



MODEL 7416

Installation Manual

HOME		GUEST
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DOWN	TO GO	QTR
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VARSITY
SCOREBOARDS



MODEL 7416 INSTALLATION

WARRANTY

This product is warranted against defects in materials and workmanship for the period specified in the warranty from the date of invoice.

SERVICE

Technical Support is available 24 hours a day, 7 days a week.
1-800-411-3136

<https://www.varsityscoreboards.com/support/contact-support.html>
(link to fill out support request on website)



A NOTE TO INSTALLERS

If you are installing this scoreboard for a client, please return the manual to the individual in charge of the scoreboard upon completion of installation.

SCOREBOARD DIMENSIONS

16’ wide x 5’ tall x 8” depth

HOME <div></div> <div></div>	<div></div> <div></div> <div>:</div> <div></div> <div></div>	GUEST <div></div> <div></div>
DOWN <div></div>	TO GO <div></div> <div></div>	QTR <div></div>
Varsity SCOREBOARDS		



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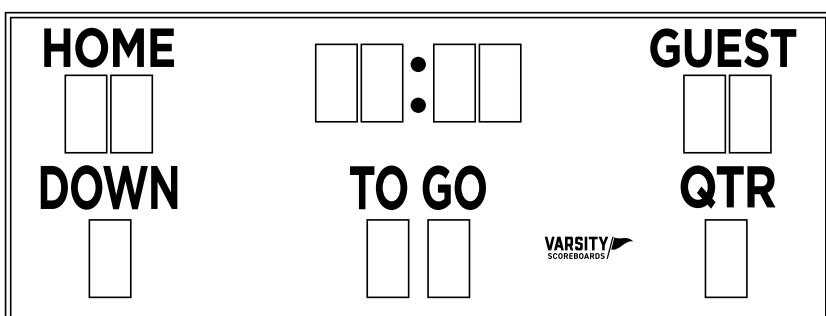
TESTING INSTALLED SYSTEM. 15



MODEL 7416 INSTALLATION

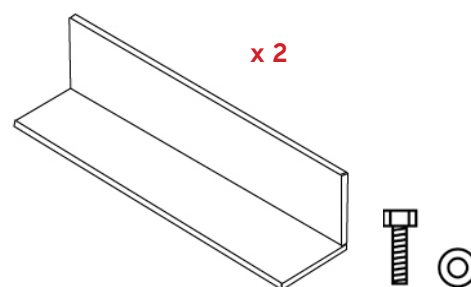
Please inspect all shipping containers upon arrival for damage and ensure that you have all of the parts listed below:

ITEMS IN LARGE PACKAGE(S)



(1) 16' x 5' Football Scoreboard

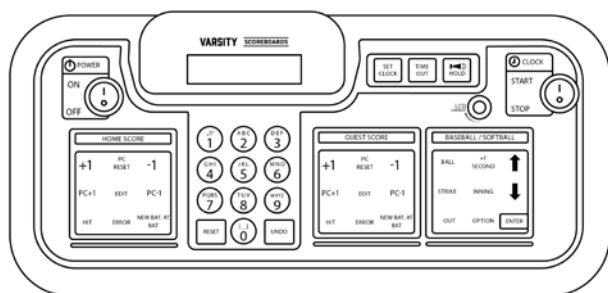
Shipped in two (2) sections



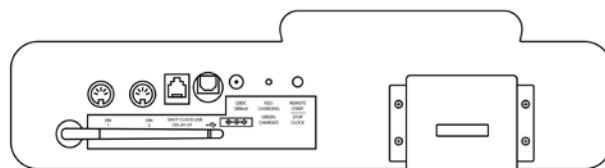
Mounting Tools

16' mounting angle irons
and hardware (nuts, bolts,
washers)

ITEMS IN ACCESSORY BAG



(1) LCD Wireless
Keyboard Controller



(1) 12-volt adaptor

(1) Sport Inserts

INSTRUCTIONS FOR REPORTING SHIPPING DAMAGE

1 /

Note “DAMAGED” on the Delivery Receipt Form, including details of the type of damage to the freight and packaging.

2 /

Ask the delivery driver to call the local terminal and report immediately.

3 /

Contact Varsity Scoreboards immediately while the delivery driver is still present to report the damage

- A. Phone number
- B. Email

Shipping damage **must** be noted at the time of delivery. The shipper is **not responsible** for shipments that aren’t sighted for as damaged upon arrival. The shipper is responsible for filing a claim, unless shipped 3rd party.



INSTALLATION OVERVIEW

This manual will walk you through the installation of the scoreboard. While care has been taken to consider the many scenarios for installation, some general information applies to all. Follow this guide as closely as possible to ensure proper installation.

1 /

Review the product specifications below to determine your specific installation hardware.

2 /

Determine the scoreboard's location and orientation.

3 /

Install the mounting poles / I Beams.

Note: *I Beams supplied by the customer.*

4 /

Mount the scoreboard to the poles / I Beams.

Note: *Mounting hardware supplied by the customer.*

5 /

Install any options, such as sponsor panels or protective nets, according to the installation instructions included with each option package.

6 /

Test the installed system.



PRODUCT SPECIFICATIONS

OVERALL DIMENSIONS

16' L x 5' W x 8" D - shipped in two (2) sections

WEIGHT

Hanging weight = approximately 505 lbs

Shipping weight = approximately 659 lbs

CONSTRUCTION

22-gauge galvalume steel cabinet with powder coat finish for strength, durability, and lasting appearance

INSTALLATION RECOMMENDATIONS

We recommend this model to be installed between (2) 8" steel I-beams (W8 x 21).

Total length determined by local codes, customer preferred mounting height, and scoreboard options. Concrete Footer depth /diameter as well as pole/concrete specifications must be based on customer's local building codes, soil conditions, and wind loads. Flat Stock mounting brackets and bolts are supplied.

Support structure and mounting hardware supplied by installer/others.

POWER REQUIREMENTS

SCOREBOARD

(1) 20-amp, 120-volt, 60-hertz, grounded AC circuit, disconnect switch at the scoreboard is recommended. Specific power requirement information is also marked on the scoreboard's serial number label, located on the scoreboard. Power consumption is 72 watts.

LCD WIRELESS KEYBOARD CONTROLLER

(1) 12-volt adaptor in a standard 120V outlet to charge the controller

NOTE: To maintain the life of the LCD controller, in between games or seasons, store the keyboard in a place where you can keep the adapter plugged in year-round, helping regulate the battery voltage.



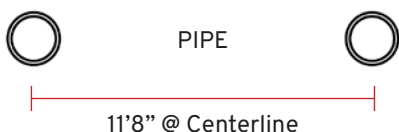
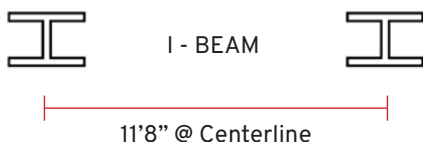
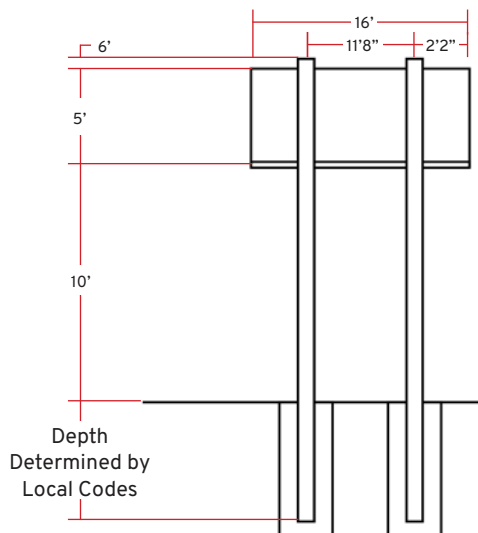
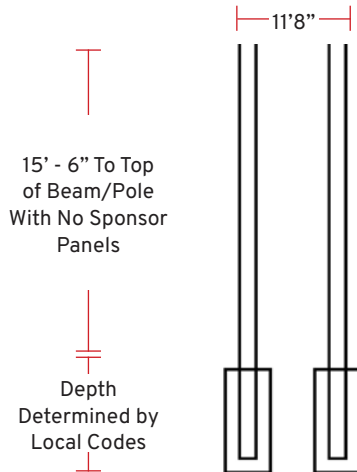
DETERMINING LOCATION & ORIENTATION

The scoreboard should be positioned so that the greatest number of spectators can easily view it. Also, consider the best orientation of the scoreboard should the system be used to score a daytime or afternoon game. The scoreboard should be positioned so that sunlight does not glare off its face.

In the U.S., placement on the South or West side of the field is recommended. Consult with the local building or zoning department before final determination and installing the scoreboard.



INSTALLING MOUNTING POLES OR I-BEAMS



The following information for installing the mounting poles/beams are suggestions only. Local codes, field placement, scoreboard options, customer preference, and other special considerations will determine the specifics of your installation, including footer specifications, above ground height, and total length of the poles/I-beams.

Consult with local building officials for the required pole sizes and footer construction regarding this installation. A local architect, structural engineer, or sign installer may also be a source of assistance.

1 /

Install the two (2) mounting poles/beams (supplied by the customer) on the field 11'-8" (eleven feet, eight inches) center to center with 15'-6" (*) of pole/beam above ground (refer to the installation diagram below). If a sponsor panel is to be mounted above the scoreboard, leave 17'-0" (*) of pole/beam above ground (an additional 21").

Remember: Keep boom and lines away from power lines to avoid shock or electrical burn

2 /

The poles / I-beams must be set into concrete footers. Make sure the poles are level and plumb and spaced on recommended 4' centers. The mounting faces of poles/I-beams must be straight with each other.

NOTE: IF THE POLES/I-BEAMS ARE NOT IN ALIGNMENT – SHIMS MAY BE NEEDED TO MOUNT THE SCOREBOARD PROPERLY. MOUNTING THE SCOREBOARD WITH THE POLES/I-BEAMS OUT OF ALIGNMENT MAY DAMAGE THE SCOREBOARD AND VOID THE WARRANTY.

RE-USING OLD COLUMNS

If you plan to re-use old columns to install your scoreboard, please take measurements of your columns and call technical support at 800-411-3136 to discuss further instructions.

NOTE: The location of the disconnect switch after installation shall comply with Article 600 of the National Electric Code.



MOUNTING THE SCOREBOARD

IMPORTANT:

*TO ASSEMBLE, LIFT, AND INSTALL USING THIS METHOD, YOUR LIFTING DEVICE MUST BE CAPABLE OF LIFTING IN EXCESS OF 2000 LBS. IF YOU DON'T HAVE ACCESS TO THAT TYPE OF LIFTING DEVICE, YOU MAY NEED TO ASSEMBLE/ LIFT/INSTALL IN SECTIONS.

1 /

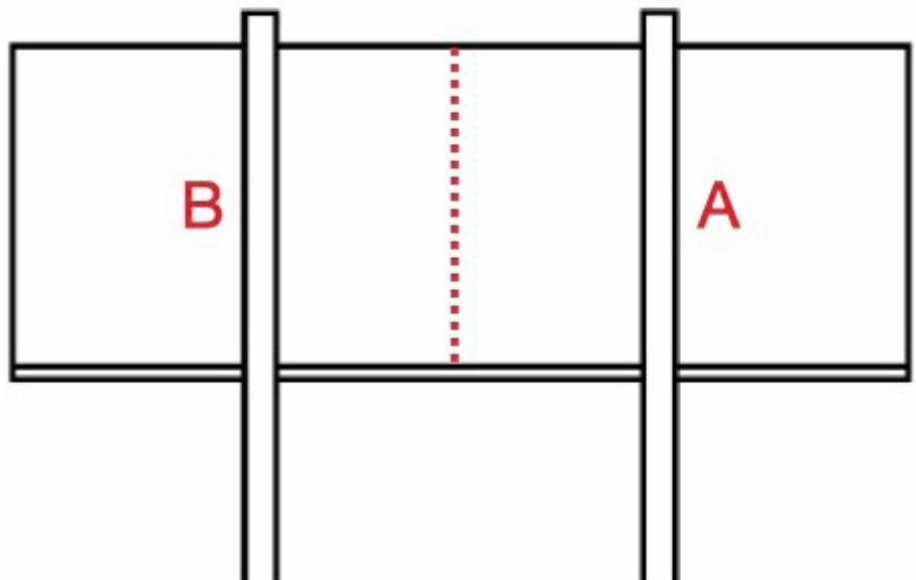
After unpacking the scoreboard, arrange the panels in order A – B from RIGHT to LEFT, face down, with the top away from the mounting poles or I beams. Keep the panels aligned at the top and against each other, making sure not to pinch cables that may be hanging outside of each cabinet.

2 /

Join the cabinets using the 3.5" X 16' mounting angle, making one assembly.

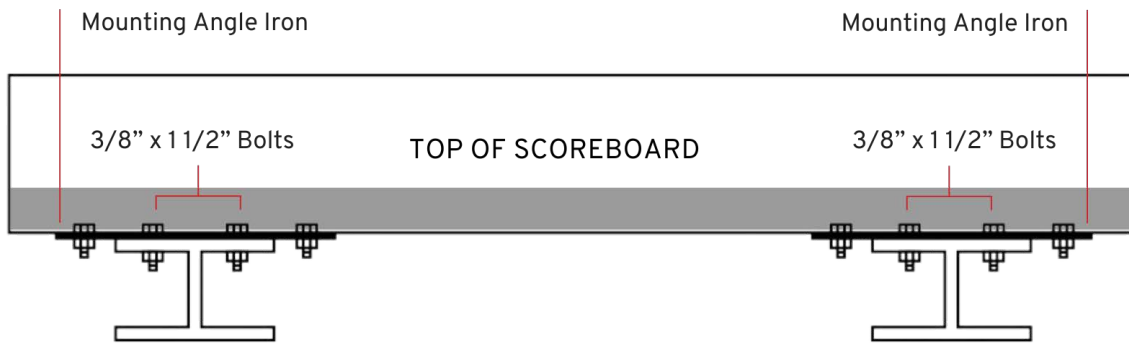
3 /

Install crossover nipples between cabinets. Failure to install crossover nipples will void the warranty. Connect wiring in each of these sections.



BACK OF SCOREBOARD



**4 /**

Connect ALL crossover cables between cabinets as in the “Cable Connections” image below, making sure the red stripe on the edge of the ribbon cables are aligned when connected. The power harnesses are male/female and cannot be connected incorrectly.

5 /

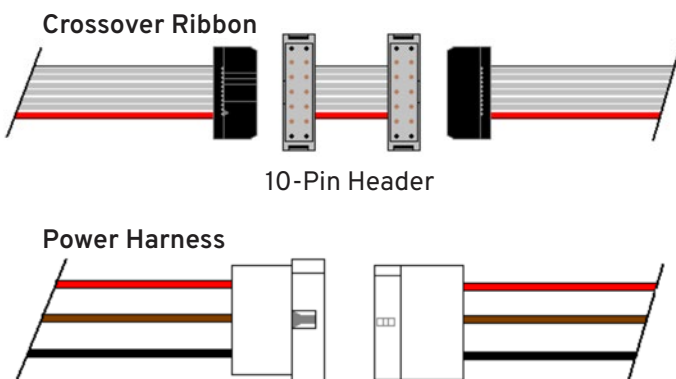
Lift the assembly from the top angle irons to a vertical position, still resting on the ground and install the top sponsor panel if included in the installation. (refer to page 13 for sponsor panel instructions)

6 /

Lift the scoreboard up high enough to install the bottom sponsor panel if included in the installation.

7 /

Raise the scoreboard to the mounting poles or I Beams and at the proper height, use a clamp at one pole or I beam to hold that corner in place.

**8 /**

Using a level in the top channel of the scoreboard, slowly raise the scoreboard to level it and clamp to the other end mounting pole or I Beam.

9 /

Weld or bolt the mounting angle to the poles or I Beams you are clamped to and follow the same procedure at the bottom of the scoreboard, clamp and weld or bolt. Follow by welding or bolting the angle to the center pole or I Beam at the top and bottom. It may be necessary to use clamps here as well.

10 /

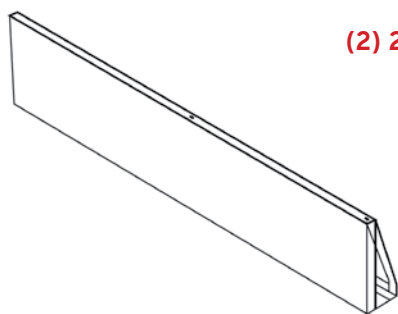
If any other options were purchased, install them by referring to their specific installation instructions.



INSTALLING SPONSOR PANELS

NOTE:

DETERMINE NUMBER OF SPONSOR PANELS
BEING INSTALLED AND THEIR LOCATION.



(2) 21" x 8' Panel



(6) Mounting Brackets



(7) 3/8-16 x 3/4" Bolts



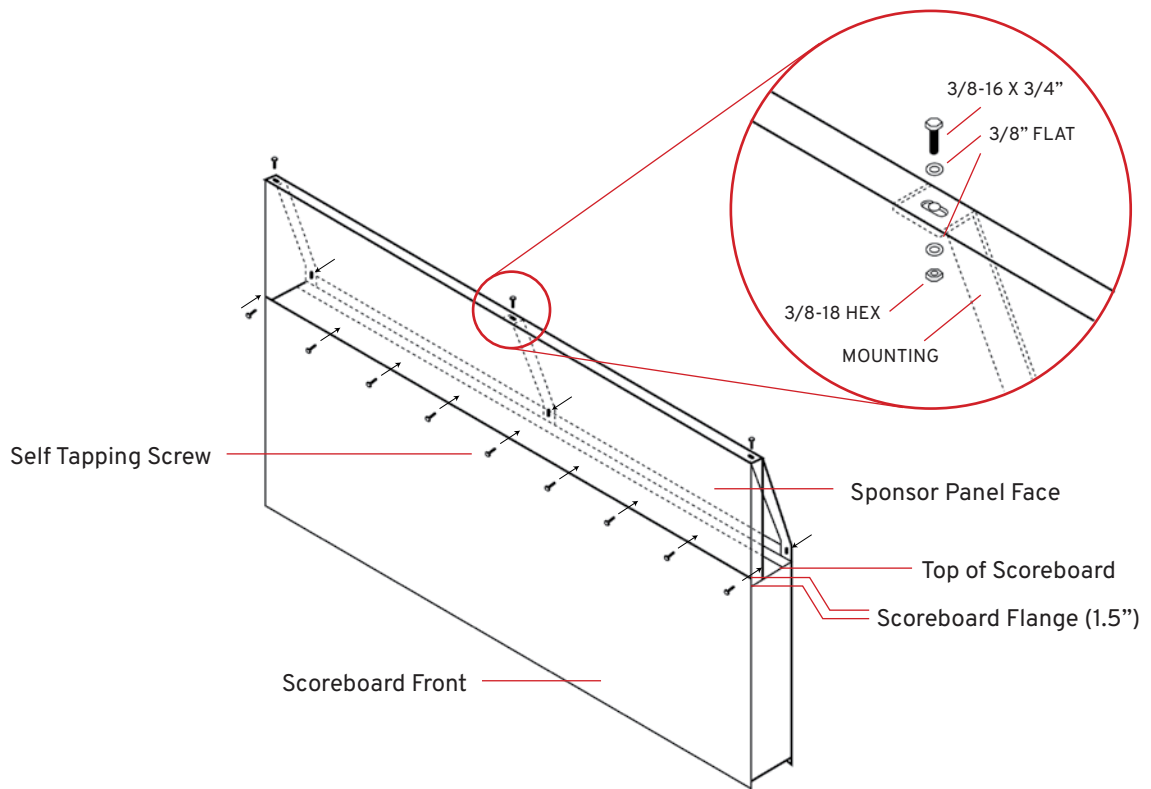
(7) 3/8-16 Hex Nuts



(18) #8 x 1/2" Self Tap
Screws



(14) M3/8" Flat Washers



1 /

Before the sponsor panel is lifted into place, attach the mounting brackets to the edge that will be away from the scoreboard, using the supplied hardware. Each panel is pre-drilled for the hardware. The brackets fit inside the flange of the panel.

NOTE: To avoid damaging the finish on the sponsor panel, a flat washer should be used under each bolt and nut (See Figure 1).

2 /

Lift the sponsor panel into place with the panel resting on top of the scoreboard for top-mounted installations or against the bottom of the scoreboard for bottom-mounted installations. The face of the panel should be flat against the scoreboard's front flange (See Figure 1).

3 /

Using the supplied hardware attach the mounting brackets to the scoreboard's back flange (See Figure 1).

4 /

Install self tap screws through the scoreboard's front flange and into the sponsor panel face, spaced evenly.

NOTE: To avoid damaging boarder striping please drill approximately 1 inch from the edge of scoreboard's flange.



TESTING THE INSTALLED SYSTEM

Please refer to the OPERATORS MANUAL for startup instructions.

AFTER INSTALLATION IS COMPLETE, HAVE THE INSTALLER TEST THE SCOREBOARD BY FOLLOWING THE STEPS BELOW:

1 /

While holding down the OPTIONS button, turn the wireless controller on

2 /

The screen will display "Select Diag Mode." Press the down arrow once to scroll to "Digit Test." Press ENTER.

3 /

The screen will display "Segment Test" and "Segments Off". Press the down arrow once to display "Segments On". When all segments are on, all digits should display "8"

4 /

Press the down arrow again to display "Digits Count". All digits should continuously count from 0-9

5 /

If all digits turn on and count, the installer can then turn off the wireless controller.

Congratulations!

You've successfully installed your Varsity Scoreboard!

If any problems arise, please have the installer call Varsity Scoreboards Customer Service at 800-411-3136 while the installer is still present at the scoreboard.

