

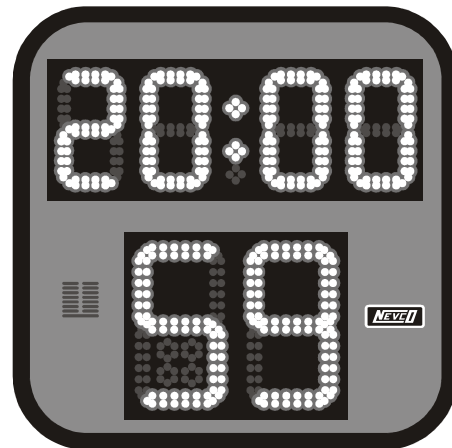
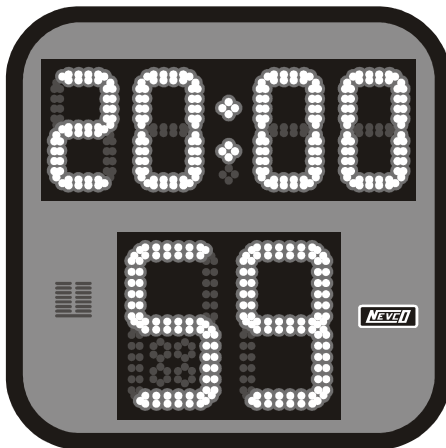
Nevco Scoreboard Company

Installation Manual

Serial No. _____

Model SCD-T5

- Size: 3 ft. x 3 ft. x 9.125 in. (.91 x .91 x 0.23 meters)
- Approximate hanging weight: 44 lbs. (20 kg.)
 - Power requirements 120V, 1 Amp
 - UL Listed/c-UL Listed



*Scoreboards · Message Centers
Video Displays*

Since 1934

Retain this manual in your permanent file.

Thank You

Thank you for purchasing from Nevco Scoreboard Company. Below are some important tips to remember when installing your new equipment.

- Pre-test the equipment before installation.
- Consult National Electrical Code and local codes before installation.

Installation Instructions

Unpacking the Equipment

To protect your new scoreboard system from accidental damage, follow the steps below:

- Carefully remove all equipment from its packing carton. **Do not** pry against the scoreboard in any way. Inspect for damage.

Note: If damage to any equipment contact carrier immediately.

- There is an electronic module located inside each shot clock. Consult the included drawings for the exact location and access method.
- Make sure all plugs are firmly seated in their proper sockets. If some cables are loose or disconnected, refer to **Module Illustration**. This print identifies the function of each module plug and shows where to connect the cables.

Pre-Test Your Equipment

(SCD-T5 Pre-Mounting Test)

- Connect a length of 2-WIRE cable from the BNC connector on the end of the module inside the shot clock to your signal source. (control or receiver) (See installation print for module location)
- Connect the shot clock to a temporary power service. (See installation print for power service requirements.)

- Follow the Control Hookup & Testing Guide to make sure the system operates properly before installing the scoreboard.

Scoreboard Mounting

The installation print shows the mounting centers and location of power. The mounting brackets have a slot 1 ½ in. by ½ in. wide.

Secure at all mounting brackets provided.

The shot clocks are equipped with a splice box for use with conduit.

Always use good mechanical practices when mounting the shot clocks:

- Use a flat washer and lock washer with a minimum 3/8" bolt to prevent vibration from loosening the fastening device.
- Use only plated fastening devices to prevent rust or corrosion.

Power Service Connections

The power service for each shot clock is 120V, 1A, 50/60HZ. This allows a 20 per cent safety factor to eliminate nuisance tripping of the circuit breaker. To eliminate service problems at some future date and the possibility of overloading the circuit breaker, we suggest installing a dedicated service or circuit for the shot clocks. The contractor or installation personnel will determine length and size of the wire to maintain the voltage needed to support the circuit load. We recommend the power service maintain 120V at the shot clock under maximum load.

If conditions permit, the owner may place the power service and the 2-WIRE control cable in the same conduit. The 2-WIRE cable has a dielectric strength of 300 volts or better. Consult the National Electrical Code and local codes for the installation of Class 2 wiring.

WIRED INSTALLATION

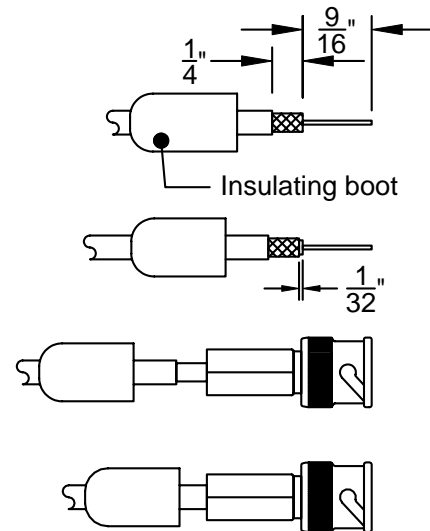
Make connection from BNC connector on end of module inside the Shot Clock to control point. (junction boxes provided)

WIRELESS INSTALLATION

Run coaxial cable provided from BNC connector on end of module inside the Shot Clock to the receiver location.

Installing Cable Connectors

The 2-WIRE cable that comes with your scoreboard does not have connectors attached.

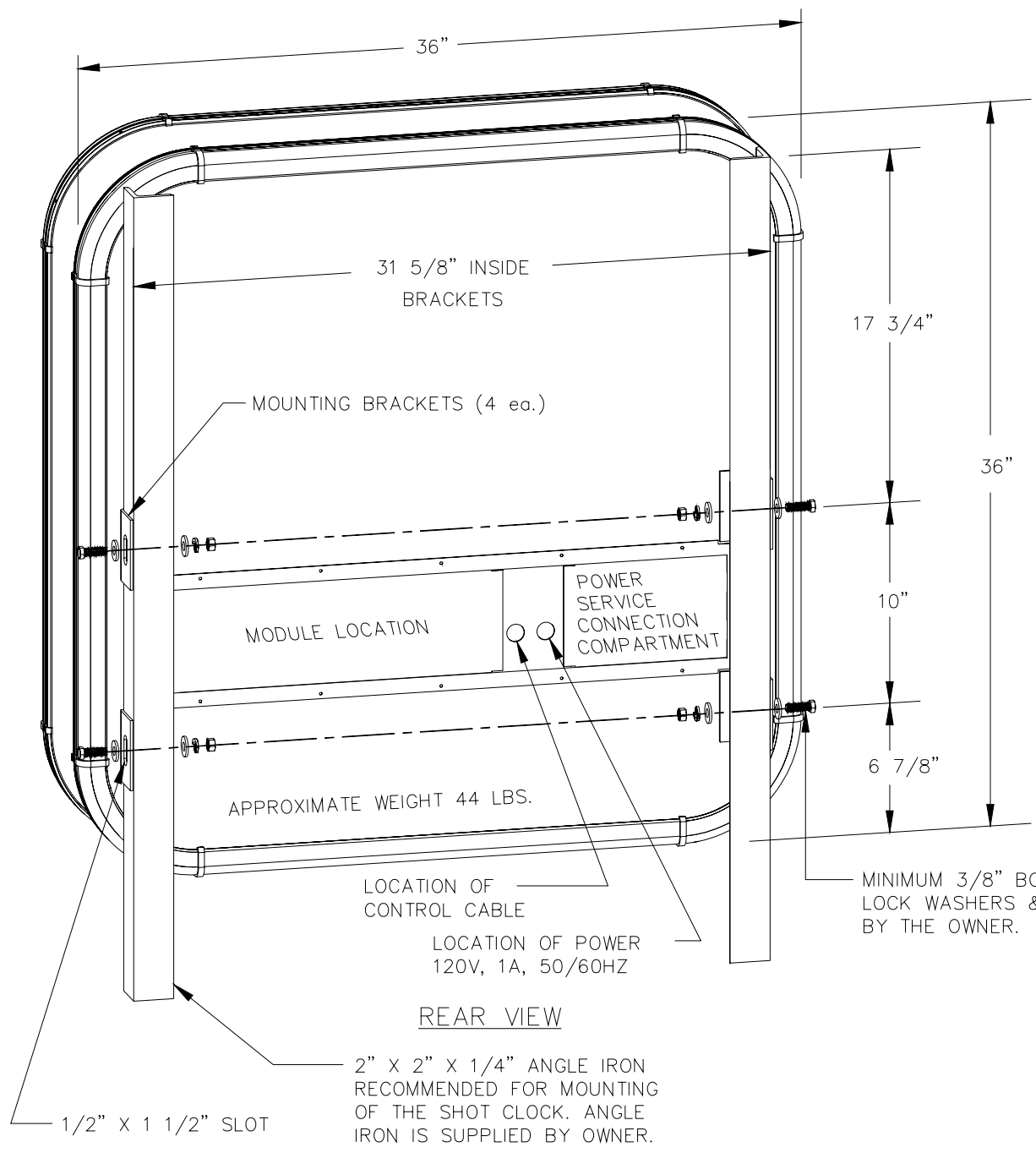


To install connectors on each end of the cable:


- ❑ Slide the insulating boot onto the cable and trim the cable as shown.
- ❑ Twist the outer braid in a **clockwise** direction so that at least 1/32 in. of the inner dielectric is bared and the braid is left flat. Be sure no strands of the outer braid are touching the center conductor.
- ❑ Insert the center conductor into the back of the connector, feeding it into the guide hole.
- ❑ Push the cable as far as possible into the connector.
- ❑ Screw the connector onto the cable in a clockwise direction until the connector stops turning.
- ❑ Slip the insulating boot over the back of the connector.

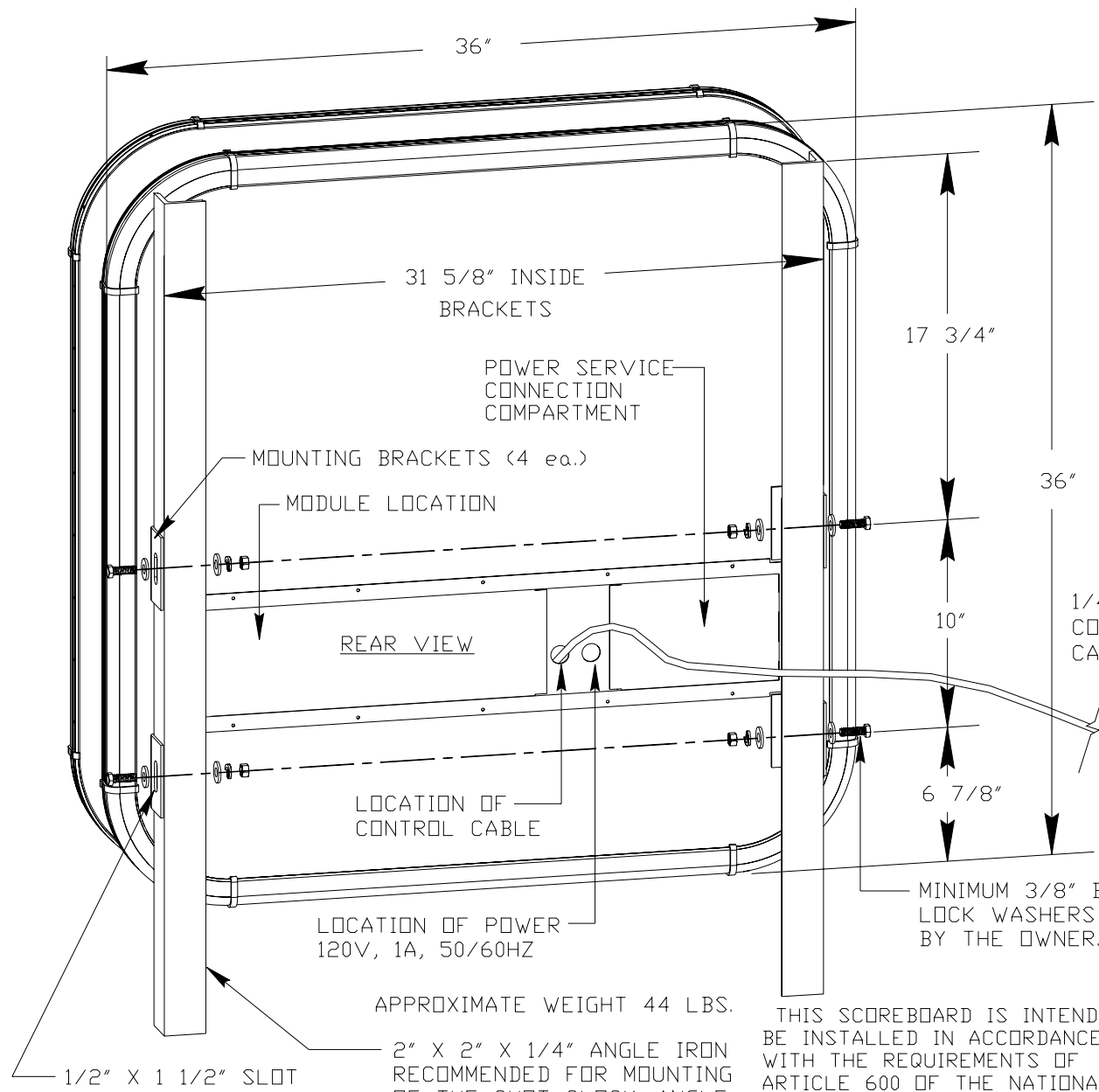
REV
D

A ADDED 50 TO 50/60HZ 5/22/01 BMK
 B UL UPDATE 12/29/03 BMK
 C MANUAL UPDATE 6/28/04 BMK
 D ADDED 2-WIRE OPERATION TO TITLE BLOCK 8/9/05 HW



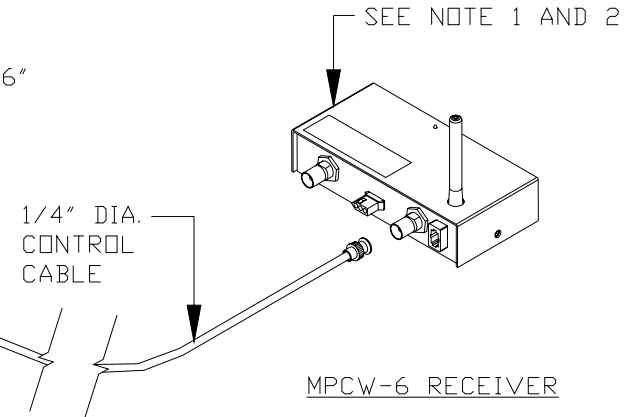
THIS SCOREBOARD IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SCOREBOARD.

INSTALLATION SCD-T5 2-WIRE OPERATION		 NEVCO SCOREBOARD CO. GREENVILLE, ILLINOIS 62246
DRAWN HW	DATE 12/31/96	SHEET 1 OF 1




NOTE

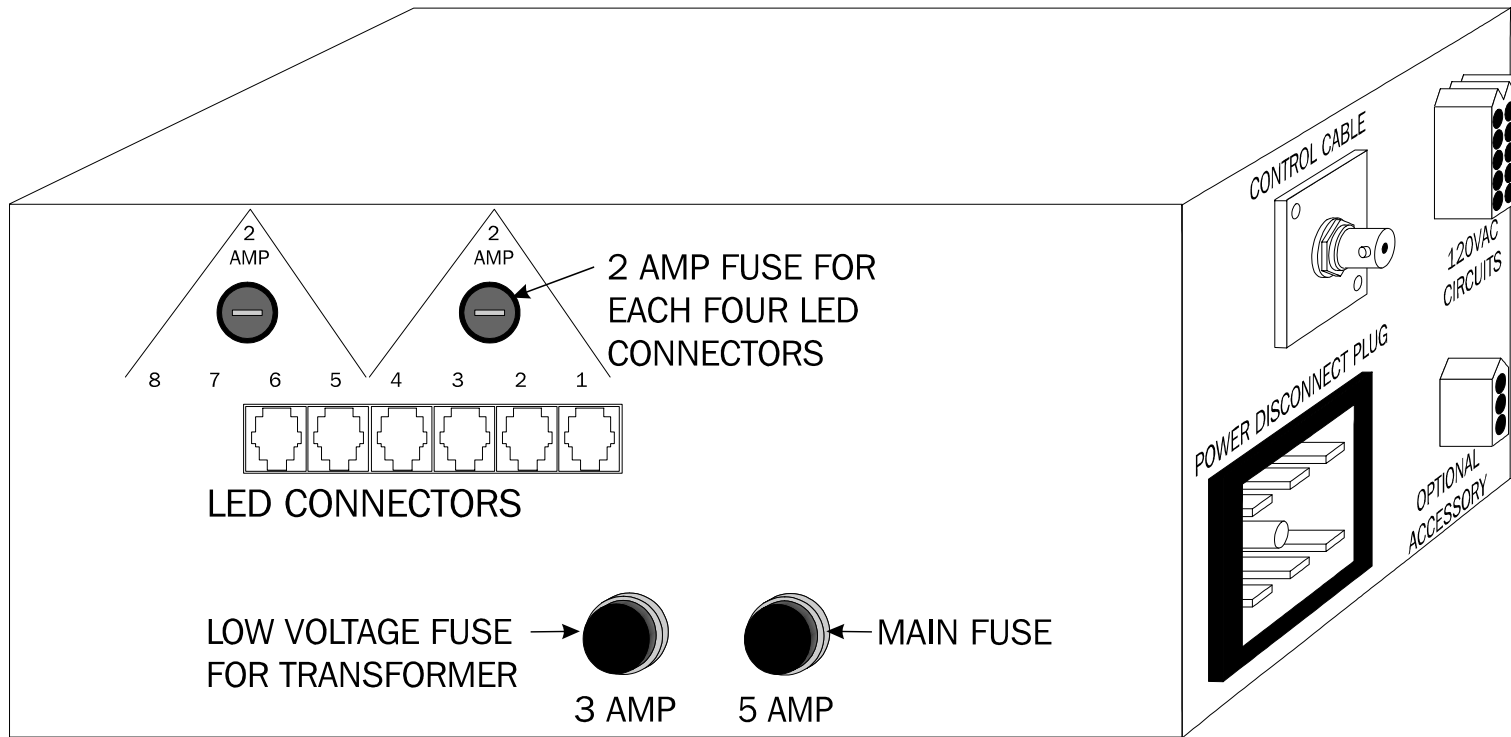
1. FOR MPCW-6 RECEIVER AND CONTROL INFORMATION SEE C9922.
2. FOR OPTIONAL MOUNTING FOR THE MPCW-6 RECEIVER SEE PRINT C9789.



FOR INDOOR USE, DRY LOCATION

THIS SCOREBOARD IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SCOREBOARD.

INSTALLATION FOR SCD-T5 W/MPCW-6 WIRELESS OPERATION		 NEVCO SCOREBOARD CO. GREENVILLE, ILLINOIS 62246
DRAWING NO. C10114		
DRAWN HW	DATE 8/30/05	SHEET 1 OF 1



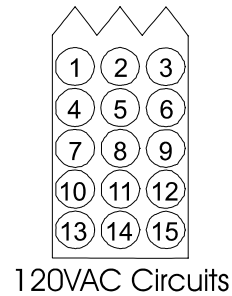
"E" and Error Counter Locations
 Plug 4 = E
 Plug 1 = Counter

LED Connector Functions


- 1 Time Minute Tens
- 2 Time Minute Ones & Colon
- 3 Time Second Tens & Decimal
- 4 Time Second Ones
- 5 Shot Clock Second Tens & Top Right, Bottom Left EOP
- 6 Shot Clock Second Ones & Top Left, Bottom Right EOP
- 7 N / A
- 8 N / A

120VAC Circuits

- 1 N / A
- 2 N / A
- 3 N / A
- 4 N / A
- 5 N / A
- 6 N / A
- 7 Horn
- 8 N / A
- 9 N / A
- 10 N / A
- 11 N / A
- 12 N / A
- 13 N / A
- 14 N / A
- 15 Ground



120VAC Circuits

MODULE ILLUSTRATION FOR M6-50		 NEVCO SCOREBOARD CO. GREENVILLE, ILLINOIS 62246	
DRAWN PEF	DATE 9-12-96	SHEET 1	OF 1

Nevco Scoreboard Company

Scoreboard Testing and Troubleshooting Guide

SCD-5T



COUNT ON US

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Retain this manual in your permanent file.

Scoreboard Module and Operation Testing

Because the microcomputer is capable of “masking” weaknesses in the scoreboard system, it is important that it reveal problems so corrections can be made before they get worse. A special command can be sent from the control to start the **scoreboard self-test** program. Please consult the **Control Hookup and Troubleshooting Guide** for instructions on initiating and terminating the following tests.

Control Signal Test

Consult the **Control Hookup and Troubleshooting Guide** for availability and instructions.

Scoreboard Self-test

Consult the **Control Hookup and Troubleshooting Guide** for instructions on initiating this test.

Light Circuit Test

When the **Scoreboard Self-test** is started, an “E” will appear in the Main Time Seconds Unit’s section of the SCD-5T for about a second before the **Light Circuit Test** starts. One LED segment will illuminate in all digits in succession for two rotations. An eight will then display in one digit at a time for two rotations. Next the End Of Period segments will be tested. This pattern will continue until you either reestablish communications from the control or turn off the power to the scoreboard.

Make careful note of any LED segments that are not illuminating. Contact Nevco Service Department for help.

Troubleshooting Guide

A shot clock malfunction normally results from a component failure or a bad mechanical connection. This troubleshooting guide helps to locate the failure. This information can then be reported to the Nevco Service Department.

NOTE: Turning the control off does **NOT** turn the power off to the scoreboard or other devices.

PROBLEM:

The shot clock does not illuminate even though the control seems to operate correctly.

SOLUTION:

- ❑ Check the circuit breakers associated with the shot clock.
- ❑ Check all 2-WIRE cables and connections.
- ❑ Make sure all necessary hand held switches are connected to the control. (Some controls require a hand held shot clock switch in order to access the shot clock functions).
- ❑ Consult the **Control Hookup and Troubleshooting Guide** for more help.

PROBLEM:

Control does not respond when turned on and the shot clock does not illuminate.

SOLUTION:

- ❑ See **Control Hookup and Troubleshooting Guide**.

PROBLEM:

A single segment in a particular numeral does not light.

SOLUTION:

- ❑ Turn the power service to the scoreboard off.

NOTE: Power is still applied to the scoreboard module(s) even with the control turned off.

- ❑ Refer to module illustration print, which shows module plug numbers and their use. Locate the plug that is not working properly. Check the plug for firm connection.
- ❑ Interchange the plug in question with a plug that is known to work:

If the LED segment lights after exchanging plugs, the problem is in the module. Return the module to the Nevco Service Department for repair.

If the segment remains unlit, the problem is in the LED unit or the segment itself. Make note of segment location and contact the Nevco Service Department.

PROBLEM:

One or more segments do not turn off when the control is turned off.

SOLUTION:

A problem exists in the module. Carefully document the location of the segments and return the defective module to the Nevco Service Department.

If the problem persists please contact the Nevco Service Department.

800-851-4040

Nevco Guarantee

Nevco scoreboards are guaranteed for a period of five (5) years** from the date of invoice against defects in workmanship or material and will be replaced or repaired without cost to the owner provided the equipment or parts (which includes LED segments) are returned postage-paid to the Nevco factory. Shipping back to the owner will be surface postage prepaid except if air or special method of return is specified; then shipping will be freight collect. Lamp bulbs are excluded from this guarantee. Nevco Scoreboard Company will pay no charges for time or material used by others in making repairs or corrections. Guarantee shall be void if: any alteration or service, other than unplugging modules or controls, is performed without Nevco factory authorization; or if the equipment has been connected to incorrect power, or is improperly grounded or improperly installed. Equipment which is subjected to accident, neglect, abuse, misuse or other natural disasters, including but not limited to: fire, wind, lightning, flood, is not covered by this guarantee.

** Nevco wireless equipment is guaranteed for a period of two (2) years from the date of invoice. . All other terms and conditions of this guarantee remain the same.

NEVCO SCOREBOARD COMPANY

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From all 50 states and Puerto Rico

— **IN CANADA** —

NEVCO SCOREBOARD COMPANY ULC

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Orillia, ON L3V 7C1 Canada

Toll Free: 800-461-8550

Fax: 705-325-8891

Website: www.nevco.com

Email: info@nevco.com



**Scoreboards · Message Centers
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Since 1934

NOTE: This equipment has 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 equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This class A digital apparatus meets all requirements of the Canadian Interference- Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouleur du Canada.

Service Request

Scoreboard Serial # _____

Service: Module(s) Serial # _____

Service: Control(s) Serial # _____

Comments: _____

Parts Request

	Quantity	Part No.	Description
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

Contact, Shipping, and Billing Information

Person to Contact: _____ Phone # _____

E-Mail: _____

Ship To: _____

Street _____

City _____ State _____ Zip Code _____

Ship Via _____

Bill To: _____ Purchase Order # _____

P.O. Box # _____

Street _____

City _____ State _____ Zip Code _____

We will contact you with the amount of your purchase before charging your account.

Charge To: _____
Name exactly as it appears on credit card _____ Signature _____

Credit Card: American Express MasterCard VISA

Credit Card Account Number _____ Expiration Date: ____/____
Month Year

Make a copy of this form to order parts needed and/or to return with item to be serviced.