

ATLAS LED CONVERSION KIT INSTALLATION GUIDE



CAUTION

Stewart Signs requires a licensed electrician for all electrical work.

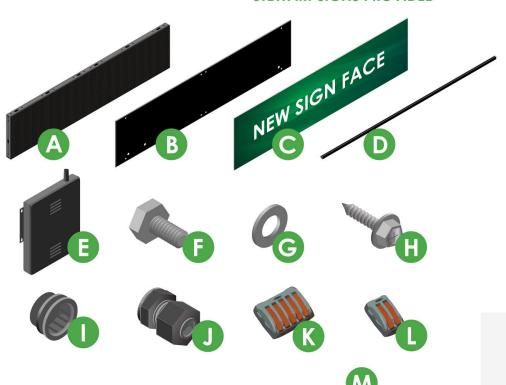
Each conversion kit is designed to work with <u>either</u> 120V or 240V electrical service.

You must confirm your electrical service at the sign site matches your conversion kit before proceeding.

Note that these modifications to your sign will void any existing UL Listed status.

You Should Have Received the Following Items

STEWART SIGNS PROVIDED



- A: LED display(s)
- B: Back panel(s)
- C: Flat sign face(s)
- D: Divider bar(s)
- E: Control box
- F: Bolts
- G: Washers
- H: Self-tapping screws
- I: Cable grommets
- J: Cable strain relief
- **K:** Wire connectors (5 lever)
- L: Wire connectors (2 lever)
- M: Electrical wire(s)

If double-sided:

N: Ethernet coupler

O: Zip tie and sticky pad

You Will Need the Following Items

CUSTOMER OR INSTALLER PROVIDED







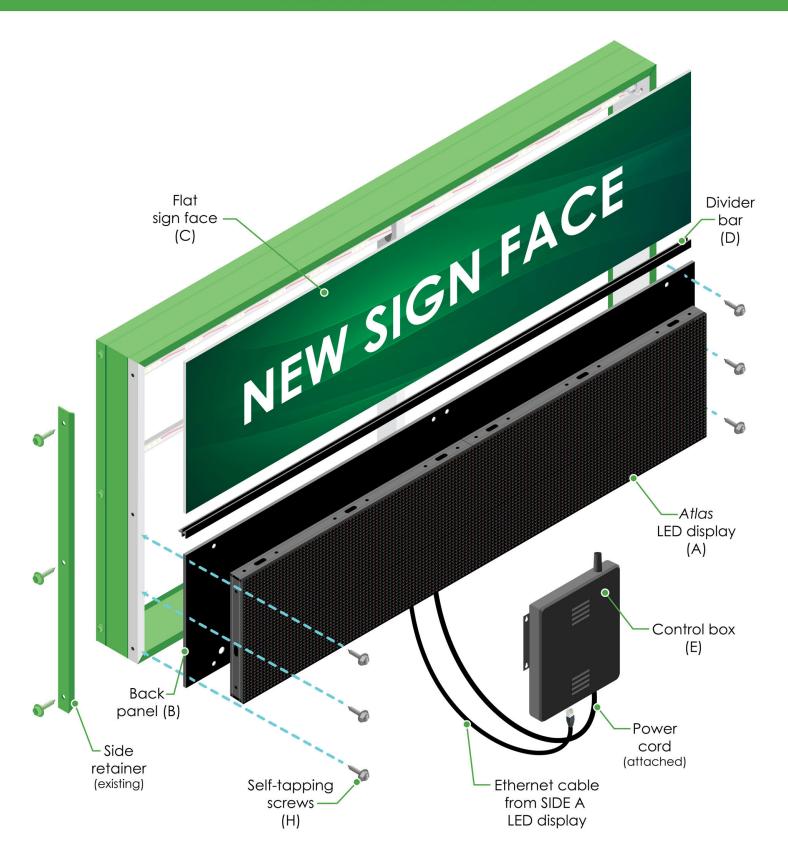


- **P:** Socket wrench and sockets
- Q: Drill/driver
- **R:** Step drill bit or 7/8" hole saw for metal
- S: Electrical wire stripper

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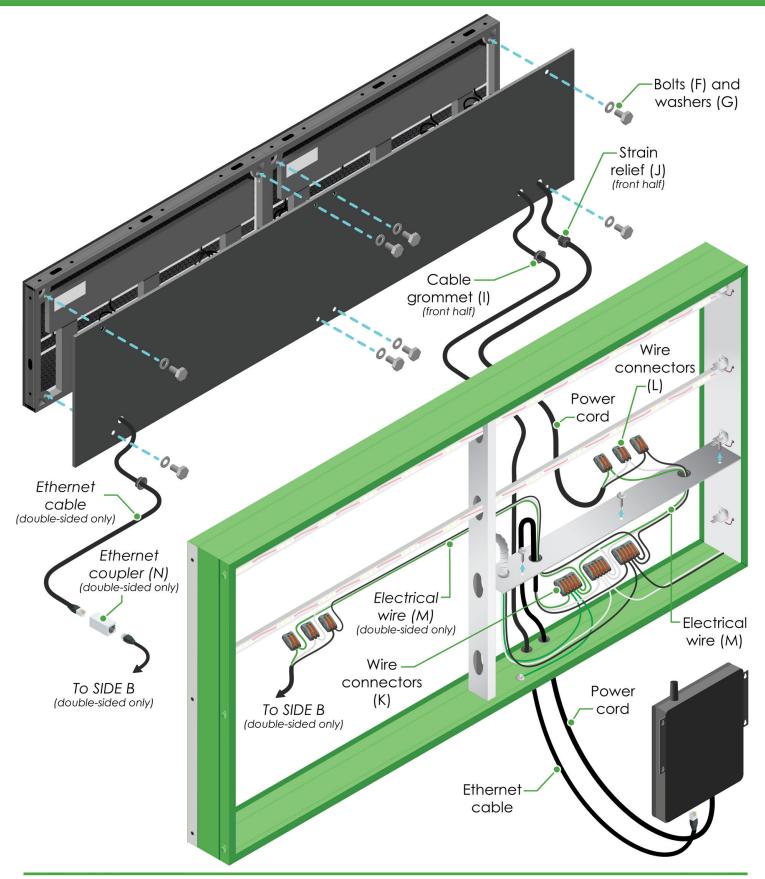
OVERVIEW - FRONT



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OVERVIEW - BACK

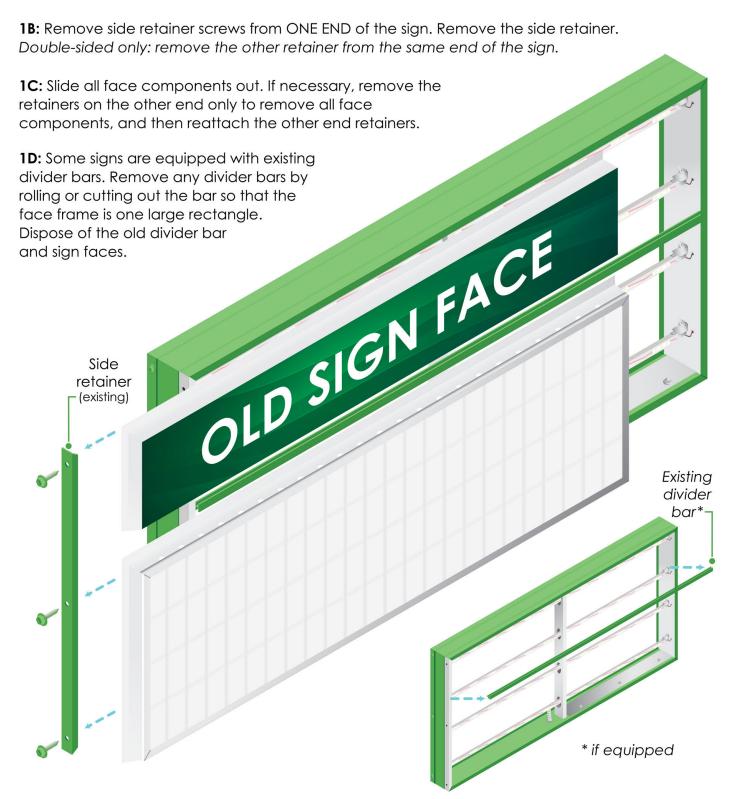


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STEP 1: Remove Sign Faces and Divider Bars

1A: Turn electric service off to the sign site by turning the circuit breaker to the off position in your electrical service panel. Check that the sign is not energized before proceeding.



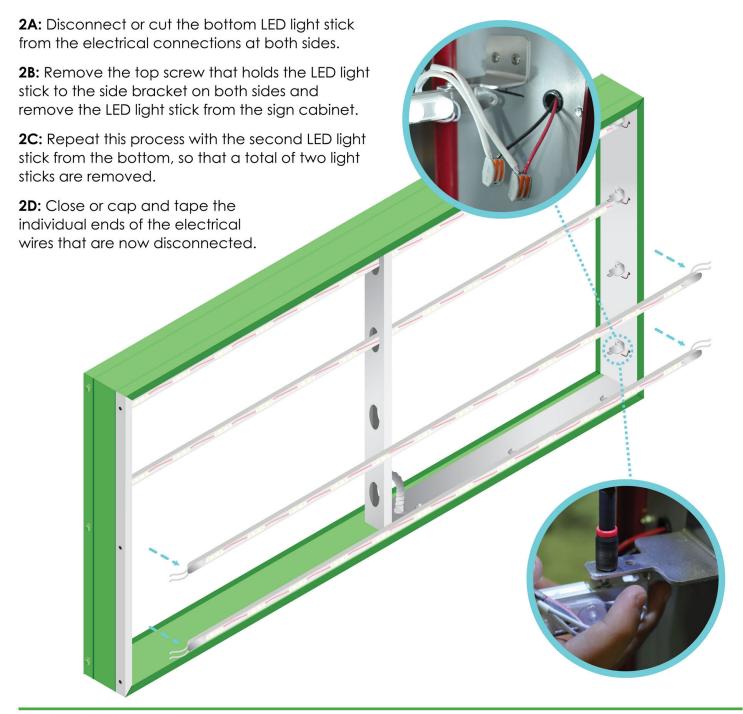
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STEP 2: Remove Lower Internal Lighting

NOTE: If your sign is equipped with internal fluorescent lamps, you may choose to upgrade your internal lighting to LED at this time with a separately purchased LED illumination kit, or leave your fluorescent lamps in place. Because fluorescent lamps are wired in a series, removal of one or more will result in all lamps going out. Future replacement of the lower fluorescent lamps after this LED conversion kit is installed will require partial removal of the LED display.

If your sign is equipped with internal LED lighting, follow the procedure below.



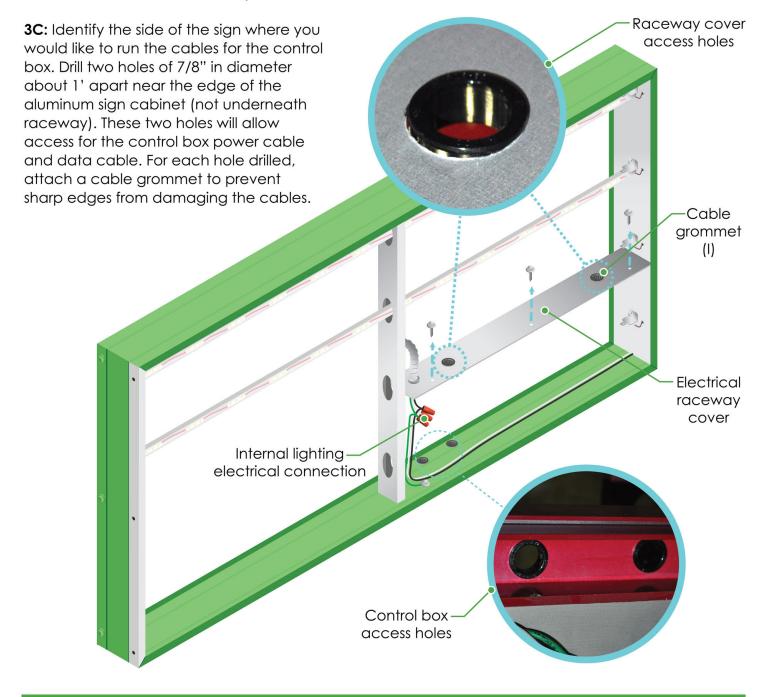
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STEP 3: Drill Cable Access Holes

3A: Remove the screws holding down the bottom electrical raceway and lift raceway cover. Locate where the lighting connects to the electrical wires and grounding wire under the raceway. Disconnect or cut these wires, ensuring that there is enough wire to connect back together.

3B: Using a step drill bit or hole saw, drill a hole of 7/8" in diameter in the center of the raceway cover about 1' away from each end of the raceway. For each hole drilled, attach a cable grommet to prevent sharp edges from damaging the cables. Attach the cable grommet so that the longer side will be underneath the raceway cover once installed.



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STEP 4: Run and Connect Electrical Wires

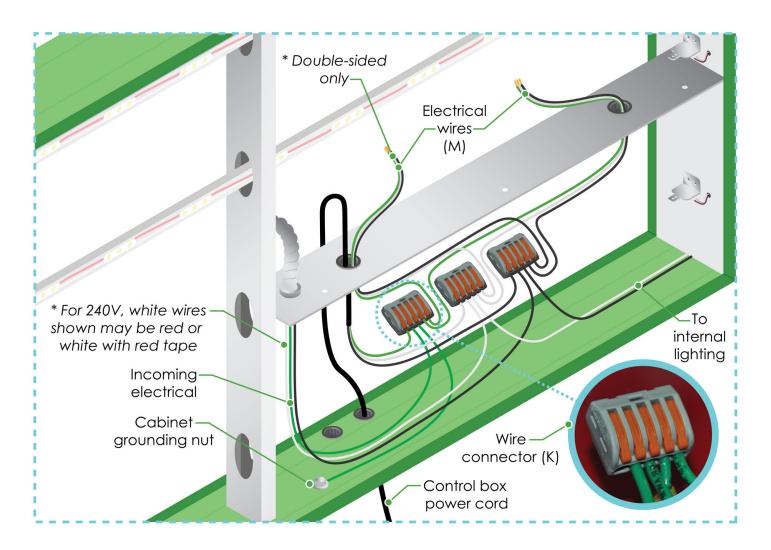
4A: Run the control box power cord up through one of the access holes in the bottom of the sign cabinet, and then down through the top of the raceway access hole closest to the center of the sign.

4B: Run an electrical wire through the other access hole in the raceway. For double-sided signs only: Run the other electrical wire through the same access hole as the control box power cord.

4C: Using a 5-lever wire connector, connect all of the green (ground) electrical wires together under the raceway. There will be four green wires for a single-sided sign (incoming electrical, grounding to cabinet, control box and electrical wire, and five for a double-sided sign (other electrical wire).

4D: Perform the same with all of the black (hot) and white (neutral) electrical wires. There will be four wires for a single-sided sign (incoming electrical, internal lighting, control box and electrical wire), and five for a double-sided sign (other electrical wire). For 240V signs only: instead of white wires, there will be red wires or white wires with red tape to indicate a secondary hot. Connect these wires as shown.

4E: Carefully reattach the raceway cover by pulling up the wire and screwing it back into place.



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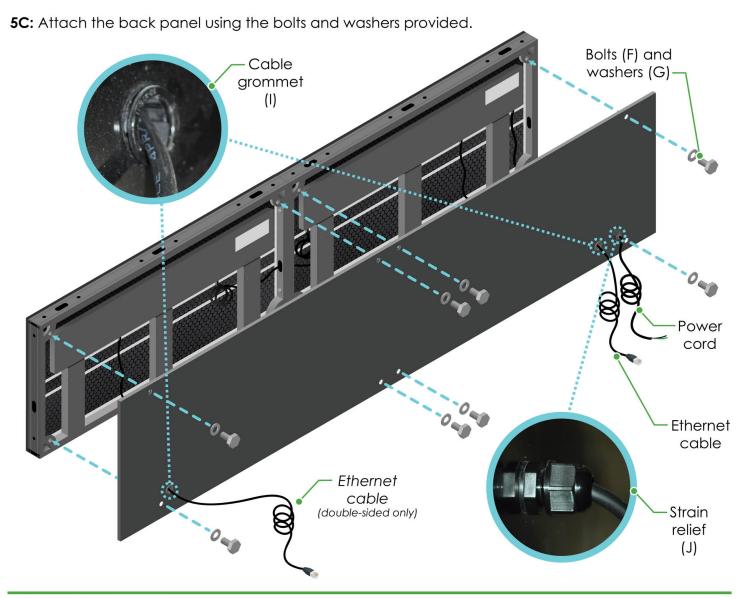


STEP 5: Attach the Back Panel

NOTE: For double-sided signs, one of the displays is **SIDE A** and one is **SIDE B**. The SIDE A display has two free Ethernet cables: one near each end on the back of the display. The other display will only have one free Ethernet cable near the power cord. For single-sided signs, the display will have the single free Ethernet cable.

5A: Place the SIDE A LED display face-down on a soft surface to prevent damage. For double-sided signs only: identify the back panel for SIDE A. This will be the panel with an additional hole on the bottom left.

5B: Run the power cord through one side of the strain-relief grommet, through the back panel hole closest to the edge, and then through the other side of the strain-relief grommet. Run the Ethernet cable(s) through one side of a grommet, other back panel hole(s) and then through the other side of the grommet. Connect the grommet and pull the cords through the back panel as far as they will go.



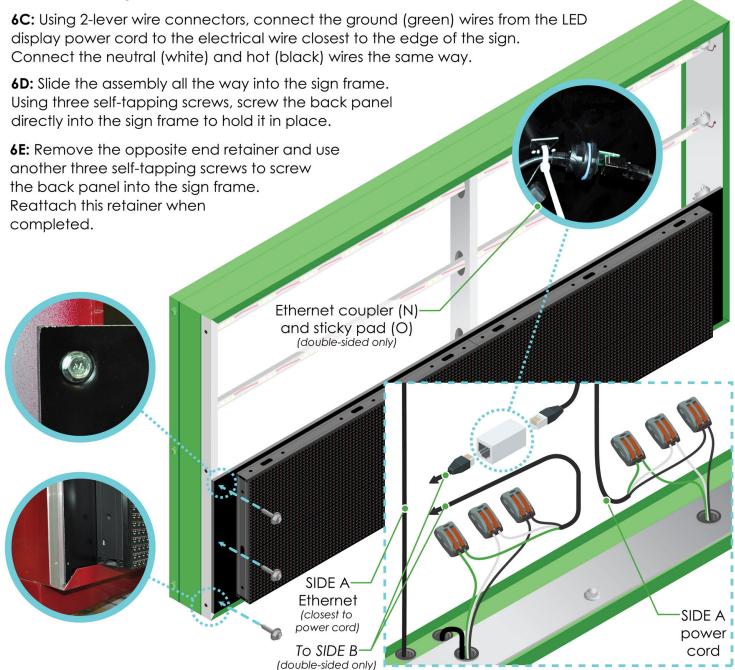
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STEP 6: Install the LED Displays

6A: Using two people, lift the LED display assembly. Insert the back panel into the sign frame so that the bottom edge of the panel sits inside the sign frame. Have one person hold the assembly in place.

6B: Run the Ethernet cable next to the power cord down through the empty access hole in the bottom of the sign frame.



6F: For double-sided signs only: Repeat steps 5 and 6 for the second LED display. Before sliding the display into place, use the Ethernet coupler to connect the two free Ethernet cables from each side. Use the zip tie and sticky pad to stick the Ethernet coupler near the top of one of the back panels.

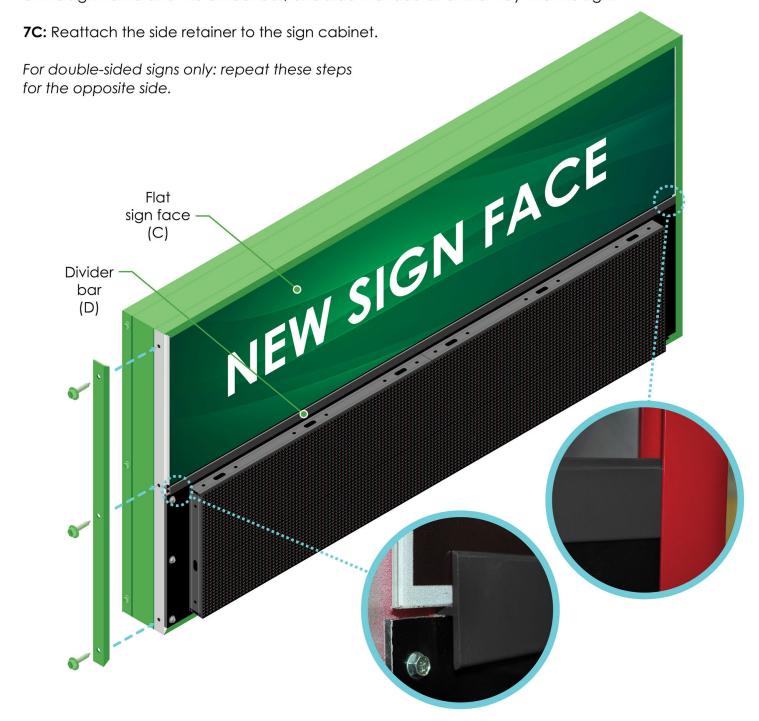
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STEP 7: Install the Divider Bars and Sign Faces

7A: Attach the divider bar on top of the LED display back panel. The end of the divider bar should fit behind the side retainer. Note: this new divider bar is free-floating and does not need to be attached to the sign frame.

7B: Remove any protective film from the new sign face. Insert the sign face between the top of the sign frame and the divider bar, and slide the face all of the way into the sign.

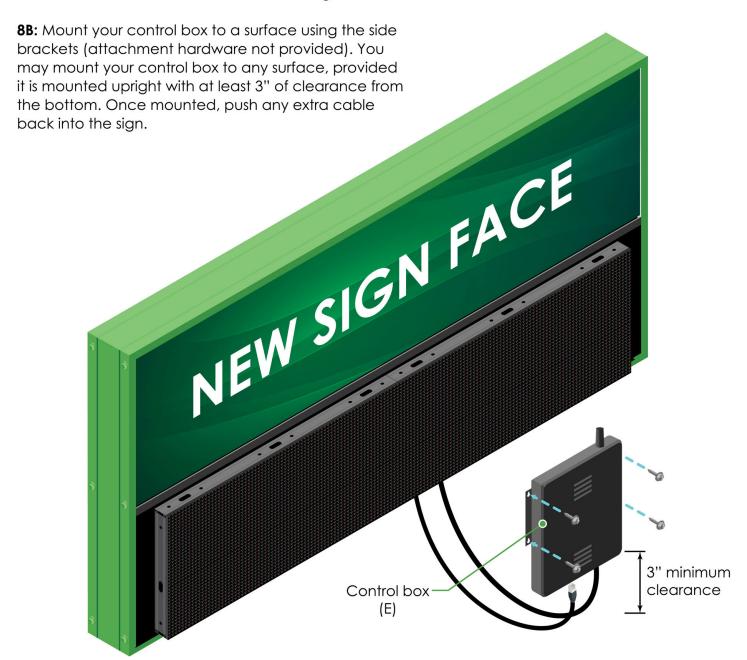


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STEP 8: Mount the Control Box

8A: Connect the Ethernet cable from the sign to the bottom of the control box.



CONGRATULATIONS!

Installation is complete. Once power is restored at the circuit breaker, your new LED sign will be up and running.

If you have not already received your cloud-based software instructions, contact us at: stewartsigns.com/support

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