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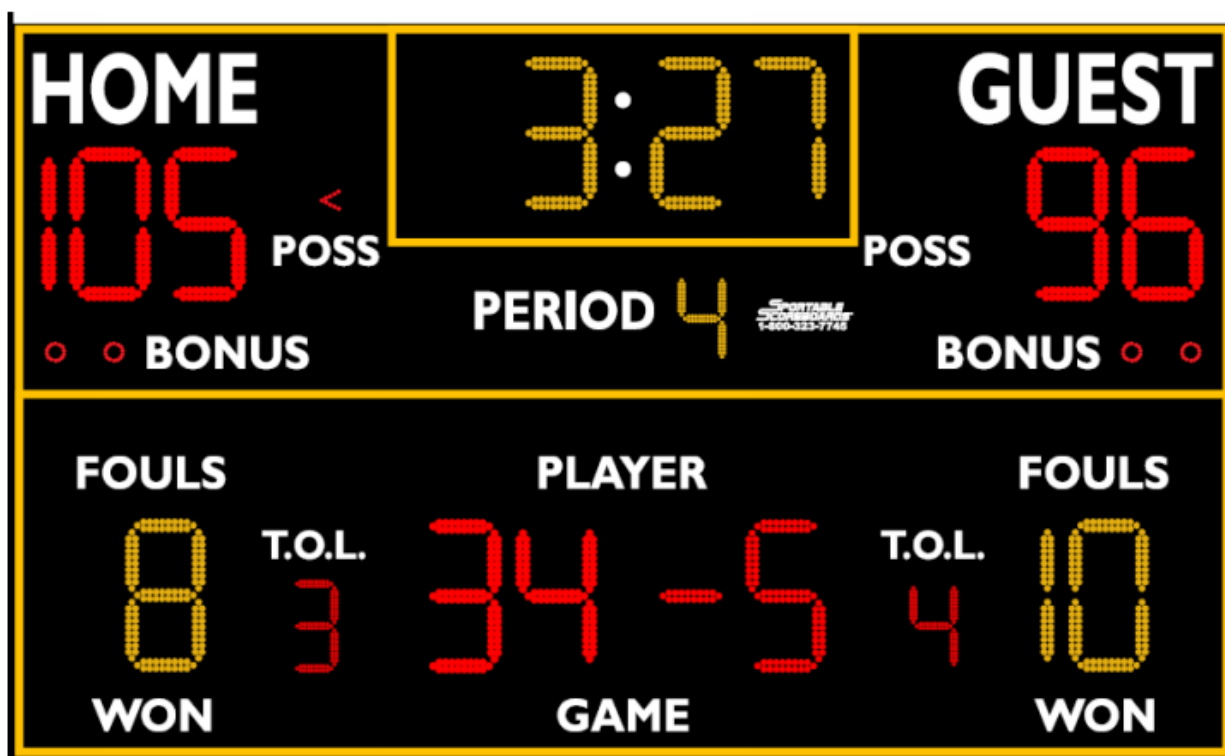
INSTALLATION INSTRUCTIONS FOR

MODEL GS-225 SCOREBOARD

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MODEL GS-225
10' X 6' INDOOR SCOREBOARD

NOTE TO INSTALLERS: PLEASE RETURN THIS MANUAL TO THE INDIVIDUAL IN CHARGE OF THE SCOREBOARD UPON COMPLETION OF INSTALLATION.

The scoreboard and all accompanying accessories have been carefully inspected and tested before leaving the factory. However, it is possible for damage to have occurred during shipping. Therefore, we ask that you inspect all shipping containers upon arrival for damage and ensure that you have all of the parts listed below. If you find that damage has occurred during shipping: **DO NOT refuse the shipment, follow the instructions for filing a freight damage claim found below, and notify the manufacturer immediately.**

THE SCOREBOARD SYSTEM SHOULD INCLUDE THE FOLLOWING PARTS:

ITEMS IN LARGE PACKAGE
> 10' x 6' scoreboard; shipped in one (1) section

ITEMS IN ACCESSORY BAG
> (1) Keyboard controller with keypad inserts
> (1) 12-volt DC wall transformer for standard controller

Cable-controlled systems (standard):
> (1) Junction box covers with built-in 5-pin din socket
> (1) 20-ft. din cable with male 5-pin plugs
> (1) 150' roll of control cable or longer if customer specified

For wireless systems (Optional):
> (1) Wireless transmitter with interface cable
> (1) Keyboard mounting bracket for transmitter

Optional parts:
> 21" x 10' sponsor panel(s) shipped in one (1) section
> Mounting brackets for sponsor panel and accompanying hardware
> Internal Battery Pack for LCD Keyboard Controller
> Electronic Message Center
> Scoreboard Protective Net
> Controller Carry Case
> Wireless Remote Control System
> Wireless Remote Control Battery Option

NOTE: INSTALLATION HARDWARE NOT SUPPLIED. CHECK LOCAL CODE FOR REQUIREMENTS. ANCHORS, BOLTS, CHAINS, CABLES AND RELATED HARDWARE MUST MEET MINIMUM WEIGHT REQUIREMENTS.

INSTRUCTIONS FOR REPORTING SHIPPING DAMAGE

Shipping damage must be noted at the time of delivery. Consignee must note on the "Delivery Receipt" form DAMAGED. Please make notations of the type of damage to the freight and to the packaging. Ask the delivery driver to call the local terminal and report immediately. The shipper is not responsible for the shipments that are not signed for as damaged upon arrival. Please contact the manufacturer immediately to report. The shipper is responsible for filing the claim, unless shipped 3rd party.

If damage is discovered after delivery, call the delivery company to report the concealed damage and please call the manufacturer immediately to report. **Concealed damage must be reported within 5 days after the delivery date**. If the damages are found after this time, the manufacturer will not be responsible.

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. Use this guide as closely as possible to ensure proper installation, as follows:

1. Review the product specifications below to determine your specific installation hardware.
2. Mount the scoreboard to the wall or suspend it from a ceiling structure.
3. Install the electrical service for the scoreboard and the controller.
4. Install the control cable for cable-controlled systems <u>**NOTE**</u>: **DO NOT run the signal cable and power to the scoreboard in the same conduit or race way**. No additional installation is necessary for Wireless Remote Control systems.
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:

10' L x 6' W x 8" D, shipped in one (1) section

Weight:

Hanging weight
Approx. 270 lbs

Shipping weight
Approx. 355 lbs

Power Requirements:

Scoreboard:
1. 1 - 120-volt, 20-amp, 60 Hz grounded AC circuit. Ideally, this will be a dedicated circuit.
2. Access must be provided to turn off the power to the scoreboard after each use. Failure to turn off the power to the scoreboard could affect the functionality of the scoreboard; such as from a power surge or lightning strike.
3. It is important to utilize the equipment ground inside the scoreboard cabinet at the utility box provided for the AC power connection.

Keyboard controller:
- 1 - 120-volt, 15-amp, 60 Hz grounded AC circuit - standard wall receptacle.

Communication Cable Requirements (for cable-controlled systems only):
Four conductor cable – 28 gauge, twisted pair (two pairs), shielded data cable

MOUNTING THE SCOREBOARD TO A WALL

NOTE: Use hardware appropriate for the wall type you are mounting to and capable of supporting the weight of the scoreboard. No mounting brackets are necessary as the pre-drilled mounting flanges on the top and bottom of the scoreboard are provided to mount the scoreboard directly to the wall. The scoreboard must be attached to the wall securely through all mounting holes in the top and bottom mounting flanges. (See the figure on page 6 for location of mounting holes and mounting flanges.)

1. Use hardware appropriate to the surface to which the scoreboard will be mounted. For concrete block walls, the use of bolts and anchors is recommended. No mounting brackets are necessary as the pre-drilled mounting flanges on the top and bottom of the scoreboard are used to mount the scoreboard directly to the wall. The scoreboard must be attached to the wall securely through all mounting holes in the top mounting flange and all mounting holes in the bottom mounting flange.

2. If anchors are to be used, use the pre-drilled mounting holes in the top and bottom mounting flanges as a template for marking the drill locations for the anchors, move the scoreboard away from the wall and drill the holes for the anchors. Install the anchors in the wall.

3. Connect a lift device to the hanging brackets on the top of the scoreboard and lift the scoreboard into place. Cardboard or foam packaging can be used as a pad between the lift and scoreboard to protect the face of the scoreboard. Remove the antenna from the scoreboard if your system is wireless. (See the figure below for location of hanging brackets.)
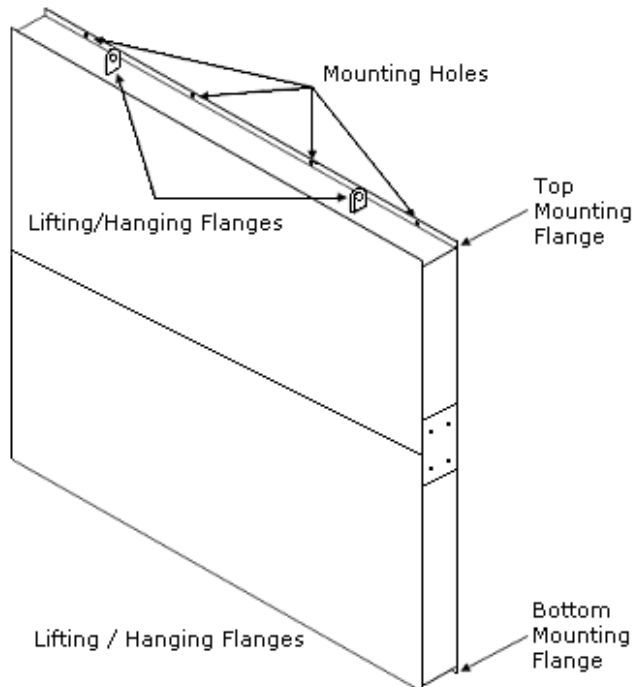
4. Lift the scoreboard to the desired location and mark the holes in the top and bottom flanges. It may be necessary to mark the top flange, install anchors, and secure the top of the scoreboard before having access to the bottom flange. Ensure that you use all four mounting holes in the top and bottom flanges.

5. Replace the antenna if your system is wireless.

HANGING THE SCOREBOARD FROM THE CEILING

NOTE: CARE MUST BE TAKEN NOT TO DAMAGE THE SCOREBOARD WHILE LIFTING IT INTO PLACE. IF THE SCOREBOARD WILL BE "AGAINST" THE LIFTING DEVICE, PLACE CARDBOARD OR PACKING FOAM BETWEEN THE LIFT AND THE SCOREBOARD BEFORE LIFTING.

NOTE: It is recommended that the cables that will be used to permanently suspend the scoreboard be attached to the ceiling structure first, then to the scoreboard's hanging brackets after it is lifted into position using a lifting device.

1. If eye bolts, cables or chains are to be used to suspend the scoreboard, ensure that they are capable of supporting the weight of the scoreboard. Choose one of the following methods to get the scoreboard into place:

   • Connect the cables or chains you will use to suspend the scoreboard to the hanging brackets on top of the scoreboard cabinet using "C" clips or clevises. Connect the strap, cable, or chain you will use to lift the scoreboard to the two outside mounting holes in the top rear flange.
   OR:
   • Connect the cables or chains you will use to suspend the scoreboard to the hanging brackets on top of the scoreboard cabinet using "C" clips or clevises. Connect the strap, cable, or chain you will use to lift the scoreboard to the same "C" clips or clevises.

2. If the scoreboard will be against the lift during lifting, place cardboard or foam between the lift and scoreboard to protect the face of the scoreboard.

3. Lift the scoreboard into place. Check clearance during lift. Connect the suspension system and lower the scoreboard until its weight is on the suspension system and disconnect the lifting cables from the scoreboard.

4. Place a level in the top channel of the scoreboard cabinet to see if adjustments need to be made.

(See illustration on Page 5 for location of hanging brackets.)

RUNNING & CONNECTING THE CONTROL CABLE

(For Scoreboards with Wireless Remote Control, skip this step.)

The control cable must be run in a separate conduit than is used for the electrical service. The control cable should run from the scoreboard to a location that is within 10 feet of the scorekeeper's location and into a 2"X4" wall box.

NOTE: IF THE WIRES IN YOUR CABLE DO NOT COLOR MATCH WHAT IS SHOWN, CONNECT TO THE TERMINALS WITH THE BLACK, GREEN, AND WHITE CONDUCTORS. MATCH THE SAME COLORS IN YOUR CABLE TO THE BLACK, GREEN, AND WHITE WIRES ON THE BACK OF THE WALL PLATE AT THE SCORING LOCATION.

At The Scorekeeper's Location:

1. With the communication cable installed between the scoreboard and the 2"X4" wall box, locate the wall plate provided with your installation hardware.


2. The back of the wall plate has a label indicating how the connections are to be made. Likely, the insulation will not be the same color on the wires in the cable as that on the wires on the back of the wall plate. Follow the chart if possible, but more importantly; whatever the match-up is at the wall plate should also be the match-up at the scoreboard.

3. Secure the junction box cover to the installed junction box.

At The Scoreboard:

1. Open the module access door (HOME score display) by removing the screws securing it.

2. Inside the scoreboard, connect the control cable leads to the appropriate terminals on the terminal block, according to the label above the terminal block.
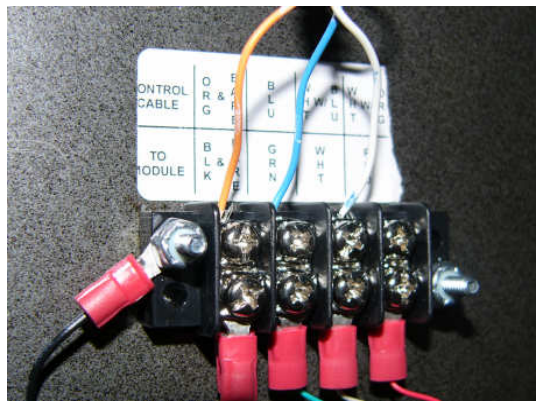
3. Close and secure the module access door.

RUNNING & CONNECTING THE ELECTRIC SERVICE

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1. The scoreboard has a ½" knock-out on the top left corner for bringing in the electrical service. It can be enlarged if the conduit size is ¾". This is where the conduit from the power source needs to terminate.

2. Open the "Home" score, which serves as an access panel and locate the 2"X4" utility box, see image below.
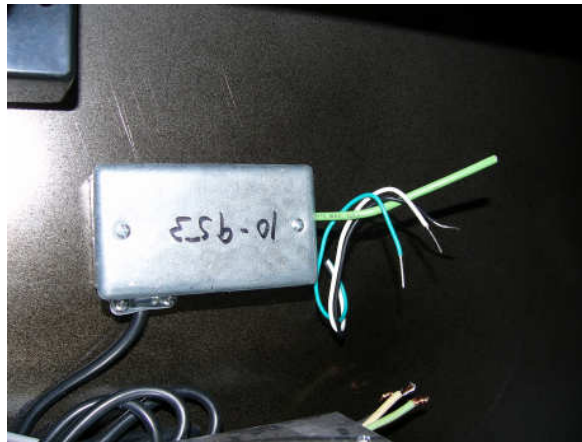
3. Remove the cover on the utility box and route the power supply wiring to the utility box.

4. The connections are standard black, white, and green (ground). Included is a utility ground which must be used. Make up the power supply connections and replace the utility box cover.

5. Close the "Home" score access panel.

IMPORTANT SHOT CLOCK INSTALLATION NOTE!

For instructions on the installation of shot clocks, including how to connect them to the scoreboard, please refer to the installation manual included with the shot clocks.

TESTING THE INSTALLED SYSTEM

At Start-Up: When the scoreboard is initially powered up, it should display "zeros" in the Home and Guest scores and a "one" in the Period for at least 45 seconds. If the controller has not been turned on and either RESET or ENTER has not been pressed within that time period, the scoreboard may revert to a "power saving" mode, where the Period continually flashes an "8". This is normal and should change to the start-up values at the time either the RESET or ENTER keys have been pressed. Follow the instructions below to verify the operation of the scoreboard.

Testing The Scoreboard System:

1. Turn the power to the scoreboard *ON* using the power disconnect switch or circuit breaker.
2. If your scoreboard is a cable system, verify that all cable connections are properly terminated and that the 20' supplied cable is properly connected on both the back of the controller and at the junction box.
3. If your scoreboard is a wireless system, verify that the radio transmitter interface cable is connected to both the transmitter and also one of the DIN sockets on the back of the controller.

4. The HOME and GUEST scores should display a "0" and the PERIOD should show a "1".
5. Use the controller keys to verify that all sections of the scoreboard respond properly.

   Example: Add scores to both teams increase the PERIOD, use the BONUS keys.

6. If the scoreboard displays a flashing "8" in the PERIOD position, this is an indication of no signal communication between the scoreboard and controller. Check all communication cable connections and press RESET on the controller. If the flashing "8' remains, contact Technical Support @ 1-800-411-3136

NOTE: Always turn both the controller and the scoreboard *OFF* after each use. If the controller is turned *OFF* but the scoreboard remains *ON*, (or if the controller loses communication with the scoreboard), the scoreboard's INNING digit will begin to flash with the rest of the displays blank. This feature is intended to remind the user to turn power to the scoreboard *OFF* after each use.

IMPORTANT!
Warranty Activation/Installation & Completion Sign Off Sheet

NOTE: This sheet must be completely filled out and returned/faxed (270) 753-3773 to Scoreboard Service Company before your warranty can be activated.

Your Serial Number _____

Your Model Number _____

Date Purchased   _____

Sales Agent   _____

Person Authorizing Purchase (title) _____

Date Installation Completed   _____

Company or Person Responsible
For Installation (address/phone number) _____

_____

This document confirms that the installation for the 10' x 6' Basketball Scoreboard has been completed. All structural, wiring, and power requirements have been met. This unit has been tested in scoring and diagnostic modes, ensuring the functionally of the unit.

_____
Scoring/timing equipment responsible party

_____
Installer

So that we may better serve you, please have this information available in the event you need to call technical support. Technical Support: 1-800-411-3136