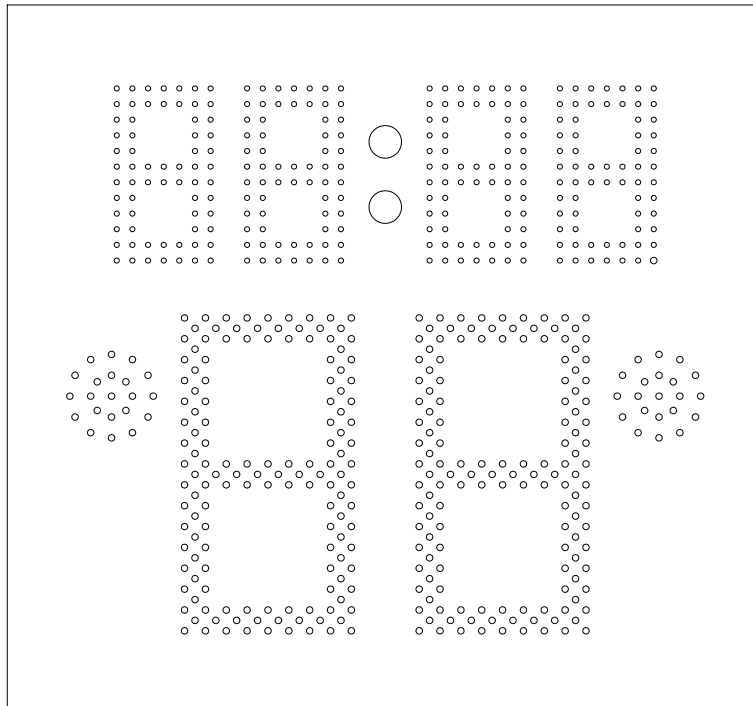


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## **ELECTRO-MECH SCOREBOARD CO.**



### **MODEL 2180 SHOT TIMER**

### **OWNER'S HANDBOOK**

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

Rev. 3 Revised: 11/16/04

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## MODEL 2180 SHOT TIMER SPECIFICATIONS

**GENERAL:** Customers normally purchase a set of two shot timers. This ETL listed product includes the two shot timers, a hand held unit, two 10 ft. extension cables, and two junction boxes. It may be purchased with or without a control console.

**DIMENSIONS:** 29" L x 27" H x 6"

**WEIGHT:** 30 lbs

**CONSTRUCTION:** The outer frame is made from extruded aluminum. The face and back are made from aluminum sheet. The face is finished with enamel paint. Black is the standard face color. Limited mounting hardware is included.

**DISPLAY:** The model 2180 shot timer is a two digit counter which can be set from 1 to 99 seconds. It also displays the game time. It has an internal horn.

**DIGITS AND SYMBOLS:** Light emitting diodes mounted on printed circuit boards form the digits and symbols. The shot clock is formed with 12" red digits, the game clock is formed with 6" green digits, and the 4" goal light indicators are red.

**POWER REQUIREMENTS:** **Shot Timer** - 120 VAC, 0.5 A, 60 Hz. The shot timer has an attached 6 ft. power cord. **Control Console** - 120 VAC, 0.5 A, 60 Hz

**SCOREBOARD ELECTRONICS:** 100% solid state fully enclosed.

**CONTROL CONSOLE:** The control console features a microprocessor, 37 key sealed membrane keypad, a LCD display, an attached 6 foot power cord, and either a lithium cell battery or two super capacitors to retain game information. The console housing consists of ABS plastic base and top pieces with a steel back plate.

**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. One length is required to run from each unit to the point of operation. This item is sold separately from the shot timer.

**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 each control cable at the point of operation. A 10 ft. extension cable connects the control console to each junction box.

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

**WARRANTY:** Five year limited warranty.

## **SHOT TIMER INSTALLATION**

This part of the manual describes the mechanical and electrical installation of the shot timer.

One of the items listed below must be purchased in order to complete the installation:

- Control cable (length dependent upon installation site layout)
- ScoreLink 200 RF Modem System (a transmitter and two receivers)

Items not provided by Electro-Mech Scoreboard Company that are necessary for installation:

- Hardware to attach the shot timer to the wall or basketball goal.
- A grounded NEMA 5-15R 120 VAC receptacle for the control console at the scorekeeper's table.

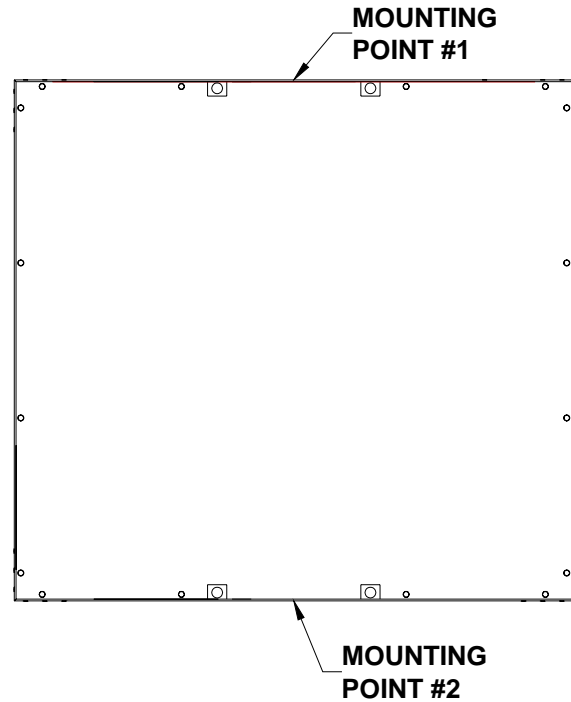
Electro-Mech Scoreboard Company performs installations in some areas. In other areas, we can help you contact an independent installer. In areas in which installation service is not available from Electro-Mech Scoreboard Company, we will make every effort to answer your installation questions. Qualified personnel should perform the scoreboard installation. Consult national and local codes before installation.

## **MECHANICAL INSTALLATION**

The mechanical installation includes mounting the shot timer on the wall or basketball goal. The shot timer can be mounted by using either the side or the rear cabinet mounting points.

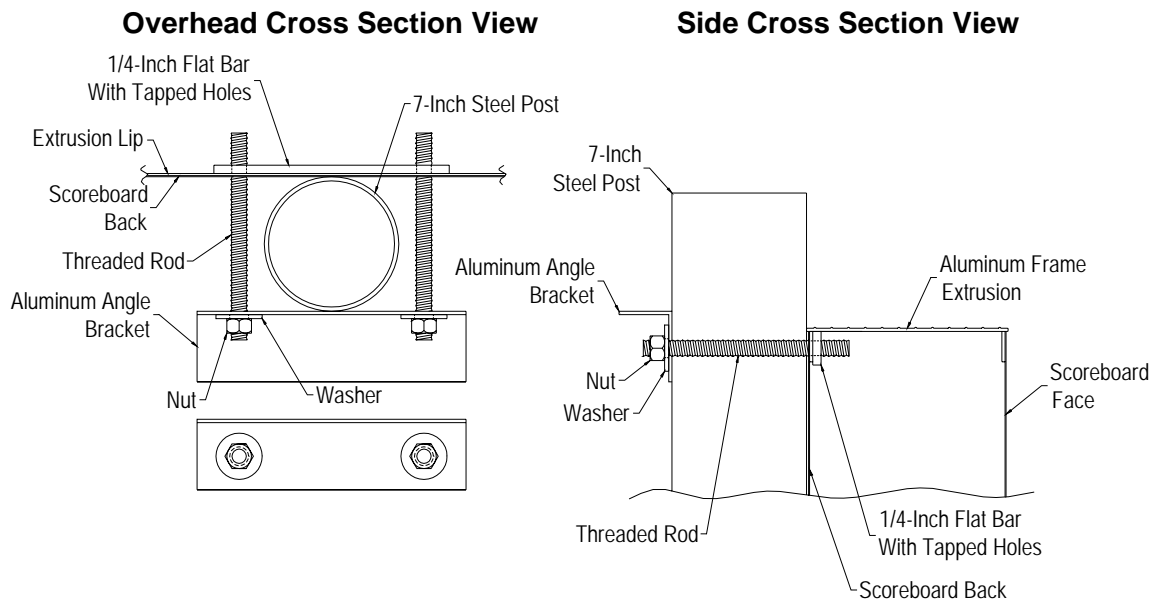
### **Rear Mounting Method**

This shot timer can be mounted in front of a single pole. The mounting points are located at the top and bottom edges of the rear side of the cabinet. Figure 1 shows the mounting points located on the rear of the shot timer.



**Figure 1 Rear Mounting Points**

Two sets of mounting hardware are provided for mounting the model 2180 to a pole. The mounting hardware will accommodate poles up to 7 inches outer diameter. A single set of mounting hardware consists of an aluminum angle bracket, two threaded rods, two washers, and two nuts. Figure 2 shows an overhead cross section view and a side cross section view of the shot timer attached to a pole at a mounting point. A steel bar is riveted inside the scoreboard's aluminum extrusion frame. The bar has two tapped holes. The threaded rods screw into these tapped holes. The washers and nuts are used to clamp the aluminum angle bracket against the steel post and hold the scoreboard in place.



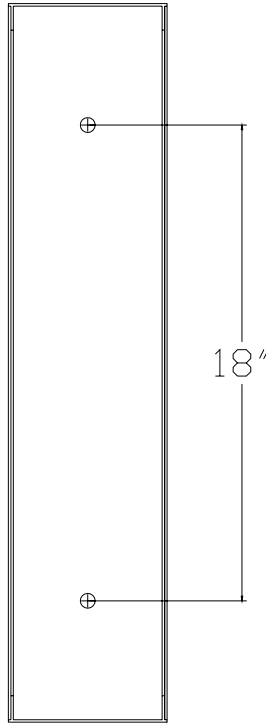
**Figure 2 Rear Mounting Method**

The following steps describe how to mount the scoreboard on the posts:

1. Screw the threaded rods into the tapped holes on the rear of the shot timer.
2. Raise the shot timer into place at the pole.
3. Place an aluminum angle bracket over the threaded rods at the top mounting point.
4. Place a washer over each threaded rod.
5. Screw the nuts onto the threaded rods so that the bracket is loosely held in place.
6. Repeat steps 3 - 6 at the bottom mounting point.
7. Tighten the nuts to clamp the shot timer in place on the posts.

### Side Mounting Method

Two 3/8" bolts and two washers are provided for each unit. The bolts and washers can be used to attach the shot timer to the customer's mounting hardware. There are two tapped holes located on each side of the cabinet which accept the bolts. Figure 3 shows the mounting points located on one side of the shot timer. Identically spaced holes are located on the opposite side of the shot timer. **Be sure to mount the shot timer close enough to a wall receptacle so that you can plug in the 6 ft. power cord.**



**Figure 3 Model 2180 Mounting Points**

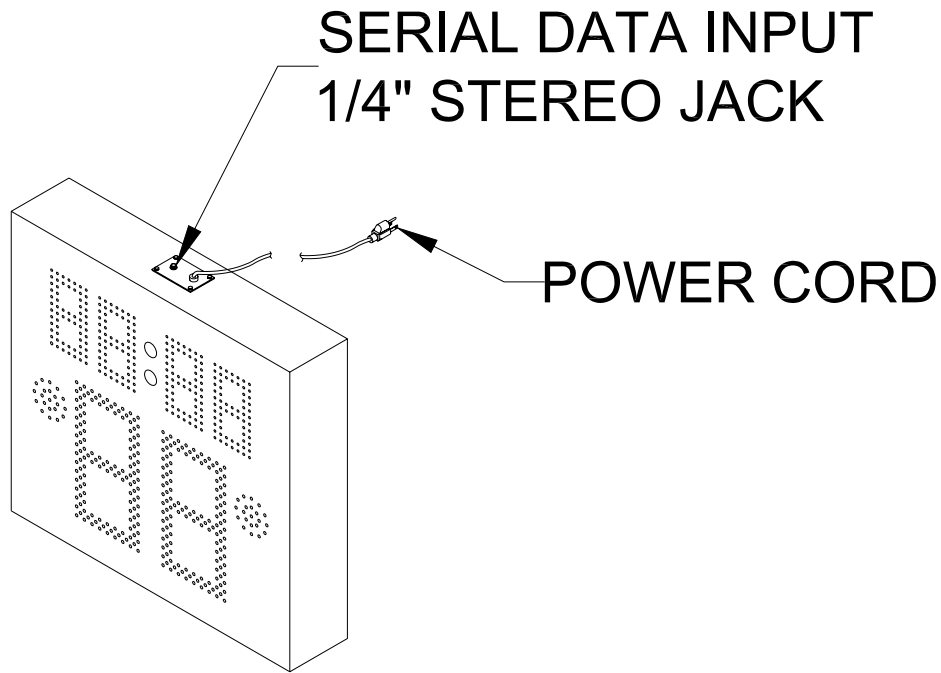
## **ELECTRICAL INSTALLATION**

We recommend a qualified electrician perform the needed electrical connections to ensure proper operation of the shot timer. These connections include connecting the shot timer to a power source, installing the ScoreLink 200 or the control cable, and connecting the control console.

### **Power Connection**

The shot timer requires 120 VAC service at the shot timer to operate properly.

**Maximum power consumption of Model 2180: 60 Watts.** The shot timer has a 6 ft. attached power cord located at the top of the cabinet. Plug the power cord into a grounded NEMA 5-15R receptacle. The receptacle should be controlled by a separate circuit breaker so that the shot timer can be turned off without turning off other electrical devices in the facility. Figure 4 shows the electrical connection points on the scoreboard.



**Figure 4 Electrical Connection Points**

#### **ScoreLink 200**

The ScoreLink 200 RF MODEM SYSTEM is intended to eliminate the control cable between the shot timer and the control console. If you have purchased this option, disregard the next section of this manual. Refer to the SCORELINK 200 RF MODEM SYSTEM OWNER'S HANDBOOK for installation instructions.



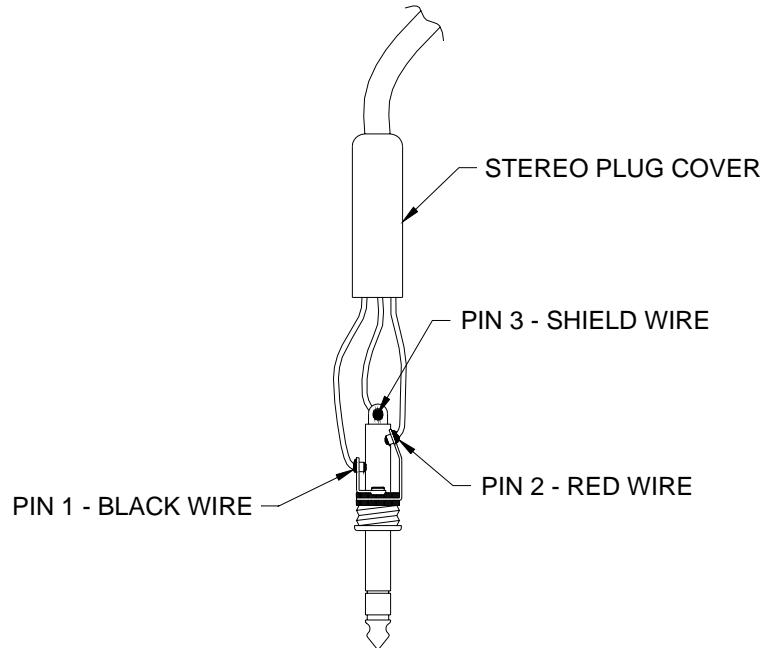
### **Control Cable Installation**

The model 2180 shot timer is compatible with Electro-Mech Scoreboard Company scoreboard models that operate with a control console programmed with the B62C software. The program name appears briefly on the control console LCD display after the operator presses the [NEW GAME], [1], [ENTER] key sequence. If the customer has a scoreboard that operates with this control console, the model 2180 shot timer can be operated with the same control console. If the customer's control console has a different software program, contact Electro-Mech Scoreboard Co. to determine if their scoreboard can operate with a B62C control console.

If the customer is operating a scoreboard with the same control console as the shot timer, he can install the control cable from the ¼" stereo jack mounted on the top of the shot timer to either the shot timer output jack located on the right side of the scoreboard (serial data output jack located on the top of models 2350-4, 2650-4, and 2655-4) or to the control console. A connection to the control console is preferred.

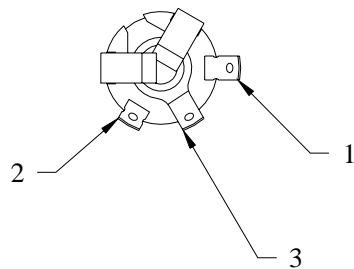
When connecting between the shot timer output jack of the scoreboard to the model 2180 shot timer, each end of the control cable has a ¼" stereo plug attached. When connecting between the control console and the model 2180 shot timer, the cable end that attaches to the scoreboard has a ¼" stereo plug attached and the other end has a small metal junction box with a ¼" stereo jack mounted on the face plate. The junction box should be securely mounted within 10 feet of the control console point of operation. A 10 ft. cable with ¼" stereo plugs attached to each end (called the extension cable) is provided to make the connection from the junction box to the control console.

Most customers order the control cable with the proper connectors attached to each end when ordering the shot timer. Some customers prefer to attach the connectors after the cable is installed. The instructions below describe how to attach these connectors. All connections should be soldered. Splicing the cable is not recommended. Figure 5 shows the connection points to solder the ¼" stereo plug to the control cable. Unscrew the stereo plug cover from the plug body to expose the contact pins. Figure 6 shows the connection points to solder the control cable to the rear of ¼" stereo jack mounted on the face plate of the junction box.



**Figure 5 1/4" Stereo Plug Wiring Diagram**

### 1/4" STEREO JACK



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

**Figure 6 1/4" Stereo Jack Wiring Diagram**

### **Control Console Connections**

The 10 ft. extension cable has two molded ¼” stereo plugs attached to it. It is used to connect the control console to the junction box or ScoreLink 200 Transmitter. The following steps describe how to connect the control console:

1. Plug one end of the extension cable into the ¼” stereo jack on the junction box or the ScoreLink 200 Transmitter, if purchased.
2. Plug the other end into one of the four ¼” 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.
4. Plug the shot clock hand held remote into the RJ45 jack mounted on the control console back plate labeled **DGT/SC Hand held**.

### **Control Console Safety Warning**

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.

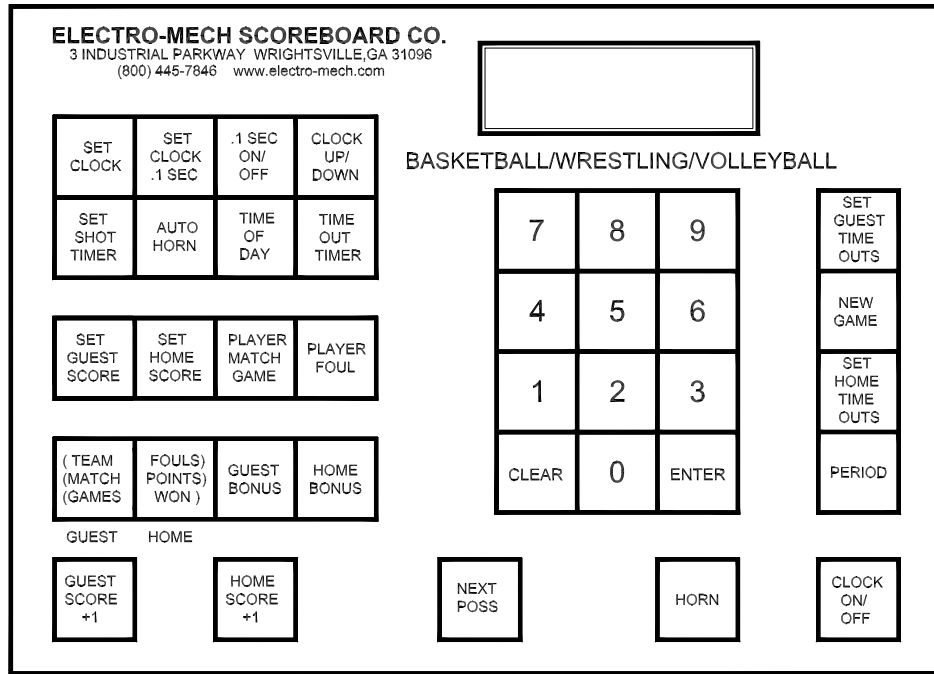
## **SHOT TIMER OPERATION**

### **SHOT TIMER STARTUP**

1. Place the circuit breaker for the shot timer in the **ON** position.
2. Plug one end of the extension cable into the ¼” stereo jack on the junction box or the ScoreLink 200 Transmitter, if purchased.
3. Plug the other end into the ¼” 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. Plug the shot clock hand held remote into the RJ45 jack mounted on the control console back plate labeled **DGT/SC Hand held**.
6. If a ScoreLink 200 RF MODEM SYSTEM is installed with this shot timer, 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 shot timer is operated with a 37-key control console. Figure 7 shows the keypad layout on the control console.



**Figure 7 Keypad Layout**

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

```
ELECTRO-MECH VER
SCOREBOARD B62C
```

After a few seconds the display will read:

```
000 D15:00 0 000
00 00 0 00
```

The shot timer will display the game time and the shot clock digits will display 0.

## Control Console Key Functions

1. **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].

2. **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.

3. **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.

4. **.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 1/10<sup>th</sup> 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:

```
CLCK ON <1>
.1 SEC OFF <0>
```

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

5. **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>
CLOCK     DOWN <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.

6. **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.

7. **CLOCK ON/OFF** – This key is used to start and stop the basketball game clock. **The clock must be on in order for the model 2180 to count down.**
8. **NEW GAME** – This key is used to reset all the shot timer functions to their default settings. To reset the shot timer, press [NEW GAME]. The console LCD display will read:

```

RESET     YES<1>
SCOREBOARD NO<0>

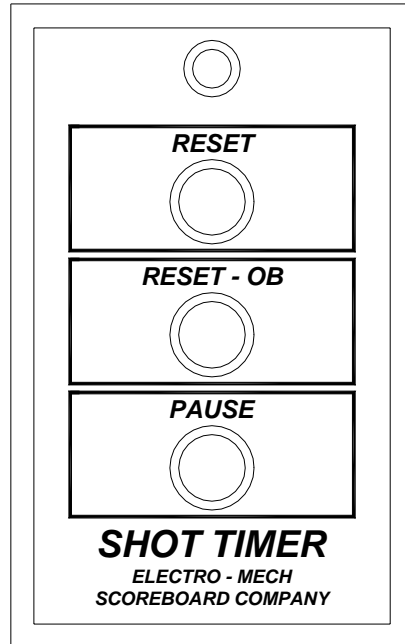
```

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

The other keys are not used with the model 2180 shot timer, but may be used for a compatible basketball scoreboard.

### Hand Held Shot Timer Control Unit Operation

The hand held shot timer control unit has an attached cable that is plugged into a jack on the control console back plate labeled **DGT/SC Hand held**. As seen in figure 8, it has three buttons. The operation of the buttons is described in the text below the figure.



**Figure 8 Hand Held Shot Timer Control Unit**

### **Shot Timer Button Functions**

The shot timer displays 25 seconds when the console is turned on or is reset for a new game.

1. **RESET** – This button is used to reset the shot timer to the time programmed in the console for ST RESET. The default time is 25 seconds.
2. **RESET-OB** – This button is used to reset the shot timer to the time programmed in the console as ST-OB RESET. The default time is 5 seconds.
3. **PAUSE** – This button is used to turn the delay of game timer digits on and off. The delay of game timer will initialize to 0 seconds when the digits are turned on.

### **Horn Operation**

The internal horn sounds for two seconds when the shot timer reaches 0 seconds.

### **Goal Light Indicator Operation**

The two goal light indicators on the shot timer will illuminate when the game clock reaches 0 seconds.

## SHOT TIMER SHUTDOWN

1. Place the power disconnect for the shot timer 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 shot timer, 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 shot timer shutdown will help protect the shot timer and control console from power surges and lightning strikes.

## SERVICING THE SHOT TIMER

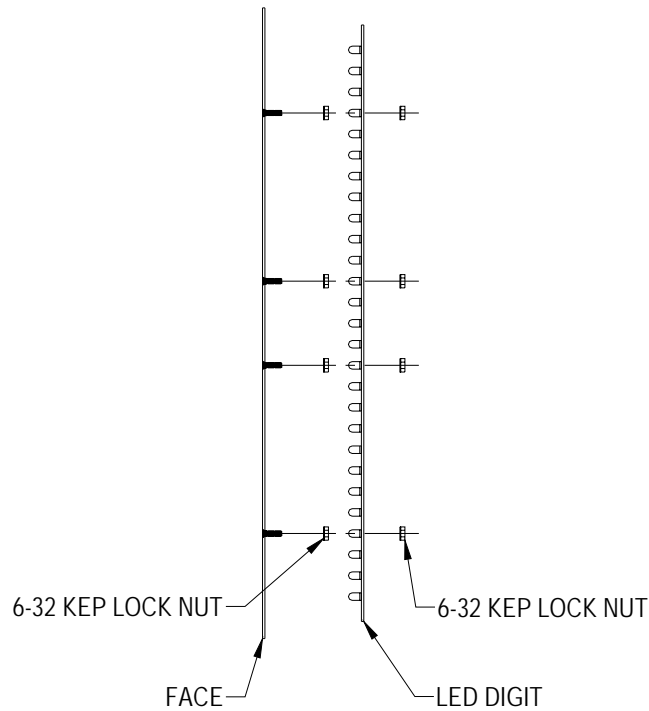
While your shot timer was designed for years of trouble-free operation, some problems may occasionally occur. Electro-Mech Scoreboard Company offers onsite service in some areas. In other areas, we can help you contact an independent service technician. In areas in which service is not available from 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 shot timer model number when calling. Shot timer 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

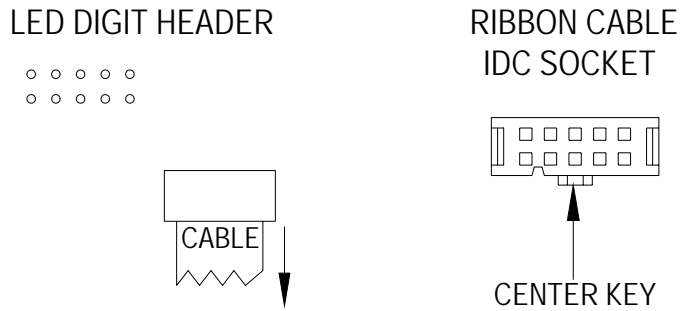
The LEDs that form digits are soldered on circuit boards mounted behind the shot timer face. Do not attempt to replace individual LEDs. In case of a malfunction, the entire LED circuit board must be removed. **To avoid damage to the LED driver module, always turn off the power to the shot timer when removing or replacing LED digits.** Figure 9 shows the components of a LED digit assembly.





**Figure 9 LED Digit Assembly**

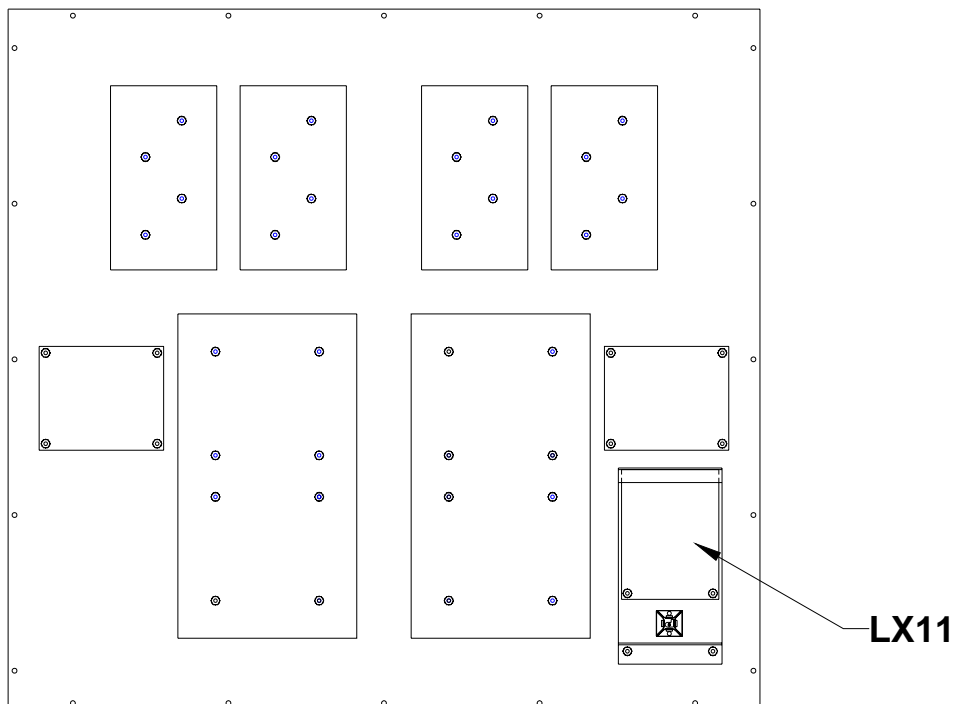
1. Remove the machine screws that fasten the face of the shot timer.
2. The wires and cables that connect from the shot timer cabinet to the rear side of the face are fastened with a releasable tie wrap. Squeeze the end of tie wrap to release it.
3. Disconnect the wires and cable from the jacks on the LX11 driver board.
4. Place the face assembly on a flat surface and remove the 6-32 kep lock nuts that hold the circuit board in place.
5. Remove the circuit board.
6. Align the mounting holes in the circuit board with the threaded studs on the mask and install the replacement digit on the mask.
7. Plug the ribbon cable onto the header on the back of the circuit board. Refer to figure 10 in order to plug the ribbon cable IDC connector onto the circuit board in the proper orientation.



CENTER KEY ON RIBBON CABLE IDC SOCKET  
MUST POINT IN THE SAME DIRECTION AS THE  
ARROW ON THE REAR OF THE LED DIGIT.

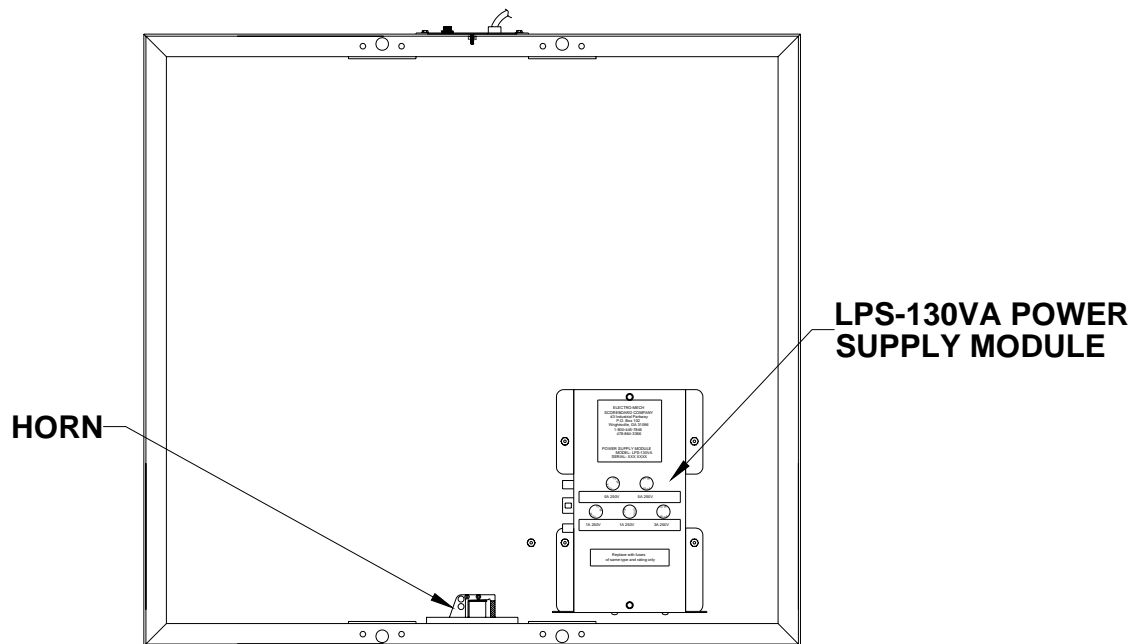
**Figure 10 LED Digit Ribbon Cable Connection Diagram**

The LX11 driver board is mounted on the rear of the face panel as shown in figure 11.



**Figure 11 LX11 Driver Board Location**

The LPS-130VA Power Supply Module and the horn are mounted inside the 2180 cabinet as shown in figure 12.



**Figure 12 LPS-130VA Power Supply Module and Horn Locations**

### LX11 DRIVER BOARD FUNCTIONS

DRIVER MODULE JACK	FUNCTION #1	FUNCTION #2
J1	DC POWER INPUT	
J2	SERIAL DATA INPUT	
J3	NOT USED	
J4	SHOT CLOCK SECONDS UNITS DIGIT	
J5	SHOT CLOCK SECONDS TENS DIGIT	
J6	CLOCK SECONDS UNITS DIGIT	
J8	GOAL LIGHT INDICATOR #1 h seg (RIGHT)	CLOCK MINUTES UNITS DIGIT
J9	CLOCK SECONDS TENS DIGIT	
J10	GOAL LIGHT INDICATOR #2 h seg (LEFT)	CLOCK MINUTES TENS
J15	HORN RELAY CONTROL	

## LED Driver Module Replacement

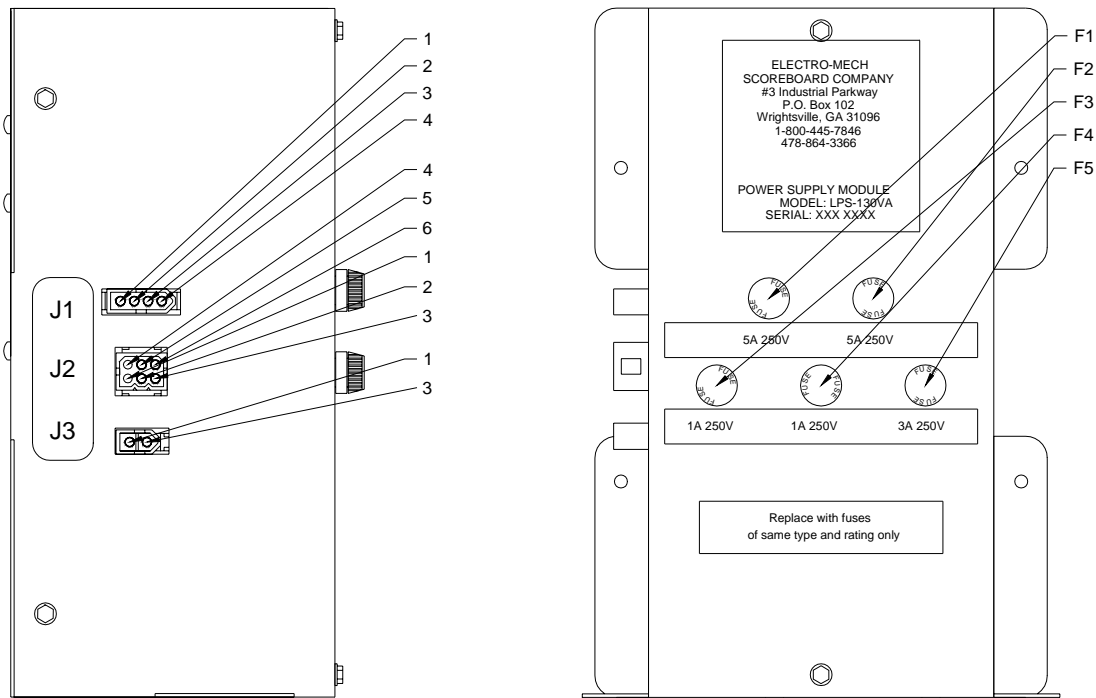
Electrical connections to the LX11 DRIVER BOARD are made with ribbon cable polarized IDC sockets and locking ramp crimp terminal housings that mate with jacks on the circuit board. The circuit board is secured on a metal bracket with two retaining nuts.

1. Unplug the electrical connections from the module. Do not cut the plastic tie wraps around the ribbon cables.
2. Remove the two nuts.
3. Remove the circuit board from the metal bracket.
4. Insert the replacement circuit board on the metal bracket.
5. Secure the circuit board with the two nuts.
6. Insert the plugs into the jacks on the circuit board.

**To avoid damage to the LX11 driver board, always turn off the power to the scoreboard when removing or replacing it.**

JACK	FUNCTION
J1	HORN CONTROL
J2	16 VDC OUTPUT TO LX11, HORN RELAY CONTROL
J3	120 VAC INPUT

Figure 13 shows the location of the LPS-130VA Power Supply Module fuses and jack pins. The table below figure 13 lists the fuse functions.



**Figure 13 LPS-130VA POWER SUPPLY MODULE**

## LPS-130VA FUSES

FUSE	RATING	FUNCTION	BUSSMAN PART #
F1	5A 250V	LX11 DC POWER INPUT	AGC-5
F2	5A 250V	NOT USED	AGC-5
F3	1A 250V	NOT USED	AGC-1
F4	1A 250V	HORN	AGC-1
F5	3A 250V	MAIN AC POWER	AGC-3

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

### LED Power Supply Module Replacement

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

1. Disconnect the plugs from the jacks on the module.
2. Remove the two machine screws.
3. Remove the module from the shot timer.
4. Insert the replacement module in the shot timer.
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 shot timer when removing or replacing it.**

### Horn Replacement

1. Remove the machine screws and nuts that fasten the horn to the bottom of the cabinet.
2. Pull the horn assembly out of the shot timer 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 shot timer.
4. Install the horn assembly and fasten it to the shot timer face using the machine screws and nuts.

## 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, NEGLIGENCE, ABUSE, MISUSE OR OTHER NATURAL DISASTERS, INCLUDING BUT NOT LIMITED TO FIRE, WIND, LIGHTNING, OR FLOOD, IS NOT COVERED BY THIS GUARANTEE.