



PATIO STORM DOOR Installation Instructions

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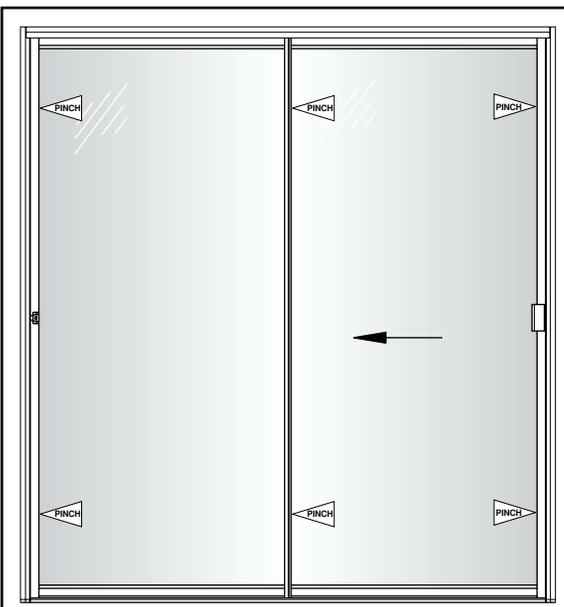
Congratulations! You've purchased a quality-built patio storm door from Larson. See page 6 for warranty details. NOTE: Modification of door will void warranty. **Retain instruction booklet and sales receipt for future reference.**

If you have any questions regarding the installation of your Larson patio storm door or need to order replacement parts, don't go back to the store, call our **Homeowner's Helpline** at **1-888-483-3768**. Our staff of storm door experts are on hand to answer any questions you may have. Please have the following information on hand when you call: (1) Patio door model (2) Opening size of door (4) Color.

READ BEFORE BEGINNING INSTALLATION.

1. The door requires caution while installing and during its total operational life.
2. **The door is heavy and requires two people to lift and install on your home or business.**
3. Pinch points are indicated in the instructions by this symbol.  Children should not be allowed to play with the door and should be made aware of the pinch points by the owner. Failure to properly instruct the user of this product could result in the loss of a finger or other injury.
4. Eye protection must be used during the installation to prevent damage from flying particles.
5. Do not modify or alter the installation and specified use of the door.
6. Read the complete installation instructions before proceeding with installation.
7. After installation, clean door with mild soap and water to remove any oil or dirt residue.

NOTE: Larson Manufacturing Company is not responsible for accidents and injury resulting from the use or installation of this product.



TOOLS NEEDED

1. Power drill with assorted bits
2. Phillips head screwdriver
3. Tape measure
4. Caulking gun with caulk
5. Pencil

Larson recommends having another person help you install your patio storm door. A cordless drill with a screwdriver bit is recommended. Assembly may require shimming to fit existing opening (**shims not included**).

BEFORE YOU GET STARTED

- Verify opening size with size shown on the box label.
- House door trim must be securely nailed to support your new storm door.
- Make sure opening is square
- Check box for any **INSTRUCTION REVISIONS** (printed on colored paper). Instruction revisions take precedence over printed manual.

INTRODUCTION

The Larson Patio Storm is designed to install directly over your existing sliding patio door. Please follow our instructions carefully to assure a tight fitting installation, thereby minimizing air infiltration. For installation over non-standard size doors, the optional accessories allow our storm door to cover most installations. Refer to tools needed before getting started.

PARTS IDENTIFICATION

1. Unwrap the factory assembled glass panels.
2. Open "long" carton containing frame kit and hardware.
3. Lay the frame parts on a flat surface to correspond to the assembly drawing (outside of unit facing up).
Refer to Figure 1 parts lists to identify each component.

ASSEMBLY AND INSTALLATION

PARTS LIST

(Standard Unit)	QUANTITY
Right Jamb	1
Left Jamb	1
Header	1
Sill	1
Removable Lower Track	1
Glass Panels	2
Latch (includes Button, Yolk, Spring)	
Panel Handles	2



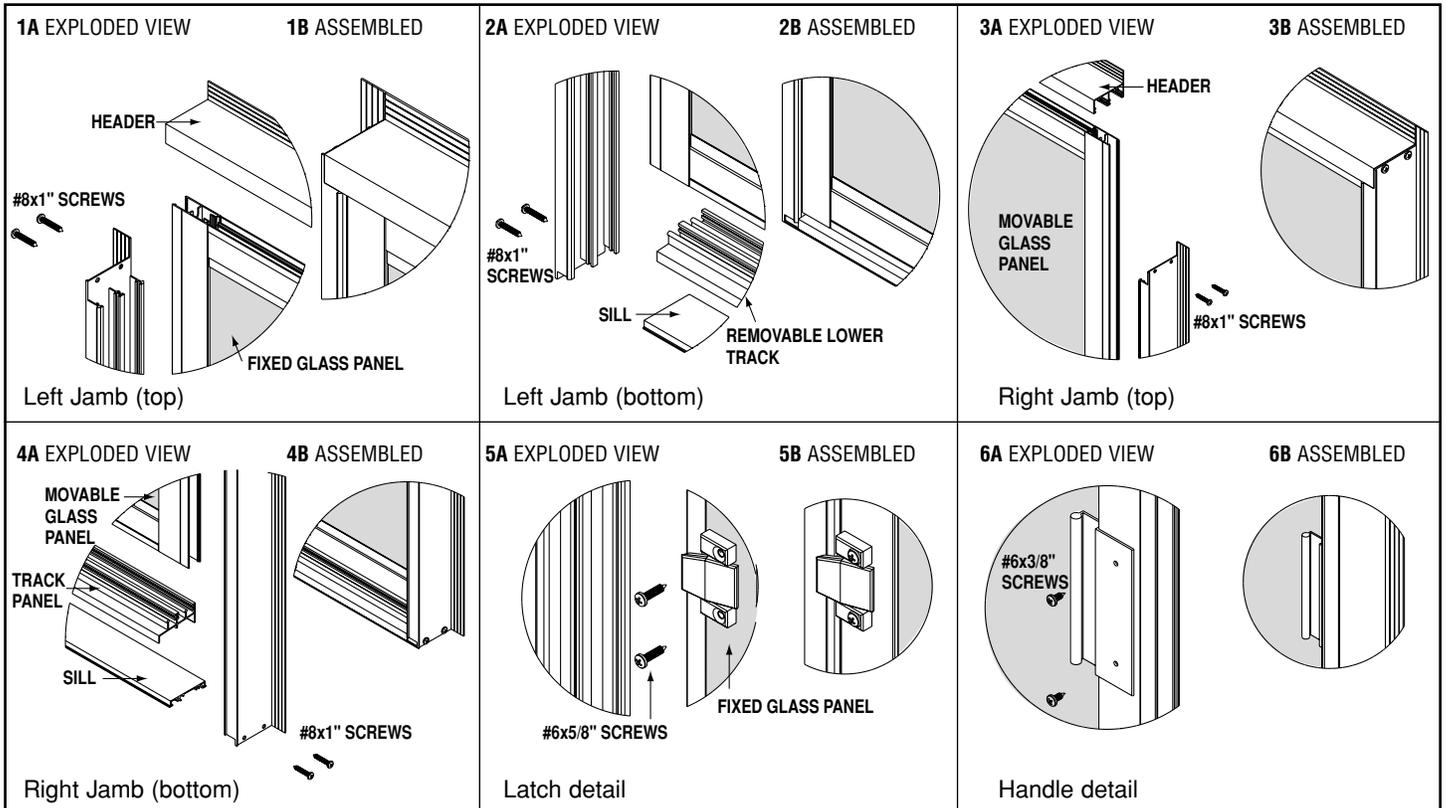
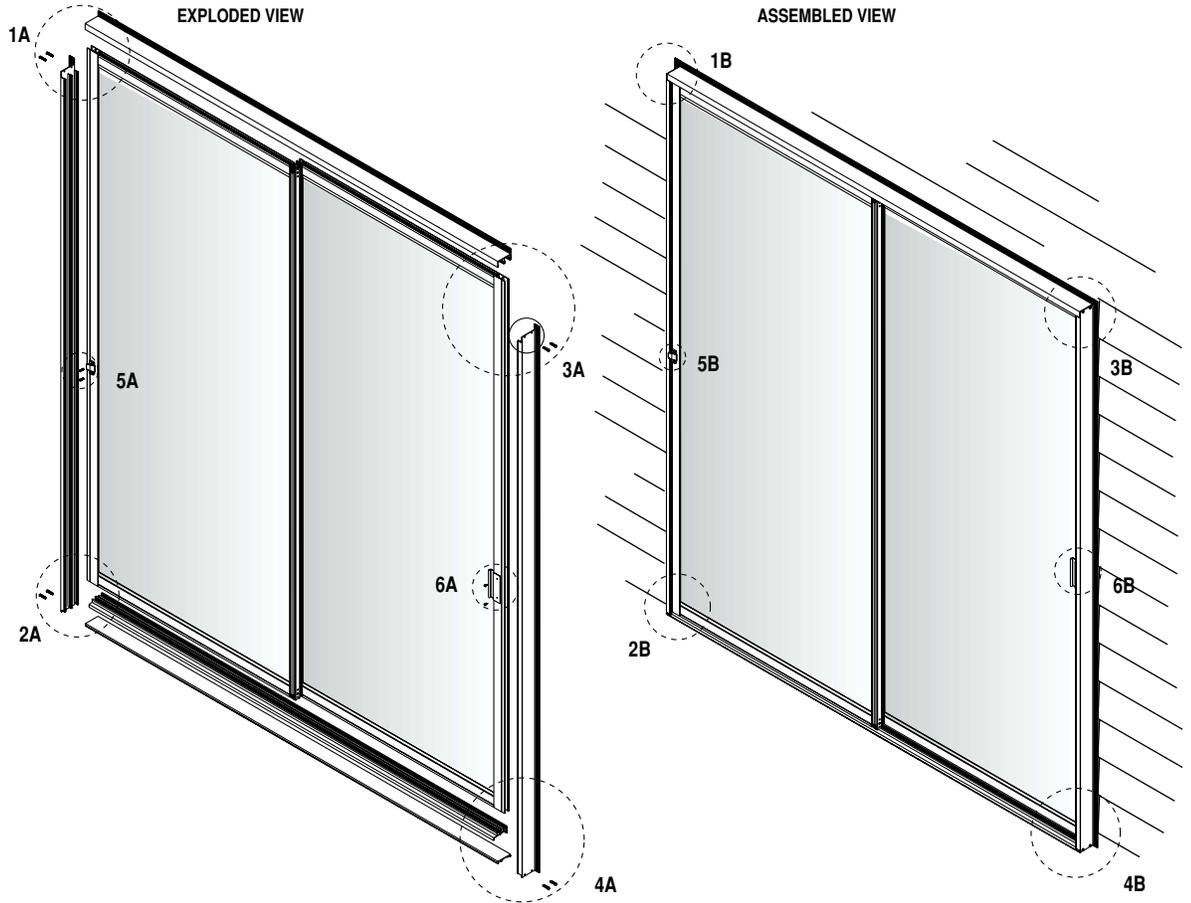
6x3/8" Phillips Head Screw
QUANTITY: 4



6x5/8" Phillips Head Screw
QUANTITY: 8



8x1" Phillips Head Screw
QUANTITY: 13



FRAME ASSEMBLY

BEFORE PROCEEDING: If the optional sill leg is being used, install it in the sill before screwing the frame together (Figure 7). Note the correct position of the sill leg.

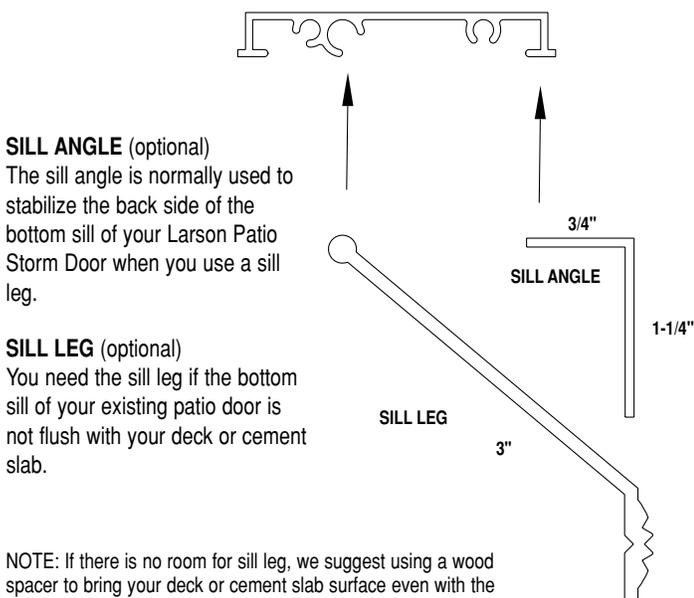
1. For ease of assembly, position the right jamb, left jamb, head, and sill according to the "Assembly and Installation" illustration. Note that the smooth side of the sill is up. The jambs have a large notch at the top to match the header and a small notch at the bottom to match the sill.
2. Assemble the frame with eight (8) #8x1" screws. The screws go through the pre-punched holes in the jambs, and into the screw bosses of the sill and header (Figures 1A and 1B).
3. Pre-drill 1/8" diameter mounting holes approximately 18" apart in mounting fins of jambs and header. Score lines are provided on the fins for aligning holes (Figure 8).
4. For non-standard size openings attach optional accessories to the frame before installing.

INSTALLING PATIO STORM DOOR FRAME

BEFORE PROCEEDING: If a **sill angle** is being used it must be attached to the house **before** mounting the frame (figure 9). If the existing patio door sill overhangs the outside of your house a shim may be needed. To prevent a potential tripping accident, we recommend enclosing the front face under the sill, when the storm door rests on the optional sill angle and *sill leg*.

1. Temporarily position the assembled frame on the existing patio door. Be sure the bottom sill is level and the frame is square. Pencil mark its location.
2. Remove the frame and caulk around the perimeter of the door.
3. Use your pencil marks to relocate the frame over your door.
4. Install #6 x 5/8" screws through previously drilled holes in frame fins.
5. Install the removable lower track over the sill. NOTE: Slope of track **must** be to the outside to allow drainage. Track is removable for cleaning (figure 10).

FIGURE 7: SILL ANGLE



SILL ANGLE (optional)

The sill angle is normally used to stabilize the back side of the bottom sill of your Larson Patio Storm Door when you use a sill leg.

SILL LEG (optional)

You need the sill leg if the bottom sill of your existing patio door is not flush with your deck or cement slab.

NOTE: If there is no room for sill leg, we suggest using a wood spacer to bring your deck or cement slab surface even with the top edge of your existing patio door sill. The sill angle can be used to attach wood extension trim around the existing door frame.

FIGURE 8: JAMB SECTION

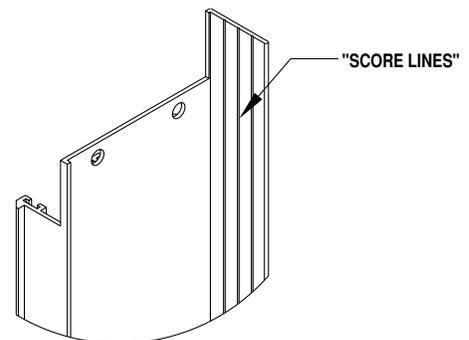


FIGURE 9: SIDE VIEW SECTION

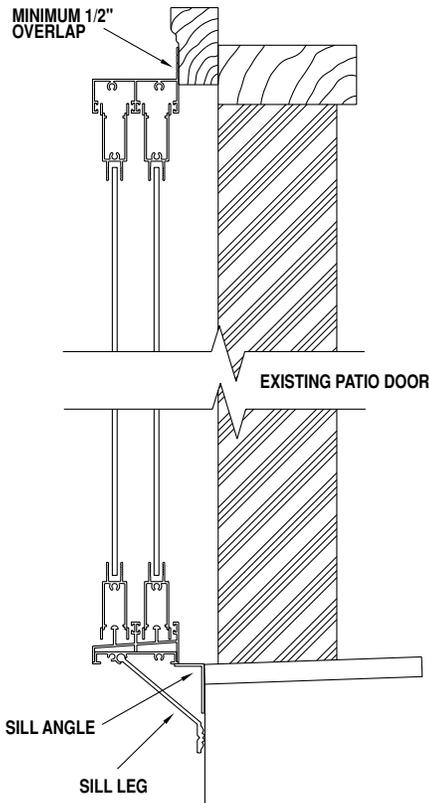


FIGURE 10: REMOVABLE LOWER TRACK AND SILL SECTION ASSEMBLED

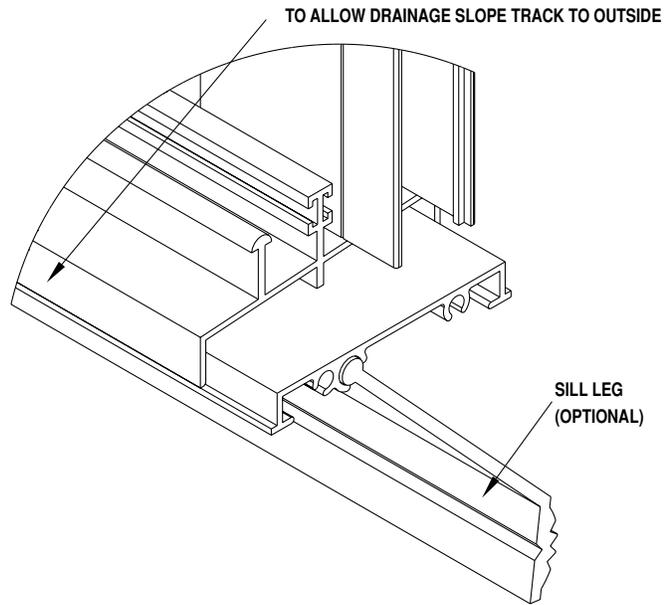


FIGURE 11: 2-PANEL UNIT WITH LEFT OPERATING PANEL

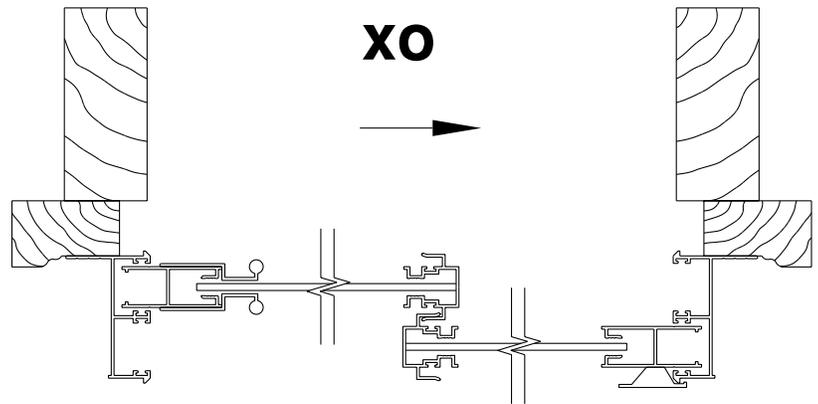


FIGURE 12: 2-PANEL UNIT WITH RIGHT OPERATING PANEL

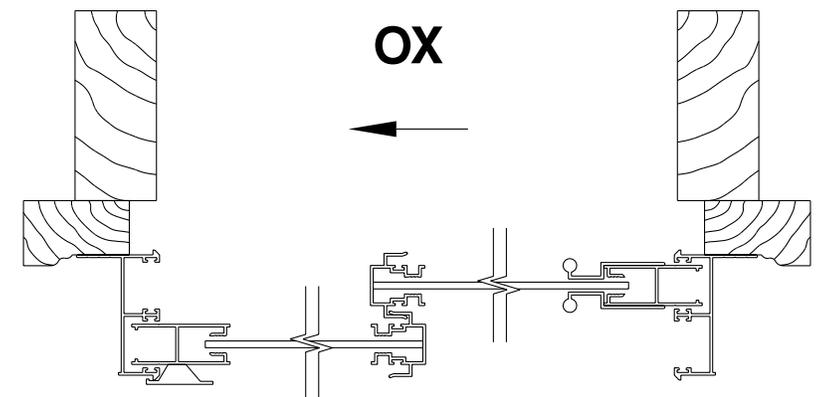
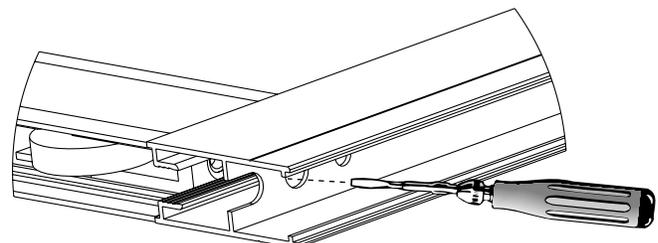


FIGURE 13: ADJUSTABLE BOTTOM ROLLERS



GLASS PANEL INSTALLATION

REFER TO FIGURES 11–12
"TOP VIEW SECTIONS" FOR LOCATING
2-PANEL GLASS PANELS IN FRAME.
FIGURES 15–16 COVER 3-PANEL UNITS

1. Place the **top** of movable panel into the **inside** channel of the header and lower onto the **inside** lower track.
2. Place the fixed panel into the **outside** channel and onto the lower track in same manner.
3. Adjust both operating and fixed panel rollers to ensure that panels are plumb and square with the frame. Adjust movable panel to roll easily (Figure 13).

HARDWARE INSTALLATION

REFER TO FIGURES 11–12, 15–16
FOR HARDWARE LOCATION.

1. Slide both panels to their fully closed position. **Center panels in frame before attaching latch.** Position the assembled latch on the fixed panel and drill two (2) 3/32" pilot holes. Fasten with two (2) #6 x 5/8" screws (figures 5A and 5B).
2. Fasten handles to operating panel using same height as existing door handle. Drill 3/32" pilot holes and attach with four (4) #6 x 3/8" screws (figures 6A and 6B).

FOR 3-PANEL UNIT ONLY

INSTRUCTIONS FOR CENTER MEETING RAIL

1. Locate glass panel (one of three panels) that has plain side rails on both sides as shown in Figure 15.
2. The center meeting rail is screwed onto either side rail of the panel. By inverting the arrangement of the panels you may change the direction that the operating panel moves.
3. With center meeting rail in place on the panel side rail, drill 3/32" pilot holes approximately 1 foot apart and fasten with #6 x 5/8" screws provided.

FIGURE 14:
CENTER MEETING RAIL

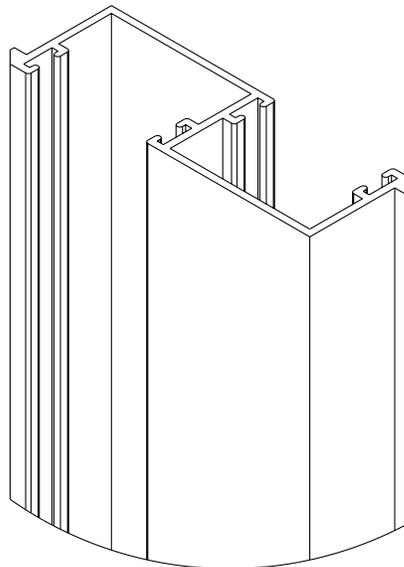


FIGURE 15:

3-PANEL UNIT WITH END OPERATING PANEL

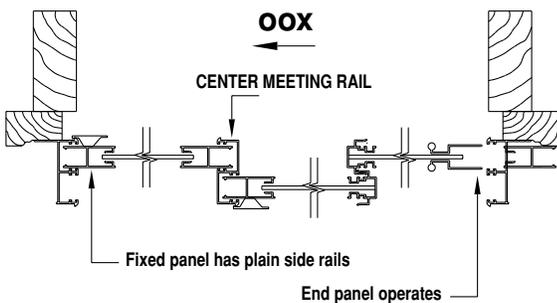
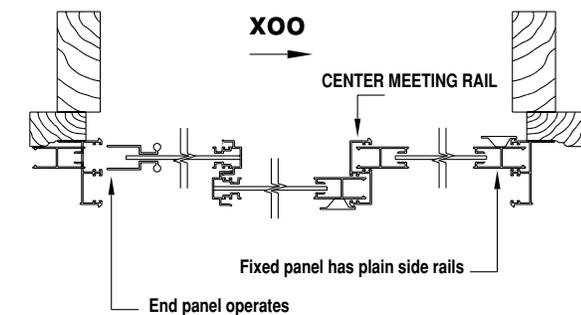
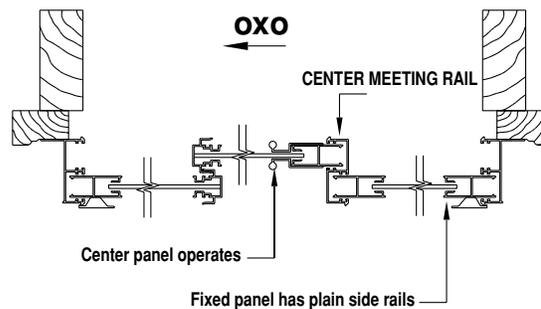
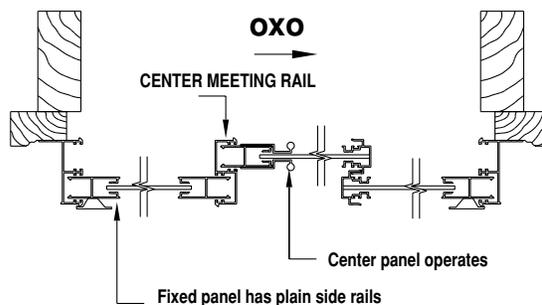


FIGURE 16:

3-PANEL UNIT WITH CENTER OPERATING PANEL





PATIO STORM DOOR TROUBLESHOOTING

CONCERN

POSSIBLE SOLUTION

A Missing sill	Check lower track. It may already be snapped together.
B Panel drags... will not operate smoothly	Make sure that the rollers are at the bottom of the panel. Just need to flip panel over. Rollers may need to be adjusted, can raise or lower them with a screw driver. Use score line on edge of panel as a guide to plumb it up with side jamb. Bottom track may accumulate dirt and grit, spraying this with a teflon type spray will help for smooth operation. Also check squareness of unit. Width may be crooked or screw may be drawn too tight.
C Operating panel closes and leaves gap at the other end	Remember that panels do not fit completely into the side jambs. Edges of panels will just touch the weatherstripping. Units need to be balanced and plumb. Be sure that the latch is on the non-operating panel and locked onto side jamb notch.
D Operating panel pulls other panel with it when closing	May not have latch on non-operating panel hooked up properly. Interlock on one panel may be bent and not allowing the two panels to engage properly.
E Glass panel falls out or There is a gap from the bottom of unit to the step/deck	Bottom sill may not have the necessary support. For step-down patio openings, a sill leg and sill angle will be needed, or use a 2"x4' piece of wood to provide adequate support.
F Latch won't work	Sometimes frost will build up and affect the operation. WD-40 or any teflon type spray works well.
G Panels popped out of unit	Sometimes a strong gust of wind can suck the panels away from the house. This is considered an "act of nature" and is not unusual. Increase length of panels by adjusting rollers up or down.
H Not enough room between prime unit and storm door	A 1/2" clearance can be added with a jamb and headspacer kit. To determine this before installation, check to see if any handles protrude beyond the trim.
I Snow/leaves build up in track and won't allow panel to operate freely	Operating panel belongs on the inside track. This prevents leaves/snow from building up in operating track.



LARSON PATIO STORM DOOR LIMITED LIFETIME WARRANTY

1. As an expressed condition of this warranty, it is required that the Patio Storm Door has not been altered in any way.
2. During the lifetime of any Larson patio storm door, the COMPANY will repair or furnish a new door at no charge to the original owner, for any defects and normal damages, excluding glass breakage. Also, during the first 20 years, the paint is guaranteed not to blister, craze, or peel.
3. In order to obtain performance under this limited warranty, the original owner shall notify authorized dealer with **proof of purchase**.
4. The COMPANY will perform the obligations under this limited warranty during the normal working hours of its dealers and distributors.
5. The obligations under this warranty will be completed within ninety (90) days after notice of a defect or malfunction has been furnished directly to the COMPANY.

NOTE: Warranty applies to original owner—only. Proof of purchase is required.