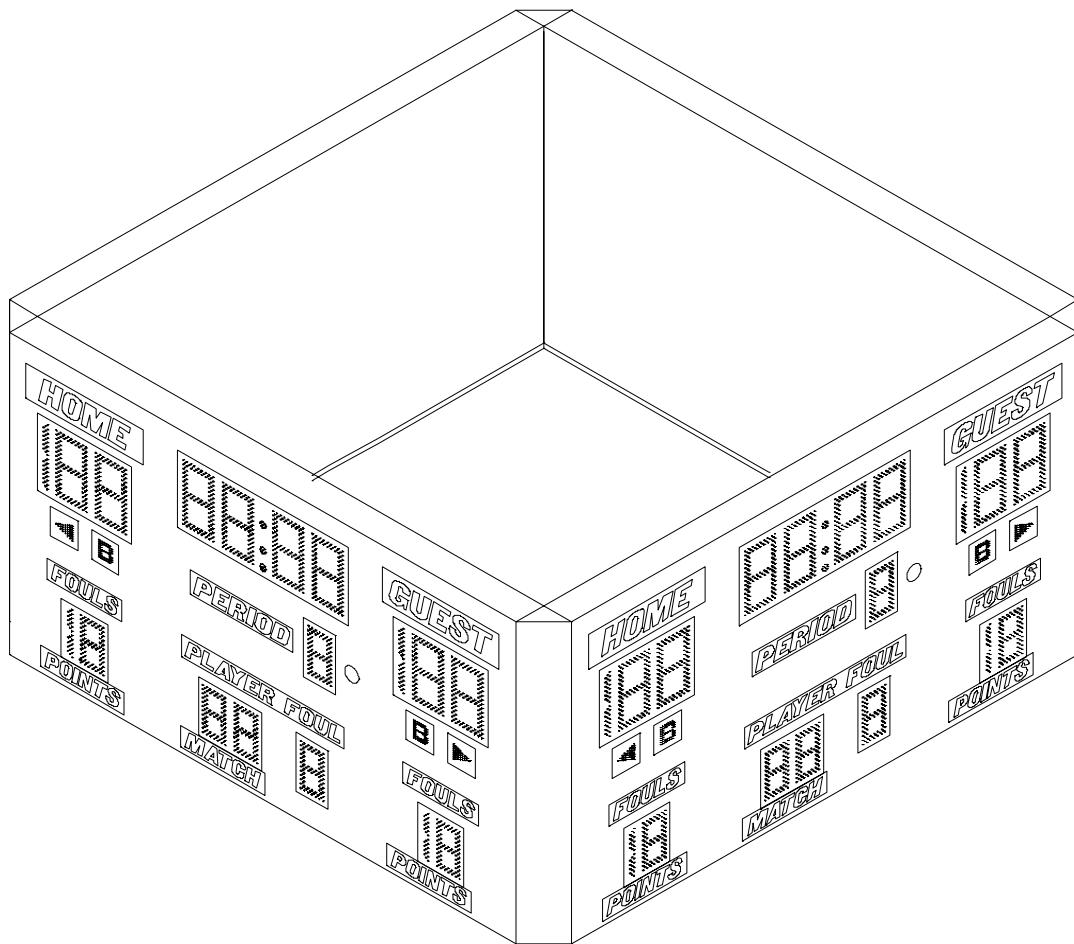

ELECTRO-MECH SCOREBOARD CO.



MODEL 2655-4 BASKETBALL SCOREBOARD OWNER'S HANDBOOK

Thank you for choosing an Electro-Mech Scoreboard for your athletic complex. We are confident that your new scoreboard will give many years of reliable service.

Rev. 7 Revised: 10/19/2006

Electro-Mech Scoreboard Co. • 120 Industrial Parkway • Wrightsville, GA 31096
Phone: (800) 445-7846 • Fax (478) 864-0212 • Email: score@electro-mech.com

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2655-4 BASKETBALL SCOREBOARD SPECIFICATIONS

GENERAL: This ETL listed four sided scoreboard includes four scoreboard cabinets, four corner pieces, assembly hardware, control console, control cable (sold separately), 10 ft. extension cable, three 25 ft. extension cables, and junction box.

DIMENSIONS: Approximately 13' square at the top x 60" H x 6" D (2655-4 with bottom sponsor panel measures approximately 17' square at the top L x 60" H x 6" D)

WEIGHT: 840 lbs (2655-4 with side sponsor panel weighs 960 lbs)

SCOREBOARD CONSTRUCTION: The outer frame is made from extruded aluminum. Internal structural parts may be extruded aluminum or formed from aluminum sheet. The face and back are made from aluminum sheet. The face is finished with enamel paint. Black is the standard face color. White is the standard color for the sponsor panel. The captions are white on a gray background.

DISPLAY: The 2655-4 basketball scoreboard displays HOME and GUEST scores to 199, a 99:00 clock with 1/10th of a second timing, PERIODS to 4, HOME and GUEST bonus and possession symbols, HOME and GUEST team fouls, PLAYER NUMBER and FOULS on each side. Each side has an internal horn. The volleyball and wrestling captions are mounted on reversible panels at the bottom of the scoreboard

DIGITS AND SYMBOLS: Light emitting diodes mounted on printed circuit boards form the digits and symbols. The clock is formed with 12" red digits, the HOME and GUEST scores are formed with 12" yellow digits, the PERIOD, PLAYER NUMBER and FOULS are formed with 9" green digits, the HOME and GUEST team fouls are formed with 9" yellow digits, bonus symbols are green, the possession symbols and colon / decimal symbols are red.

POWER REQUIREMENTS: **Scoreboard** - 120 VAC, 4 A, 60 Hz (each side uses 120 VAC, 1A, 60 Hz). Each side has an attached 6 ft power cord. **Control Console** - 120 VAC, 0.5 A, 60 Hz

SCOREBOARD ELECTRONICS: 100% solid state fully enclosed.

CONTROL CABLE: The cable has two 22 AWG stranded copper conductors with semi-rigid PVC insulation. It also has a braided shield and a foil shield. The polyethylene jacket is rated at 300 volts. The cable is direct burial rated and measures approximately 1/4" in diameter. This item is sold separately from the scoreboard.

JUNCTION BOX AND EXTENSION CABLE: A 4 1/4" x 2 1/4" x 2" junction box with a 1/4" stereo jack mounted on the face plate is attached to the control cable at the point of operation. A 10 ft. extension cable connects the control console to the junction box.

SCORELINK 200 RF MODEM SYSTEM: This accessory can be used in place of control cable and junction box for this scoreboard without internal modifications to the scoreboard or the control console. Refer to the SCORELINK 200 RF MODEM SYSTEM OWNER'S HANDBOOK for more information.

WARRANTY: Five year limited warranty.

SCOREBOARD INSTALLATION

This scoreboard is designed for indoor use only. The scoreboard arrives in eight sections: four scoreboard cabinets and four corner pieces. Two eyebolts are attached to the top of each cabinet. The assembled unit is designed to be suspended from cables attached to these eight eyebolts. The mounting bolts and washers necessary to attach the corners are provided with the scoreboard. Installation of the scoreboard consists of joining the four scoreboard cabinets at the corners using the provided hardware, hanging the assembled scoreboard in the air at the desired height and making the proper electrical connections.

SCOREBOARD ASSEMBLY

1. Each corner piece and scoreboard cabinet has numbers written on the rear panel. It is necessary to attach each corner piece to a cabinet side that has an identical number.
2. Each corner bracket has a black face panel attached by some hex head screws. Remove the face panel from a corner bracket.
3. Align the corner bracket with one of the scoreboard cabinet sides. The widest part of the corner bracket should be aligned with the top of the scoreboard cabinet. Note: This scoreboard is designed to be angled downward. It will tilt the scoreboard cabinets to align them with the corner brackets.
4. Insert a small washer over a bolt.
5. Insert a larger washer over the bolt.
6. Pass the bolt through one of the holes inside the corner bracket and thread it into the threaded hole provided in the side of the scoreboard cabinet.
7. Install the other three bolts to the scoreboard cabinet in the same manner.
8. Attach another scoreboard cabinet to the other side of the corner bracket in the same manner.
9. Reinstall the corner bracket face panel.
10. Repeat this process until all the scoreboard cabinets are joined together at the corners with the brackets.
11. Connect your chains or cables to the eyebolts of the assembled scoreboard.
12. Raise the scoreboard into the air and secure the chains or cables.

ELECTRICAL CONNECTIONS

This scoreboard was designed to make the electrical connections as easy as possible. These connections include connecting each scoreboard cabinet to a power source, installing the control cable, daisy chaining the serial data lines, and connecting the control console. Figure 1 shows the electrical connection points on the scoreboard. We recommend a qualified electrician perform the needed electrical connections to ensure proper operation of your scoreboard.

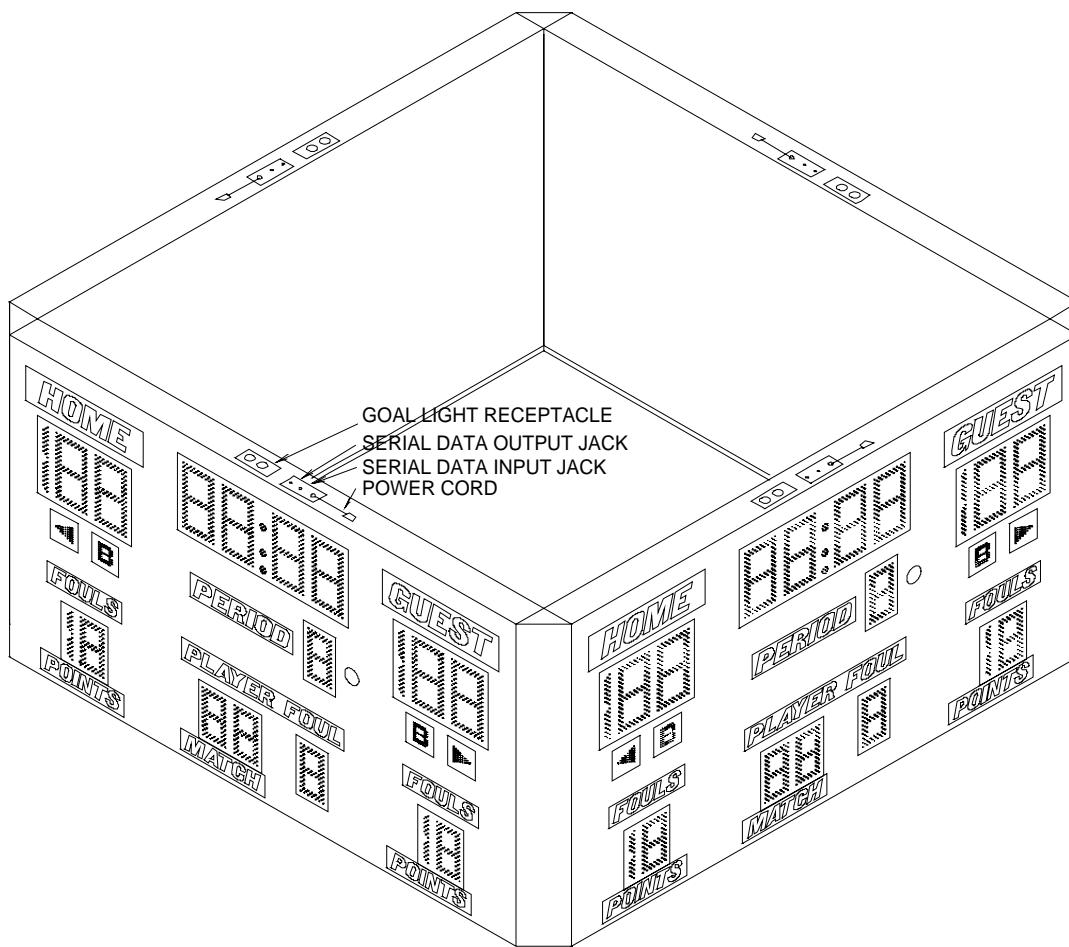


Figure 1 Electrical Connection Points

Connecting The Scoreboard To Your Power Source

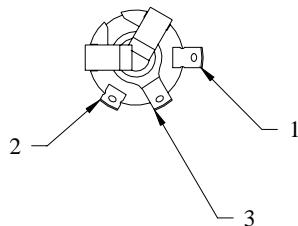
Each scoreboard cabinet requires 120 VAC 1 amp service. Each scoreboard cabinet has a 6 foot attached power cord which can be plugged into a NEMA 5-15R receptacle.

ScoreLink 200

The SCORELINK 200 RF MODEM SET is intended to eliminate the control cable between the scoreboard and the control console on Electro-Mech Scoreboard MM and MP series scoreboards as well as all LED scoreboards. If you have purchased this accessory, disregard the section of this manual titled **Control Cable Installation**. Refer to the SCORELINK 200 RF MODEM SET OWNER'S HANDBOOK for installation instructions.

Control Cable Installation

The control cable connects the scoreboard to the control console. A small junction box with a $\frac{1}{4}$ " stereo jack mounted on the face plate is attached to the control cable at the point of operation of the scoreboard. This junction box should be securely mounted within ten feet of the rear of the control console. Most customers order the control cable with the junction box attached. Some customers prefer to attach the junction box after the cable is installed. Those customers must solder the control cable to the $\frac{1}{4}$ " stereo jack. Figure 2 shows the control cable wire connection points on the rear of the $\frac{1}{4}$ " stereo jack.



PIN 1 - BLACK WIRE
PIN 2 - RED WIRE
PIN 3 - SHIELD WIRE

Figure 2 $\frac{1}{4}$ " Stereo Jack Wiring Diagram

A $\frac{1}{4}$ " stereo plug is attached to the scoreboard end of the control cable. It is inserted into the $\frac{1}{4}$ " stereo jack mounted on top of the scoreboard. Most customers order the control cable with the $\frac{1}{4}$ " stereo plug attached. Some customers prefer to attach it after the cable is installed. Those customers must solder the $\frac{1}{4}$ " stereo plug to the cable according to the figure 3. Unscrew the stereo plug cover from the plug body to expose the contact pins.

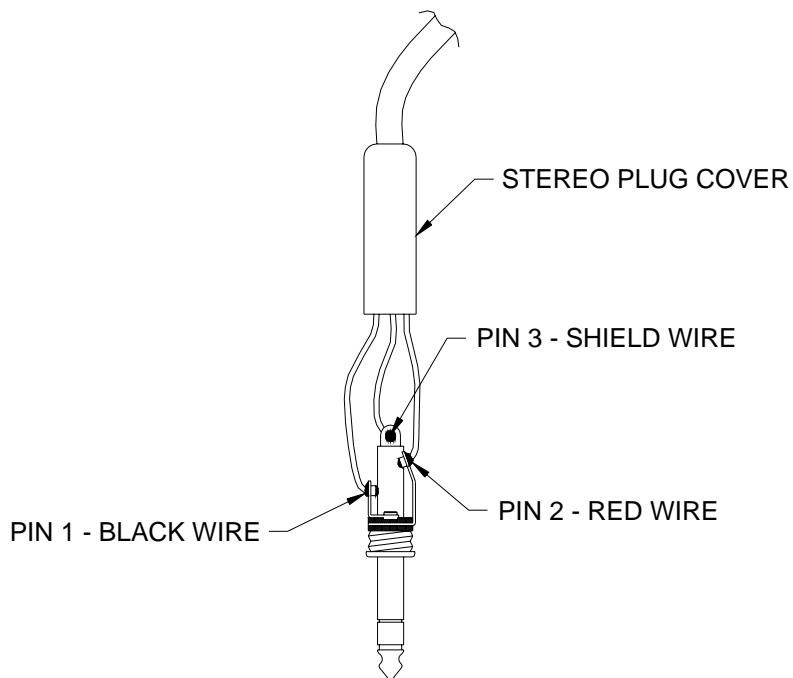


Figure 3 1/4" Stereo Plug Wiring Diagram

Insert the stereo plug into the serial data input jack mounted on top of one of the scoreboard cabinets.

Daisy chaining the Serial Data Lines

Plug one end of a 25 foot extension cable (a cable with stereo plugs attached to each end) into the serial data output jack of the same cabinet. Plug the other end into the serial data input jack of the next scoreboard cabinet to the right of the first cabinet. Connect the next two cabinets in the same manner using two of the remaining extension cables.

Control Console Connections

The 10 ft. extension cable has two molded 1/4" stereo plugs attached to it. It is used to connect the control console to the junction box. The following steps describe how to connect the control console:

1. Plug one end of the extension cable into the 1/4" stereo jack on the junction box or the ScoreLink 200 Transmitter, if purchased.
2. Plug the other end into one of the four 1/4" stereo jacks mounted on the control console back plate.
3. Plug the control console power cord into a grounded NEMA 5-15R 120 VAC receptacle.

This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact a qualified electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.

Goal Lights Installation

This scoreboard can control a set of goal lights. The following steps describe how to install a goal light:

1. Mount the goal light in the desired location.
2. Splice wires (not provided) to the two wire leads of the goal light.
3. Attach a polarized plug to the other end of the wires.
4. Insert the plug into the goal light receptacle on the top of the scoreboard cabinet. The goal light receptacle is protected by a 1 amp fuse. Do not insert bulbs greater than 40 watts in the goal lights.

Installation of Two or More Scoreboards at the Same Site

It is possible to operate multiple scoreboards or shot timers from the same console. Either install a control cable between each unit and the control console or install a ScoreLink 200 Transmitter at the control console and a ScoreLink Receiver at each scoreboard or shot timer. Additional scoreboards and shot timers can be controlled by connecting a control cable from the serial data output 1/4" stereo jack on the right side of an installed scoreboard cabinet to the serial data input 1/4" stereo jack on the top of the additional scoreboard or shot timers. Attach 1/4" stereo plugs on each end of these cables according to figure 6. **Never splice the control cables together or connect them to the same junction box.** Each scoreboard will need to be connected to 120 VAC service.

SCOREBOARD OPERATION

SCOREBOARD STARTUP

1. Place the circuit breaker for the scoreboard in the **ON** position.
2. Plug one end of the extension cable into $\frac{1}{4}$ "stereo jack on the junction box or the ScoreLink 200 Transmitter, if purchased.
3. Plug the other end into the $\frac{1}{4}$ "stereo jack mounted on the control console back plate.
4. Plug the control console power cord into a grounded NEMA 5-15R 120 VAC receptacle.
5. If a ScoreLink 200 RF MODEM SYSTEM is installed with this scoreboard, plug the wall mount DC power supply into a grounded NEMA 5-15R 120 VAC receptacle and the male plug on the end of the attached cable into the Power jack on the Transmitter.

GAME TIME OPERATION

This scoreboard is operated with a 37-key control console. Figure 4 shows the keypad layout on the control console.

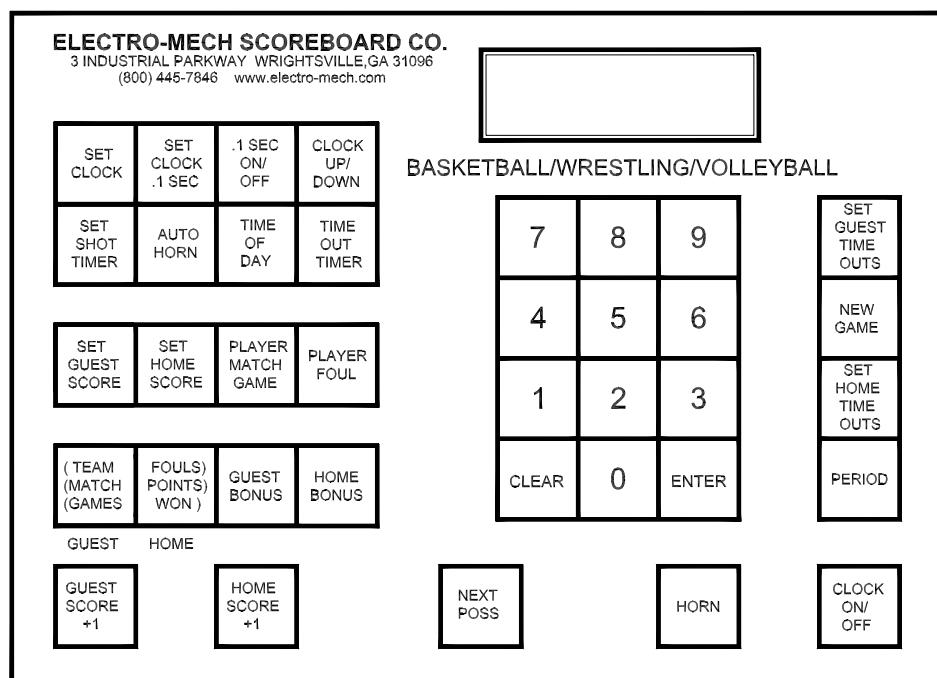


Figure 4 Keypad Layout

Immediately after the control console power cord is plugged into a 120 VAC source, the console LCD display will read:

ELECTRO-MECH 2.6
SCOREBOARD MPBWV

After a few seconds the display will read:

000 D15: 00 0 000
00 00 0 00

The scoreboard will display:

CLOCK – 15:00

GUEST – 0

HOME – 0

The control console LCD display shows the same information as the scoreboard. Note: In some functions a 0 will be blanked on the scoreboard, but not on the console. Because this console program is used for a number of models of scoreboards, some functions will appear on the console LCD display that are not present on the scoreboard. Figure 5 explains the LCD display layout.

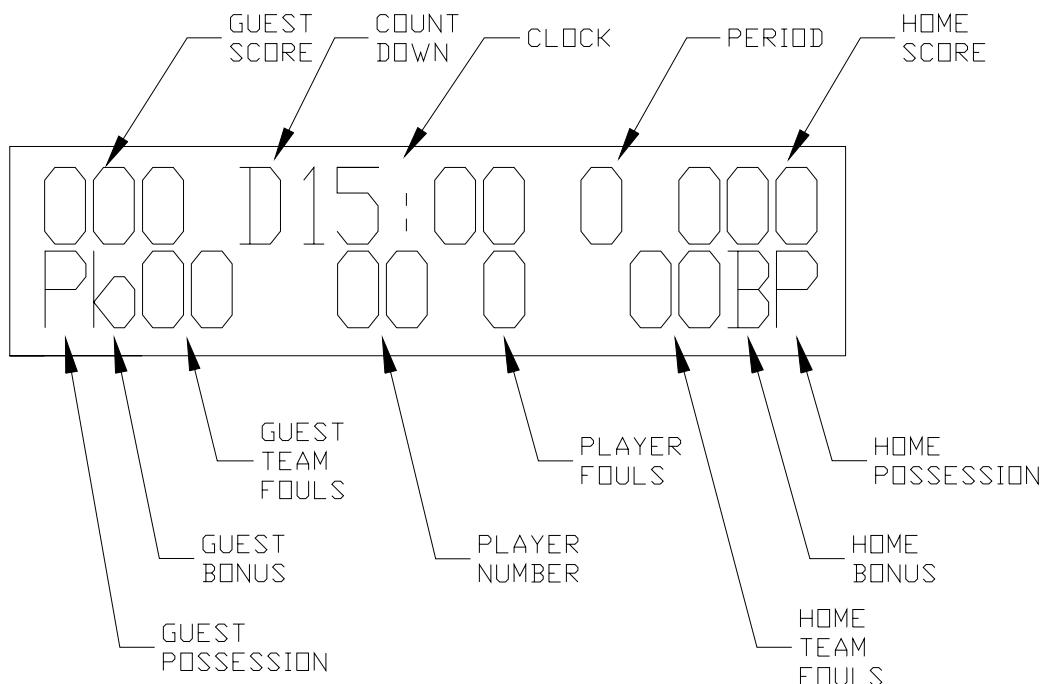


Figure 5 Control Console LCD Display

Control Console Key Functions

1. **SET CLOCK** – This key sets the time displayed on the scoreboard clock. Press [SET CLOCK]. The console LCD display will read:

000 D15: 00 0 000
SET CLK <00: 00>

Press the keypad numbers for the time, [ENTER]. Example: Press [SET CLOCK], [6], [0], [0], [0], [ENTER] on the control console. 60:00 will be displayed on the clock section of the scoreboard.

2. **SET CLOCK .1 SEC** – This key is used to set the scoreboard clock to a time less than one minute when tenth of a second accuracy is required. Press [SET CLOCK .1 SEC]. The console LCD display will read:

000 D15: 00 0 000
SET SEC <00. 0>

Press the keypad numbers for the time, [ENTER]. Example: Press [SET CLOCK .1 SEC], [5], [3], [8], [ENTER] on the control console. 53.8 will be displayed on the clock section of the scoreboard.

3. **.1 SEC ON/OFF** – This key is used to enable or disable the display of tenths of seconds on the scoreboard. The use of this key has a visible effect on the scoreboard only if the game clock is less than one minute. This mode is enabled when the control console is turned on. If it is disabled, the LCD display on the control console will still show 1/10th second timing, but the scoreboard will not display it. To turn this function off, press [.1 SEC ON/OFF]. The console LCD display will read:

CL O CK <input type="checkbox"/> N <1>
.1 SEC <input type="checkbox"/> OFF <0>

Press [0], [ENTER] on the control console.

4. **CLOCK UP/DOWN** – The clock can be set up to either count up or count down. The control console is set to the clock down mode when it is turned on. To make the clock count up, press [CLOCK UP / DOWN]. The console LCD display will read:

GAME UP <1>
CL O CK D O WN <0>

Press [1], [ENTER] on the control console. The letter D in front of the game time on the console LCD will be replaced with the letter U to indicate that the clock is in the count up mode. To reset the clock to count down mode, press [CLOCK UP / DOWN], [0], [ENTER] on the control console.

5. **SET SHOT TIMER** – The console is programmed with two timers. The timers should be set prior to the start of a game. The shot timer is preset to 30 seconds. The out of bounds timer is preset to 5 seconds. To change either one of these times, press [SET SHOT TIMER]. The console LCD display will read:

000	D15:	00	0	000
ST	RESET	<30>		

Press the keypad numbers to set shot timer, [ENTER]. The LCD display will then read:

00	D15:	00	0	00
ST	OB	RESET	<05>	

Press the keypad numbers to set the out of bounds timer, [ENTER].

6. **AUTO HORN** – This key allows the operator to control the end of period horn and the time out horn. The horn sounds for two seconds when the clock reaches 0:00 at the end of the period. The end of period horn can be disabled by pressing [AUTO HORN]. The console LCD display will read:

GAME	PRESS<1>ON
HORN	PRESS<0>OFF

Press [0], [ENTER] to disable the horn. The console LCD display will then read:

T-O	PRESS<1>ON
HORN	PRESS<0>OFF

The time out horn is normally disabled. To enable the horn to sound at the end of the time out, press [1], [ENTER] on the control console.

7. **TIME OF DAY** – The time of day can be displayed on the clock section of the scoreboard. **THE GAME CLOCK WILL BE INOPERABLE UNTIL THE TIME OF DAY FUNCTION IS TURNED OFF.** To turn the time of day clock on, press [TIME OF DAY]. The console LCD display will read:

TIME OF	ON <1>
DAY CLOCK	OFF<0>

Press [1], [ENTER] on the control console. The console LCD display will then read:

00	C12: 00	0	00
SET	CLK	<12: 00>	

Press the keypad numbers for the time, [ENTER]. The letter C will be displayed on the console LCD display to the left of the time to indicate that the time of day function is active. The scoreboard will display the time of day.

8. **TIME OUT TIMER** – To set the Time Out timer, press [TIME OUT TIMER]. The console LCD display will read:

000	D15:	00	0	000
SET	T-	□	<	1:00>

Press the keypad numbers for the time, [ENTER]. After the ENTER key is pressed, the letter T is displayed to the left of the time on the LCD display and the TIME OUT TIMER immediately begins to count down to 0. The scoreboard will not display the Time Out time.

9. **SET GUEST SCORE** – To set the guest score, press [SET GUEST SCORE]. The console LCD display will read:

000	D15:	00	0	000
GUEST	SC	ORE	<	000>

Press the keypad numbers for the score, [ENTER]. EXAMPLE: To set the guest score to 53, press [SET GUEST SCORE], [5], [3], [ENTER].

10. **SET HOME SCORE** – To set the home score, press [SET HOME SCORE]. The console LCD display will read:

000	D15:	00	0	000
HOME	SC	ORE	<	000>

Press the keypad numbers for the score, [ENTER]. EXAMPLE: To set the home score to 75, press [SET HOME SCORE], [7], [5], [ENTER].

11. **PLAYER MATCH GAME** – This key is used to display the player who commits a foul in basketball, the match number in wrestling, and the game number in volleyball. No change is required on the console to change sports. To set the player number, match number, or game number press [PLAYER MATCH GAME]. The console LCD display will read:

000	D15:	00	0	000
PLAYER	N	□.	<	00>

Press the keypad numbers for the player number, match number, or game number, [ENTER]. EXAMPLE: To set the player number to 15, press [PLAYER MATCH GAME], [1], [5], [ENTER].

12. **PLAYER FOUL** – This key is used to display the number of fouls that a player has committed. To set the player foul press [PLAYER FOUL]. The console LCD display will read:

000	D15:	000	000		
PLAYER	F	□	ULS	<	0>

Press the keypad number for the player fouls, [ENTER]. EXAMPLE: To set the player fouls to 3, press [PLAYER FOUL], [3], [ENTER].

13. **(TEAM (MATCH (GAMES GUEST** – This key is used to increment the number of fouls that the guest team has committed.
14. **FOULS) POINTS) WON) HOME** – This key is used to increment the number of fouls that the home team has committed.
15. **GUEST BONUS** – The console is programmed to work with scoreboards with one or two Guest Bonus indicators. This scoreboard only has one Guest Bonus indicator (a green B on the left side of the scoreboard). When the [GUEST BONUS] key is pressed, the Guest Bonus indicator on the scoreboard turns on and ‘b’ is displayed on the console LCD display as shown below.

000	D15:	00	0	000
b00	00	0	00	

When the [GUEST BONUS] key is pressed a second time, the Guest Bonus indicator remains illuminated and ‘B’ is displayed on the console LCD display as shown below.

000	D15:	00	0	000
B00	00	0	00	

When the [GUEST BONUS] key is pressed a third time, the Guest Bonus indicator is turned off and no symbol is displayed in the Guest Bonus field on the console LCD display.

16. **HOME BONUS** – The console is programmed to work with scoreboards with one or two Home Bonus indicators. This scoreboard only has one Home Bonus indicator (a green B on the right side of the scoreboard). When the [HOME BONUS] key is pressed, the Home Bonus indicator on the scoreboard turns on and ‘b’ is displayed on the console LCD display as shown below.

000	D15:	00	0	000
00	00	0	00b	

When the [HOME BONUS] key is pressed a second time, the HOME Bonus indicator remains illuminated and ‘B’ is displayed on the console LCD display as shown below.

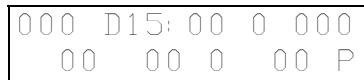
000	D15:	00	0	000
00	00	0	00B	

When the [HOME BONUS] key is pressed a third time, the HOME Bonus indicator is turned off and no symbol is displayed in the HOME Bonus field on the console LCD display.

17. **GUEST SCORE +1** – This key is used to increment the guest score by 1.
18. **HOME SCORE +1** – This key is used to increment the home score by 1.

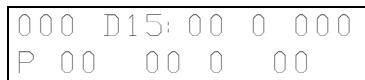
19. **NEXT POSS** – This key toggles the possession indicators between guest and home.

When the [NEXT POSS] key is pressed for the first time, the HOME Possession indicator is illuminated and ‘P’ is displayed on the console LCD display as shown below.



000 D15: 00 0 000
00 00 0 00 P

When the [NEXT POSS] key is pressed a second time, the HOME Possession indicator turns off, the GUEST Possession indicator turns on, and ‘P’ is displayed on the console LCD display as shown below.



000 D15: 00 0 000
P 00 00 0 00

20. **HORN** – This key is used to sound the horn for ½ second.

21. **CLOCK ON/OFF** – This key is used to start and stop the clock.

22. **PERIOD** – This key is used to increment the period by 1.

23. **NEW GAME** – This key is used to reset all the scoreboard functions to their default settings. To reset the scoreboard, press [NEW GAME]. The console LCD display will read:



RESET YES<1>
SCOREBOARD NO<0>

Press [1], [ENTER] on the control console. The scoreboard will reset its functions.

20. **CLEAR** – This key clears the information being entered into the control console.

The SET GUEST TIME OUTS and SET HOME TIME OUTS keys are not used with the 2655-4 scoreboard.

Horn and Goal Lights Operation

The horn sounds for two seconds when the game clock reaches 0 seconds. It sounds for 0.5 seconds when the [HORN] key is pressed. The optional goal lights illuminate when the horn sounds.

Hand Held Clock Control Unit Operation

The hand held clock control unit has an attached cable that is plugged into a jack on the control console back plate labeled **Clock Hand held**. It has one button that is used to toggle the clock on and off.

Reversible Caption Plates

There are three reversible caption plates located at the bottom of each side of the scoreboard. These plates have the proper captions for playing volleyball and wrestling. The caption plates are held in place with small metal tabs. To change a caption, slide the plate out, turn it so the other side is visible, and slide it back into position. The proper set of captions for wrestling is POINTS, MATCH, and POINTS. The proper set of captions for volleyball is WON, GAMES, and WON.

You should reset the scoreboard each time that it is turned on. Test out all the functions to ensure that the scoreboard is operating properly.

SCOREBOARD SHUTDOWN

1. Place the circuit breaker for the scoreboard in the **OFF** position.
2. Unplug the control console power cord.
3. Unplug the extension cable.
4. If a ScoreLink 200 RF MODEM SYSTEM is installed with this scoreboard, unplug the Transmitter's wall mount power supply.
5. Store the control console and ScoreLink 200 Transmitter in a dry location. These units are not waterproof.

Proper scoreboard shutdown will help protect the scoreboard and control console from power surges and lightning strikes.

SERVICING THE SCOREBOARD

While your scoreboard was designed for years of trouble-free operation, some problems may occasionally occur. Electro-Mech Scoreboard Company offers onsite service in some areas. In other areas, we can help you contact an independent service technician. In areas in which service is not available from Electro-Mech Scoreboard Company, we will make every effort to answer your questions. Our trained personnel at Electro-Mech Scoreboard Company are ready to answer your questions from Monday to Friday during the hours of 8 AM to 5 PM Eastern Standard Time. Be sure to know your scoreboard model number when calling. Scoreboard replacement parts are always available. Damaged parts can usually be repaired at a significant cost savings. Our convenient toll free number is listed at the bottom of every page in this manual.

COMPONENT REPLACEMENT

LED Digits And Indicators Replacement

The LEDs that form digits and indicators are soldered on circuit boards mounted behind metal masks. Do not attempt to replace individual LEDs. In case of a malfunction, the entire LED circuit board must be removed. **To avoid damage to the LED driver module, always turn off the power to the scoreboard when removing or replacing LED digits and indicators.** Figure 6 shows the components of a LED digit assembly. LED indicator assemblies are similar in construction.

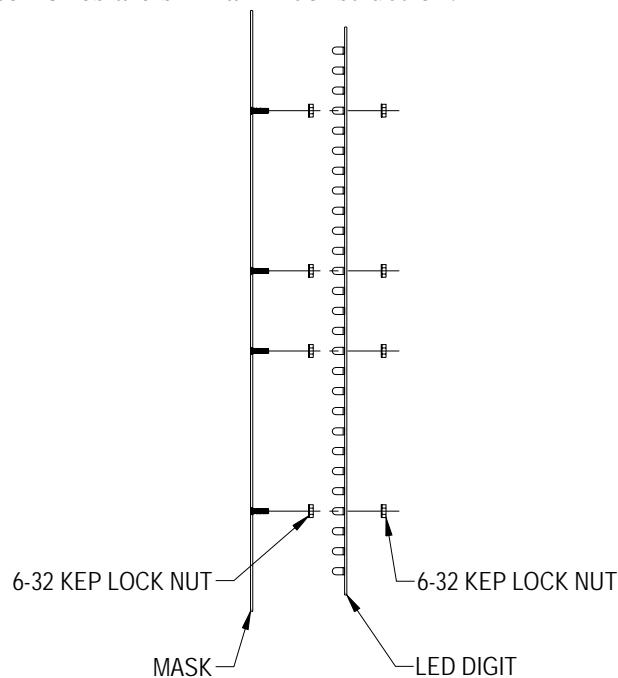


Figure 6 LED Digit Assembly

1. Remove the machine screws that fasten the mask to the face of the scoreboard.
Caution: Support the mask with before removing the last screw. The ribbon cable that connects to the rear of the circuit board is not designed to support the weight of the assembly.
2. Disconnect the ribbon cable from the rear of the circuit board. **Caution: Do not let the cable hang outside of the scoreboard. It is easily cut by sharp metal edges. Damage to the ribbon cable may create short circuit paths that will damage the LDM1 LED driver module.**
3. Place the assembly on a flat surface and remove the 6-32 kep lock nuts that hold the circuit board in place.
4. Remove the circuit board.
5. Align the mounting holes in the circuit board with the threaded studs on the mask and install the replacement digit on the mask.
6. Plug the ribbon cable onto the header on the back of the circuit board.

Horn Replacement

1. Remove the machine screws that fasten the mask to the face of the scoreboard.
2. Pull the horn assembly out of the scoreboard and cut the two wires leading up to the rear of the horn assembly.
3. Splice the new horn assembly wires to the two wires inside the scoreboard.
4. Install the horn assembly and fasten it to the scoreboard face using the machine screws.

All other components are located behind the PERIOD panel of each cabinet. Figure 7 shows the view behind the PERIOD panel.

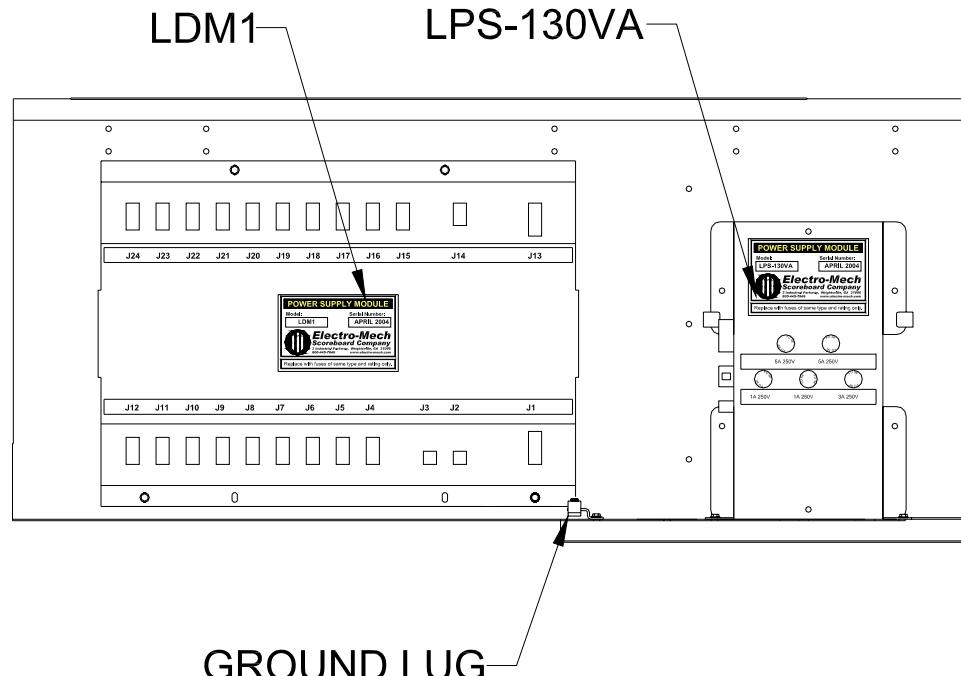


Figure 7 SCOREBOARD ELECTRONICS

LDM1 LED DRIVER MODULE FUNCTIONS

DRIVER MODULE JACK	FUNCTION #1	FUNCTION #2	FUNCTION #3
J1	DRIVER MODULE DC POWER INPUT #1		
J2	SERIAL DATA INPUT		
J3	SERIAL DATA OUTPUT		
J4	CLOCK SECONDS UNITS		
J5	CLOCK SECONDS TENS		
J6	CLOCK MINUTES UNITS		
J7	HOME SCORE UNITS		
J8	HOME SCORE TENS	HOME SCORE HUNDRED	
J9	GUEST SCORE UNITS		
J13	DRIVER MODULE DC POWER INPUT #2		
J14	HORN / GOAL LIGHT RELAY CONTROL		
J15	GUEST POSSESSION	GUEST BONUS	DECIMAL / COLON
J16	QUARTER		
J17	CLOCK MINUTES TENS		
J19	HOME POSSESSION	HOME BONUS	
J20	GUEST SCORE TENS	GUEST SCORE HUNDRED	

LED Driver Module Replacement

Electrical connections to the LDM1 LED DRIVER MODULE are made with ribbon cable polarized IDC sockets and locking ramp crimp terminal housings that mate with jacks on the module. The module is secured inside the scoreboard with four machine screws.

1. Unplug the electrical connections from the module. Do not cut the plastic tie wraps around the ribbon cables.
2. Remove the four screws.
3. Remove the module from the scoreboard.
4. Insert the replacement module in the scoreboard.
5. Secure the module with the four screws.
6. Insert the plugs into the jacks on the module.

To avoid damage to the module, always turn off the power to the scoreboard when removing or replacing it.

LPS-130VA LED POWER SUPPLY MODULE FUNCTIONS

JACK	FUNCTION
J1	HORN CONTROL
J2	16 VDC OUTPUT TO LDM1, HORN RELAY CONTROL
J3	120 VAC INPUT

Figure 8 shows the location of the LPS-130VA Power Supply Module fuses. The tables below figure 8 list their functions.

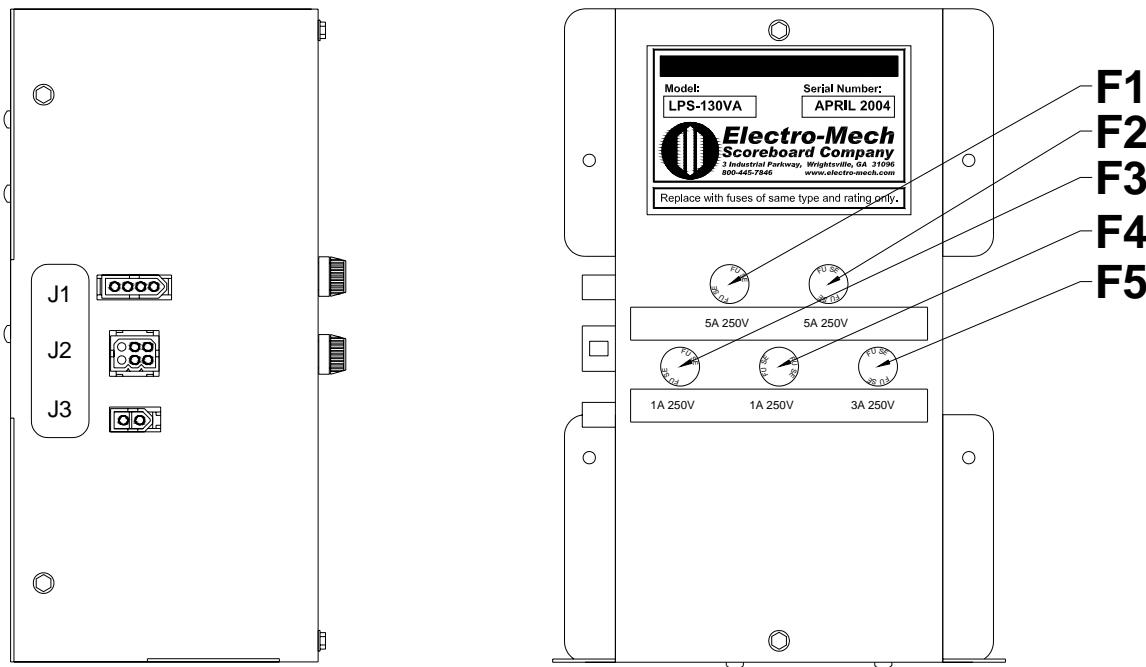


Figure 8 LPS-130VA Fuse Locations

LPS-130VA FUSES

FUSE	FUNCTION	BUSSMANN PART #
5A 250V	DRIVER MODULE DC POWER INPUT #1	AGC-10
5A 250V	DRIVER MODULE DC POWER INPUT #2	AGC-10
1A 250V	GOAL LIGHT RECEPTACLE	AGC-1
1A 250V	HORN	AGC-1
3A 250V	TRANSFORMER PRIMARY	AGC-3

Note: Other manufacturer's fuses may be substituted for the Bussmann fuses.

LED Power Supply Module Replacement

Electrical connections to the LED POWER SUPPLY MODULE LPS-130VA are made with three keyed plugs that mate with jacks on the left side of the module. The module is secured inside the scoreboard with two machine screws.

1. Disconnect the plugs from the three jacks on the module.
2. Remove the two machine screws.
3. Remove the module from the scoreboard.
4. Insert the replacement module in the scoreboard.
5. Secure the module with the four screws.
6. Insert the plugs into the jacks on the side of the module.

To avoid damage to the module, always turn off the power to the scoreboard when removing or replacing it.

ELECTRO-MECH SCOREBOARD CO. FIVE YEAR LIMITED WARRANTY

THE ELECTRICAL COMPONENTS OF ALL ELECTRO-MECH 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 ARE RETURNED POSTAGE-PAID TO THE FACTORY IN WRIGHTSVILLE, GA. SHIPPING BACK TO THE OWNER WILL BE VIA UPS GROUND SERVICE EXCEPT WHEN AIR OR SPECIAL METHOD OF RETURN IS SPECIFIED BY THE OWNER, IN WHICH CASE SHIPPING WILL BE FREIGHT COLLECT.

EXCLUDED FROM THIS WARRANTY ARE FUSES.

THIS WARRANTY DOES NOT INCLUDE LABOR CHARGES INCURRED IN THE REMOVAL OF COMPONENT PARTS, SERVICE CALLS, OR DAMAGES RESULTING FROM IMPROPER INSTALLATION, IMPROPER OPERATION, OR PROBLEMS CAUSED BY ANY REPAIR, ALTERATION OR MODIFICATION OF THE SCOREBOARD NOT PERFORMED BY ELECTRO-MECH.

EQUIPMENT WHICH IS SUBJECTED TO ACCIDENT, NEGLECT, ABUSE, MISUSE OR OTHER NATURAL DISASTERS, INCLUDING BUT NOT LIMITED TO FIRE, WIND, LIGHTNING, OR FLOOD, IS NOT COVERED BY THIS GUARANTEE.