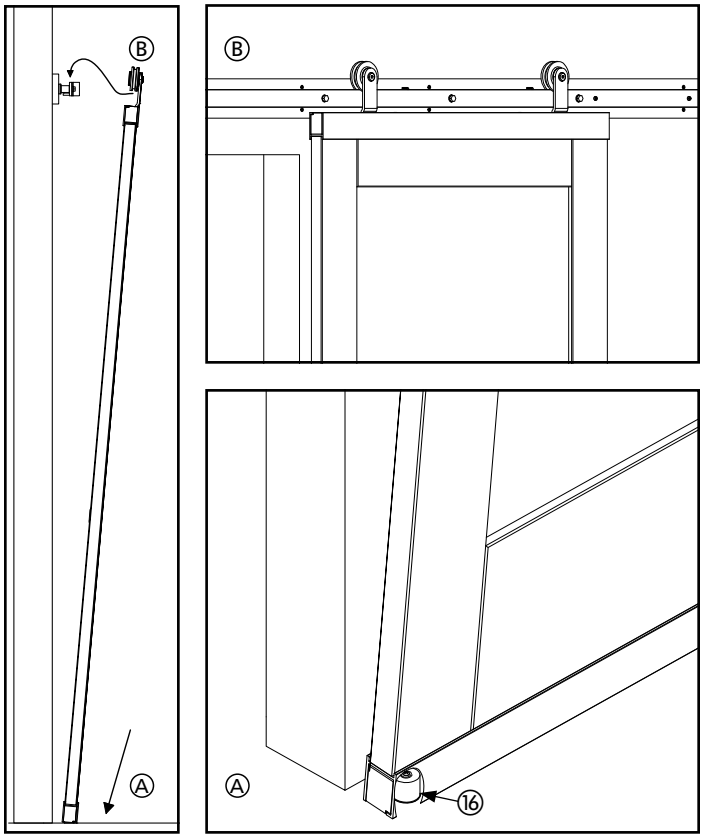


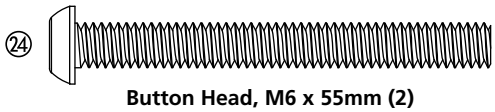
Figure 21. Hanging Barn Door

STEP 8: HANDLE AND OPTIONAL FINGER PULL INSTALLATION

MODERN KIT

Install the Modern handle.

1. Secure Modern handle ㉓ using (2) M6 x 55mm button head screws ㉔ with supplied 4mm Allen wrench ㉕.



Button Head, M6 x 55mm (2)

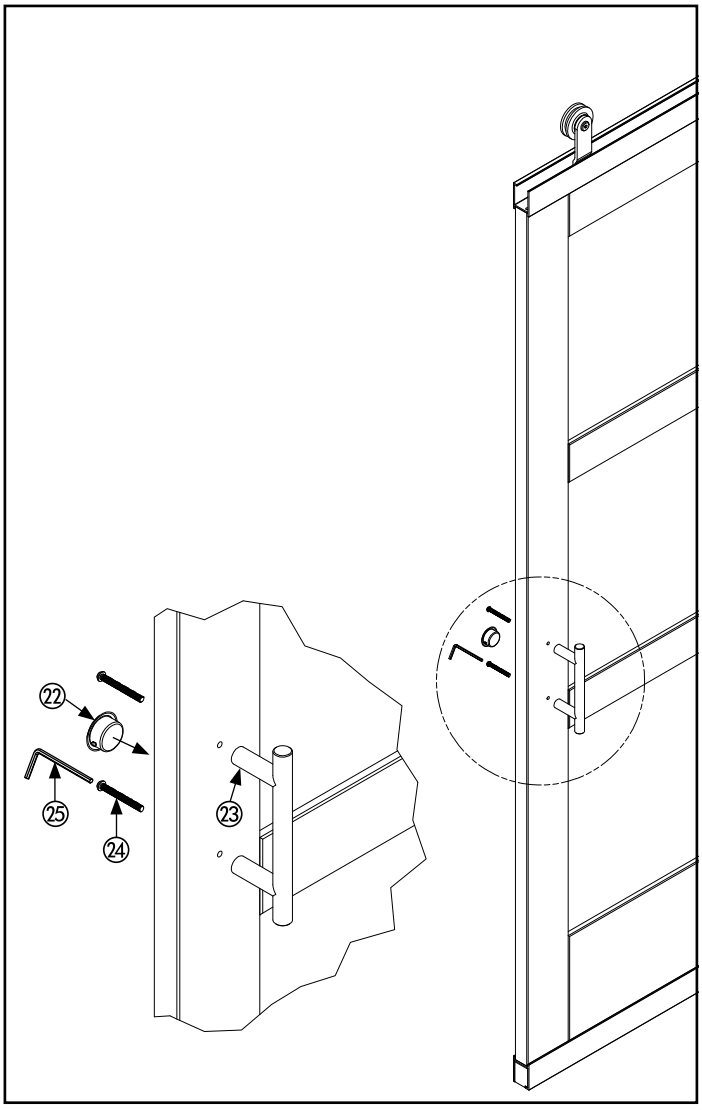


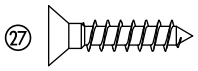
Figure 22. Modern Handle Installation

2. **(Optional)** Press finger pull ㉒ into predrilled hole.

RUSTIC KIT

Install the Rustic handle.

1. Secure Rustic handle ㉖ in place with (4) #8 x 3/4" flat head screws ㉗.



Flat Head, #8 x 3/4" (4)

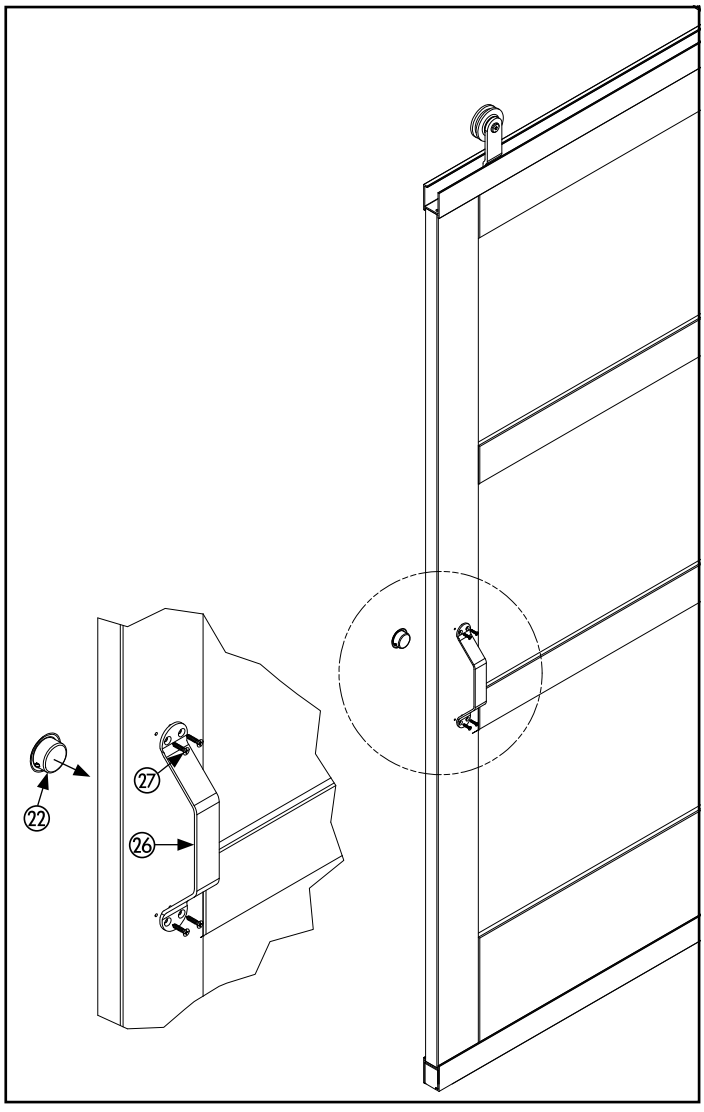


Figure 23. Rustic Handle Installation

2. **(Optional)** Press finger pull ㉒ into predrilled hole.

STEP 9: INSTALL AND ADJUST SOFT CLOSE TRIGGERS

Attach soft close triggers.

1. Slide the door to the center of the track.
2. Check the position of soft close catch. Both should be loaded towards the center as noted in Step 5: Soft Close and Track Installation, Figure 17.
3. Remove the anti-jump rod from the trigger assembly.
4. Slide the trigger onto the rail using the measurements found in table 5.

   a. **Measurement 'A'** is taken from the **edge closest to the handle,** as shown in figure 25.

   b. **Measurement 'B'** is taken from the **opposite edge of 'A'**.
5. Secure the triggers ⑨ in place with the set screws using the supplied 3mm Allen wrench ⑩ as seen in Figure 24.
6. Secure the anti-jump rod back into the trigger block using the supplied 3mm Allen wrench.

Note: Fine adjustments to the open and closed positions of the door by loosening the set screws and sliding to the desired position and re-tightening the set screw in the trigger.

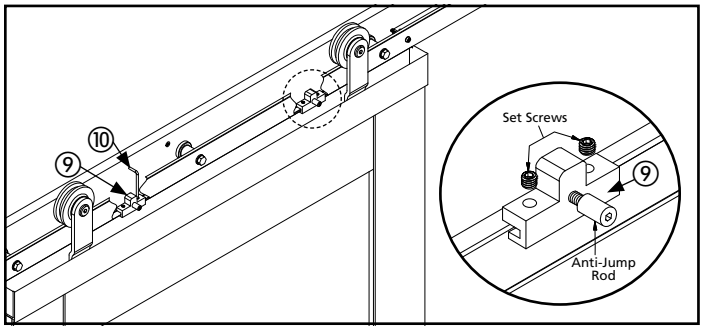


Figure 24. Trigger Installation

Kit Size (Track Length)	Door Width	A	B
36" (72" track)	30"	5 1/2"	1/2"
	30 1/2"	6 1/2"	
	31"	7 1/2"	
	31 1/2"	8 1/2"	
	32	9 1/2"	
	32 1/2"	10 1/2"	
	33"	10 1/2"	4 1/2"
	33 1/2"		5"
	34"		5 1/2"
	34 1/2"		6"
	35"		6 1/2"
	35 1/2"		7"
	36"		7 1/2"

Kit Size (Track Length)	Door Width	A	B
42" (84" track)	36"	5 1/2"	1/2"
	36 1/2"	6 1/2"	
	37"	7 1/2"	
	37 1/2"	8 1/2"	
	38"	9 1/2"	
	38 1/2"	10 1/2"	
	39"	10 1/2"	4 1/2"
	39 1/2"		5"
	40"		5 1/2"
	40 1/2"		6"
	41"		6 1/2"
	41 1/2"		7"
	42"		7 1/2"

Table 5. Trigger Locations

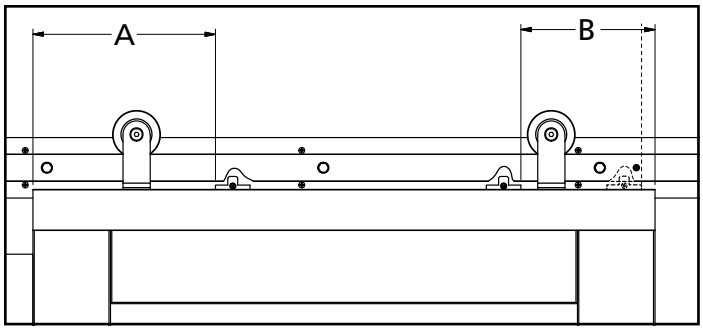


Figure 25. Trigger Alignment

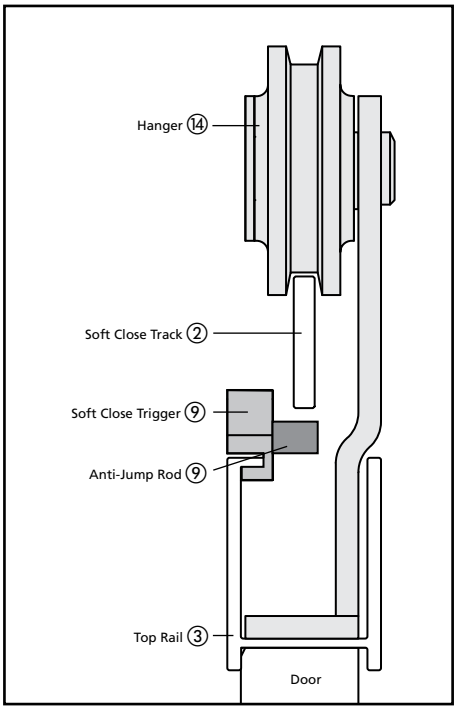
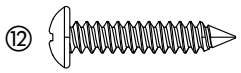


Figure 26. Vertical Section

STEP 10: INSTALL TOP END CAPS TO COMPLETE INSTALLATION

Using (2) #10 x 1" pan head screws ⑫, secure both end caps ⑪ in place.



Pan Head, #10 x 1" (2)

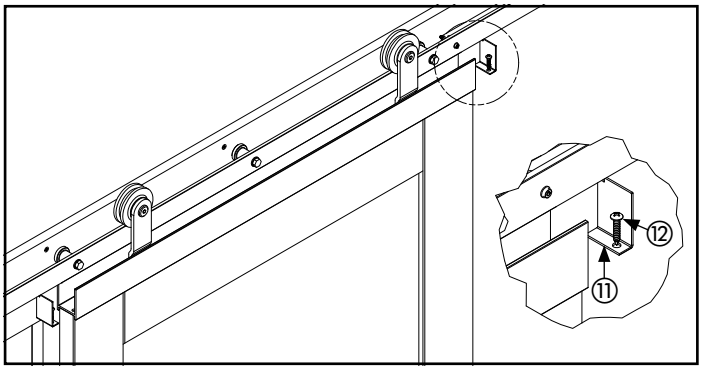


Figure 27. End Cap Installation

30 1/2" from bottom of page to bottom of door

30 1/2" from bottom of page to bottom of door

Finger Pull Drill Guide

30 1/2" from bottom of page to bottom of door

Bend around edge of door

Predrill with 1 1/4" Forstner bit
5/8" deep

30 1/2" from bottom of page to bottom of door