Exterior Glazed Clad Frame – Re-Glazing

Service Instruction

These instructions apply to:

Clad Frame – 06/2021 - Current

Tools Required:

- Safety gloves and arm guards
- Glass suction cups
- Oscillating saw with fine tooth or flat blade
- Drill with 3/16" bit
- Large flat blade screwdriver
- Stiff bladed putty knife
- Sealant gun
- Powered driver w/ Phillips bit
- Mallet
- Sikaflex 505UV Gray Sealant or Bostik 70-05A sealant
- Wood block
- Small pry bar
- Isopropyl alcohol
- Paper towels
- Tape measure
- Steel rule
- Utility knife
- 20 Round head thread-forming screws for metal, 1, 8-32 thread, 3/8" long

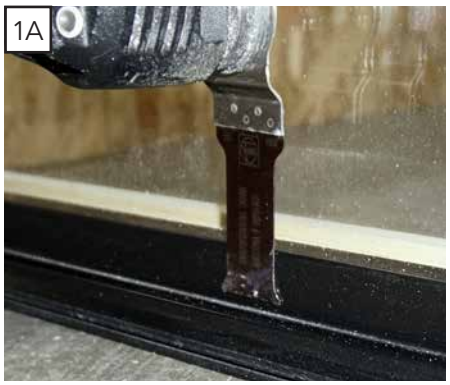
TWO OR MORE PEOPLE WILL BE REQUIRED FOR THE FOLLOWING INSTRUCTION!

⚠ CAUTION!

Use care when handling glass!

1 Remove Exterior Glazing Stops:

A. Determine and take note of how deep the oscillating saw blade can be inserted at the stop by holing the blade up to the stop.

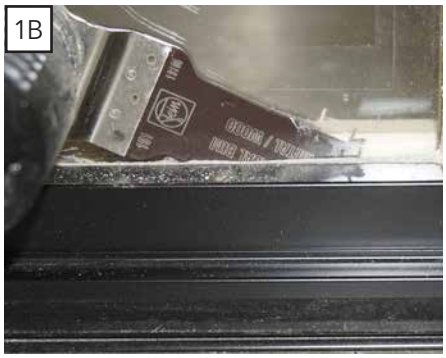

1A

B. Cut the exterior glazing between the stop and the glass around the perimeter of the unit.


1B


1B


1B

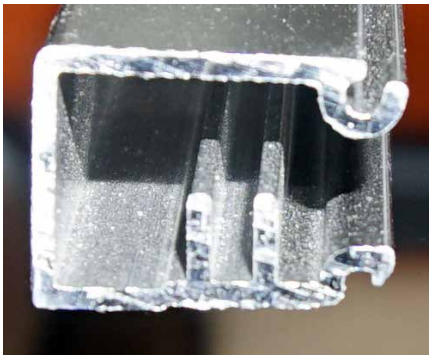

1B

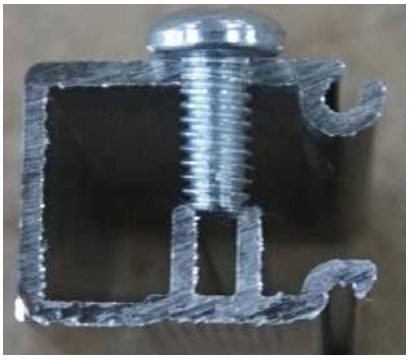
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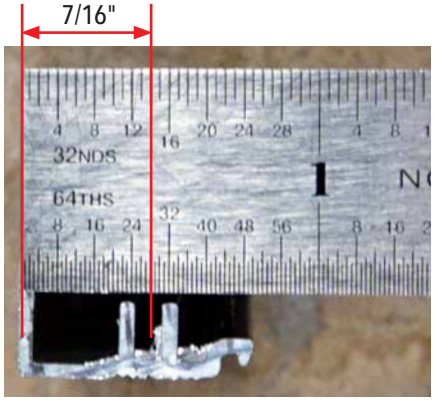
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1 Remove Exterior Glazing Stops (continued):

NOTE: The glass stops will be removed deforming approximately 4" of one end of each stop. This is done by drilling holes and inserting screws into the stop. Inside the glass stops are extruded legs which act as a screw boss for screws, which when inserted with deform one side of the stop. The legs are 7/16" from the edge of the stop, holes must be drilled 7/16" from the edge so screws will align with the legs. The photos below show end views of a glass stop with the legs and how the screws are to align with the legs. The sill and head stop must be removed before the stile stops.





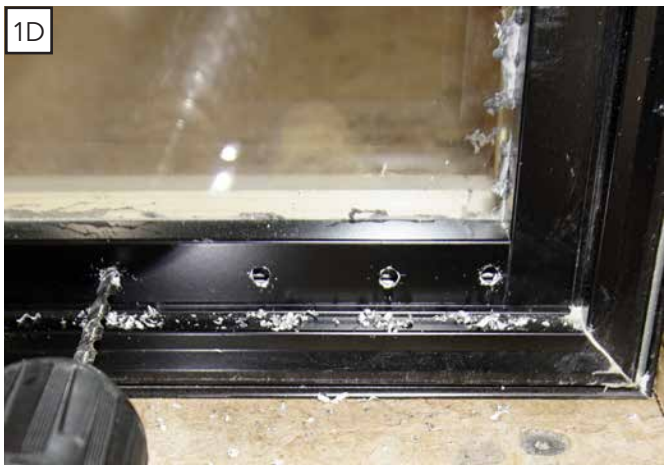


C. Mark 4 locations 7/16" from the edge of the sill stop on approximately 4" of one end of the stop.





D. Drill a 3/16" hole through the first layer of the stop material.





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1 Remove Exterior Glazing Stops (continued):

E. Insert the screws into the drilled holes. The screw will engage the legs inside the stop and pull the outside edge of the stop toward the glass and deform the stop edge.



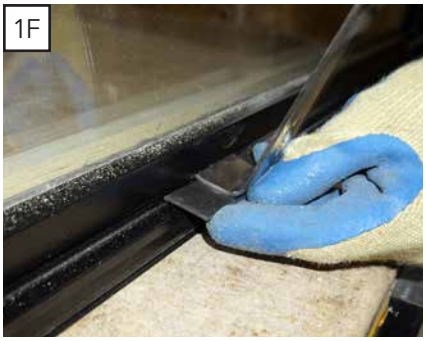


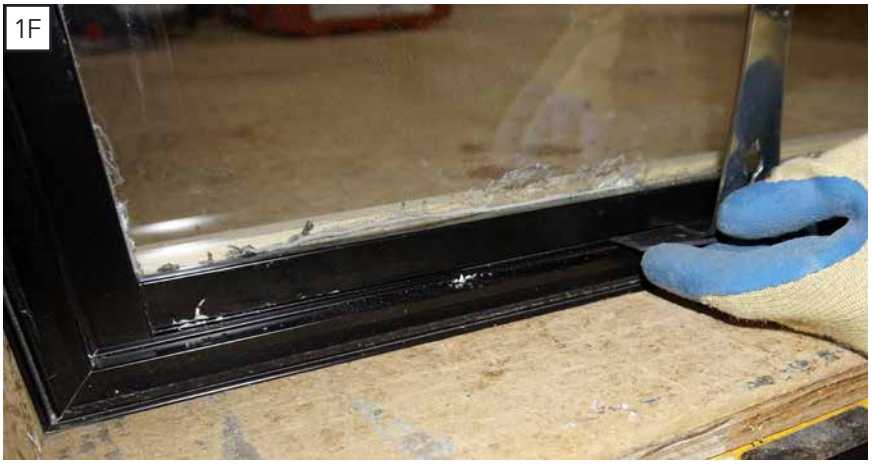
F. Use a large flat blade screwdriver and/or small pry bar to pry up the exterior leg of the glass stop. Be sure to use a setting block, shim or something similar to protect the frame while prying. Continue to pry along the length of the stop until the exterior leg is released from the frame.











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1 Remove Exterior Glazing Stops (continued):

G. With the front leg released, return to one stop end and pry it loose so it can be grasped to be removed. If needed, use the oscillating saw to make sure the glazing material between the stop and glass has been fully cut.





H. Pry up the end and grasp it and pull to remove the stop from the frame.







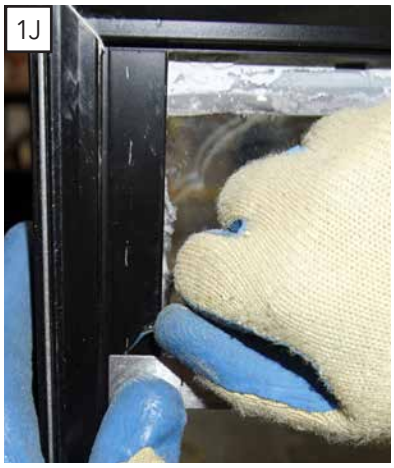


I. Repeat 1C-1H on the head stop.

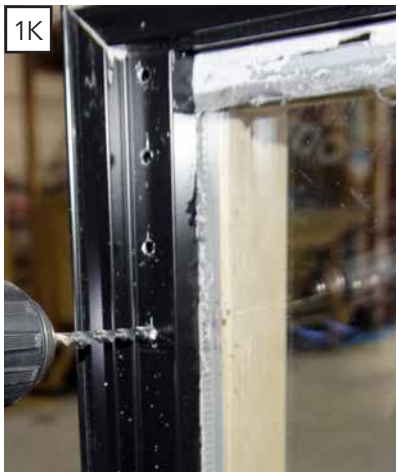
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1 Remove Exterior Glazing Stops (continued):

J. Mark 4 locations 7/16″ from the edge of the stile stop on approximately 4″ of one end of the stop.

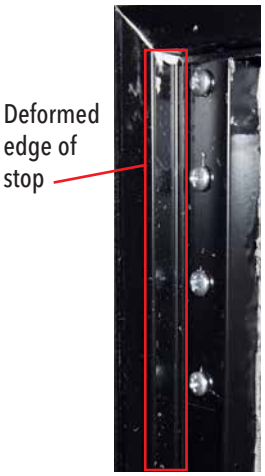


K. Drill a 3/16″ hole through the first layer of the stop material.



L. Insert the provided screws into the drilled holes. The screw will engage the legs inside the stop and pull the outside edge of the stop toward the glass and deform the stop edge.





M. Confirm the glazing material between the glass and stop is cut with the oscillating saw.

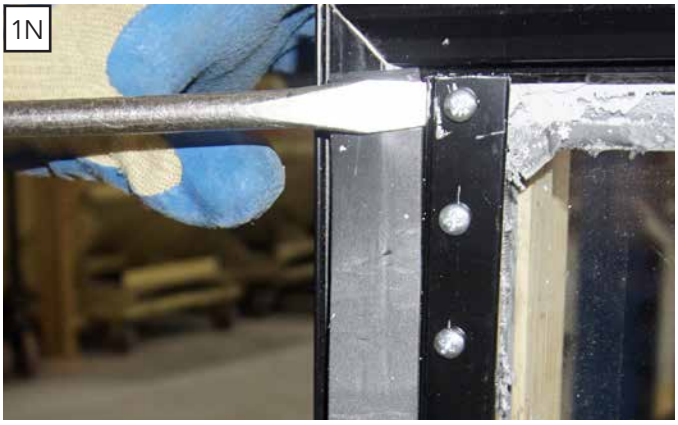


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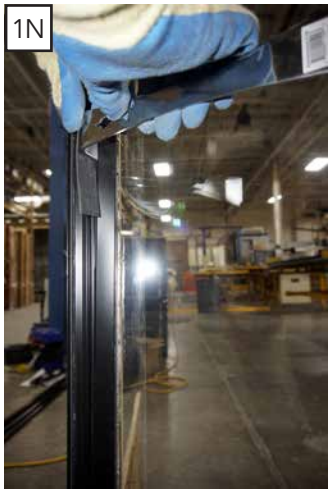
1 Remove Exterior Glazing Stops (continued):

N. Use a large flat blade screwdriver and/or small pry bar to pry up the exterior leg of the glass stop. Be sure to use a setting block, shim or something similar to protect the frame while prying. Continue to pry along the length of the stop until the exterior leg is released from the frame.













O. With the front leg released, return to one stop end and pry it loose so it can be grasped to be removed. If needed, use the oscillating saw to make sure the glazing material between the stop and glass has been fully cut.









P. Repeat 1J-1O on the other stile stop.

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2 Remove Glass or Clad Panel:

A. Use a utility knife to cut the glazing material around the perimeter of the unit between the edge of the glass and the frame.









B. If the insulated glass has one unbroken sheet of glass, use suction cup(s) to apply gradual pulling pressure to free it from the glazing material and remove the glass.

If the glass is cracked, apply duct tape or carpet shield over the crack.





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2 Remove Glass or Clad Panel (continued):

C. Remove the glazing material from the frame using a utility knife and/or a stiff putty knife.









D. Use Isopropyl Alcohol and a paper towel to clean the perimeter of the frame.





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3 Install Glass or Clad Panel:

A. Place at least two setting blocks on the sill in the location where the glass edge will be placed.



B. Dry fit the glass into the frame to confirm it fits in the frame.







C. While securely holding the glass (or panel) in the frame, insert a thin blade putty knife into the groove of the frame where the glass stop will be inserted into the frame to confirm the glass is the right thickness and there is enough room for the glass and glass stops.

Remove the glass and set back in a safe location.









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3 Install Glass or Clad Panel (continued):

D. Measure for one of the new stile stops. Cut the stop to length and test fit the stop.


3D


3D

E. Measure for the other new stile stop. Cut the stop to length and test fit the stop.


3E


3E

F. Position setting blocks ~6" from each corner on the sill. For Units with FW>50" add a setting block in the center of the sill.


3F

3 Install Glass or Clad Panel (continued):

G. Install the new glass (or panel) into the frame and press the glass against the wood stops.





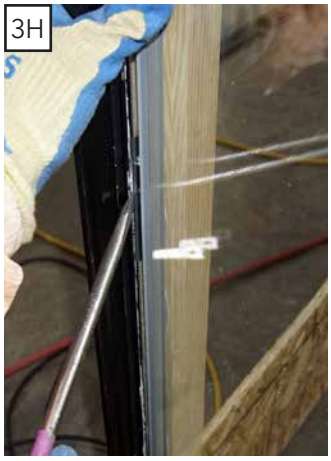




H. Insert setting blocks at each corner on both sides. For frame dimensions 30”-50” and one setting block in the center. For frame dimension > 50” place three setting blocks equally spaced between the corner setting blocs. Place NO spacers at the head!













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3 Install Glass or Clad Panel (continued):

I. Fill the space between the frame and the edge of the glass or panel with Sikaflex 505UV Gray Sealant or Bostik 70-05A sealant around the perimeter of the unit.









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4 Install the Glazing Stops:

A. At the point where the top of the exterior glass stop will contact the glass (or panel), apply a 3/16" bead of Sikaflex 505UV Gray Sealant or Bostik 70-05A sealant around the perimeter of the unit.









B. Snap the first stile glazing stop in place. Apply pressure along the length of the stop to snap the exterior leg in place.









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4 Install the Glazing Stops (continued):

C. Seat stop using a soft wood block and mallet.

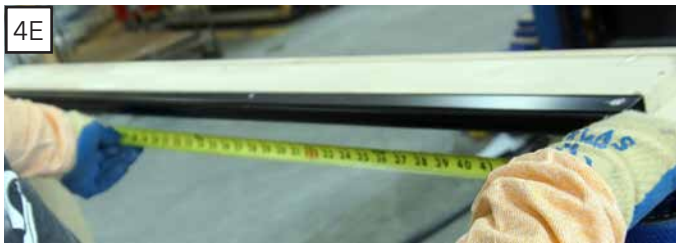






D. Repeat 4B-4C on the other stile.

E. Measure for the new head stop. Cut the stop to length.





F. Snap the head glazing stop in place. Apply pressure along the length of the stop to snap the exterior leg in place.





G. Seat stop using a soft wood block and mallet.







H. Repeat 4E-4G on the sill stop.

I. Clean up excess sealant squeeze-out on the interior.

J. Remove the replacement glass protective film.

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