

# MacGregor

## INSTALLATION INSTRUCTIONS FOR



**MODEL MSBULTB LED**  
[www.bsncp.com](http://www.bsncp.com)

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# MODEL MSBULTB LED 3' 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**

- (1) 3' x 6' scoreboard; shipped in one (1) section

**ITEMS IN ACCESSORY BAG**

- (1) Handheld controller with keypad insert
- (1) Wall transformer Input: 120-volts AC, Output: 10-volts AC
- (1) CD ROM (including installation, operation, maintenance, warranty, and support information)

**Cable-controlled systems (standard):**

- (1) Control cable (to connect scoreboard to controller or extension cable)
- (1) 100 ft. extension cable

**For wireless systems (Optional):**

- (1) Handheld controller with internal 900 MHz transmitter
- (1) 900 MHz receiver (connects to the scoreboard, eliminating control cable)

**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 3<sup>rd</sup> 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:

- Review the product specifications below to determine your specific installation hardware.
- Mount the scoreboard to the wall or suspend it from a ceiling structure.
- Install the electrical service for the scoreboard.
- Install the control cable for cable-controlled systems. No additional installation is necessary for Wireless Remote Control systems.
- Install any options, such as sponsor panels or protective nets, according to the installation instructions included with each option package.
- Test the installed system.

## PRODUCT SPECIFICATIONS

### Overall Dimensions:

3'-0" tall x 6'-0" long x 4" deep, shipped in one (1) section

### Weight:

Hanging weight  
Approx. 100 lbs.

Shipping weight  
Approx. 120 lbs.

### Power Requirements:

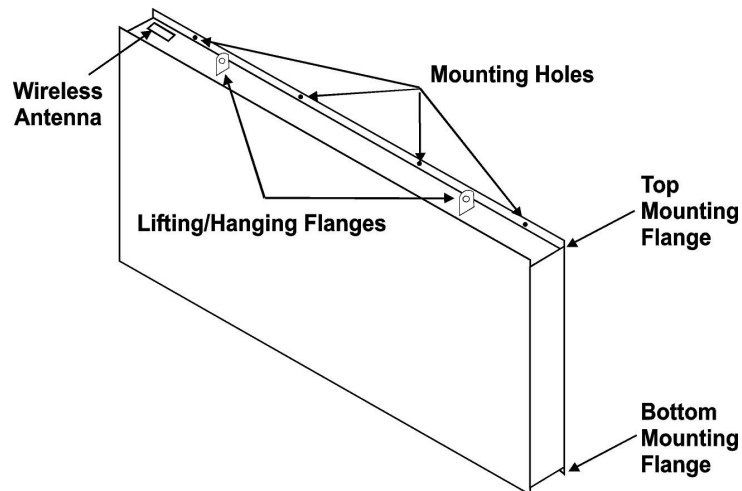
#### *Scoreboard:*

- 1 - 120-volt, 20-amp, 60 Hz grounded AC circuit. Ideally, this will be a dedicated circuit.
- 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.

# 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 four (4) mounting holes in the top and bottom mounting flanges. (See the figure below for location of mounting holes and mounting flanges.)

1. Remove the scoreboard from its packaging, making sure not to pry against or cut into the scoreboard. Inspect the unit for shipping damage according to the instructions on page 3.
2. Connect a lift device to the two 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.)
3. 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.



# HANGING THE SCOREBOARD FROM THE CEILING

1. Remove the scoreboard from its packaging, making sure not to pry against or cut into the scoreboard. Inspect the unit for shipping damage according to the instructions on page 1.

**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.**

2. 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.

3. 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, and remove the antenna from the face of the scoreboard if your system is wireless.
4. 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.
5. Place a level in the top channel of the scoreboard cabinet to see if adjustments need to be made.

**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.**

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

# RUNNING & CONNECTING THE CONTROL CABLE

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

Connect the handheld controller to the scoreboard using the supplied 10 ft. control cable. Plug the appropriate end of the control cable into the jack on the top of the controller and connect the other end of the control cable to the 9-pin connector on the upper left side of scoreboard. If extra length is needed, use the supplied 100 ft. extension cable between the controller and the 10 ft. control cable.

**Upper Left  
Side of  
Scoreboard.**  
Wall  
transformer  
output &  
Control cable  
connection.



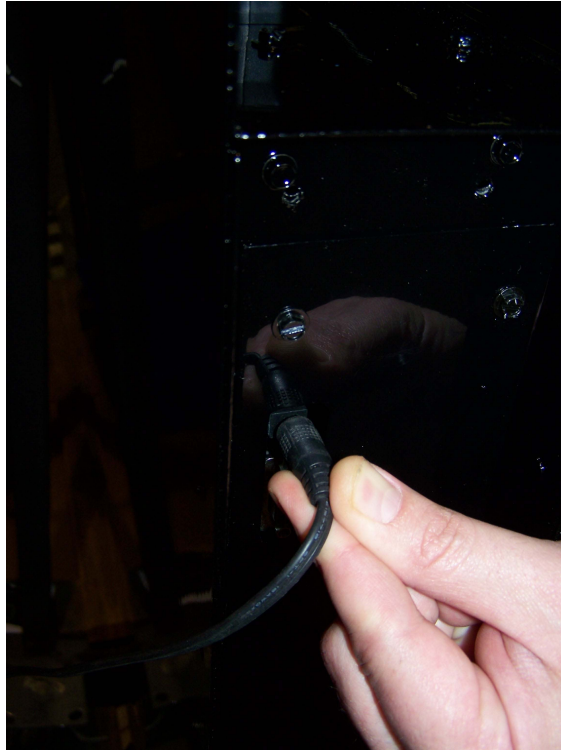
## WIRELESS SYSTEMS

Because the scoreboard utilizes wireless remote control, no cable connections between the hand held controller and the scoreboard are necessary. Before the scoreboard will operate the wireless receiver antenna must be installed to the face of the scoreboard.

## POWER

For convenience and ease of operation, the scoreboard does not have an *ON/OFF* switch. To turn the scoreboard ON, supply power to the scoreboard using the included 10-volt AC wall transformer. To turn the scoreboard OFF, simply unplug the scoreboard's wall transformer. The wall transformer output is also located on the top left side of scoreboard, just about the 9-pin connector.

For wireless systems, the handheld controller operates on 4 AA batteries. To turn the wireless controller on, flip the *POWER* switch to the ON position.



## **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

**NOTE:** Please refer to the OPERATORS MANUAL on the CD, or included with the system to operate the scoreboard.

**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.

## Testing the scoreboard system:

1. Turn the power to the scoreboard *ON* using the 10-volt AC wall transformer.
2. If your scoreboard is a cable system, verify that all cable connections are properly terminated and that the 10 ft. supplied cable is properly connected on both the back of the controller and to the 9-pin connector on the scoreboard.
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.
6. Example: Add scores to both teams, increase the PERIOD, use the BONUS keys.

**NOTE:** To activate your warranty, your check off sheet must be signed and returned/faxed to MacGregor 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 \_\_\_\_\_

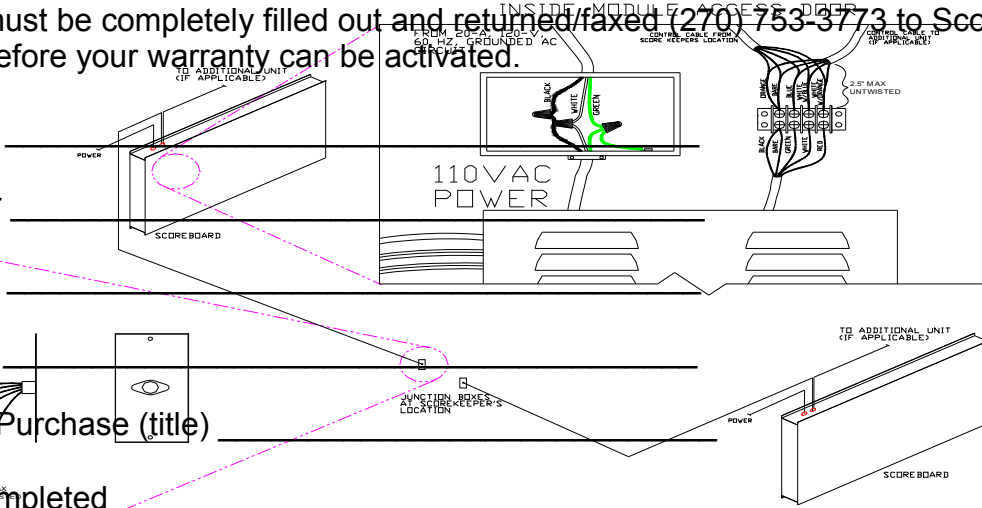
Date Purchased \_\_\_\_\_

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 3-ft.x 8-ft. 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 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