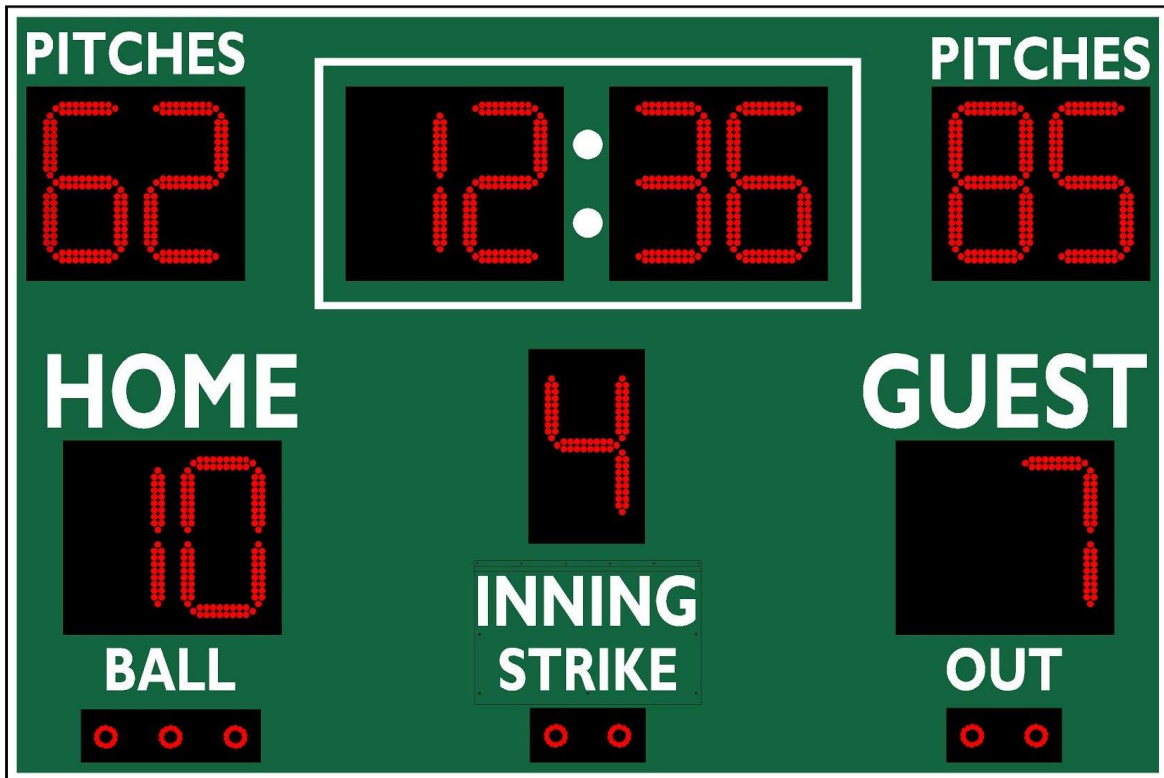




INSTALLATION INSTRUCTIONS FOR



MODEL 3355

www.varsityscoreboards.com

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DESCRIPTION

3355 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 so 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. Instead, accept the shipment from the carrier, 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(S)

- (1) 9' X 6' Baseball Scoreboard, shipped in (1) section

ITEMS IN ACCESSORY BAG

- (1) Keyboard controller with keypad inserts
- (1) 12-volt DC wall transformer

Cable-controlled systems (standard):

- (1) 20-ft. control cable
- (1) Junction box covers with built-in 5-pin din socket
- (1) Customer-specified length of control cable

Wireless systems (optional):

- (1) Wireless transmitter built into keyboard controller

INSTRUCTIONS FOR REPORTING SHIPPING DAMAGE

Shipping damage must be noted at the time of delivery. Consignee must note "DAMAGED" on the Delivery Receipt Form. 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 damage. 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 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. Determine the scoreboard's location and orientation.
3. Install the mounting poles/I Beams (supplied by the customer).
4. Mount the scoreboard to the poles/I Beams (**mounting hardware supplied by customer**).
5. Install the control cable for cable-controlled systems (**not necessary for Wireless Remote Control systems**).
6. Install the electrical service for the scoreboard and the controller.
7. Install any options, such as sponsor panels or protective nets, according to the installation instructions included with each option package.
8. Test the installed system.
9. Fax/return warranty activation sheet to Scoreboard Service Company at (270) 753-3773.

PRODUCT SPECIFICATIONS

Overall Dimensions:

9' L x 6' W x 8" D - shipped in one (1) section

Weight:

Hanging weight = approximately 250 lbs
Shipping weight = approximately 300 lbs.

Mounting Recommendations:

(2) 8" steel I-beams (W8 x 31) **OR** (2) 8" OD galvanized steel poles (schedule 40); Total length determined by local codes, customer preferred mounting height, and scoreboard options.

Power Requirements:

Scoreboard:

(1) 120-volt, 20-amp, 60 Hz grounded AC circuit connected to a power disconnect switch or circuit breaker (refer to the wiring diagram on page 9 for instructions on determining the scoreboard's power requirements – specific power requirement information is also marked on the scoreboard's serial number label, located on the scoreboard)

Keyboard Controller:

(1) 120-volt, 15-amp, 60 Hz grounded AC circuit in a standard duplex outlet (optional if an internal battery pack was purchased with the controller)

Cable Recommendations (for cable-controlled systems only):

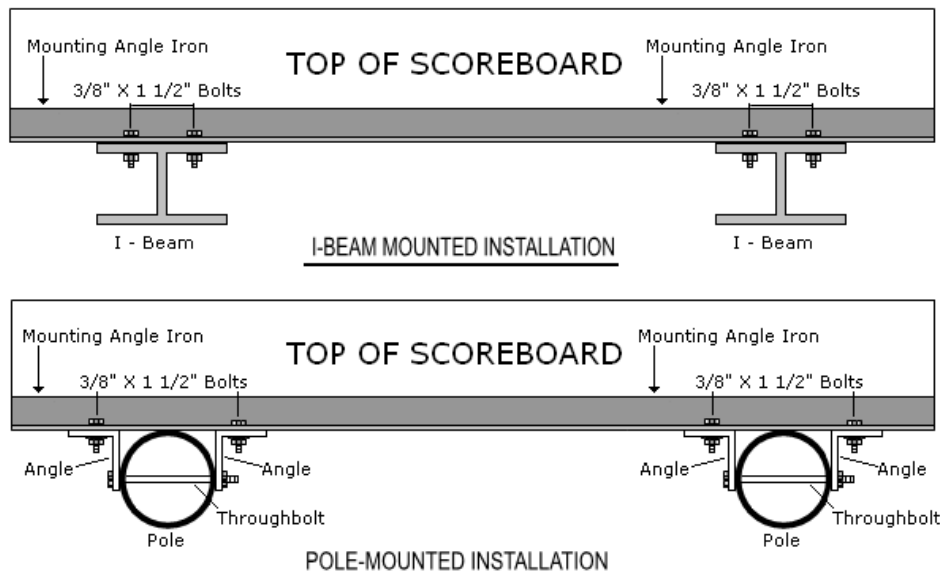
Four conductor cable – 28 gauge, twisted pair (two pairs), shielded data cable

DETERMINING LOCATION AND 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 of 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.

Helpful Installation Tips:

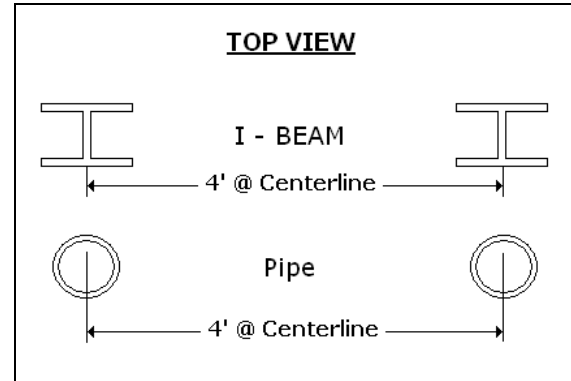
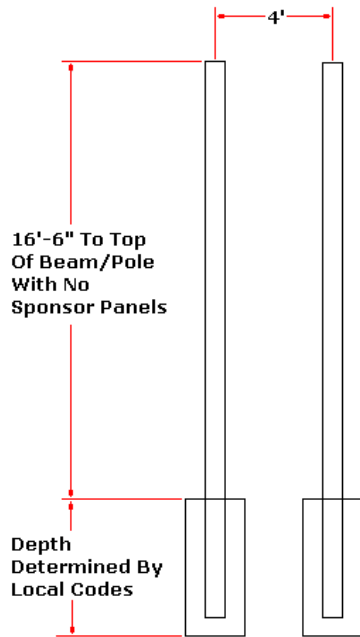
- When removing the scoreboard from its packaging, do not pry against or cut into the scoreboard. Cut the packing straps and remove the box.
- Inspect the unit for shipping damage according to the instructions on page 1.
- When installing the poles/I-beams that support the scoreboard, it is important to keep the spacing accurate and the faces straight. If you are using beams, a good way to keep the faces straight is to clamp a length angle to the beams as they are placed, and if necessary, provide bracing until the concrete has cured. The poles/beams should be allowed to stand overnight for the concrete to cure enough to support the scoreboard.



INSTALLING MOUNTING POLES OR I-BEAMS

NOTE: 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.

1. Install the two (2) mounting poles/I-beams (supplied by the customer) on the field with 4' center spacing and with 16'-6" of pole/I-beam above ground (refer to the figures below).



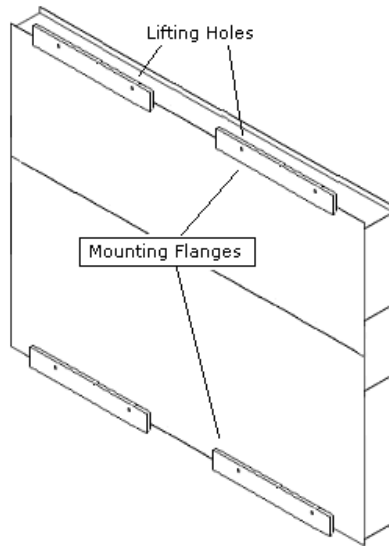
2. The poles/I-beams must be set into concrete footers. Make sure the poles are level and plumb and spaced on 4' centers. The mounting faces of I-beams must be straight with each other. If the face of an I-beam is turned, shims will be needed to mount the scoreboard. The required dimensions for the footers vary depending on local building codes, soil & weather conditions, and scoreboard size. 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.

IMPORTANT: DO NOT MOUNT THE SCOREBOARD TO A WALL. A MINIMUM OF 18" – 24" CLEARANCE MUST BE MAINTAINED FOR ACCESS TO THE BACK OF THE SCOREBOARD CABINET. POWER, AND SIGNAL CABLE CONNECTIONS ARE ACCESSED ON THE BACK OF THE SCOREBOARD.

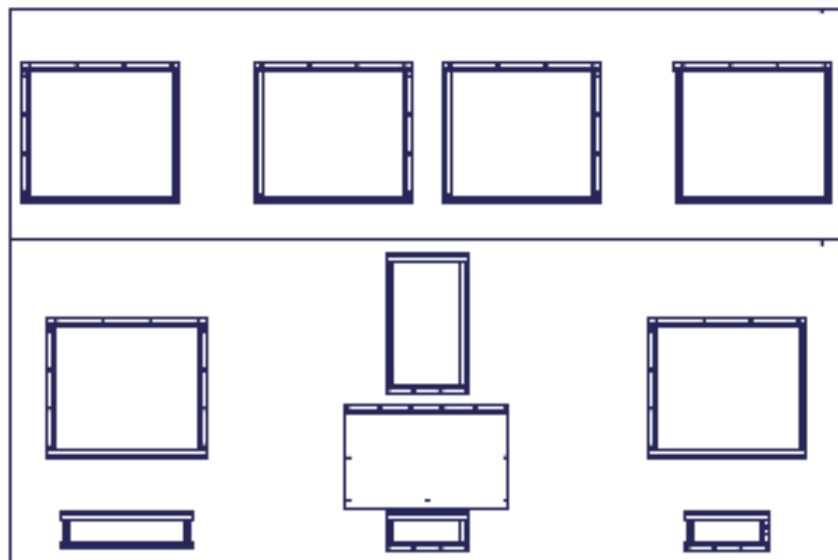
MOUNTING THE SCOREBOARD

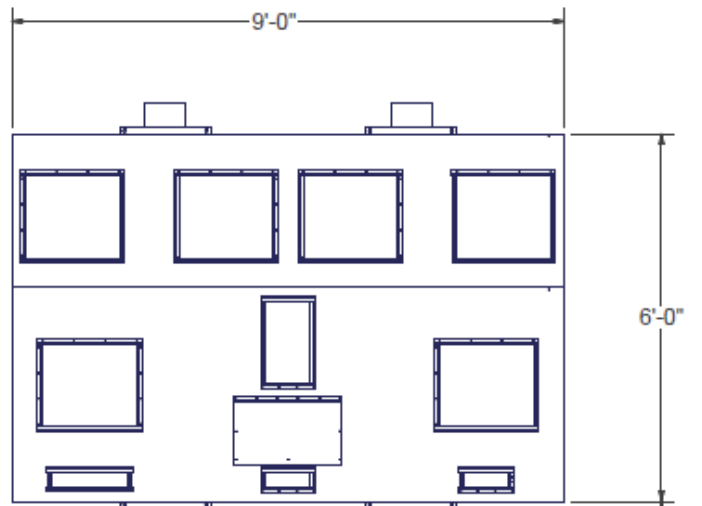
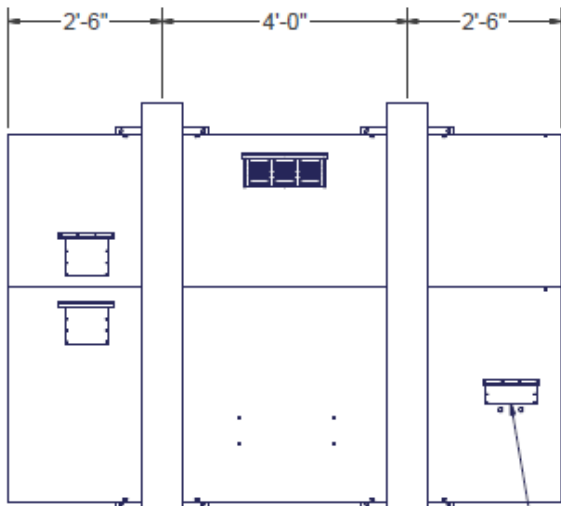
NOTE: IF THE POLES/I-BEAMS ARE NOT IN ALIGNMENT --- SHIMS MAY BE NEEDED TO MOUNT THE SCOREBOARD PROPERLY. MOUNTING THE SCOREBOARD WITH THE POLES/I-BEAMS OUT OF ALIGNMENT MAY DAMAGE THE SCOREBOARD AND VOID THE WARRANTY.

1. Using the lift holes provided, connect a lift device to the scoreboard, as shown in the image below.



2. Lift the scoreboard into place to the desired height, ensuring that the scoreboard is level.
3. Secure the scoreboard to the poles/beams using the mounting flanges attached to the scoreboard. The unit must be attached to each pole/beam on top **and** bottom.
4. If using steel I-beams, either weld the mounting flanges to the supports, or drill the mounting flanges and supports to use bolts, washers, and nuts to secure the scoreboard to the I-beams.
5. If galvanized steel poles are being used, weld or bolt steel angles to the mounting flanges, which can then be welded to or bolted *through* the pole. Refer to the figure on the next page for detailed illustrations of these suggested mounting methods.





POWER ACCESS

10'-0"

DEPTH AND SIZE DETERMINED BY LOCAL CODES

RUNNING/CONNECTING THE CONTROL CABLE

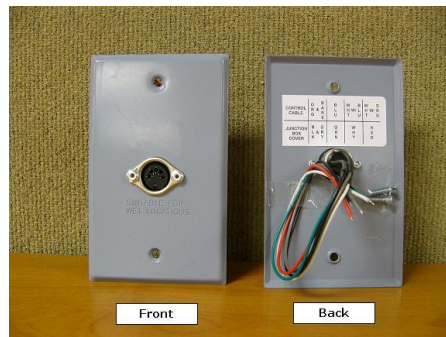
(For scoreboards with Wireless Remote Control, skip this step.)

The control cable may be buried with or without conduit if the cable is direct burial-rated. Direct burial-rated cable in conduit is recommended for extended trouble free use. If the cable is not direct burial-rated cable, then it must be buried in a sealed, watertight conduit. The same is true for the electric cable powering the scoreboard. Both cables may be buried in the same trench but they must be kept at least 6" apart. If conduit is required for both, separate conduits must be used.

The control cable should run from the scoreboard to a location that is within 10 feet of the scorekeeper's location. Here, the supplied junction box cover should be installed on a 2x4, single-gang junction box. The keyboard will connect to the receptacle on the junction box cover via the included 20-ft. control cable.

At the scorekeeper's location:

- Bring the control cable into a 2x4 single-gang junction box located within 10 feet of the scorekeeper.
- Connect the leads inside the control cable to those on the junction box cover according to the label on the junction box cover. Refer to the installation diagram on the following page for more information.

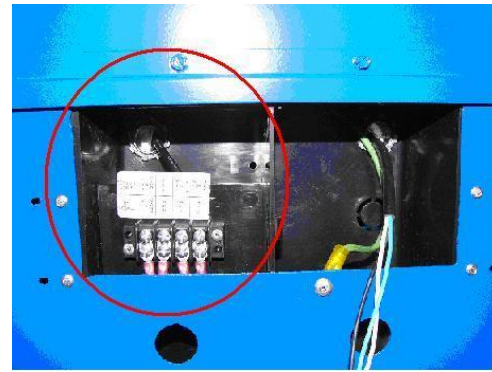
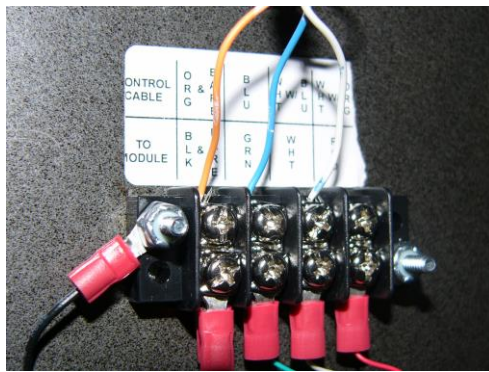


NOTE: IF THE WIRES IN YOUR CABLE DO NOT COLOR MATCH WHAT IS SHOWN ABOVE, CONNECT TO THE TERMINALS WITH THE BLACK, GREEN, AND WHITE CONDUCTORS. DO NOT CONNECT A WIRE TO THE RED TERMINAL. MATCH THE SAME COLORS IN YOUR CABLE TO THE BLACK, GREEN, AND WHITE WIRES ON THE BACK OF THE WALL PLATE AT THE SCORING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

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

At the scoreboard:

- Remove the signal/power access door located on the back of panel A. For access door location, refer to the diagram on the following page.
- From the ground, run the control cable through sealed, raintight conduit then through a raintight conduit fitting into the left side of the signal cable/power access door and into the scoreboard.
- Inside the scoreboard, connect the control cable leads to the appropriate terminals on the terminal block, according to the label above the terminal block.



NOTE: If the colors of the wires in the control cable differ from those referenced on the label or shown in the following diagrams, refer to the notes you made when connecting the control cable to the junction box cover at the scorekeeper’s location. Ensure that each lead on the junction box cover is connected to the same color lead on the scoreboard terminal block, regardless of the color(s) of the wires in the control cable that connect them.

- Re-secure the signal/power access door to the scoreboard.

NOTE: Even if the control cable was not buried in conduit, it must be run in sealed, watertight, conduit from the ground up to the signal cable/power access door located on the back of the scoreboard. Here, it must pass through a rain-tight conduit fitting where it will connect to the signal cable terminal block inside the scoreboard. Refer to the installation diagram on page 7 for a detailed illustration.

RUNNING/CONNECTING THE ELECTRICAL SERVICE

NOTE: HAVE A LICENSED, QUALIFIED ELECTRICIAN RUN THE ELECTRICAL SERVICE AND CONNECT IT TO THE SCOREBOARD IN ACCORDANCE WITH THE DIAGRAM ON THE FOLLOWING PAGE. A WATERTIGHT, NON-FUSIBLE DISCONNECT SWITCH, A 20-AMP GROUND FAULT INTERRUPTER, AND A SAFETY GROUND SHOULD BE INSTALLED FOR THE 20-AMP CIRCUIT CONNECTED TO THE SCOREBOARD. A 120-VOLT CIRCUIT MUST ALSO BE INSTALLED IN A STANDARD DUPLEX OUTLET AT THE SCOREKEEPER’S LOCATION FOR THE CONTROLLER’S 12-VOLT DC WALL TRANSFORMER. IF A BATTERY PACK WAS PURCHASED WITH THE CONTROLLER, THIS OUTLET BECOMES OPTIONAL.

TESTING THE INSTALLED SYSTEM

NOTE: Please refer to the OPERATORS MANUAL to operate the scoreboard.

Connecting cable-controlled systems:

Connect one end of the supplied 20-ft. control cable into either of the two control cable jacks on the back of the controller and the other into the receptacle on the supplied junction box cover installed at the scorekeeper’s location.

Using the wireless system:

Simply power on the LCD keyboard controller – the wireless transmitter is internally mounted.

Testing the scoreboard system:

- Connect the appropriate end of the 12-volt DC wall transformer to the power receptacle on the back of the controller. Plug the transformer into a live, 120-volt outlet. If the optional battery pack was purchased with the keyboard, the transformer is also used to charge the battery.
- Turn the power to the scoreboard *ON* using the power disconnect switch or circuit breaker. The **BALL, STRIKE AND OUT** displays should read “0” and the total **RUNS SHOULD READ “0”** with the rest of the scoreboard blank.
- With the controller *OFF*, press and hold the **OPTION** key while turning the controller *ON*. The controller’s LCD will display “**Diagnostic Menu / Dist Msg File**”. Press the **DOWN ARROW** to go to **Digit Test** and press the **ENTER** key. The LCD should display “**All Digits Off**”.

NOTE: None of the scoreboards components should be lit at this time. If any components are lit, especially with a solid “8”, check the crossover connections between cabinets. Ensure that the red stripes on the ribbon cables are matched where they are connected.

- Pressing the **UP** arrow (located on the far right of the controller’s keypad) will cycle the scoreboard into “digit count” mode and all displays on the scoreboard will count 0-9 repetitively. Pressing the **UP** arrow again will cycle to “**<ALL ON>**”, and all components should display an “8”. At this time, take a look at the segments of each component for LEDs that are not lit.
- To exit the diagnostic mode, press the **RESET** key twice.
- If all components pass this test, the installation is complete.

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 *STRIKE* digit will begin to flash. This feature is intended to remind the user to turn power to the scoreboard *OFF* after each use.

NOTE: To activate your warranty, your check off sheet must be signed and returned/faxed to Sportable Scoreboards Inc. A copy of this sheet should be placed with your Installation/Operators Manual in the event technical support is needed. Fax number (270) 753-3773

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 6-ft.x 9-ft. Baseball 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 functionality 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. Customer Service: 1-800-411-3136