

# Marvin Ultimate Lift and Slide Door

## Service Guide

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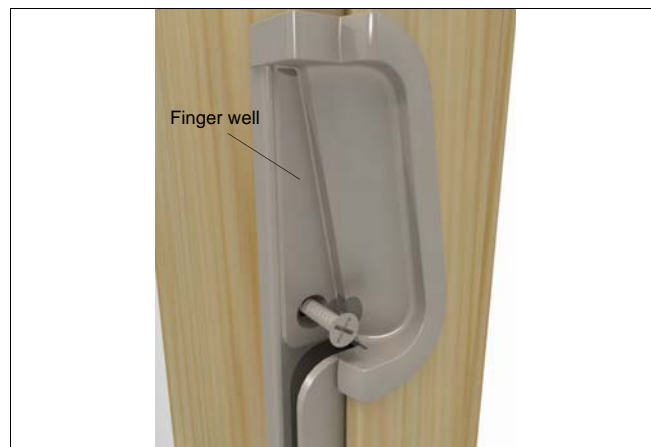
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# Flush Handle Replacement

## Marvin Ultimate Lift and Slide Service Guide

You Will Need to Supply	
Safety glasses	Cordless drill
#2 Phillips bit	

1. Remove the top and bottom finger wells. See figure 1.



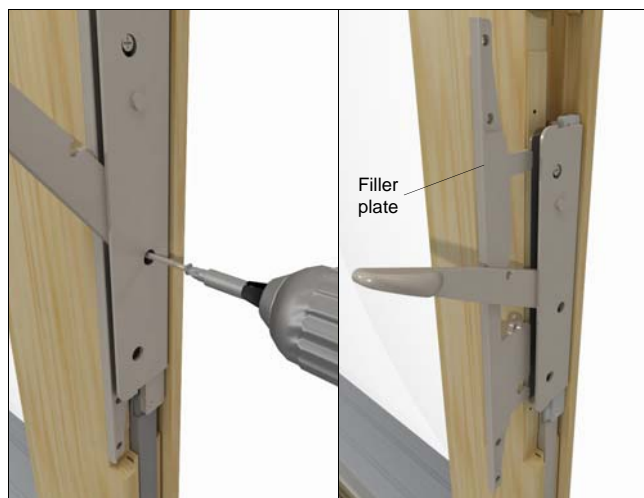
**Figure 1**

2. Remove the stile edge cover by grasping and unsnapping it from the door stile. See figure 2.



**Figure 2** The aluminum wood-wrapped stile edge cover is removed from the door stile by unsnapping it from its position.

3. Next, take off the filler plate by removing the middle screw in the lever case assembly. See figure 3.



**Figure 3**

4. Take out the remaining screws and remove the lever case assembly. See figure 4.



**Figure 4**

## Reinstalling the Flush Handle

1. Install the lever case assembly. When putting lever case assembly back on the door, line up the pins and notches with corresponding hole and notch in the drive rail. See figure 5 and figure 6. Move handle up and down to seat into place and to ensure proper operation before proceeding. Fasten with two 1" screws. See figure 5, figure 6 and figure 7.

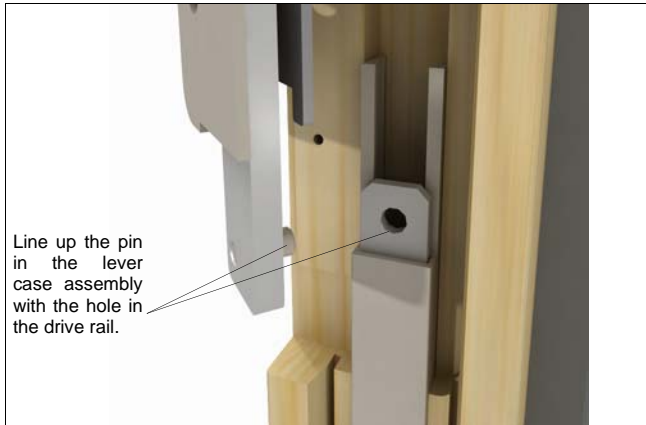


Figure 5



Figure 6



Figure 7



### Tip

Be sure detent feature in handle faces "up" when installing. See figure 8.

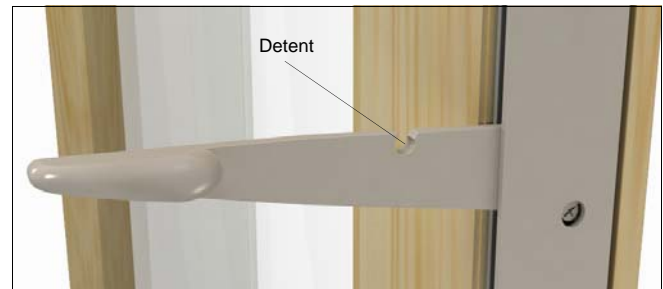


Figure 8

2. Insert the filler plate between the lever case and door stile and attach with one 1 1/2" screw. The filler plate should be flush against the inside face of the door panel. See figure 9.



Figure 9

3. Using the handle rout as a guide, center the stile edge cover on the door and pressure-fit into place. If the finger wells do not fit correctly (in the following step), the stile edge cover may need to be re-aligned. When properly placed, the stile edge cover will be flush with the top of the panel. See figure 10 and figure 11.

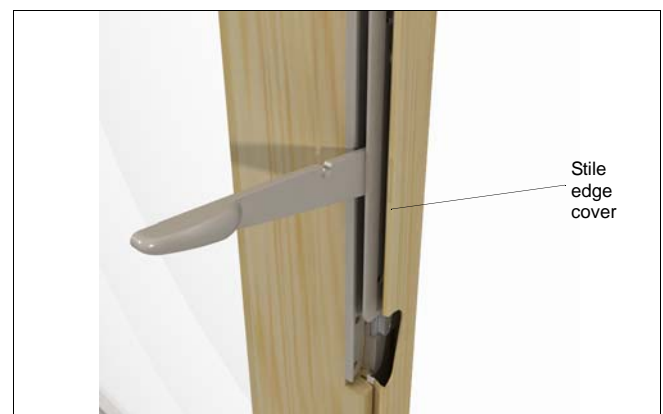
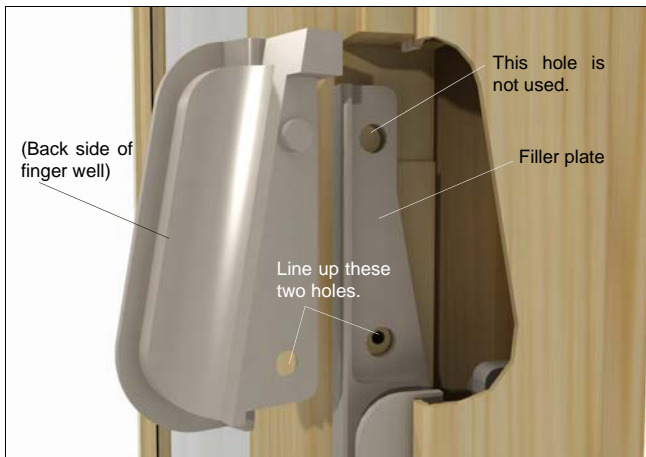


Figure 10



**Figure 11** If the finger wells do not fit correctly, realign the stile edge cover.

4. Install the top and bottom finger wells with 1" screws (one screw per finger well). Note that there may be unused screw holes in the filler plate. See figure 12.

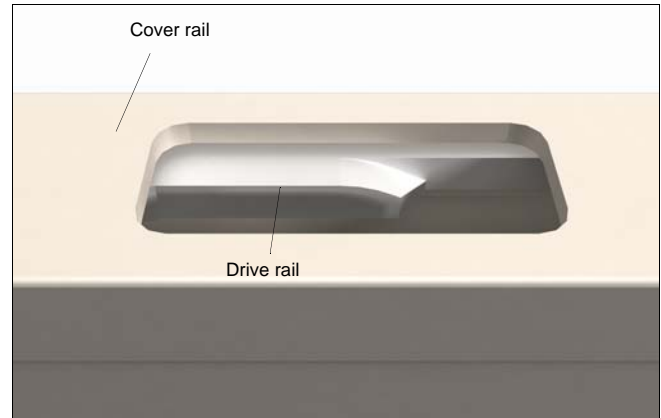


**Figure 12**

## Checking Drive Rail Position

If the handle will not stay in the "up" position, check to see if the drive rail is backwards in the drive rail.

1. Check the cover rail position. The larger bevel should show through the locking side cover rail hole. See figure 13.



**Figure 13** The drive rail is located inside the cover rail.

2. If incorrect, remove the cover rail/drive rail. See step 5 of "Lever Side Cover Rail/Drive Rail Replacement" on page 4.
3. Slide cover rail out from the drive rail, flip it around and reinstall.

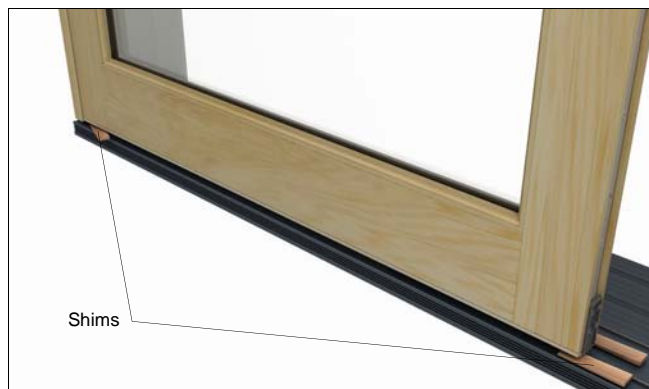
# Lever Side Cover Rail/Drive Rail Replacement

## Ultimate Lift and Slide Service Guide

You Will Need to Supply	
Safety glasses	Cordless drill
#2 Phillips bit	Shims

If the door is not functioning correctly, you may need to adjust or replace the lever side cover rail/drive rail as it may be interfering with the velocity controller.

1. Use the door handle to raise the panel and place shims underneath it as shown. Once shims are in place, lower the panel. This will take pressure off the wheels. See figure 14.



**Figure 14**

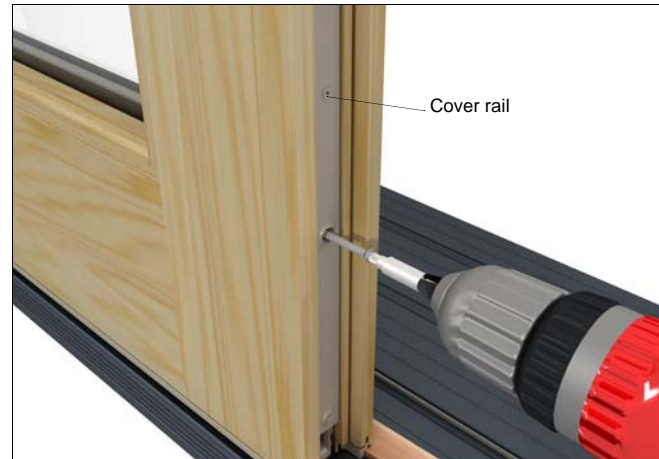
2. Remove the handle. See “Flush Handle Replacement” on page 1.
3. If your door has the Performance Sill, remove the panel retainer. Recessed sills do not have a panel retainer. See figure 15.



**Figure 15**

4. If you are working with a single panel pocket door, remove the panel. See the Panel Removal steps located on page 10 and 11.

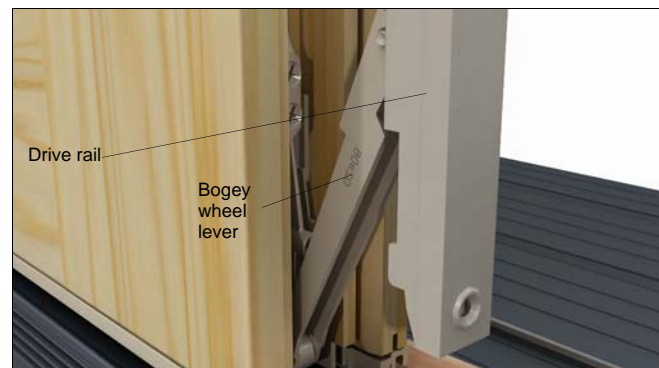
5. Remove screws fastening cover rail/drive rail and header guide (if needed). See figure 16 and figure 17. Take note how the cover rail/drive rail connects with the bogey wheel lever. See figure 18.



**Figure 16** The drive rail is located inside the cover rail.



**Figure 17** The header guide only needs to be removed when the lever side cover rail extends to the top of the panel.



**Figure 18** While removing, take note how the cover rail/drive rail connects with the bogey wheel lever.



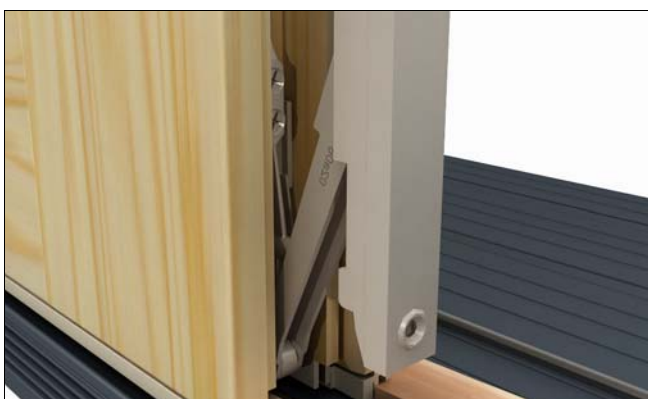
**Figure 19** Ensure that the drive rail components do not interfere with the velocity controller's plunger.

## Reinstalling the Lever Side Cover Rail/ Drive Rail

1. To reinstall the cover rail/drive rail, line up the bottom hole of the cover rail with the hole in the bogey wheel. Move drive rail up or down until linkage drops into place. See figure 20 and figure 21.



**Figure 20** Make sure bogey wheel lever is in the "up" position.

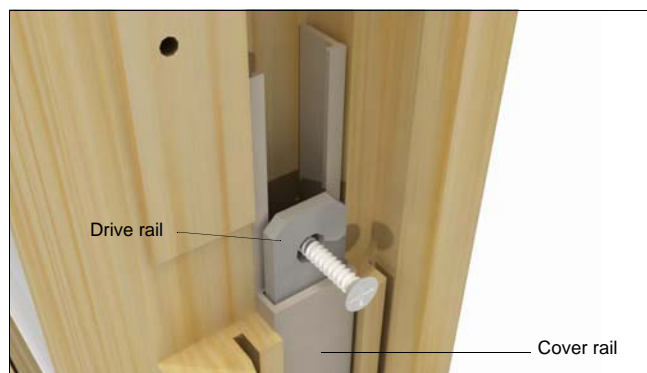


**Figure 21**



## Tip

Place a screw or similar item into the drive rail to raise the linkage and assist with lining it up with the bogey wheel lever. Make sure drive rail is flush with edge of the stile. See figure 22.



**Figure 22**

2. Fasten the bottom of the cover rail/drive rail with one machine screw. See figure 23.



**Figure 23**

3. Reinstall 2" screws into the cover rail.
4. Reinstall the handle. See "Reinstalling the Flush Handle" on page 2. Check for proper operation.
5. Lift the panel and remove shims.

# Bogey Wheel Replacement Ultimate Lift and Slide Service Guide

## Removing the Bogey Wheels

You Will Need to Supply	
Safety glasses	Cordless drill
#2 Phillips bit	Hammer
5mm allen wrench	

1. Remove the panel and lay it flat, interior side up. For steps on how to remove the panel, see the Panel Removal steps on page 10 and 11.
2. Remove the handle. See “Flush Handle Replacement” on page 1.
3. Remove lever side cover rail/drive rail and/or locking side cover rail/drive rail. See “Lever Side Cover Rail/Drive Rail Replacement” on page 4.
4. Remove screws from the side and bottom of bogey wheel assembly.



**Figure 24** Lower side of panel.

5. Using a 5mm allen wrench, loosen the set screws from connecting rod.



**Figure 25**

6. Slide the assembly out from the panel.

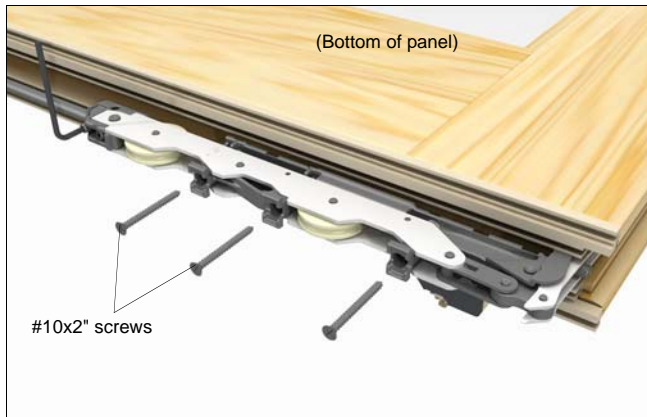


**Figure 26**

## Reinstalling the Bogey Wheels

**NOTE:** To ease installation, new bogey wheel assemblies will arrive in a factory pre-set (fixed) position.

1. Reverse the process from "Removing the Bogey Wheel" section. Install connecting rod. Tighten one set screw on each bogey wheel using 5mm allen wrench.
2. Fasten bogey wheels with #10x2" screws.



**Figure 27**

**NOTE:** After installation of the new bogey wheel assembly is complete, use a hammer to tap the bogey wheel lever and remove the wheels from the fixed position.

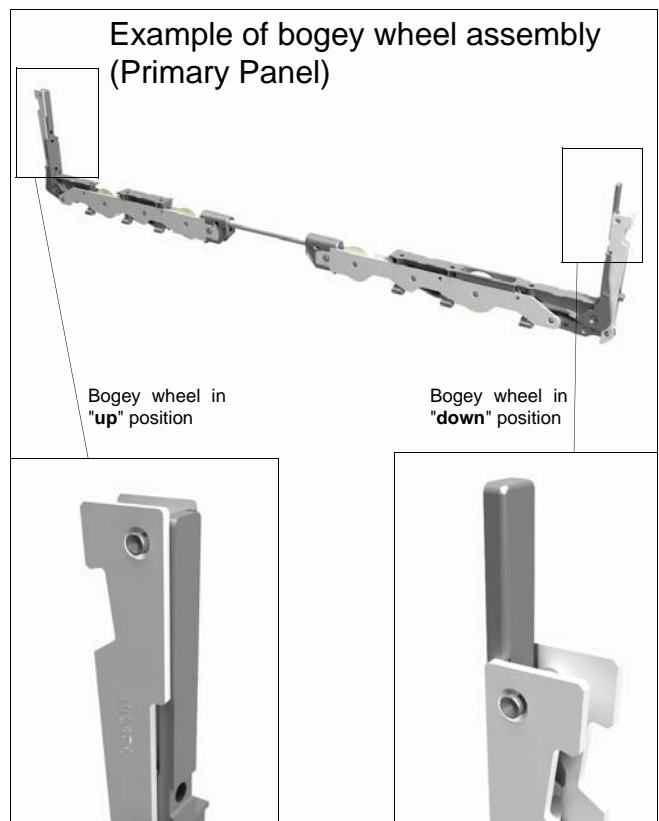


**Figure 28**

3. Confirm that both bogey wheels are in sequence. Using one bogey wheel lever (does not matter which side), depress the lever. Check the opposite bogey wheel. The pushing action from the first wheel should push the opposite side.



**Figure 29** Pushing down on this bogey lever should force the opposite bogey wheel assembly to move. This action ensures proper positioning.



**Figure 30**

4. Check the positioning again (repeat step 2 above). If positioning is still good, tighten the rest of the set screws.
5. Reinstall cover rails/drive rails, stile edge cover, and handle. See the previous sections of this instruction for details on reinstalling these parts.

## Which Bogey Wheel Assembly Do I Need?

If you have a:

Primary Panel/Primary Pocket Panel (e.g. PX-XP)

- Standard Corner Bogey Wheel assembly on the handle side.
- Reverse Corner Bogey Wheel assembly on the locking side.

Secondary Panel or Pocket Panel (e.g. PXX)

- Standard Corner Bogey Wheel assembly on the handle side.
- Straight Bogey Wheel on the opposite from the handle side.

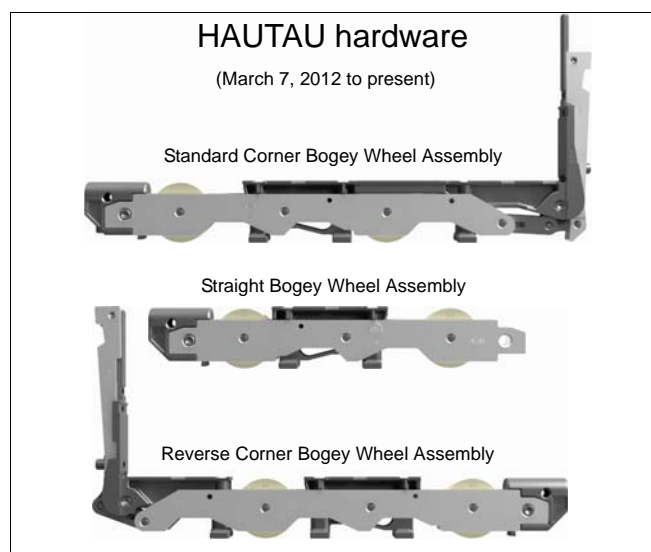


Figure 31



Figure 32

# Interlock Replacement

## Marvin Ultimate Lift and Slide Door, Field Applied Instruction

You Will Need to Supply	
Safety glasses	Cordless drill
#2 Phillips bit	

**NOTE: SERVICE TECHNICIAN:** Remove panels per the appropriate ULS panel removal steps in this instruction. See the table of contents. Replacement of the exterior interlock requires that the panel be placed interior side up on a clean flat surface. Replacement of the interior interlock requires the panel be placed exterior side up on a clean flat surface. See figure 33 to help determine exterior and interior interlock.

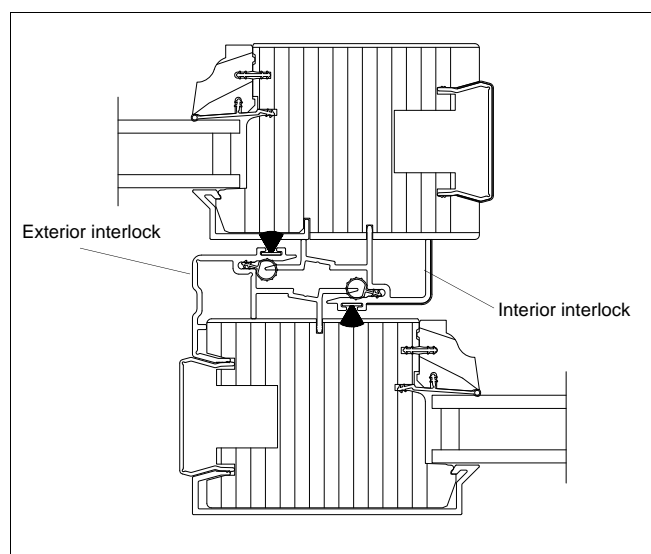


Figure 33

### Remove Interlock

1. For replacement of the exterior interlock, remove the stile edge cover. Proceed to step two for removal of the interior interlock. See figure 34.

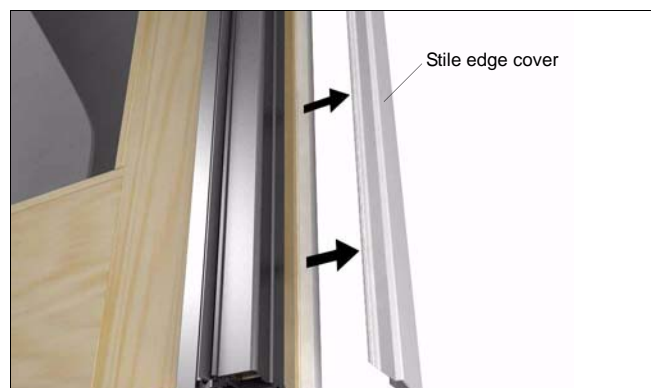


Figure 34

2. Remove bottom gasket from interlock. See figure 35.



Figure 35

3. Remove screws from interlock and gently pry interlock from panel. See figure 36.



Figure 36

### Install Interlock

4. Install new interlock flush with the top of the panel. See figure 37.

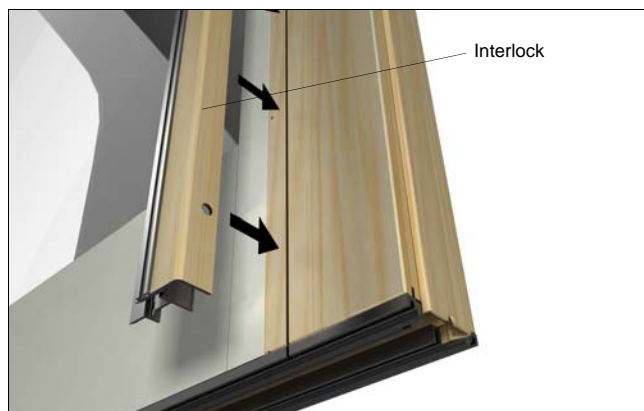


Figure 37

5. Pre-drill holes with a 1/8" drill bit through the pre-punched holes in the interlock. Secure interlock with existing interlock screws. See figure 38.



Figure 38

6. Install bottom gasket. See figure 39.



Figure 39

7. Apply a dollop of sealant to the bottom of the pile weather strip slot to secure the pile weather strip to interlock. Install pile and bulb weather strip flush with the top of the panel on the new interlock. (Remove and use from old interlock or order new.) See figure 40.

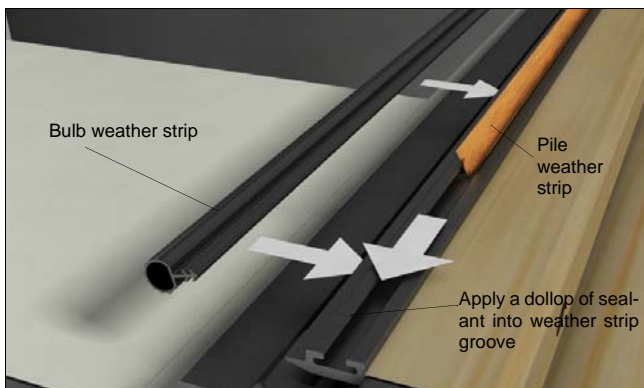


Figure 40

8. Replace stile edge cover on the panel(s).
9. Reinstall panel(s) by reversing the panel removal procedures.

## Primary and Secondary Panel Removal

**NOTE: SERVICE TECHNICIAN:** *Ultimate Lift and Slide Door panels can be very heavy and awkward to handle. Be sure to have sufficient help and use proper lifting and handling procedures. Approximate weight of the panels are 7 lbs per sq. ft.*

10. Open primary panel approximately half-way, lower panel, and apply an appropriate number of suction cups for the size of the panel. Lift panel up and swing the bottom of the panel to the interior to remove. See figure 41. Place the panel in a safe location and repeat this procedure for all secondary panels.



Figure 41

## Stationary Panel Removal

**NOTE: SERVICE TECHNICIAN:** *Stationary panel removal requires removal of the primary and secondary panels first. Remove primary and secondary panels per prior instructions.*

11. For bi-parting doors proceed to step 13. Remove locking bolts and jamb keeper guide. See figure 42.

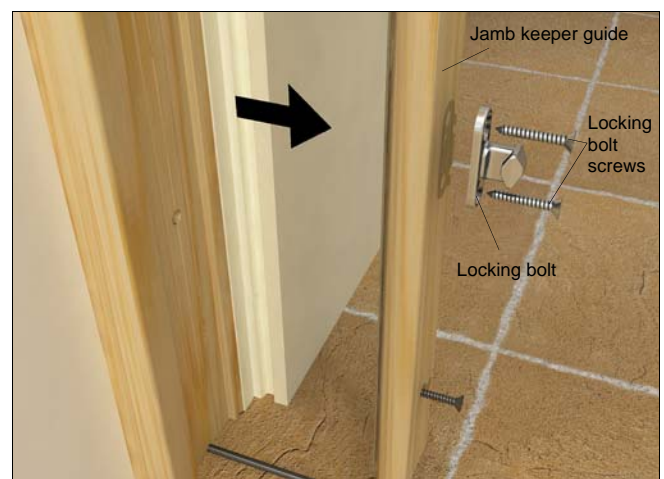


Figure 42

12. Remove side jamb part stops. See figure 43.



Figure 43

13. Remove head jamb part stops. See figure 44.

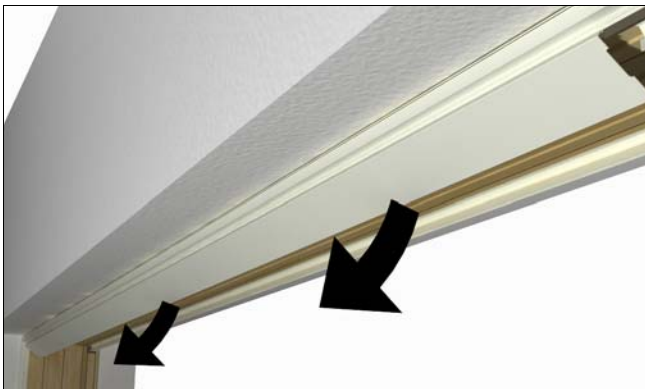


Figure 44

14. Remove stationary panel stile edge cover. Loosen screws from stationary retainers and slide to unlocked position and re-tighten screws. See figure 45.

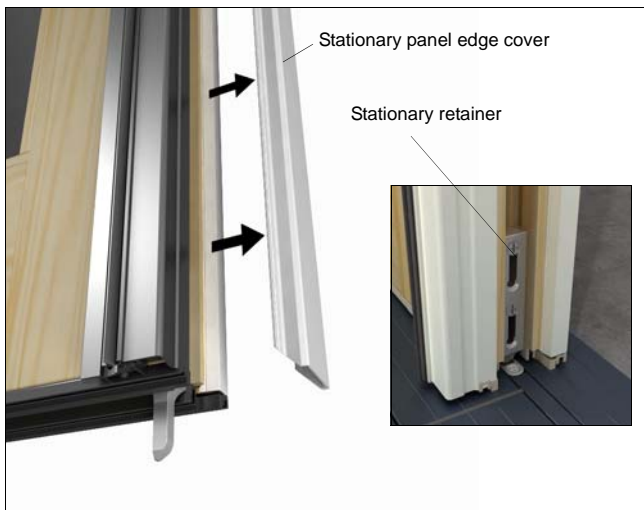


Figure 45

15. Remove interior stationary jamb part stop with a stiff putty knife and remove screws from the stationary brackets.

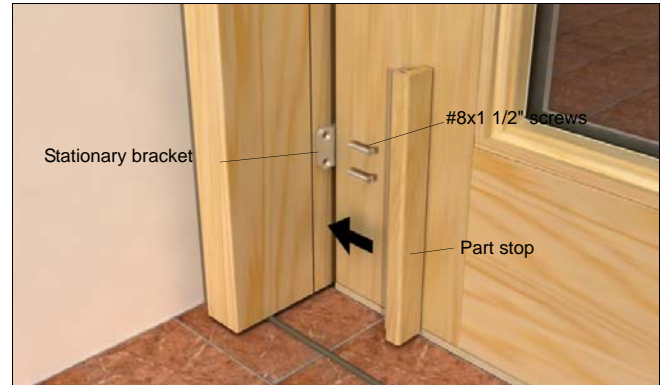


Figure 46

16. Install suction cups on glass and slide the panel 2" -4" (51-102) away from the stationary jamb. Lift up on the panel and swing the bottom of the panel to the exterior to remove.

## Pocket Panel Removal

**NOTE: SERVICE TECHNICIAN:** Pocket panel removal requires removal of the primary and secondary panels first. Remove primary and secondary panels per instructions.

17. For bi-parting doors proceed to step 19. Remove locking bolts and jamb keeper guide. See figure 47.



Figure 47

18. Remove side jamb part stops. See figure 48.

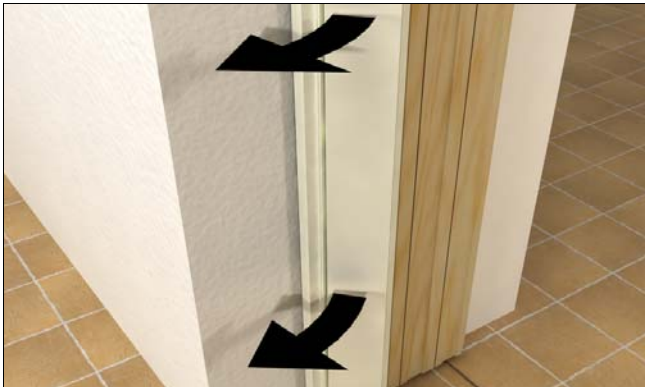


Figure 48

19. Remove pocket panel head jamb part stop. See figure 49.



Figure 49

20. Remove stile edge cover and header guide from the top of the panel. Push the panel back into the pocket past the interlock. Remove the pocket interlock by taking out the screws. See figure 50.



Figure 50

21. Pull pocket panel out of the pocket and remove pocket cover. Take care not to damage the floor when pulling the panel out of the pocket as the panel will roll past the end of the track. See figure 51.

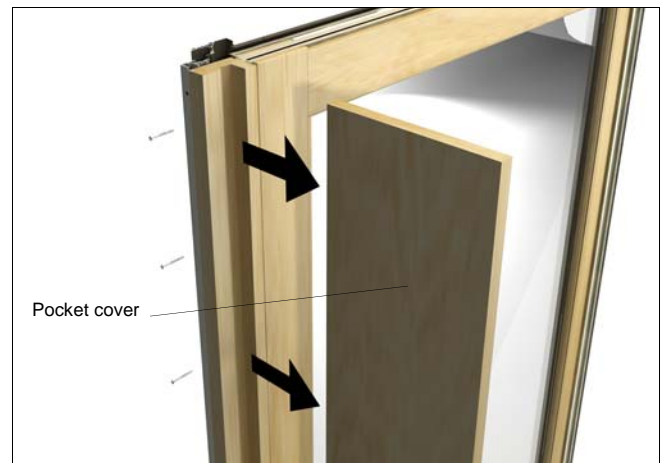


Figure 51

22. Remove pocket panel per enclosed primary/secondary panel removal instruction.