

Flat Border

Tools

Part	Part Description
Cordless screw gun	Attaches borders to section
Flat-head bit or screwdriver	Removes top alignment pins
T-25 TORX® bit (Daktronics part number TH-1118)	Attaches borders

Identify Part

There are six different border sizes for the NPN-410X display series: one-, two-, three-, and four-module-high borders and two- and four-module-wide borders. The part numbers are etched into the metal on each border for identification purposes. Refer to the table below for part numbers and to **Figure 1** for a visual.



Figure 1: Flat Border

Part Number	Part Description
0M-3807592	Flat Border, Side, 1-High
0M-3807594	Flat Border, Side, 2-High
0M-3807596	Flat Border, Side, 3-High
0M-3807598	Flat Border, Side, 4-High
0M-3807600	Flat Border, Top/Bottom, 2-Long
0M-3807602	Flat Border, Top/Bottom, 4-Long

Install Border

Borders are attached either before the display is mounted to the structure or after if site conditions allow for tool clearance around the mounted display. If the borders must be installed before the sections, only one-module-high (Daktronics part number 0M-3807592) and two-module-wide (0M-3807600) borders are available. Borders longer than one module high or two modules wide must be installed after the display sections are mounted to the structure.

1. Remove the top alignment pins from the top row of panels. Refer to **Figure 2**.
2. Select the correct border size according to the Shop Drawing.
3. Use a clean rag to wipe off the perimeter of the panel receiving the border.

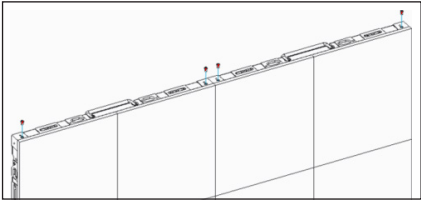


Figure 2: Prepare Top Row of Panels

4. Bring the border into position. The holes should be oriented toward the front of the display to align with the threaded holes in the panels. Refer to **Figure 3**.

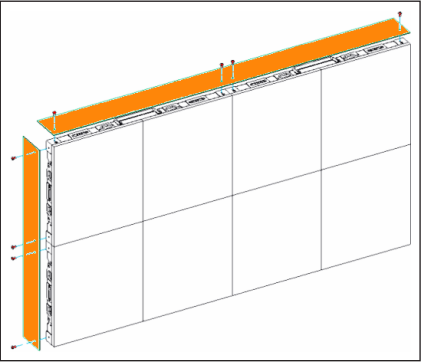


Figure 3: Install Flat Border

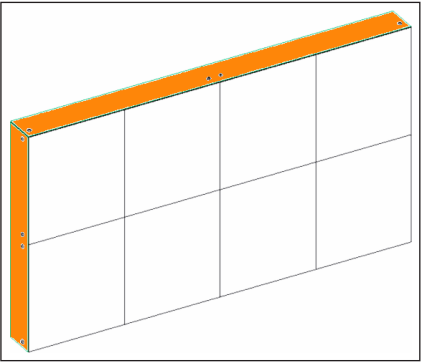


Figure 4: Attached Flat Border

5. Use a 1/4" T-25 TORX® bit (TH-1118) to remove the M5-0.8 x 10 mm machine screws (HC-3809581) to fasten the border to the panel perimeter in all pre-punched hole locations on the border. Each panel has threaded holes for borders on all four sides. Refer to **Figure 4** for the finished appearance.

Light Sensor

Install Mounting Bracket

Border modifications are required for light sensors. Drill a 0.5" diameter hole 1" from the front of the border and either 9.132" from the top of the border or 4.375" from the bottom. Refer to **Figure 5** and **DWG-3898915** for details.

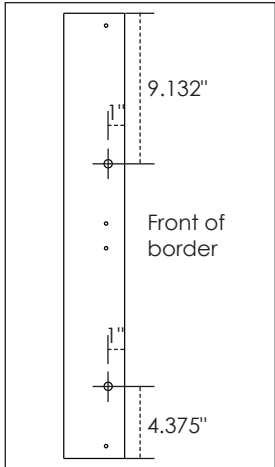


Figure 5: Modify Border for Light Sensor

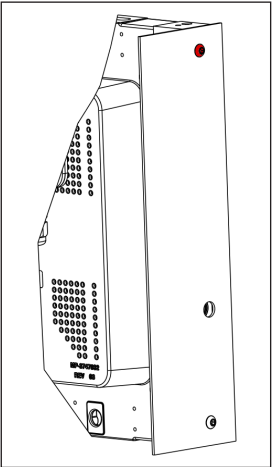


Figure 6: Remove Machine Screw

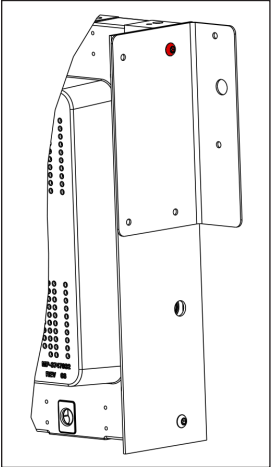


Figure 7: Position Mounting Bracket

1. Use a 1/4" T-25 hex bit (TH-1118) to remove the M5-0.8 x 10 mm machine screw (Daktronics part number HC-3809581) above the panel mount location and set the screw aside for **Step 2**. Refer to **Figure 6**.
2. Position the mounting bracket on the border, aligning the top-right hole of the bracket with the hole on the border where the screw was removed in **Step 1**. Use a 1/4" T-25 hex bit (TH-1118) to secure the M5-0.8 x 10 mm machine screw (HC-3809581) from **Step 1** into the hole. Refer to **Figure 7**.

3. Use a 5/16" socket/driver to install a #10-16 x 0.75 TEK screw (HC-1530) through the bottom-right hole in the bracket. Refer to **Figure 8**.

Install Light Sensor

Refer to **DWG-3898915**, **DWG-3887723**, and the steps below for installation details.

1. Ensure the display is physically mounted with power and signal installed.
2. Ensure power is disconnected from the display.
3. Mount the light sensor in a suitable location.

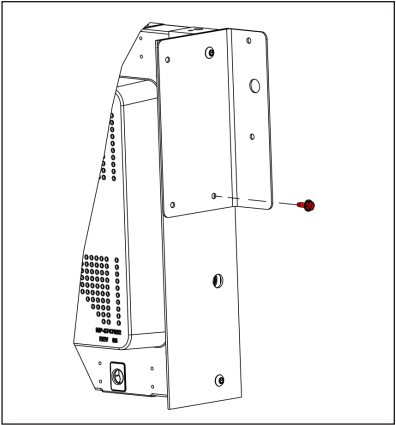


Figure 8: Install TEK Screw

- a. Use a Phillips screwdriver to remove the two #8-32 x 0.500 machine screws (HC-1144) in the light sensor and set the screws aside for **Step 3.b**. Refer to **Figure 9**.

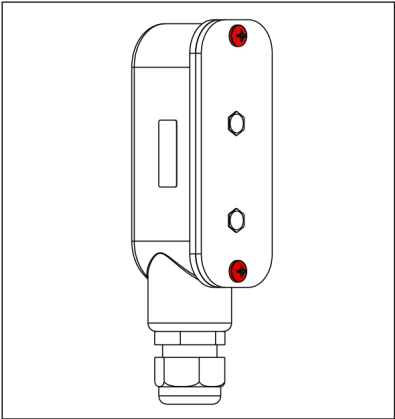


Figure 9: Remove Light Sensor Screws

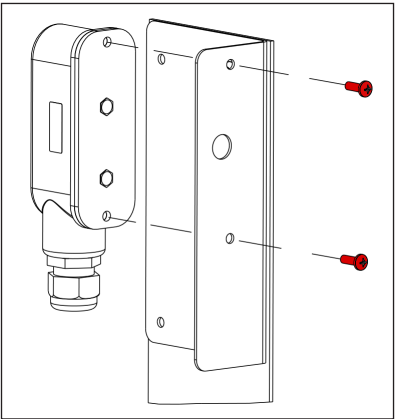


Figure 10: Position Light Sensor on Mounting Bracket

- b. Position the light sensor on the flange of the mounting bracket and secure the sensor in place with the two screws from **Step 3.a**. Refer to **Figure 10**.
4. Locate the PLR closest to the light sensor mounting location and connect the light sensor. Only one light sensor can be connected to each PLR.
 - a. Connect the four-pin plug (W-3884831) to the PLR.
 - b. Mount the panel mount M12 jack (W-3884831) per **DWG-3898915**. Wrap and secure the excess cable.
 5. Connect the light sensor harness (W-2532) to the panel mount M12 jack installed in **Step 4**. Refer to **Figure 11**.
 6. Secure the cables as needed.

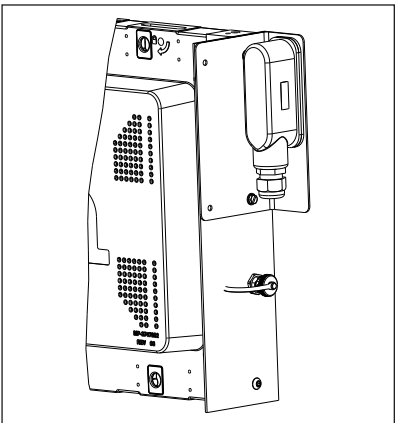


Figure 11: Connect Light Sensor to Panel Mount Jack