

## Display Maintenance

### Start-Up

Switch on the main disconnect (breaker). Wait for the RED boot screen, then content on the sign will start running.

### Shutdown

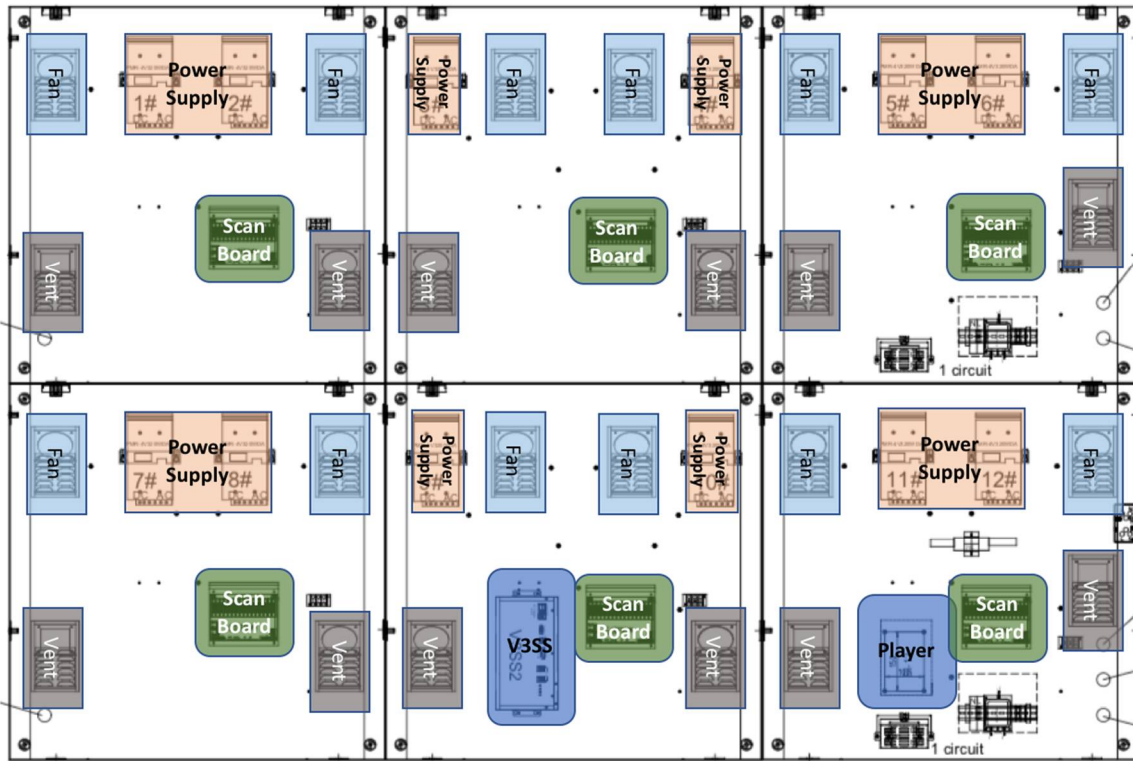
Turn off the main disconnect. We recommend to leave the display on 24/7. Use a scheduled black background content to blackout the display.

### Emergency Shutdown

Turn off the main disconnect to the display.



### Display Components Layout



Front View

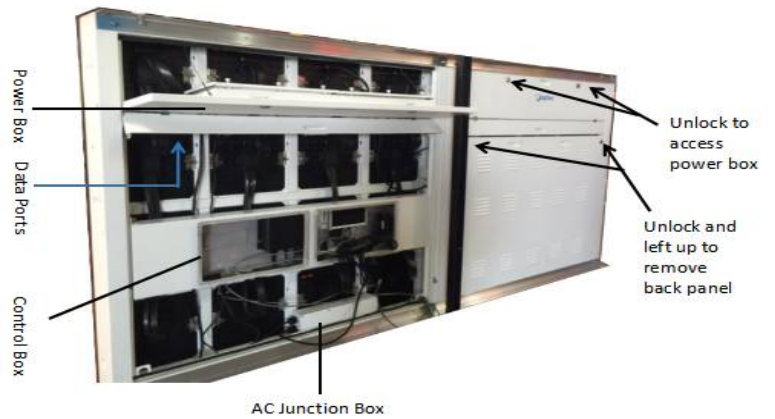
Typical component locations in the display. Refer to sales order product drawings for exact locations.

## Internal Sign Access

### DISPLAY ACCESS



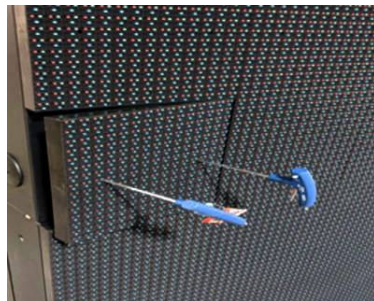
Top Hinged Cabinet



Intelligent-M1 Rear Access

### LOCK/UNLOCK THE TILE FROM SIGN

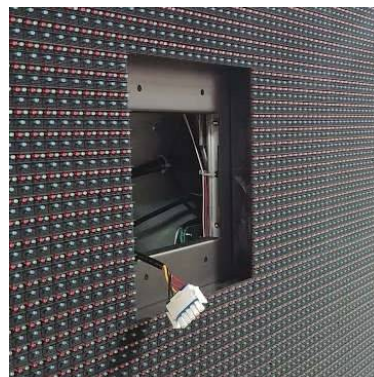
- Locate holes in the tile. Use a Hex Tool and turn clockwise/counter clockwise to unhinge the tile.  
*note: depending on the tile size there will be 2 or 4 holes.*



- When working on the sign make sure to disconnect the Power Data Cable. Always remove the tile during the service. Never hang the tile by the Power Data Cable.



INCORRECT



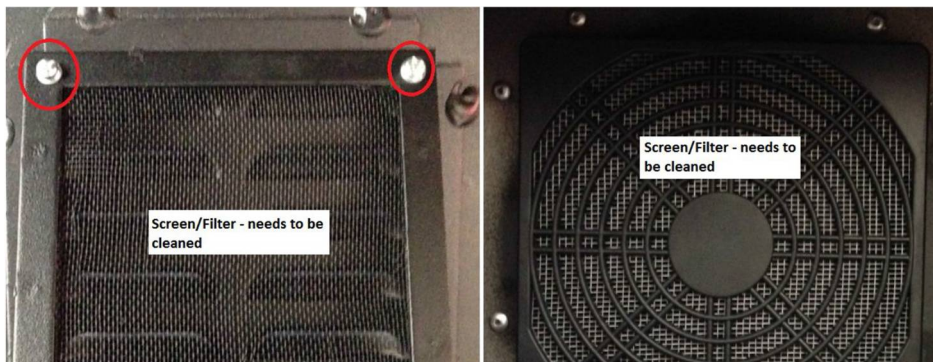
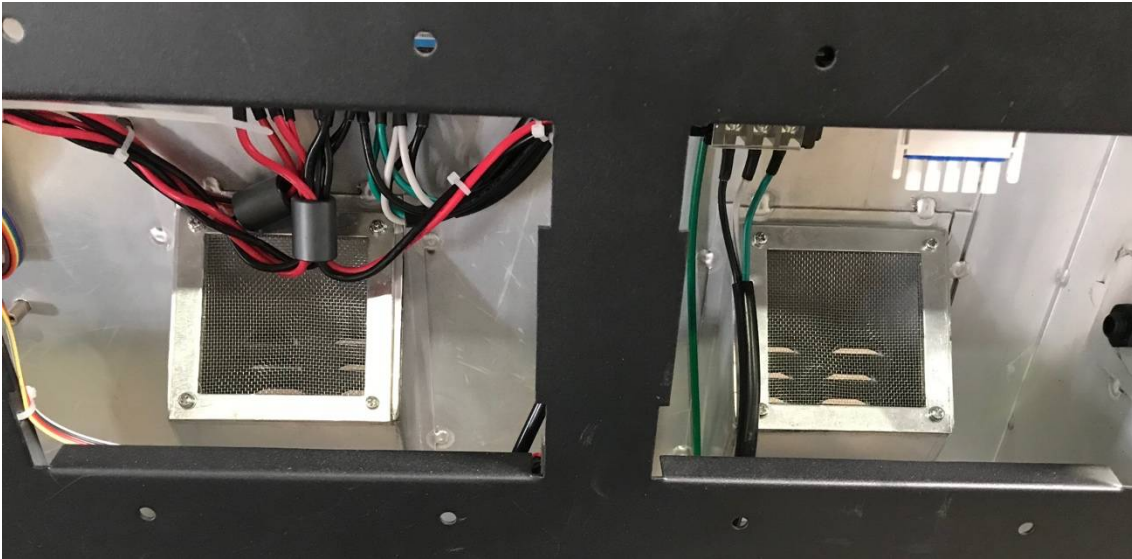
CORRECT

## **Ventilation System**

Optec outdoor displays are equipped with Intake vents and exhaust fans to help keeping the internal components from overheating. Vents and fans should be checked every 3 - 6 months (if in a dusty environment). Refer to the display show drawing for exact location of the vents.

- **Filter Inspection and Cleaning**

- Clean filter with water or compressed air (no greater than 60 psi and at least 6" away).



- Fans

- Use compressed air or vacuum to blow off the dust buildup
- Turn off the display before servicing the fans.



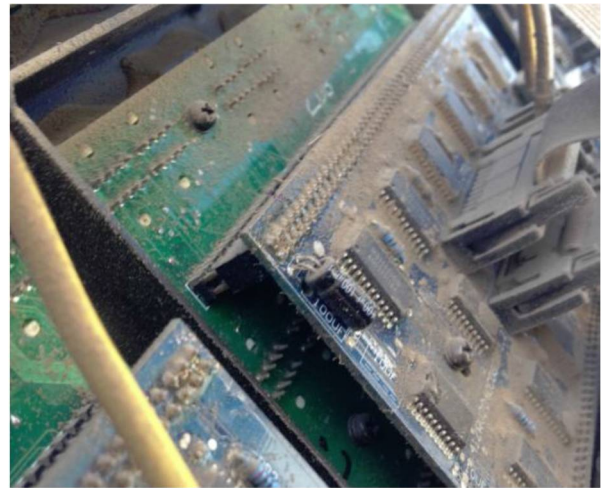
## Power Supply

Power supplies should be cleaned after any dust storm, after any construction near the display and before the summer season begins.



## **Display Internal Cleaning**

**Dust build up** - At times it may be necessary to vacuum the inside of the display to remove any dirt/dust that may interfere with air flow. Use of a 4" paint brush is recommended to dislodge any standing dirt/dust on the components.



## **Display Face Cleaning**

### **Wet Cleaning Process**

- Turn off power to the display.
- Mix a mild, non-abrasive, non-petroleum-based detergent and cold water, one ounce of detergent to one gallon of cold water.
- Saturate a light/medium duty cleaning brush with the soapy water.
- Use horizontal brush strokes to loosen and remove dirt and grime, washing the display from top to bottom. Use light pressure so as not to damage the LEDs. Clean only an area that is safely within reach from a lift or stage, and then move on to the next section of modules.
- Rinse the display face with generous amounts of cold water under low pressure. A spot-free rinse agent can be used to reduce water spots.
- Use soft, dry terry cloth to dry and remove any excess water. Take care not to damage LEDs by catching the cloth on them.
- Allow the display to completely air-dry for 12 hours before applying power to the display.

### **Dry Cleaning Process**

- Turn off power to the display.
- Rub a dry, soft terry cloth towel horizontally across each row of LEDs. Make four passes per row of LEDs before moving to the next row of LEDs. Work from top to bottom safely within reach from a lift or a stage. Take care not to damage LEDs or the plastic louvers by catching the cloth on them.