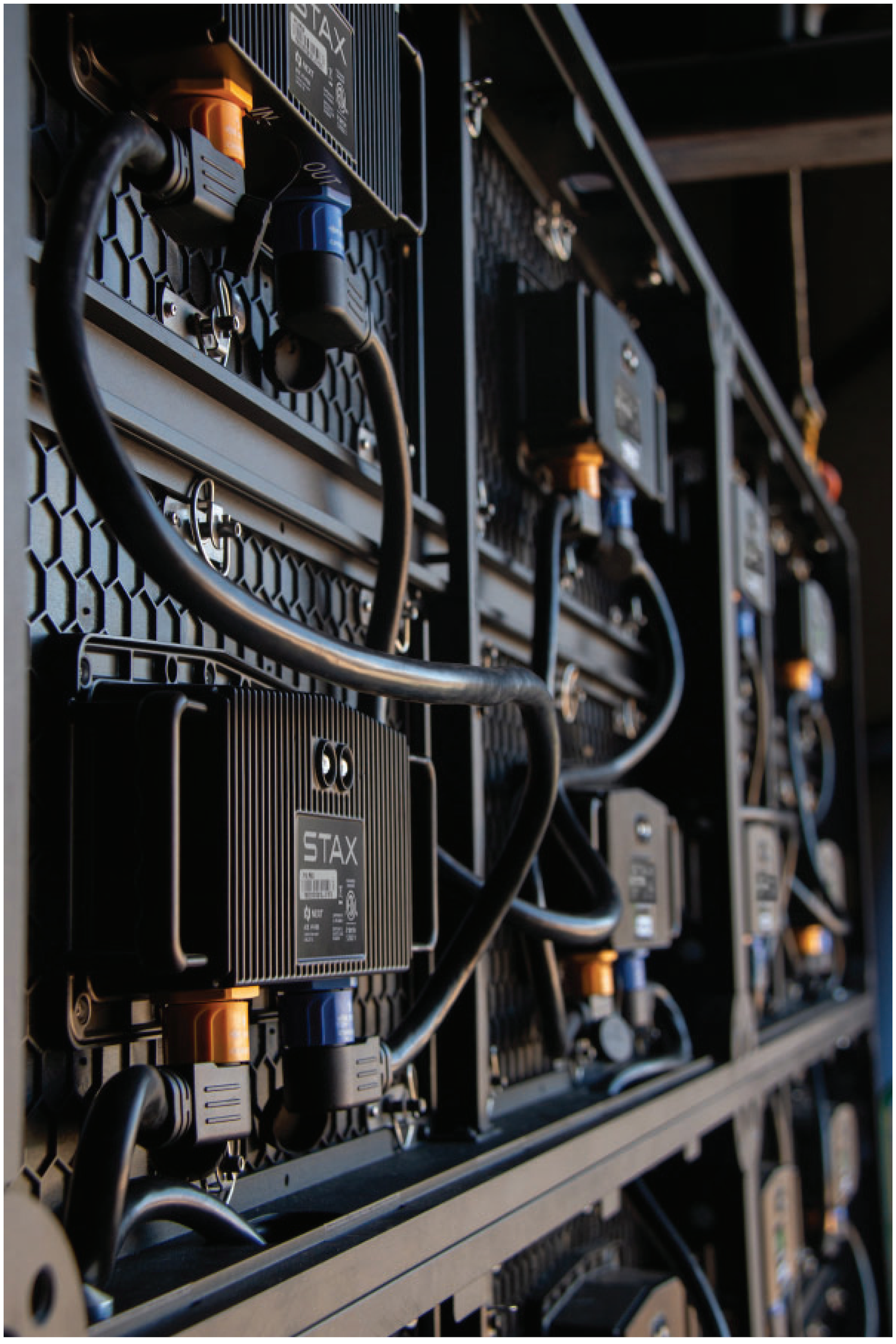
STAX

SIMPLE. SELLABLE. SUPPORTED.

FRONT ACCESS

INSTALL & SERVICE GUIDE

NEXT


STAX
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LAY OUT THE PARTS

BOXES

Module Box

Controller Box

CABLE BAGS

Controller Cable Kit(s)

1 Primary Power Cable 20'
1 Primary Power/Data 20'

Power Continuation Cable Kit(s)

1 Power Boost 30'

FRAME

1'x2' Frame(s)

2'x4' Frame(s)

FRAME

1'x2' Frame Doors

2'x4' Frame Doors

*Frame doors come in left & right pairs

LAY OUT THE PARTS

WHAT'S IN A BOX

CONTROLLER BOX

MODULE KEY

CONTROL BOX KEY

"L" MOUNTING BACKETS (4)
SCREWS, LOCK WASHERS, WASHERS (16)

ANTENNA MOUNTING BRACKET
LIGHT SENSOR MOUNTING

CONTROL BOX

MODULE

FRAME BOLTS
10MM (4)

FRAME BOLTS
12MM (2)

SQUARE METAL PLATE

MODULE

MODULE CABLE

1 OPEN MODULE BOX

Bolt the frame together for the desired dimension of sign.
Horizontal first, then vertical second recommended.
Frame Bolts and Nuts are found in the box that is inside each Module Box.

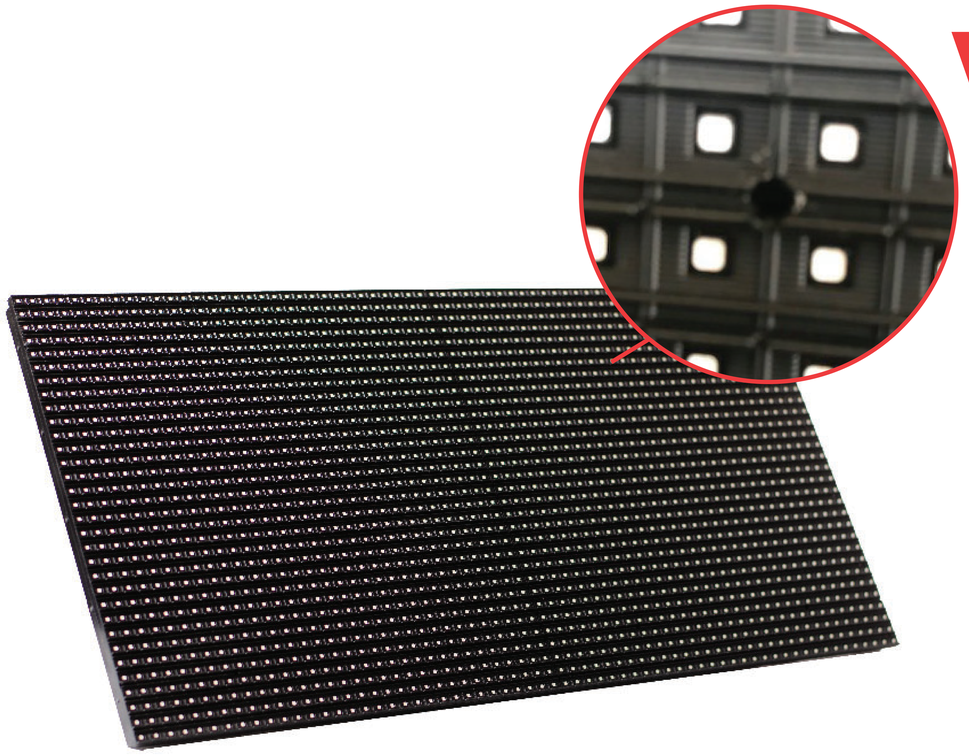
Left horizontal frame bolt

Right horizontal frame bolt

Top vertical frame bolt

Bottom vertical frame bolt

MODULES ONTO FRAMES



1 OPEN MODULE BOX

Take the module out of its plastic bag.
Take the module key (red handle) out of the control box.
Insert the module into the frame insert the module key into the six module keyholes on each module and turn counterclockwise until tight. There are 3 module keyholes approximately 1.5” from the top and 3 module keyholes approximately 1.5” from the bottom.

2 CONFIGURE WIRING

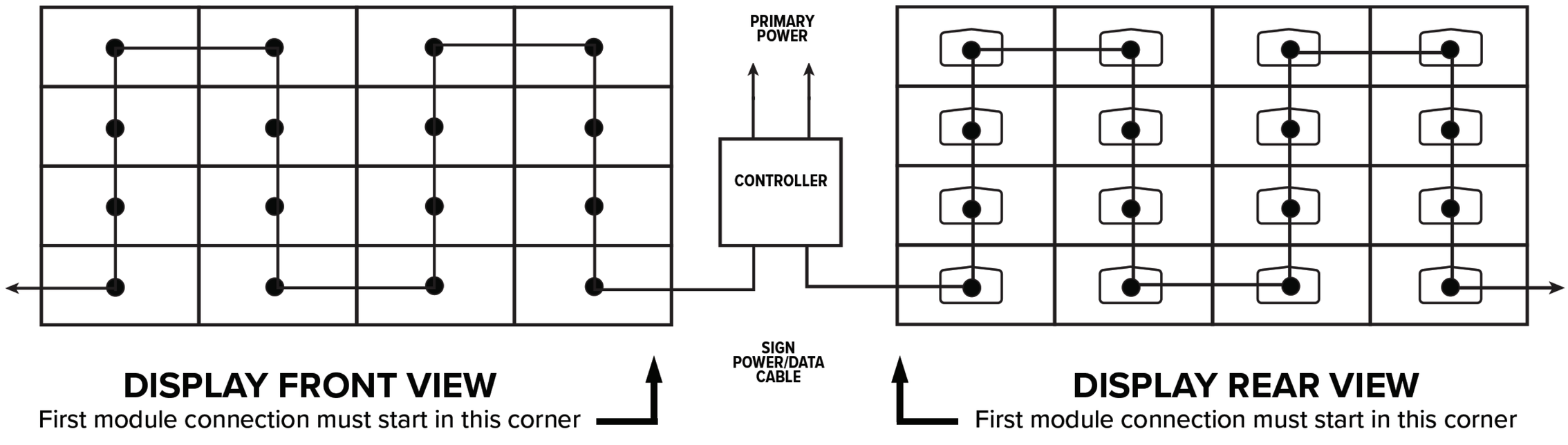
Take out Module cable and wire according to the diagram found on the website. Do this for all module cables. Make sure cables that are wired between connected frames use the cable slot as seen in the diagram on the right.

IMPORTANT: After every 12th module, per sign face, you must connect a continuation cable from module 12 to module 13. You can find this cable in the cord bag with the yellow tag entitled STAX Boost Power Continuation Cable.

IMPORTANT: The maximum amount on one 20A circuit is 24 modules.

IMPORTANT: 300 modules are the maximum number of modules per display.

CONFIGURE WIRING

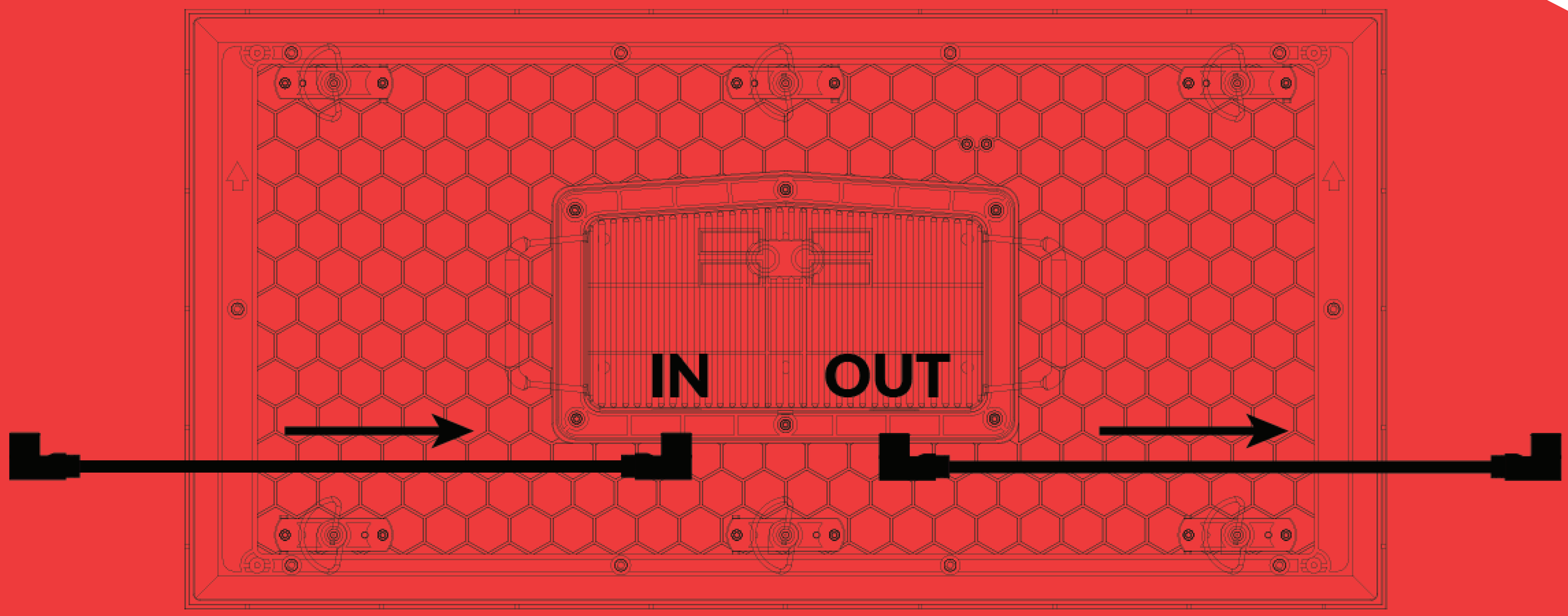


Example display layout shown. For any rectangular matrix configuration, installer must start connection in the specific corner as indicated. All power/data cables between modules should follow the connection pattern shown above. Find all layout patterns and connection diagrams online at staxled.com

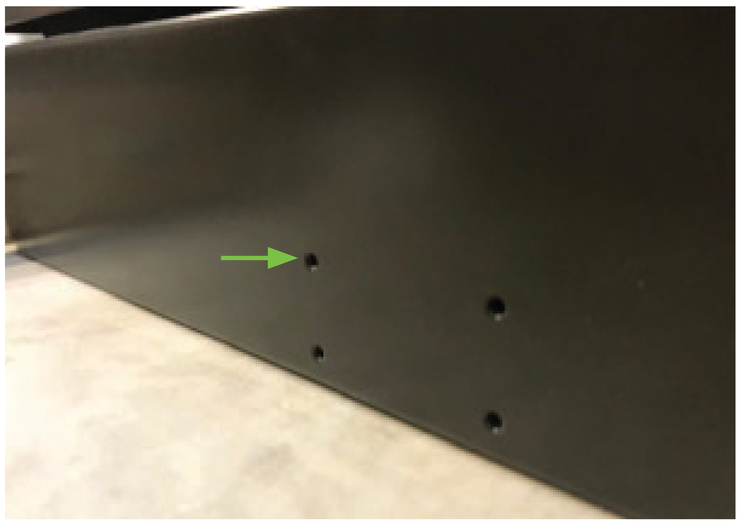
Electrical data and load charts are provided with individual purchase order specifications and are available online.

Larger displays will require an additional power/data continuation cable.

CONFIGURE WIRING

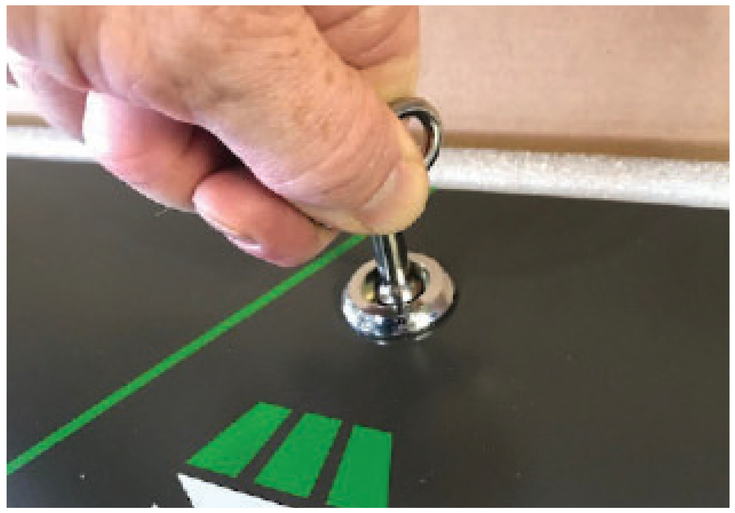


1 OPEN CONTROL BOX



Take the metal controller box out of the Control Box.
Take the “L” mounting brackets, screws, lock washers, and washers and mount the metal controller box as you would normally.
*You can assemble on any slots.

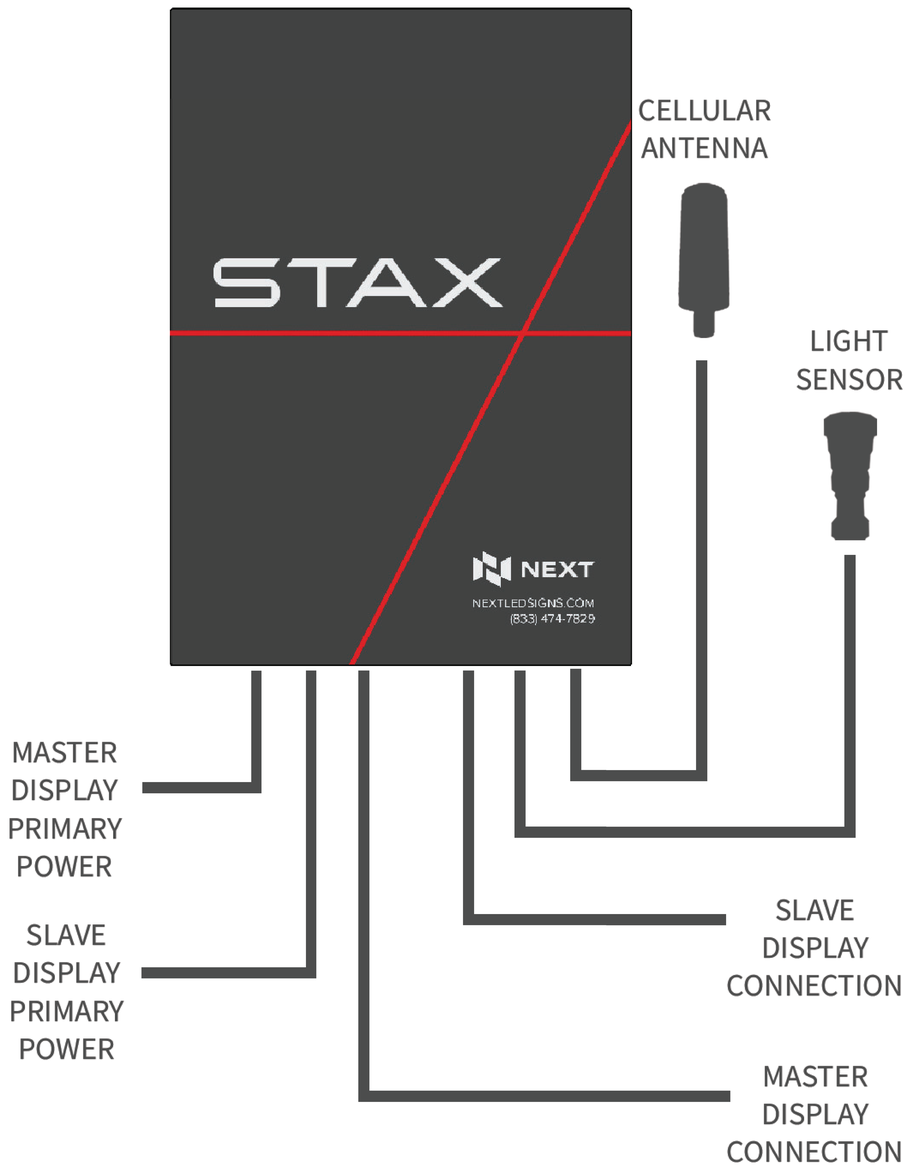
IMPORTANT: You must use the predrilled holes located around the outside of the metal controller box. Drilling your own holes, and/or using other screws than provided could puncture the interior metal housing and WILL VOID ALL NEXT LED WARRANTIES ON THE CONTROLLER BOX.



Locate the metal controller box key to open the metal controller box.
Open the Cable bag with the red tag labled STAX Controller Cable Kit.
Follow the instructions on the back of the Control Box to attach the STAX Controller cable to the module on the lower left hand side from as you look at the back of the sign display (the side that has all the cables not the side with all the LED lights).

If your configuration involves a two faced sign you will need another Controller Cable for the second display as per the diagram on the back of the Controller Box.

CONTROL BOX



Each display face requires a controller cable kit consisting of one primary power cable and one display connection cable.

Each primary power connection is an independent circuit. For smaller displays, the Master and Primary power connection can share a circuit. Confirm loads and all electrical details prior to installation.

Cellular router is included in the control box. Cellular Antenna, with mounting bracket, is included and ready for installation. Light Sensor, with mounting bracket, is included and ready for installation.

Lifetime installation support and software training are available prior to, during, and after the installation of display.

Mounting brackets and screws are included. There are multiple bracket installation positions available. Not all are required to be used. Do not puncture or open the control box without approval from Next LED.

For installations requiring direct Cat5e connections or wireless point to point antennas, please contact NextLED to confirm parts and installation method.

1 FRAME DOORS

LAUNCH INSTRUCTIONS

1. Assemble all frames and modules per installation instructions found on the module box, online for specific display size, or with the online user manual.

2. After all modules have been assembled, connect the controller to the first module of the display face with the cable found in the RED labeled cable kit bag. You will use one cable for the master display and one cable for the slave display.

3. Connect the controller primary power to a power source with the power cable found in the RED labeled kit bag.

4. Power-up the primary power source for the controller box. On initial powerup the successful sequence on the display will appear as:

   A- Flash of light
   B- Black Screen
   C- Blue Screen
   D- Logo on every Module
   E- Black Screen

5. REMOVE THIS LABEL FROM CONTROLLER BOX

6. Final Configuration and software connection will require a cellular connection and can be completed, by the installer, on-site if necessary.

7. Contact NextLED for final configuration and software connection. We will remotely work with your technician and configure the display in under 10 minutes.

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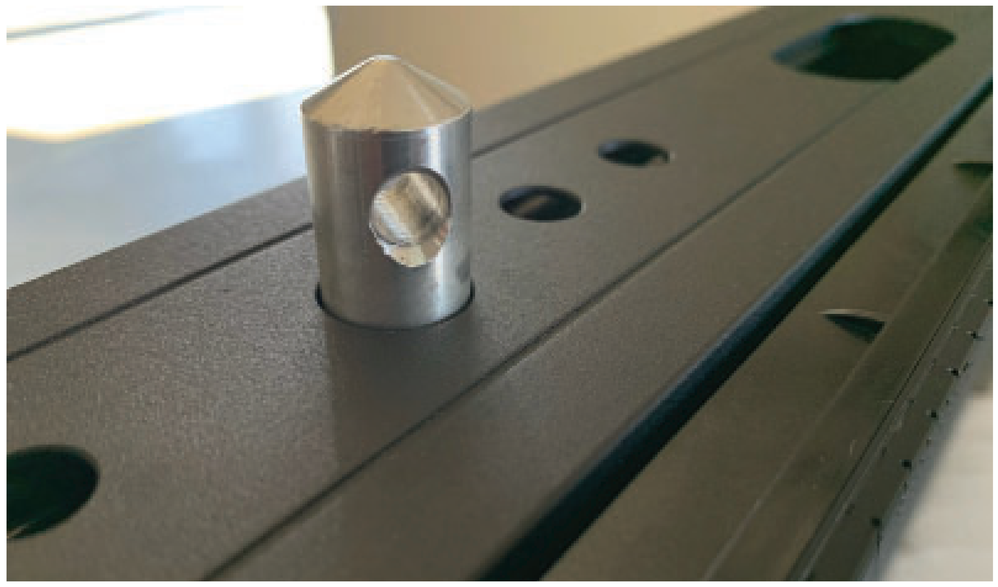
LIFTING THE LED DISPLAY

1 LOCATE LIFTING

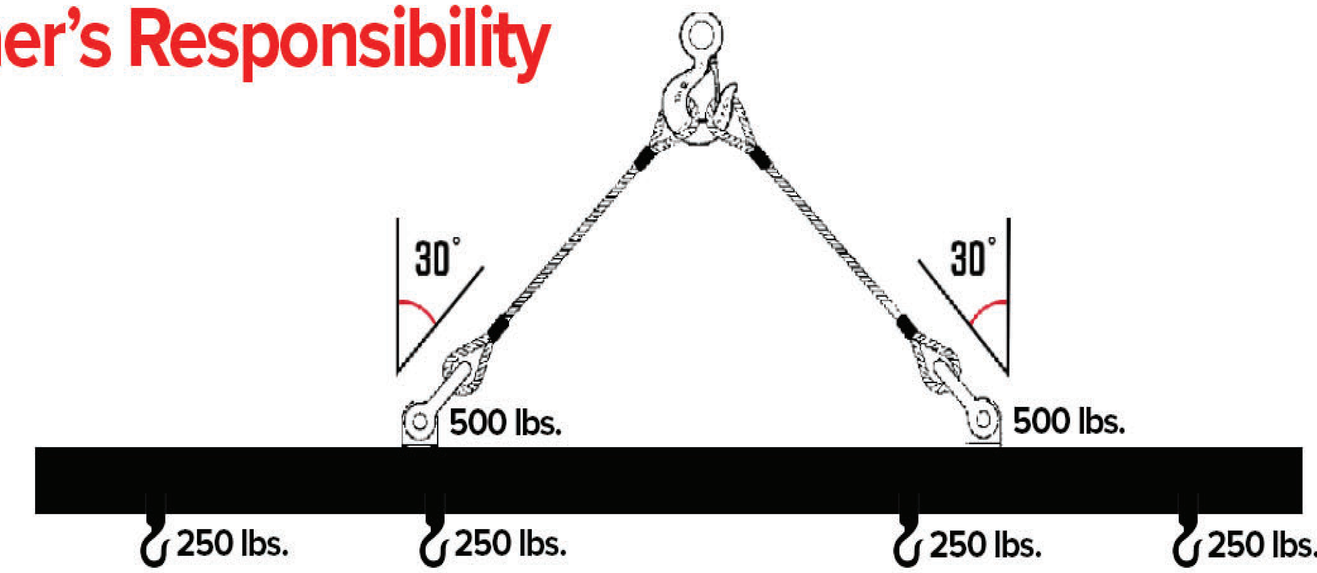
The LED Display comes with lifting pins pre-attached. Ensure the lifting pins are secure prior to hoisting the LED display.

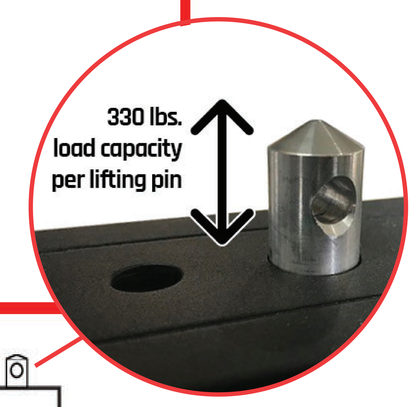


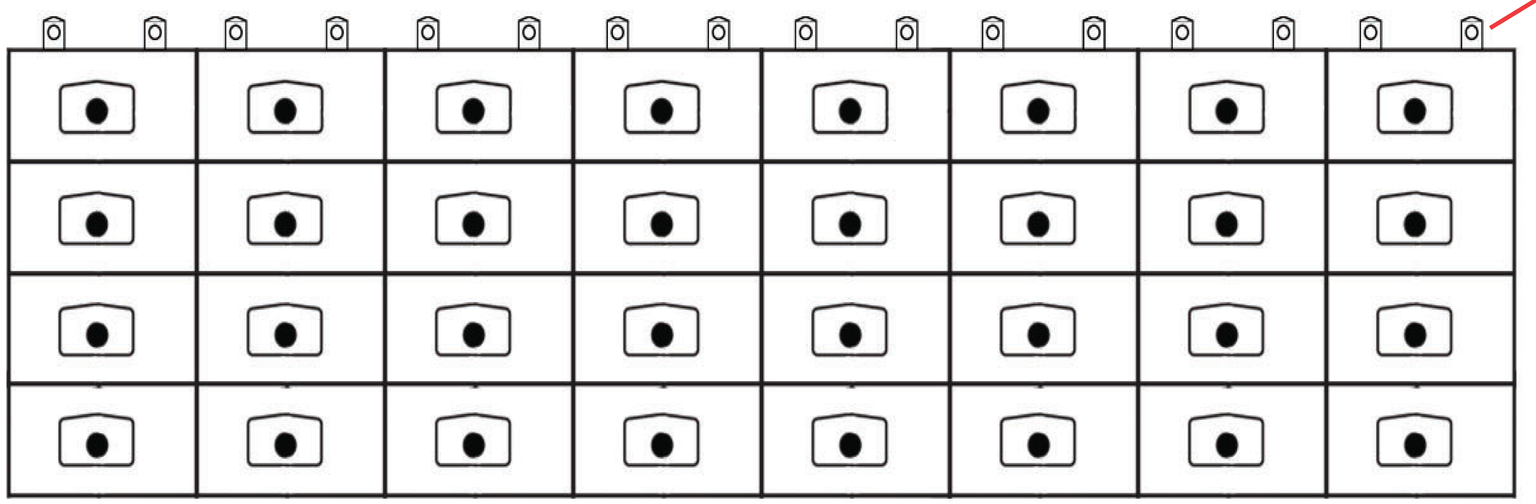
2 LIFT VERTICALLY

With appropriate rigging equipment and shackles for the weight of your LED Display, (weight estimates are noted in the Product Profile) lift vertically.

Owner's Responsibility

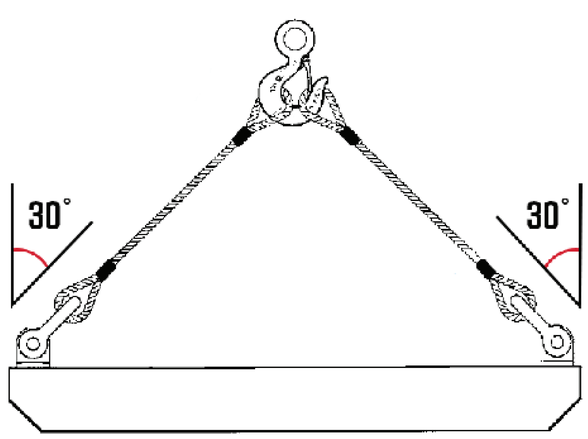






1000 lbs.

CAUTION



SHACKLE ATTACHMENT

The shackle cables should connect to the lifting pins at an angle of 30° or less to prevent damage to the cabinet.

ASSEMBLY INSTRUCTIONS

INSTALLATION HARDWARE

INSTALLATION

For most installations a matching installation angle is attached to the permanent cabinet angle.

1 LIFTING

Removal of the lifting pins is unnecessary for the overall function of the LED Display, but is recommended for aesthetic purposes.

2 LIFTING

Unscrew the lifting pins from the LED Display.

CAUTION

Damage caused to the modules of the LED Display by welding or other installation methods will void all warranties.

ELECTRICAL, DATA, LIGHT SENSOR WIRING

The back of the LED Display can have up to five connections: up to two for the primary power input cables, and up to three data connections.

1 POWER

The primary power input cables provide 120v to the LED Display. Each circuit will require no more than 16 amps. (Refer to the electrical guide for more detailed power requirements)

2 POWER

The display will come with 20’ of primary wire for connecting the display to primary power (by others).

ELECTRICAL, DATA, LIGHT SENSOR WIRING

3 LIGHT

Mount both the light sensor and antennae with the included mounting brackets found in the Control Box.

4 LIGHT

Mount both the light sensor and antennae with the included mounting brackets found in the Control Box.

4 LIGHT

Mount both the light sensor and antennae with the included mounting brackets found in the Control Box.

FCC COMPLIANCE INFORMATION

INFORMATION TO END USER

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

LABEL (FOUND ON YOUR DISPLAY)

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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