Solstex® Panel Replacement

Installation Guide

for Certified Installers

elemex®

Architectural Facade Systems

Tools Required

- 3/16" HSS drill bits; used to pre-drill the attachment clips.
- 5/32" HSS drill bits; used to pre-drill the back screwed attachment clip to the panel.
- #2 Robertson bits; used for all #10 panel attachment screws.
- Rounded shank to avoid damage to panels.

#2 x 6" long
Contractor Grade

- Cordless impact drill; used for installation of all necessary screws during installation.
- Cordless driver drill; to be used for pre-drilling holes in attachment clip and during panel preparation. (Tighten to #2 on a Dewalt impact driver).

- Saw horses for panel preparation. Top of saw horses need to be free of debris and sharp edges to avoid scratches to panel.

- Plunge router with 130 dg. router bit to create custom bent infills to match the shape of the panel. Infill is to be routed on the back side to obtain the desired shape.

- Additional hand tools required such as aviation snips to cut infill to length. Also used for all metal flashing (i.e. drip flashing and cap flashing). Folding pliers can also be used to custom bend metal flashings to desired shape.

- MC4 Spanner tool; used to secure MC4 connectors/housing to crimped leads, and to decouple mated connectors.

- Caulking gun

- Grinder

- Cloth gloves; to avoid unnecessary marks when handling panels.

Delivery of Material

Upon delivery of material, inspect the crate for any visible damage to the skid.

* Photos should be taken at this time to show the condition. Any damage must be reported to Elemex along with photos within 48hrs. of receiving the material.

The skid(s) will be clearly labeled with instruction on which side to open first, please follow these instructions to avoid damage to the tightly-packed panels inside. A list of panel numbers will be sent with the delivery for easy identification of the contents of each skid.

After removing the side wall of the skid, inspect the panels for any visible damage during shipping.

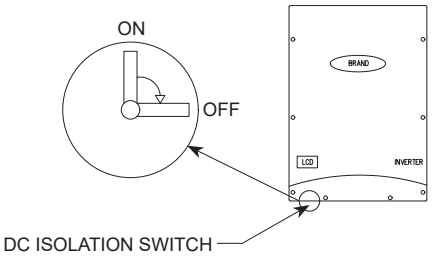
Do not leave any panels unsecured (it may take up to 6 weeks to replace any damaged panels).

Storage & Handling Recommendations

- A forklift or crane should be used when moving crates.
- Open crates from designated wall. "Open here" is labeled on the correct wall. Walls not designated with this label should not be removed.
- Panels should be lifted off and removed from crates carefully, never slide them out as damage to panel may occur.
- Never carry flat.
- Handling panels should be done by 2 people.
- Always store panels upright and against stable structures. Panels should not be stored on top of each other flat.
- Never sit/stand or place things on finished panels.

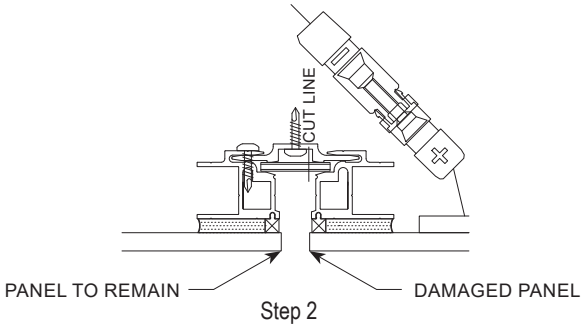
Panel Replacement

Turn off the PV array at the DC isolator. The DC isolator is located on the bottom of the inverter.



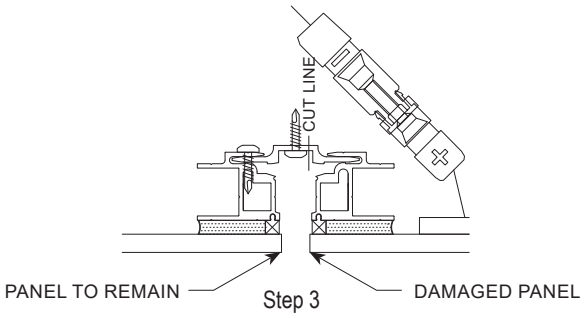
Step 1

Cut infill strip along all sides of the panel to be removed.



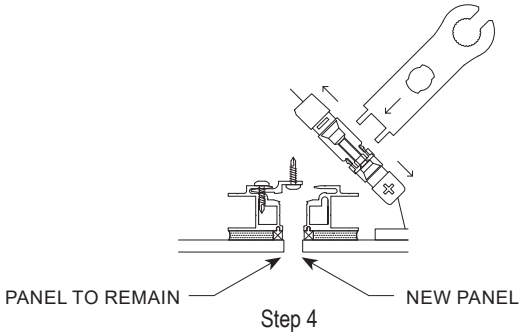
Step 2

Locate wiring between panels. Note location for avoidance during step 4. Cut clip between the fastener and the panel to be removed. Make sure not to cut on the wrong side of the screw.



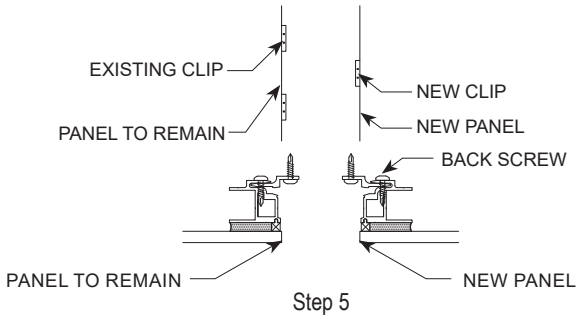
Step 3

Remove the panel that needs replacement. During this step, unbuckle the MC4 connectors on the backside of the panels from panel/ optimizers.



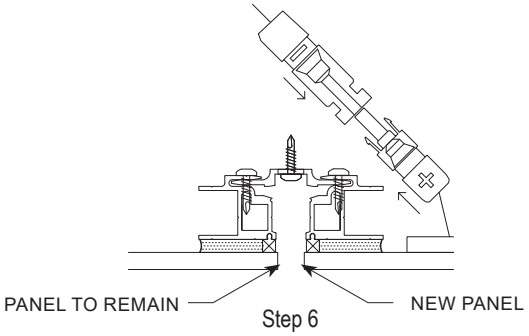
Step 4

Back screw the half clips to the perimeter extrusion of the new panel. Make sure they are not at the same location as existing clips on the wall.



Step 5

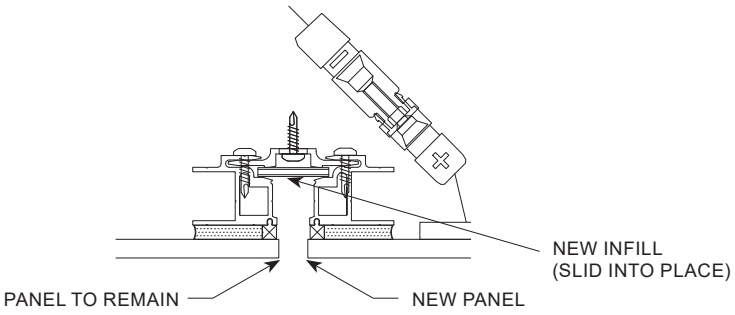
Attach the MC4 connectors of the new panel to where the old panels MC4 connectors were disconnected from. Place the new panel into place and fasten the half clips to the subframing.



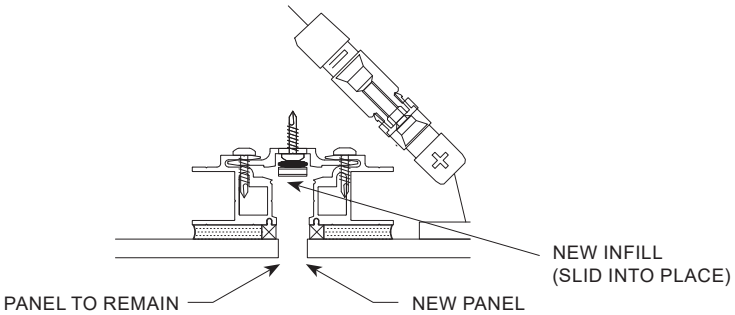
Step 6

Panel Replacement

Slide the infill strips into place. If infill cannot be slid into place, cut a smaller section of infill and adhere it into place.

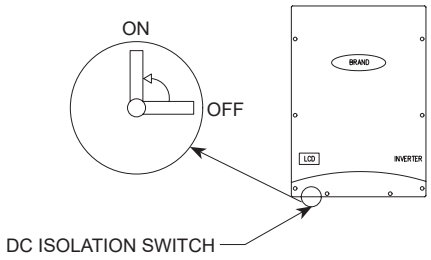


Step 7a



Step 7b

Turn on the PV array at the DC isolator. The DC isolator is located on the bottom of the inverter.



Step 8