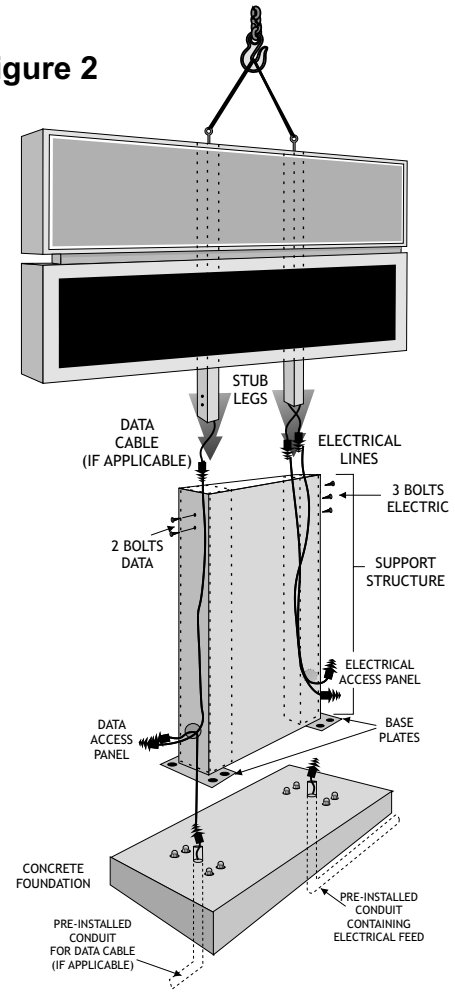
Installation

Pedestal and Monument Mount

1. Locate and remove the cardboard box from the crate. This box will contain your wireless components, touchup paint, and replacement bolts and washers (metal & rubber) for the lifting eye bolts.
2. Remove the wooden crate from around each component. You should have a component consisting of the identification sign and LED display, and a component consisting of the support structure.
3. Verify that the bottom nuts and washers on the anchor bolts are level both front to back and side to side. It is much easier to level the nuts ***BEFORE*** you install the sign.
4. Orient each component with the electric coming into your footer. The electric in the support structure will run through the leg has three bolts on the side. There will be an access door on the lower leg to allow the electrician to access the wires to make the connection. If your sign's data connection will be via Ethernet connection, there will be an access door below the side of the support structure that has two bolts. Electric wires coming from the bottom of the display component are taped in blue.
5. Lift the support structure onto the anchor bolts and immediately place the upper washers and nuts on the anchor bolts. Tighten the top nuts. Double check that the support structure is level and adjust as necessary.
6. Lift the sign portion to a working height and pull the wires down out of the stub legs. Feed the electrical lines down into the corresponding leg and pull through the access hole in the side of the leg near the base plate. There will be two or more sets of electrical lines; one set for the identification sign and one set per side for the LED display. Each set requires a dedicated circuit. Please refer to your sign quote or order form for the specific electrical requirements of your sign model.
7. If applicable, perform the same action with the Ethernet data cable in the opposite leg.
8. Remove the bolts from the outside of the stub legs and lower the sign component. The stub legs will sleeve into the legs of the support structure. Once fully lowered, fasten the support structure to the stub legs with the bolts.

Figure 2



Single and Double Pole

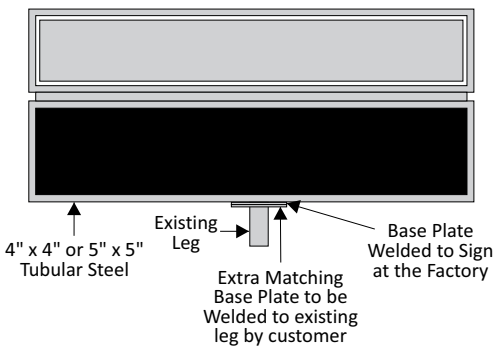
Single Pole: The most common way to mount the sign to an existing single pole structure is the Match Plate mount, where we match the mounting plate to your existing structure. The sign cabinet has both electrical and data connections within the one leg.

1. Pull electrical and data lines from the installed conduit or existing support structure, through the Electrical Access Panel.
2. Place sign into installation area.
3. Place washers on anchor bolts and attach lock nuts and washers. Refer to your Technical and Structural Engineer drawings for detailed information.

Double Pole: The mounting brackets for a Double Pole are custom made to match your existing structure. When your sign is installed between two poles, it will install similar to a Masonry Mount. When installed onto the front of a Double Pole, it will install similar to a Wall Mount. When installed on top of a Double Pole, it will install like a Single Pole.

Figure 3

Match Plate

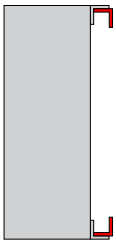


Wall Mount

A wall mount kit is shipped separately from the sign components and contains several mounting angles and an air baffle.

The mounting angles (shown in red on the diagram) measure 3” x 3¼” x 6” in length. Four angles are provided for LED cabinets less than 9' in length; two for the top and two for the bottom. Six angles are provided if the cabinet is longer than 9'; three for the top and three for the bottom.

Figure 4



(Side View)

The back of the LED cabinet has two integrated angles welded at the top and bottom. Once the mounting angles have been properly installed to the wall, the mounting angles and integrated angles are then bolted together.

The mounting angles do not have pre-drilled holes, since the proper positioning of the angles is unique for each installation. Drilling into the mounting angles is required for attachment. The bolts to fasten the angles to the wall are not included, as the proper fastener is determined by the size of the sign and the type of structure it is mounted against.

If mounting to a brick or block wall, it is recommended to fasten into the face of the brick or block, and not into the mortar joint. If mounting to a wood frame wall, position the mounting angles so they are aligned with an internal support stud or beam. ***Welding is strictly prohibited on the display cabinet. Any additional penetrations into the display cabinet must be authorized, in writing, by Stewart Signs. Damage incurred from water leaks and/or welding may void the warranty.***

An air baffle consisting of a 1½” x 3” aluminum angle with double sided mounting tape is also included. This baffle is used to separate the intake air vents from the exhaust vents, and prevent the recirculation of exhaust. Simply apply the double-sided tape to the 1 ½” side of the air baffle and attach it vertically to the center of the LED cabinet back.

Waterproof connectors for both electrical and data are on the back of the LED cabinet approximately 3” from the bottom. For full concealment, the electrical and data source should enter from behind the LED cabinet. As the LED cabinet is offset from the wall, the electrical and data conduits can enter from behind the cabinet at any location.

Masonry Mount

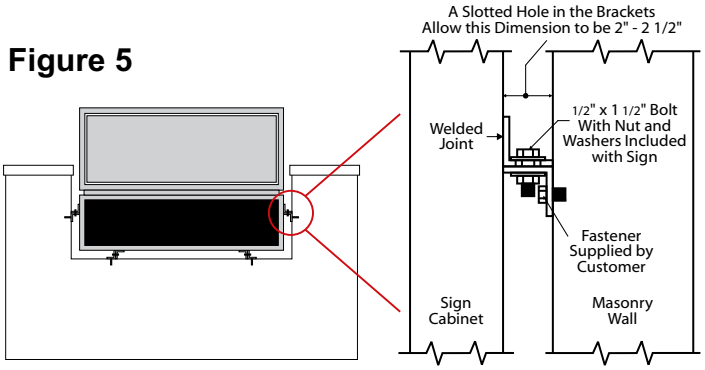
STEP A: PREPARATION

1. To prevent potential difficulties, we ***STRONGLY*** encourage you to ***NOT*** build your brick mount until you have received the sign and have verified all measurements and properly aligned all hardware.
2. Run the electrical through the brick mount to the underside of the sign cabinet on either side of the brick opening. For single face signs, the electrical runs to the right side of the sign when facing it.

STEP B: ERECTING THE SIGN

1. Your sign will arrive with "L" brackets welded to the cabinet. Corresponding "L" brackets will be set by bolts (provided by customer) into the brickwork.
2. Place the cabinet into the brick opening and mark the location of the "L" brackets against the brickwork.
3. Remove the cabinet. Attach the "L" brackets to the brickwork using your bolts.
4. Replace the cabinet and bolt the "L" brackets together.

Figure 5



Angle Bracket Detail

Post Installation

Checking Connections

During shipment and installation, some cables or connections inside of the display may have been loosened. If you experience any display or communication issues after installation, please check the electrical and data connections inside of the display with the power off. These connections can be accessed in two ways:

1. Individual LED boards can be removed using a 1/8" Allen wrench. Insert the Allen wrench in the small hole located in the middle of the affected LED board, and twist it to the left about 1/2 turn to unlock the board. Carefully remove the LED board making sure not to dislodge any cables. If needed, the data and power cables can be disconnected from the back of the board.

2. The entire LED display cabinet can also be opened by removing the bolt connectors located on the bottom of the cabinet. An adjustable wrench can be used to remove these bolts. Once the bolts are removed, the front of the display will open slowly on gas strut prop rods.

Stewart Signs
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FCC Notice

All components have 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 device 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. The user is cautioned that any changes or modifications not expressly approved by the party responsible for FCC compliance could void the user's authority to operate the equipment.

Each sign will contain one of the following LED modules:

LED-10M-RGB-32X32P-320X320M, LED-16M-RGB-20X20P-320X320M, LED-20M-1RGB-16X16P-320X320M, LED-20M-1RGB-8x16P-160X320M, LED-20M-2R-8X16P-160X320M, LEDDM-10M-1RGB-32X32P-320X320M, LEDDM-10M-1RGB-32X32P-320X320M-2017, LEDDM-16M-2RGB-20X20P-320X320M, LEDDM-16M-2RGB-20X20P-320X320M-2017, LEDDM-20M-2RGB-16X16P-320X320M, LEDDM-20M-16X16P-320X320M-2017

Power Supply:

Meanwell RSP-320-5

Send Card:

SENDCARD-NS

Receive Card:

RECCARD-MRV560-NS

Control System:

Industrial PC - Lanner HQ-LEC-7020D V1.TS128MSQ64V8U GB DDR2 (FCC certified)

Wireless Radios and Modems (If ordered):

Ubiquiti BulletM2HP with POE 24v (FCC Certified)
Sierra Wireless Airlink LS300 (FCC Certified)
Sierra Wireless R5-S1-10 RV-50 (FCC Certified)