



**All Sport Indoor Basketball**  
**LED Scoreboards**  
 Basketball and Shot Clocks  
 Installation/Maintenance Manual  
 (-9 Models)

**ED-10718**

All Sport is a registered trademark of Daktronics, Inc.

**Model Numbers:**

<b>Basketball:</b>		<b>Shot Clock:</b>	
BB-87-9	BB-2025-9	BB-2014-9	BB-2029-9
BB-1113-9	FP-15-9	BB-2015-9	
BB-1813-9	FP-257-9	BB-2023-9	
BB-2021-9		BB-2026-9	

**Note:** For specific information on your Daktronics scoreboard, refer to the Appendix located in the back of this manual. Please fill in the information lines below for your display to use as a reference when calling Daktronics for assistance.

Scoreboard Serial # \_\_\_\_\_  
 Scoreboard Model # \_\_\_\_\_  
 Date Installed \_\_\_\_\_

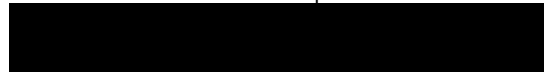
**ED-10718**  
**Product#1152**  
**Rev. 7 - 14 Oct 99**  
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**THROUGH TECHNOLOGY**

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# Section 1 : Introduction

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## 1.1 How To Use This Manual

---

This manual explains the installation and maintenance of Daktronics indoor LED scoreboards. For questions regarding the safety, installation, operation or service of this system, please refer to the telephone numbers listed on the cover page of this manual.

### Important Safeguards:

1. Read and understand these instructions before installing.
2. Do not drop the control console or allow it to get wet.
3. *Disconnect power when not using the scoreboard.*
4. *Disconnect power when servicing the scoreboard.*
5. Do not modify the scoreboard structure or attach any panels or coverings to the scoreboard without the express written consent of Daktronics, Inc.

Daktronics identifies manuals by an ED number located on the cover page of each manual. Any reference manuals called out in this manual will be identified by its ED number. For example, this manual is referred to as **ED-10718**.

The box below illustrates Daktronics drawing numbering system. Daktronics identifies individual drawing by drawing number (7087-P08A-69945, below), located in the lower right corner of the drawing. The manual refers to drawings by listing the last five digits and the letter preceding them. In the example, the drawing would be referred to as **Drawing A-69945**. All drawings reference drawings are inserted at the end of each section.

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ:	
TITLE:	
DES. BY:	DRAWN BY: DOK
DATE: 04-20-95	
APPR. BY:	7087-P08A-69945
SCALE: 1=80	

This manual covers a wide range of models which are constructed using the same components. The sections covering installation and maintenance apply to all of the models in general. The appendices contain lists of reference drawings, which offer more specific installation and maintenance information for each individual model. Carefully read the installation and maintenance sections, and review the model-specific drawings, before proceeding with the installation or maintenance of any display.

## 1.2 Scoreboard Overview

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This Daktronics scoreboard is one of a family of display systems designed to offer simple installation, easy readability, and reliability. Microprocessor control assures consistent operation and accuracy.

This manual covers All Sport<sup>7</sup> Indoor LED scoreboard models. These display configurations contain 5", 7", 10", and 13" LED digits. The reference drawings list dimensions and weight of each display. Scoreboard model number and electrical requirements are found on a label to the left of the period digit on the front of the scoreboard.

Please note the scoreboard model number, serial number, and installation date on the front page of this manual for future reference.

# Section 2 : Mechanical & Electrical Installation

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## 2.1 Product Safety Approval

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Daktronics Indoor LED Scoreboards are ETL listed, tested to CSA standards, and CE labeled for indoor use. Contact Daktronics with any questions regarding the testing procedures

## 2.2 Mounting Details

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The scoreboard frame comes equipped with lift eyes for installing the display and holes for attaching the display to the wall.

Due to the variety of wall materials used in sports facilities, Daktronics cannot anticipate a users individual installation needs or provide mounting hardware suitable for every installation. The required mounting hardware may be purchased at a local hardware store. Bolts with expansion or toggle anchors are available for a variety of wall materials. Choose a method of installation adequate to safely support the weight of the display. Refer to model-specific information in the appendices for mounting locations and model weights.

Use the lifting angles on the top of the frame to lift the display. Secure the display to the wall with the holes in the back. Use the holes at the bottom of the display to secure the bottom of the display to the wall in a similar manner. Refer to the appendices for model-specific information.

**Note:** Contact Daktronics about installations which involve suspending the scoreboard. Do not use scoreboard lift eyes as permanent installation support.

## 2.3 Electrical Installation

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Electrical installation involves routing power and control signal wiring through separate conduit or wire ways. Control signal cable and some junction boxes, as listed in the reference drawings, are not provided as part of this system and can be purchased locally or from Daktronics.

### 2.3.1 Power

---

**Reference Drawing:** Schematic, LED ..... **Drawing A-92112**

Each scoreboard has a 120 VAC, 3-prong plug. Install a grounded receptacle near the equipment so that it is easily accessible to plug in the power cord. The reference drawings located in the appendix list maximum power consumption for each scoreboard model.

The control console requires a 120 VAC receptacle and uses less than one amp of power. 230 VAC displays are available. They come equipped with a universal power plug. 230 VAC should be routed to the display in a similar manner as 120 VAC. Refer to **Drawing A-92112** for more information.

### 2.3.2 Grounding

---

Connect the scoreboard to earth-ground. Proper grounding assures reliable equipment operation and protects the equipment ... against damaging electrical disturbances and lightning. The grounding connection on the three-prong plug power cord connects to the shell of the scoreboard.

**Note:** The customer must properly ground the 120VAC outlet. Failure to ground the 120VAC outlet connection voids the warranty for the scoreboard.

### 2.3.3 Signal

---

**Reference Drawings:** Signal Connection, Installation..... **Drawing A-28124**  
Signal Connection ..... **Drawing A-40734**  
Signal Connection, 16-pin ..... **Drawing A-81347**

If running 4 or fewer scoreboards (simultaneously or independently), route conduit and cable between scoreboard location(s) and the control location. Use paired cable, 24 AWG, minimum shielded, and connect the cable to the junction box at the control end. Install the phone plug provided to the scoreboard end of the cable. Insert plug (P31) into the jack, located on the top or side of the scoreboard.

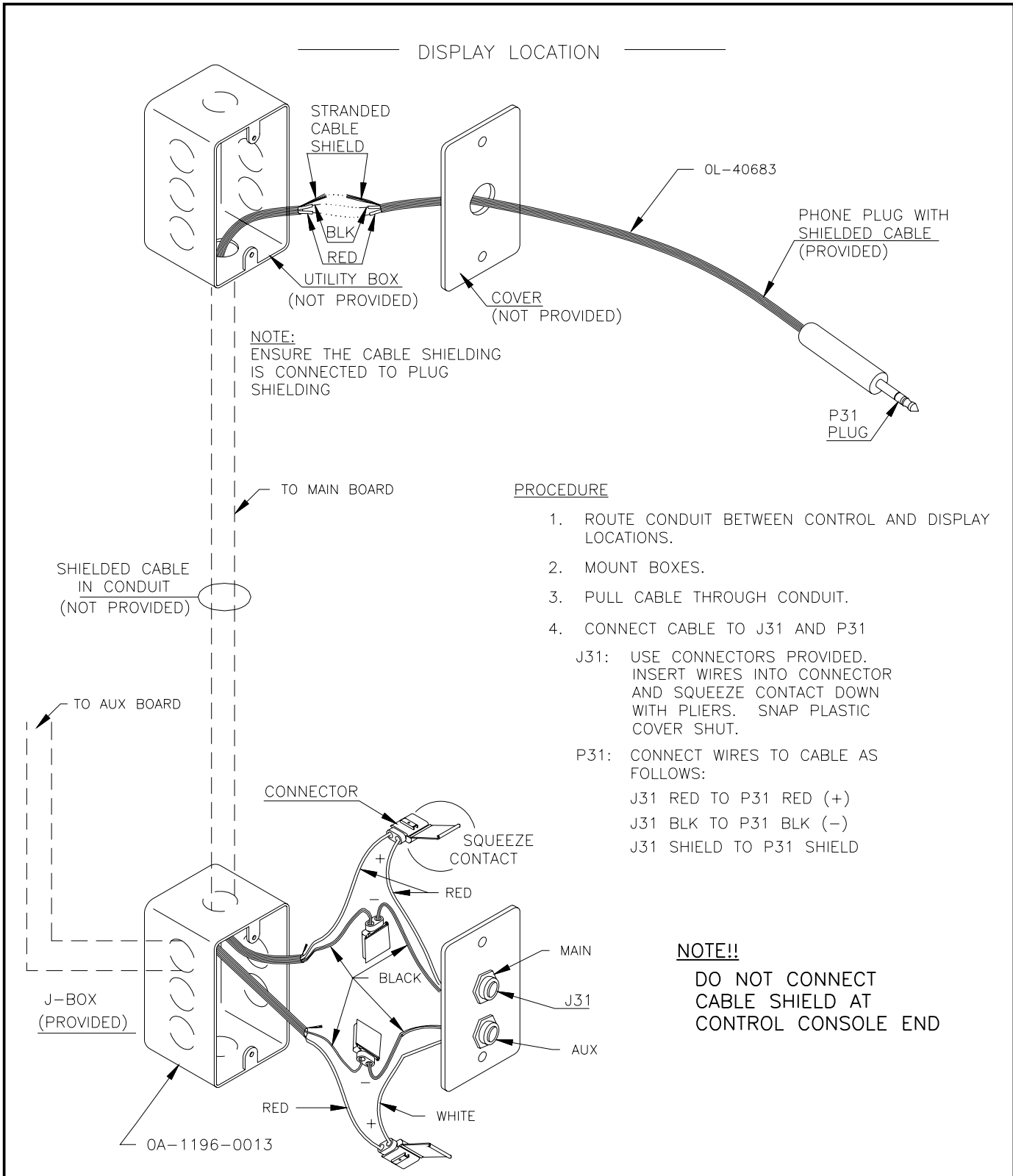
Refer to appropriate scoreboard appendix for wiring instructions. Also refer to **Drawings A-28124, A-40734, and A-81347** for more information.

## 2.4 Scoreboard Operating Codes

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Refer to the display reference drawings in the appendix and the All Sport<sup>7</sup> controller manual for display operating codes.





**PROCEDURE**

1. ROUTE CONDUIT BETWEEN CONTROL AND DISPLAY LOCATIONS.
2. MOUNT BOXES.
3. PULL CABLE THROUGH CONDUIT.
4. CONNECT CABLE TO J31 AND P31

J31: USE CONNECTORS PROVIDED. INSERT WIRES INTO CONNECTOR AND SQUEEZE CONTACT DOWN WITH PLIERS. SNAP PLASTIC COVER SHUT.

P31: CONNECT WIRES TO CABLE AS FOLLOWS:

- J31 RED TO P31 RED (+)
- J31 BLK TO P31 BLK (-)
- J31 SHIELD TO P31 SHIELD

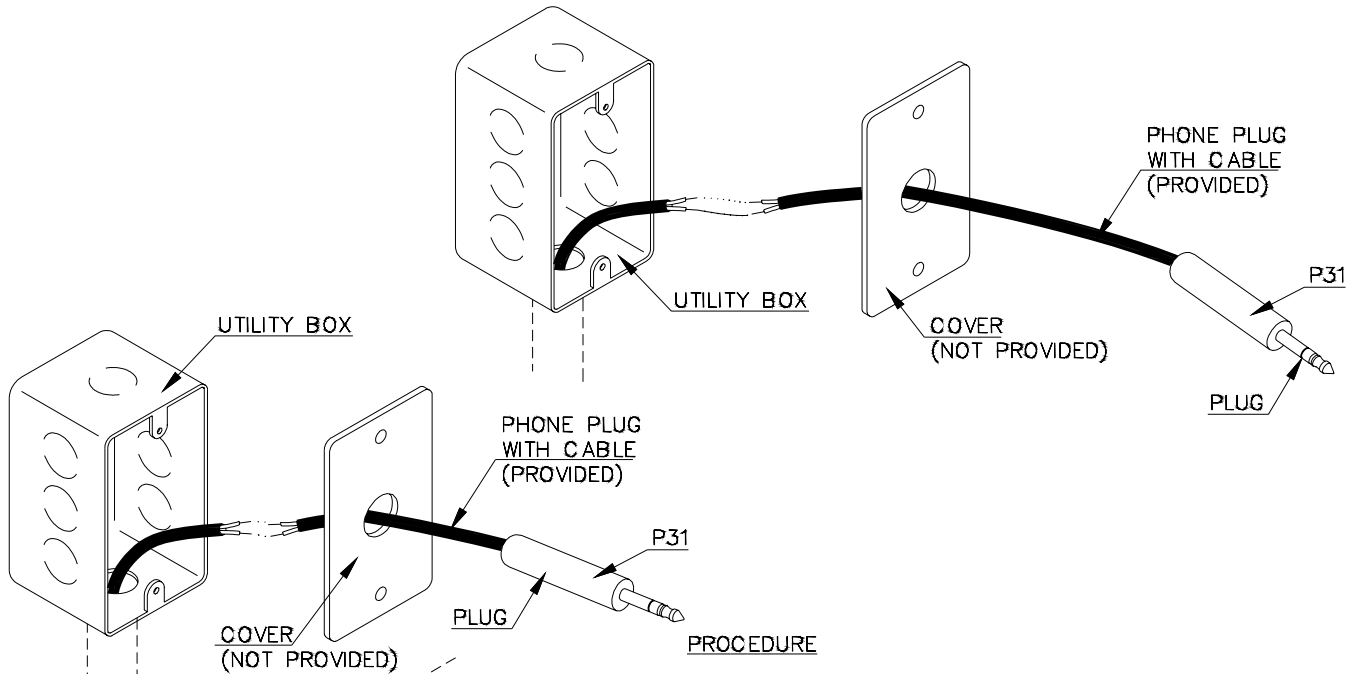
**NOTE!!**  
DO NOT CONNECT CABLE SHIELD AT CONTROL CONSOLE END

05	30 JUL 03	BOLD FACED GROUNDING NOTE	TLH	
04	17 JUN 03	CHANGED GROUING PROCEDURES	JJC	MWM
3	17 JAN 02	ADDED AUX TO J-BOX	JJS	
2	25 MAR 92	CHANGED WHITE TO RED	JTC	
1	05 NOV 91	REDREW ON A-SIZE ON ACAD.	JLH	
REV.	DATE	DESCRIPTION	BY	APPR.

————— CONTROL LOCATION —————

<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>			
PROJ: BASKETBALL			
TITLE: SIGNAL CONNECTION; INSTALLATION			
DES. BY: AVB	DRAWN BY: MHART	DATE: 15SEP86	
REVISION	APPR. BY: AVB	<b>1009-R10A-28124</b>	
05	SCALE: NONE		

DISPLAY LOCATION



PROCEDURE

1. ROUTE CONDUIT BETWEEN CONTROL AND DISPLAY LOCATIONS.
2. MOUNT BOXES.
3. PULL CABLE THROUGH CONDUIT.
4. CONNECT CABLE TO J31 AND P31

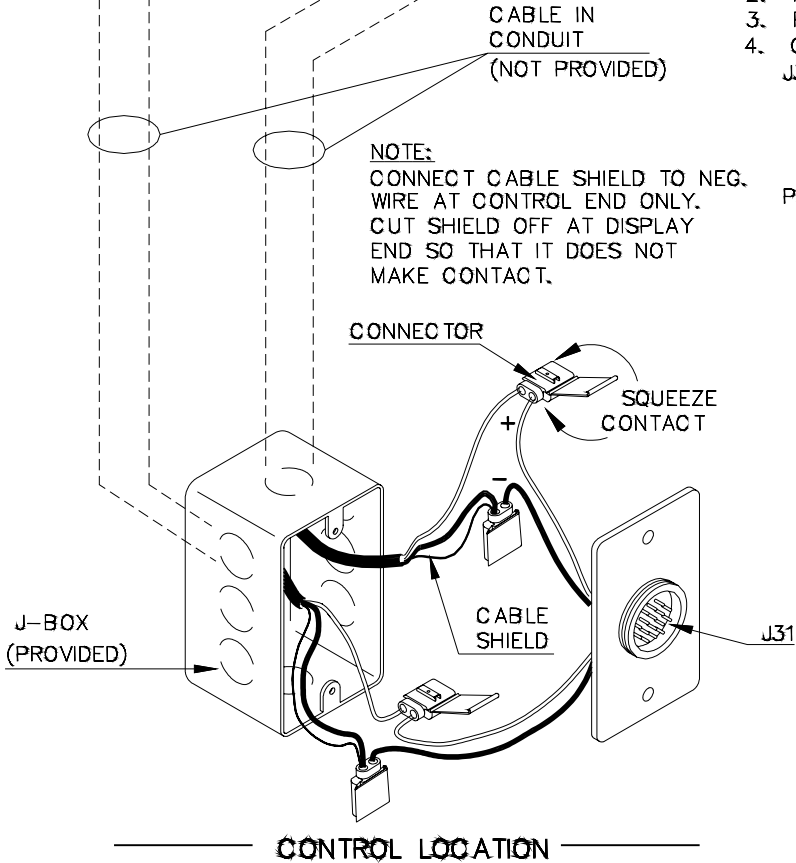
J31: USE CONNECTORS PROVIDED. INSERT WIRES INTO CONNECTOR AND SQUEEZE CONTACT DOWN WITH PLIERS. SNAP PLASTIC COVER SHUT.

P31: CONNECT WIRES TO CABLE AS FOLLOWS:

J31 BLK TO P31 RED (+)

J31 WHT TO P31 BLK (-)

**NOTE:**  
CONNECT CABLE SHIELD TO NEG. WIRE AT CONTROL END ONLY. CUT SHIELD OFF AT DISPLAY END SO THAT IT DOES NOT MAKE CONTACT.



PIN NO.	WIRE COLOR	OUTPUT FROM CONSOLE
1	RED	OUTPUT 1 +
2	BLACK	OUTPUT 1 -
3	WHITE	OUTPUT 2 +
4	GREEN	OUTPUT 2 -
5	ORANGE	OUTPUT 3 +
6	BLUE	OUTPUT 3 -
7	WHITE/BLACK	OUTPUT 4 +
8	RED/BLACK	OUTPUT 4 -
9	GREEN/BLACK	CLK RUN +
10	ORANGE/BLACK	CLK RUN -
11	BLUE/BLACK	STOPOUT +
12	BLACK/WHITE	STOPOUT -
13	RED/WHITE	SERIAL IN +
14	GREEN/WHITE	SERIAL IN -
15	BLUE/WHITE	12V IN +
16	BLACK/RED	12V IN -

CONTROL LOCATION

REV.	DATE	DESCRIPTION	BY	APPR.
3	13 MAR 98	CHNG TITLE BLOCK TO INCLUDE MORE PRODUCTS.	MWJ	HBONER
2	16 JAN 95	ADDED SECOND UTILITY BOX AND PIN NO. DETAIL.	NJA	
1	21 NOV 90	CHANGED FROM "B" TO "A" SIZE DWG. CHANGED DWG TITLE.	CF	

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: BASKETBALL

TITLE: SIGNAL CONNECTION, MULTIPLE SCOREBOARDS

DES. BY: AVB

DRAWN BY: JLH

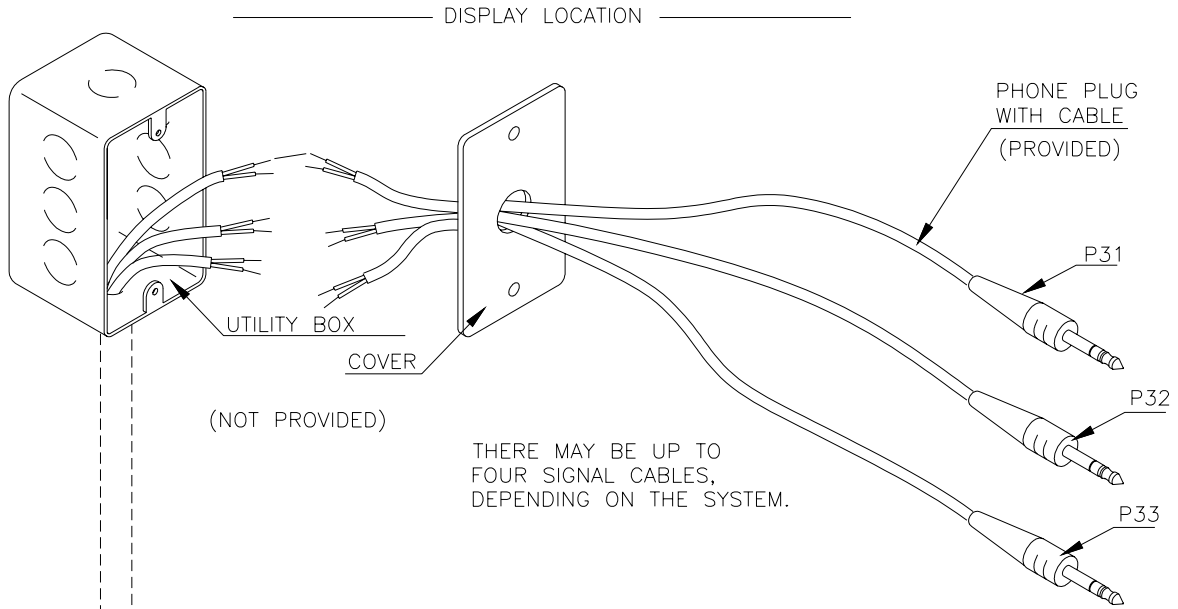
DATE: 14 DEC 89

REVISION

APPR. BY: AVB

SCALE: 1=1

1009-R10A-40734



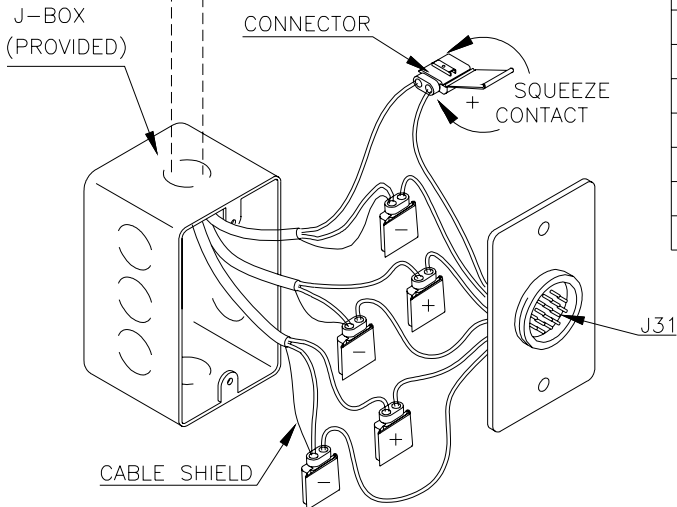
THERE MAY BE UP TO FOUR SIGNAL CABLES, DEPENDING ON THE SYSTEM.

**PROCEDURE**

1. ROUTE CONDUIT BETWEEN CONTROL AND DISPLAY LOCATIONS.
2. MOUNT BOXES.
3. PULL CABLE THROUGH CONDUIT.
4. CONNECT CABLE TO J31, P31, P32, AND P33 AS FOLLOWS:

CABLE IN CONDUIT  
(NOT PROVIDED)

CONTROL LOCATION



CONTROL LOCATION		FUNCTION	DISPLAY LOCATION	
J31 PIN NO.	WIRE COLOR AT J31		PLUG NO.	WIRE COLOR AT PLUG
1	RED	SIGNAL 1 +	P31	RED
2	BLACK	SIGNAL 1 -	P31	BLACK
3	WHITE	SIGNAL 2 +	P32	RED
4	GREEN	SIGNAL 2 -	P32	BLACK
5	ORANGE	SIGNAL 3 +	P33	RED
6	BLUE	SIGNAL 3 -	P33	BLACK
7	WHT/BLK	SIGNAL 4 +	P34	RED
8	RED/BLK	SIGNAL 4 -	P34	BLACK

NOTE:  
CONNECT CABLE SHIELD TO NEG. WIRE AT CONTROL END ONLY.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: STANDARD LED SCOREBOARDS

TITLE: SIGNAL CONNECTION, 16-PIN

DES. BY:

DRAWN BY: JMOEN

DATE: 24 APR 96

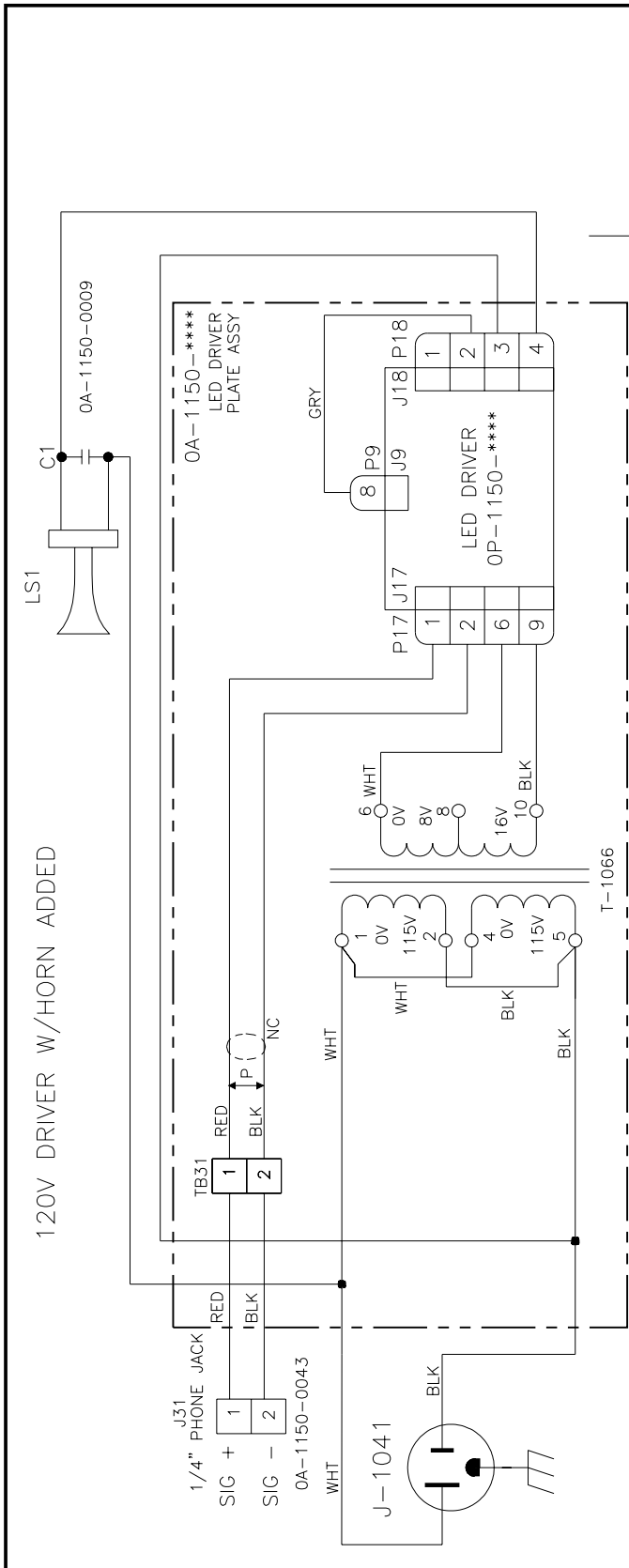
REVISION

APPR. BY:

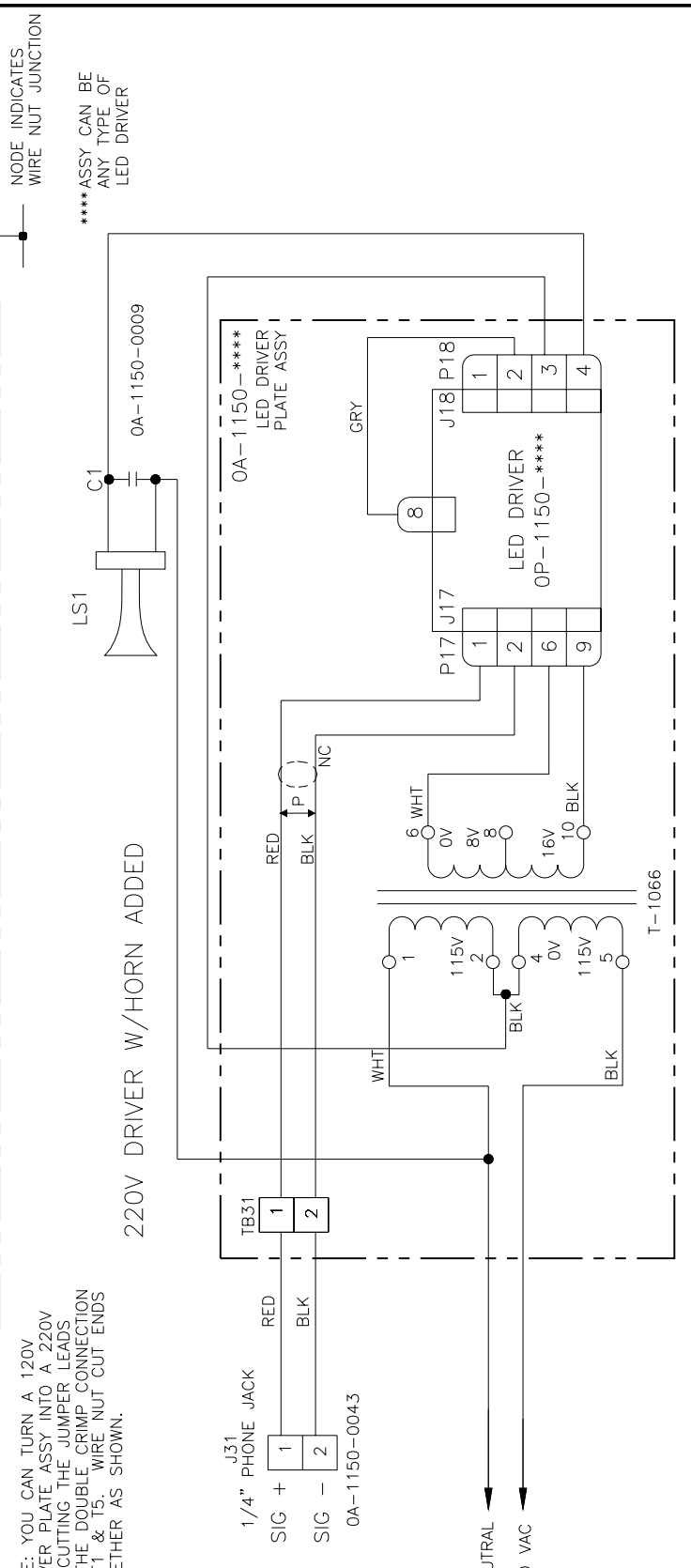
SCALE: NONE

1152-R10A-81347

REV.	DATE	DESCRIPTION	BY	APPR.
1	11 NOV 98	ADDED WIRES FOR 4TH OUTPUT IN TABLE.	AVB	AVB



120V DRIVER W/HORN ADDED



220V DRIVER W/HORN ADDED

NOTE: YOU CAN TURN A 120V DRIVER PLATE ASSY INTO A 220V BY CUTTING THE JUMPER LEADS AT THE DOUBLE CRIMP CONNECTION AT T1 & T5. WIRE NUT CUT ENDS TOGETHER AS SHOWN.

NODE INDICATES WIRE NUT JUNCTION

\*\*\*\*ASSY CAN BE ANY TYPE OF LED DRIVER

REV.	DATE	DESCRIPTION	BY	APPR.
04	22 APR 04	UPDATED PER ECO# 040473	RT	MM
03	21 DEC 98	UPDATED 220V SCHEMATIC. REMOVED TERMINAL BLOCKS, AND GROUND LUG. CHANGED HOW HORN IS TERMINATED.	CJB	
2	13 NOV 97	ADDED HORN AND 220 VOLT WIRING.	HBB	
1	25 JUL 97	REMOVED FUSE AND 2 POSITION TERMINAL BLOCK	RDA	C.M.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ:

TITLE: SCHEMATIC; LED DRIVER PLATE W/TRANSFORMER

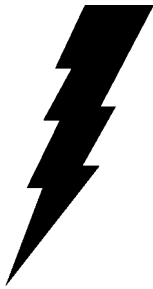
DES. BY: EBRAVEK DRAWN BY: EBRAVEK DATE: 11APR97

REVISION 04 APPR. BY: SCALE: 1=1

1152-R01A-92112

# Section 3 : Maintenance & Troubleshooting

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## Important Notes:

1. Disconnect power before any repair or maintenance work is done on the scoreboard!
2. Any access to internal scoreboard electronics must be made by qualified service personnel.
3. Disconnect power when the scoreboard is not in use.

### 3.1 LED Driver

---

**Reference Drawings:** LED Driver ..... **Drawing A-87407**  
4-Column Driver Reference ..... **Drawing A-91380**

The LED driver (refer to **Drawing A-87407**) performs the task of switching LEDs on and off. Each driver has 19 connectors providing power and signal inputs/outputs to digits and indicators. The following table shows the function of these connectors.

Connector No.	Function
1-16	Output to digits and indicators
17	Control signal and power input
18	Control for horn
19	Address ( not used in these models)

Output connectors 1 through 16 each have 9 pins. Pin 7 provides power to the digit or indicators wired to that connector. The other 8 pins provide switching connections. Refer to **Drawing A-91380** for smaller LED driver function. Refer to the reference drawings for digit driver designation.

### 3.2 Component Location, Access and Schematic

---

**Reference Drawings:** Cable, 25-Pin to 16-Pin, 16 Cond..... **Drawing A-31020**  
Segmentation, 7 Segment Bar Digit ..... **Drawing A-38532**  
Schematic, Digits..... **Drawing A-77213**  
Rear View, All Sport 4000 ..... **Drawing A-87150**  
Wiring Diagram, LED Shot Clock ..... **Drawing A-90746**

The LED driver is located behind a panel, as indicated in the drawings. Release the fasteners securing the panel to gain access.

Refer to the drawings listed above for power and signal connection information and for component location.

*Disconnect power before servicing display and when not using the scoreboard!* Leaving the power on may shorten the life of some electronic components.

### 3.3 Adjusting the Horn Volume

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⚠ **Caution:** *The horn is a 120VAC device. Turn off the power to the scoreboard before adjusting the horn!*

The horn is adjusted at the factory for maximum volume. If it is too loud for your facility, the volume can be turned down. To decrease the horn's volume:

1. Remove the panel from the portion of the scoreboard containing the horn.
  2. The back of the horn has a 3/8" hex head screw that tightens against a spring. Tighten this screw to reduce the distance between the horn's magnet and the diaphragm, reducing the horn volume. Adjust the volume using small adjustments.
  3. Test the sound of the horn between adjustments from the control console.
  4. When the horn sounds at the desired level, reinstall the panel.
- Four-sided scoreboards have a horn in each of the four sides (faces).

If the horn is not loud enough for your facility, a trumpet horn may be purchased. On a four-sided scoreboard, a single trumpet horn may be mounted behind one of the scoreboard faces, pointing down at the court. Contact Daktronics for more information and pricing.

### 3.4 Troubleshooting

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The following table provides a list of possible problems that could occur to the scoreboard and corrective actions to take. Refer to the scoreboard specification sheets to obtain the correct replacement part number for any damaged components. For assistance with any troubleshooting and to order replacement components, *contact your service provider first*. Your service provider may have spare equipment on hand and may provide same day service in the event of an emergency. Your service provider may direct you to call Daktronics. A service provider may not be applicable to your facility. In this event, feel free to call Daktronics. For faster service, please note the make of your scoreboard and any possible assembly numbers, as noted on the scoreboard spec sheet. If you need to order replacement components, it would be helpful to have a Purchase Order number or any other purchase information available at the time you call.

Symptom/Condition	Possible Cause	Corrective Action
Scoreboard will not light.	<ul style="list-style-type: none"><li>• Console not connected or poor connection.</li><li>• No power to control console.</li><li>• No power to the scoreboard.</li><li>• Wrong code entered into All Sport/ Main Fuse blown (if applicable).</li></ul>	<ul style="list-style-type: none"><li>• Check signal cable.</li><li>• Check power to console</li><li>• Check power to scoreboard</li><li>• Verify code to console</li></ul>
Garbled display.	<ul style="list-style-type: none"><li>• Internal driver logic malfunction.</li><li>• Control console malfunction.</li></ul>	<ul style="list-style-type: none"><li>• Check power.</li><li>• Verify code to console</li></ul>
Digit will not light.	<ul style="list-style-type: none"><li>• Black wire to digit broken/ Poor contact at driver connection.</li></ul>	<ul style="list-style-type: none"><li>• Verify power harness in display.</li></ul>
Segment will not light.	<ul style="list-style-type: none"><li>• Broken LED or connection</li></ul>	<ul style="list-style-type: none"><li>• Replace digit.</li></ul>

	<ul style="list-style-type: none"> <li>• Driver shift register failure.</li> <li>• Broken wire between LED driver and digit/ Poor contact at driver connector.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace driver.</li> <li>• Secure pins tightly in plugs</li> </ul>
Segment stays lit.	<ul style="list-style-type: none"> <li>• Driver shift register failure/ Short circuit on digit.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace driver.</li> </ul>

### 3.5 Warranty and Maintenance Program

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Daktronics recommends that each customer keep an inventory of essential spare parts available in case problems arise. If equipment fails, the customer's local service staff technician can get the equipment operational again with spare parts kept on hand. The failed components are then shipped to Daktronics for quick parts exchange.

To provide parts quickly, Daktronics introduced a Parts Exchange Program over 20 years ago. The program offers a quick and economical way to replenish the customer's inventory if a component fails. Under normal circumstances, Daktronics sends a reconditioned replacement part in a 24-hour period, if possible.

To avoid being billed for the components, the customer must send all failed components to Daktronics *within 15 days of receiving the exchange components from Daktronics*. This saves the customer money and reduces down time. The exchange program complements the spare parts inventory. In urgent situations, Daktronics makes every attempt to ship using the fastest method available.

Contact Daktronics= Help Desk at 1-(800)-843-9879. A Daktronics technician is on-call from Friday evening until Monday morning. A special call-diverting system notifies the on-call technician during the weekend. The call-diverting system asks the customer to leave a message and telephone number, including area code, for the technician to call back. In emergency situations, Daktronics makes every effort to ship replacement equipment if necessary. Again, Daktronics leads the industry with this unique weekend service.

For exact warranty information for the Daktronics Scoreboard, refer to the warranty information sent with the original purchase packet for the scoreboard. Unless specifically stated in the warranty agreement, *the warranty does not cover on site labor*.

### 3.6 Replacement Parts List

---

The following parts list includes components for many different types of LED scoreboards. For the exact components needed for your scoreboard, refer to the reference drawings in the back of this manual.

Description	Part No.	Description	Part No.
Main Clock, Start/Stop switch	0A-1166-0003	Cable, 10 Ft Phone	W-1340
Shot Clock, Start/Stop switch	0A-1166-0004	Player foul; red and green LED	0P-1150-0055
Console, All Sport 4000	0A-1166-0001	Colon/decimal; 13", red, LED	0P-1150-0056
Horn, 120VAC	DS-1040	Colon/decimal; 13", amber, LED	0P-1150-0058
Fuse MDL-2	F-1002	Colon; 7" and 10", green, LED	0P-1150-0060
Fuse MDA-6	F-1023	Digit, 7" Red, 7Seg	0P-1150-0036
Fuseholder; panel mount	X-1032	Digit, 7" Grn, 7Seg	0P-1150-0037

Fuse, MDL-1	F-1025	Digit, 7" Amb, 7Seg	0P-1150-0038
Plug; 3@ phone	P-1041	Digit, 7" Red, 2Seg	0P-1150-0039
Transformer, 120P/16S, 63A	T-1066	Digit, 7" Grn, 2Seg	0P-1150-0040
Transformer, 120P/16S, 2A	T-1063	Digit, 7" Amb, 2Seg	0P-1150-0041
Junction Box; Phone Jack	0A-1009-0038	Digit, 10"Red, 7Seg	0P-1150-0042
J-Box; 16-pin Circular	0A-1010-0026	Digit, 10"Grn, 7Seg	0P-1150-0043
LED Driver, 16 Column	0P-1150-0017	Digit, 10"Amb, 7Seg	0P-1150-0044
LED Driver, 16 Column Coated	0P-1150-0018	Digit, 10"Red, 2Seg	0P-1150-0045
Arrow, 3", Red LED	0P-1150-0003	Digit, 10"Grn, 2Seg	0P-1150-0046
Arrow, 3", Green LED	0P-1150-0035	Digit, 10"Amb, 2Seg	0P-1150-0047
LED Driver, 4 Column	0P-1150-0021	Digit, 13"Red, 7Seg	0P-1150-0048
Cable, 10' 25 pin D to 16 pin Cir	0A-1065-0026	Digit, 13"Grn, 7Seg	0P-1150-0049
Cable, 30', 25 Pin to 16 Pin Cir	0A-1065-0010	Digit, 13"Amb, 7Seg	0P-1150-0050
Cable, 50', 25 Pin to 16 Pin Cir	0A-1065-0011	Digit, 13"Red, 2Seg	0P-1150-0051
Cable, 20' Phone Plug	W-1236	Digit, 13"Grn, 2Seg	0P-1150-0052
Cable, 50' Phone Plug	W-1237	Digit, 13"Amb, 2Seg	0P-1150-0053
Cable, 30' Phone Plug	W-1238	Cable, 20 Ft Phone	W-1236
Cable, 10' Phone Plug	W-1340	Cable, 30 Ft Phone	W-1238
Cable, 10', 25-Pin to 16-Pin	0A-1065-0026	Cable, 50 Ft Phone	W-1237
Cable, 20', 25 Pin to 16 Pin	0A-1065-0102	Colon/decimal; 13", green, LED	0P-1150-0057
Cable, 30', 25 Pin to 16 Pin	0A-1065-0010	Colon; 7" and 10", red, LED	0P-1150-0059
Cable, 50', 25 Pin to 16 Pin	0A-1065-0011	Colon; 7" and 10", amber, LED	0P-1150-0061
Y-Adapter, 16 Pin	0F-1065-0101		

### 3.7 Daktronics Exchange/Repair & Return Programs

---

To serve customers' repair and maintenance needs, Daktronics offers both an exchange and a repair and return program. The exchange program reduces down time by providing timely replacement of key components. This service is provided to qualified customers who follow the program guidelines explained below. It is our pleasure to provide this service to ensure you get the most from your Daktronics products. Please call our Help Desk (1-800 / 843-9879) if you have any questions regarding the exchange program or any other Daktronics service.

When you call the Daktronics Help Desk, a trained service technician will work with you to solve the equipment problem. You will work together to diagnose the problem and determine which exchange replacement part to ship. If, after you make the exchange, the equipment still causes problems, please contact our Help Desk immediately.

If the replacement part fixes the problem, package the defective part in the same packaging the replacement part arrived in, fill out and attach the enclosed UPS shipping document and **RETURN THE PART TO DAKTRONICS**. (You may use the same box and packing the exchange part was sent in.) This will speed up the transaction and alleviate confusion when the failed component arrives at Daktronics. (Daktronics expects immediate return of the exchange part if it does not solve the problem.) For most equipment, you will be invoiced for the replacement part at the time it is shipped. This invoice is due when you receive it.



Daktronics reserves the right to refuse equipment that has been damaged due to acts of nature or causes other than normal wear and tear.

*If the defective equipment is not shipped to Daktronics within 30 working days from the invoice date, it is assumed you are purchasing the replacement part and you will be invoiced for it.* This second invoice represents the difference between the exchange price and the purchase price of the equipment. This amount is due when you receive the second invoice. If you return the exchange equipment after 30 working days from invoice date, you will be credited for the amount on the second invoice minus a restocking fee.

**≅To avoid a restocking charge, please return the defective equipment within 30 days from the invoice date.**

Daktronics also offers a Repair and Return program for items not subject to exchange.

**Where to Send:** To return parts for service, contact your local representative prior to shipment to acquire a Return Material Authorization Number (RMA#). If you have no local representative, call the Daktronics Help Desk for the RMA#. This will expedite the receiving process.

**Packaging for Return:** Package and pad the item well so that it will not be damaged in shipment. Electronic components such as printed circuit boards should either be installed in an enclosure or should be put in an anti-static bag before boxing. Please enclose your name, address, phone number and a clear description of symptoms.

**Mail:** Daktronics, Inc., Customer Service  
PO Box 5128  
331 32nd Avenue  
Brookings, SD 57006

**Phone:** Daktronics Help Desk: 1-800/843-9879  
or 1-605/697-4400

**Customer Service Fax:** 1-605-697-4444

**e-mail:** helpdesk@daktronics.com

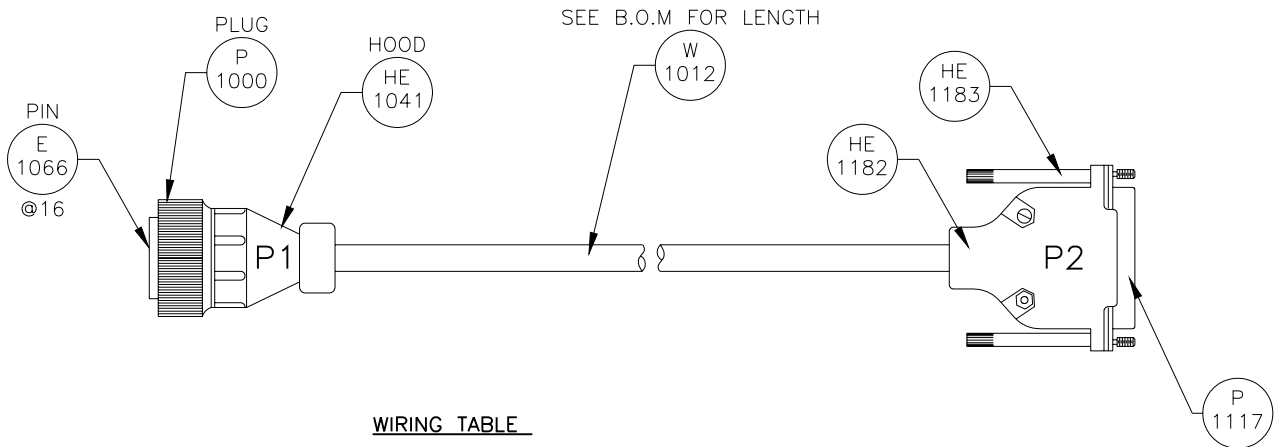
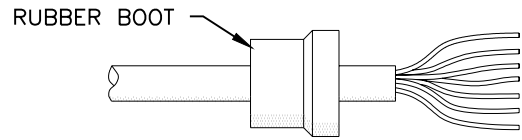


FOR 25-PIN HOOD:

SELECT THE RUBBER BOOT THAT FITS SNUGLY ON THE CABLE.

SLIDE IT ONTO THE CABLE POSITIONED AS SHOWN AND ATTACH HOOD.

TOP OF THE BOOT SHOULD BE FLUSH WITH THE HOOD, OR PROTRUDING NO MORE THAN 1/16".



WIRING TABLE

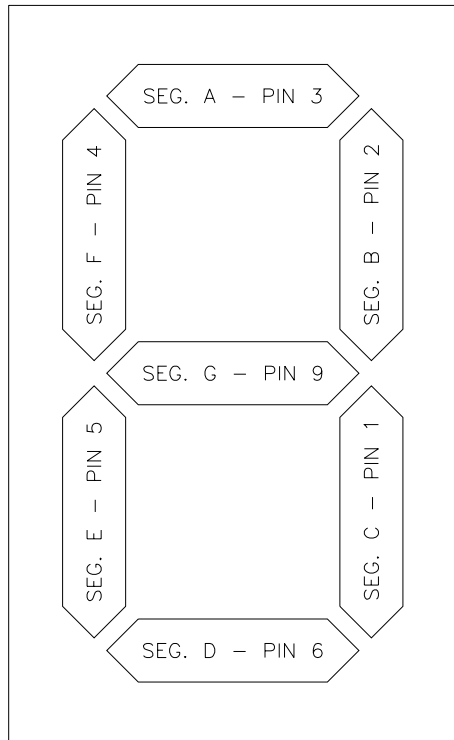
FROM	WIRE COLOR	FUNCTION	TO
P1-1	BLK	1SIG-P	P2-14
P1-2	WHT	1SIG-N	P2-15
P1-3	RED	2SIG-P	P2-16
P1-4	GRN	2SIG-N	P2-17
P1-5	ORG	3SIG-P	P2-18
P1-6	BLU	3SIG-N	P2-19
P1-7	WHT/BLK	4SIG-P	P2-22
P1-8	RED/BLK	4SIG-N	P2-7
P1-9	GRN/BLK	CLKRUN-P	P2-8
P1-10	ORG/BLK	CLKGND-N	P2-21
P1-11	BLU/BLK	STOPOUT-P	P2-11
P1-12	BLK/WHT	STOPOUT-N	P2-23
P1-13	RED/WHT	SERIN-P	P2-9
P1-14	GRN/WHT	SERIN-N	P2-10
P1-15	BLU/WHT	12V IN	P2-24
P1-16	BLK/RED	12V IN	P2-25

WIRE COLORS NOT USED

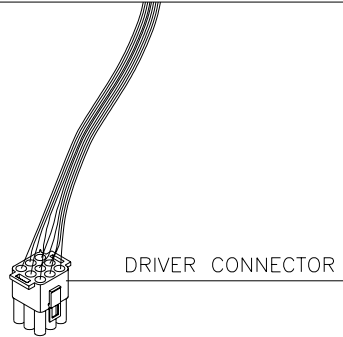
WHT/RED  
ORG/RED  
BLU/RED  
RED/GRN

REV.	DATE	DESCRIPTION	BY	APPR.
8	16OCT00	CHANGED W-1012 FROM 10 FT TO SEE B.O.M. DUE TO VARIOUS LENGTH IN DIFFERENT PACKETS	RLONG	
7	3 MAR 91	CHANGED W-1247 TO W-1012, DELETED L-49352, ADDED HE-1182, HE-1183 AND P-1117, CHANGED WIRE COLORS IN CHART.	C FICK	
6	04NOV91	REMOVED P-1117, HE-1182, HE-1183, & W-1012. REPLACED WITH W-1247.	JLH	
5	30APR91	CHANGED 25-PIN PLUG AND HOOD PART NUMBERS TO P-1117, HE-1182, AND HE-1183. REDRAWN ON A-SIZE.	AVB	AVB

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ:	ALL SPORT CONSOLES
TITLE:	CABLE, 25-PIN TO 16-PIN, 16-COND
DES. BY:	BLENDT
DRAWN BY:	BLENDT
DATE:	14AUG87
REVISION	APPR. BY:
08	SCALE: 1=2
1065-E07A-31020	

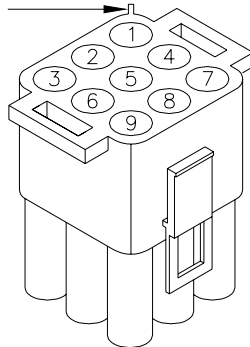


7 SEGMENT BAR DIGIT  
FRONT VIEW



COLOR CODE		
PIN NO.	WIRE COLOR	DRIVER SEGMENT
1	ORN	C
2	RED	B
3	BRN	A
4	BLU	F
5	PNK	E
6	TAN	D
7	BLK	COM.
8	GRY	H
9	VIO	G

CONNECTOR PIN NUMBERING  
NOTE SPLINE NEAR NO. 1



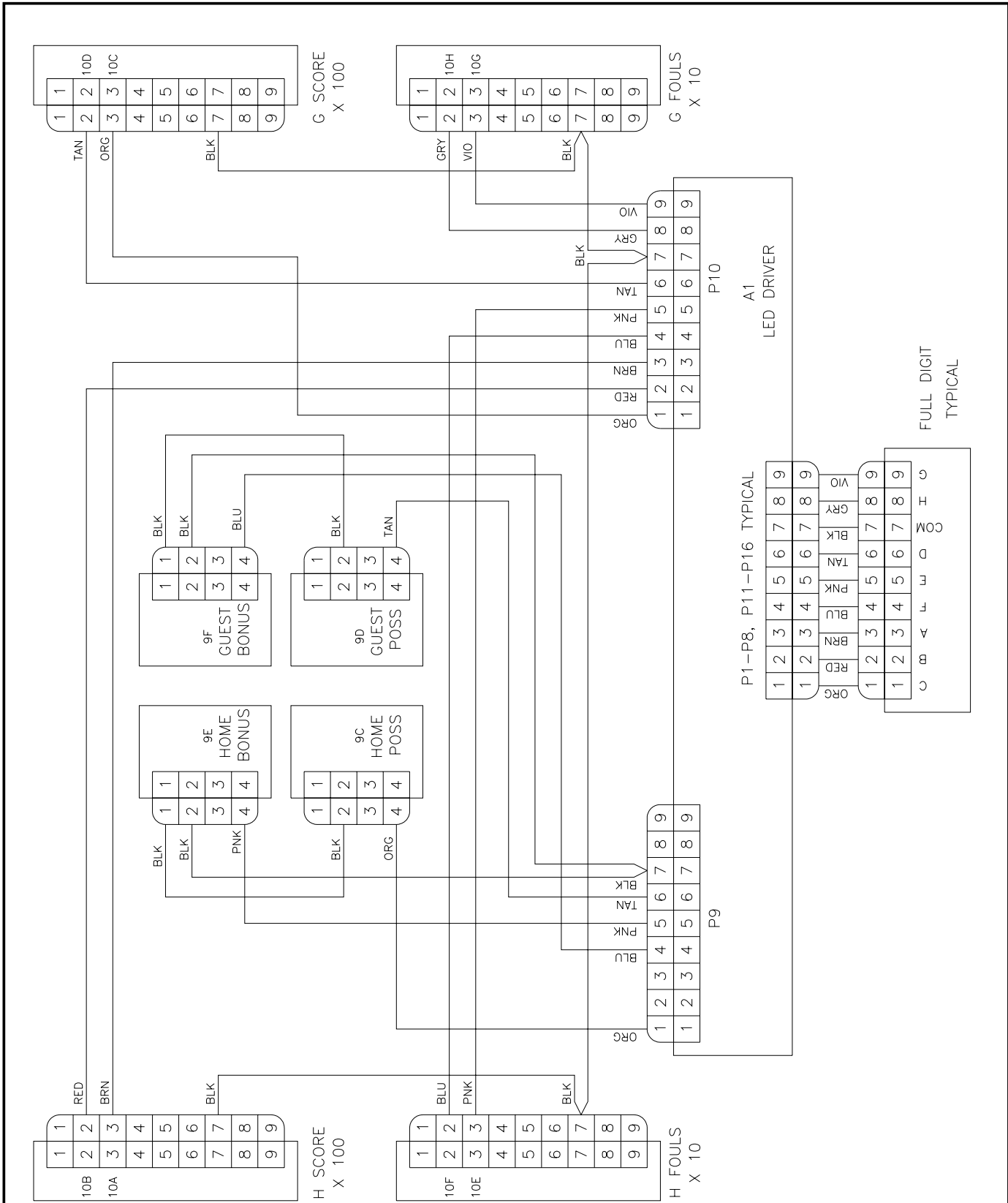
NOTE: "H" SEGMENT, GRAY WIRE IS NOT USED ON 7 SEGMENT BAR DIGIT.

THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS, INCLUDING ELECTRONICALLY WITHOUT THE EXPRESSED WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2003 DAKTRONICS, INC.

DAKTRONICS, INC. BROOKINGS, SD 57006

REV.	DATE	DESCRIPTION	BY	APPR.
2	30 APR 97	ADDED SEGMENT DESIGNATIONS TO DIGIT FIGURE.	AVB	AVB
1	2 JAN 92	CHANGED FROM B-SIZE TO A-SIZE DWG.	C FICK	

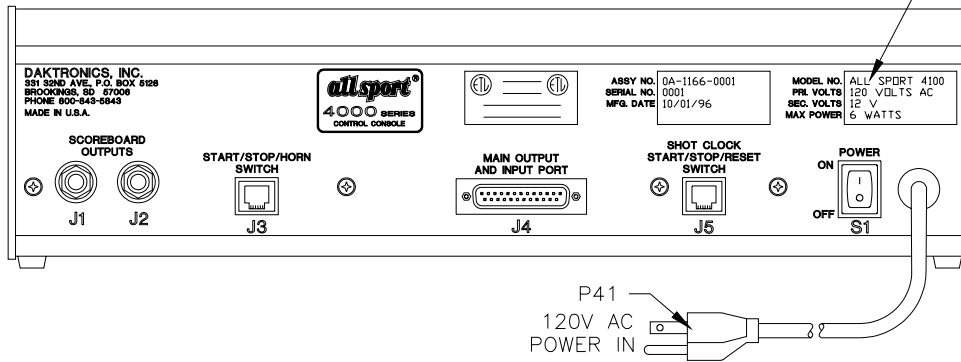
PROJ:	BASKETBALL
TITLE:	SEGMENTATION, 7 SEGMENT BAR DIGIT
DES. BY:	DRAWN BY: HEIDERSCHIEDT DATE: 5 JUN 89
REVISION	APPR. BY: AVB
02	SCALE: 1=4
1009-R04A-38532	



<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>					
PROJ: LED SCOREBOARDS					
TITLE: SCHEMATIC, DIGITS & INDICATORS, BB-1813L					
DES. BY:	DRAWN BY: A VANBEMMEL			DATE: 29 NOV 95	
REVISION	APPR. BY:	SCALE: NONE		1152-R03A-77213	

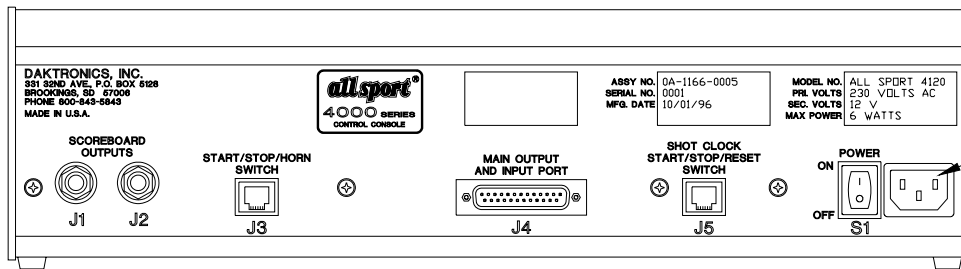
1	22 JUL 98	CORRECTED BLACK WIRES TO 9C, 9D, 9E, & 9F	AVB	AVB
REV.	DATE	DESCRIPTION	BY	APPR.

ALL SPORT 4100 & 4900:



LOOK HERE TO DETERMINE THE MODEL NUMBER AND POWER SPECIFICATIONS

ALL SPORT 4120 & 4920:



J41  
230V AC  
POWER IN

J1 & J2 - OUTPUT #1

CONTACT	FUNCTION
TIP	CURRENT LOOP OUTPUT 1 +
RING	CURRENT LOOP OUTPUT 1 -
SHAFT	GND

J3 - START/STOP/HORN

PIN #	FUNCTION
1	SWITCH INPUT 2 -
2	SWITCH INPUT 1 -
3	SWITCH OUTPUT -
4	SWITCH OUTPUT +
5	SWITCH INPUT 1 +
6	SWITCH INPUT 2 +

J5 - SHOT CLOCK

PIN #	FUNCTION
1	SWITCH INPUT 5 -
2	SWITCH INPUT 4 -
3	SWITCH INPUT 3 -
4	SWITCH INPUT 3 +
5	SWITCH INPUT 4 +
6	SWITCH INPUT 5 +

J4 - MAIN PORT

PIN #	FUNCTION
1	EARTH
2	RS232 RECEIVE +
3	RS232 TRANSMIT +
4	
5	
6	
7	CURRENT LOOP OUTPUT 4 -
8	SWITCH INPUT 1 +
9	CURRENT LOOP INPUT +
10	CURRENT LOOP INPUT -
11	SWITCH OUTPUT +
12	
13	
14	CURRENT LOOP OUTPUT 1 +
15	CURRENT LOOP OUTPUT 1 -
16	CURRENT LOOP OUTPUT 2 +
17	CURRENT LOOP OUTPUT 2 -
18	CURRENT LOOP OUTPUT 3 +
19	CURRENT LOOP OUTPUT 3 -
20	
21	SWITCH INPUT 1 -
22	CURRENT LOOP OUTPUT 4 +
23	SWITCH OUTPUT -
24	12V AC/DC INPUT
25	12V AC/DC INPUT

FOR STANDARD CODES, THESE FUNCTIONS ARE USUALLY ASSIGNED TO THE FOLLOWING TASKS:

FUNCTION	USUAL TASK
SW IN 1	MAIN CLOCK STOP/START
SW IN 2	MAIN CLOCK HORN
SW IN 3	NOT USED
SW IN 4	SHOT/DELAY CLOCK STOP
SW IN 5	SHOT/DELAY CLOCK RESET
SW OUT	CLOCK STOP OUT
CL OUT 1	MAIN SCOREBOARD
CL OUT 2	MAIN SCOREBOARD
CL OUT 3	SHOT/DELAY CLOCK
CL OUT 4	AUX. SCBD/TEAM NAME MC

ALL SPORT 4000 SERIES MODELS

MODEL #	FUNCTION
4100	120V, STANDARD PROGRAMMING
4120	230V, STANDARD PROGRAMMING
4900	120V, CUSTOM PROGRAMMING
4920	230V, CUSTOM PROGRAMMING

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: ALL SPORT 4000 SERIES CONSOLES

TITLE: REAR VIEW, CONNECTOR ASSIGNMENTS

DES. BY: \_\_\_\_\_ DRAWN BY: A VANBEMMEL DATE: 03 OCT 96

REVISION APPR. BY: \_\_\_\_\_ SCALE: 1=3

1166-R04A-87150

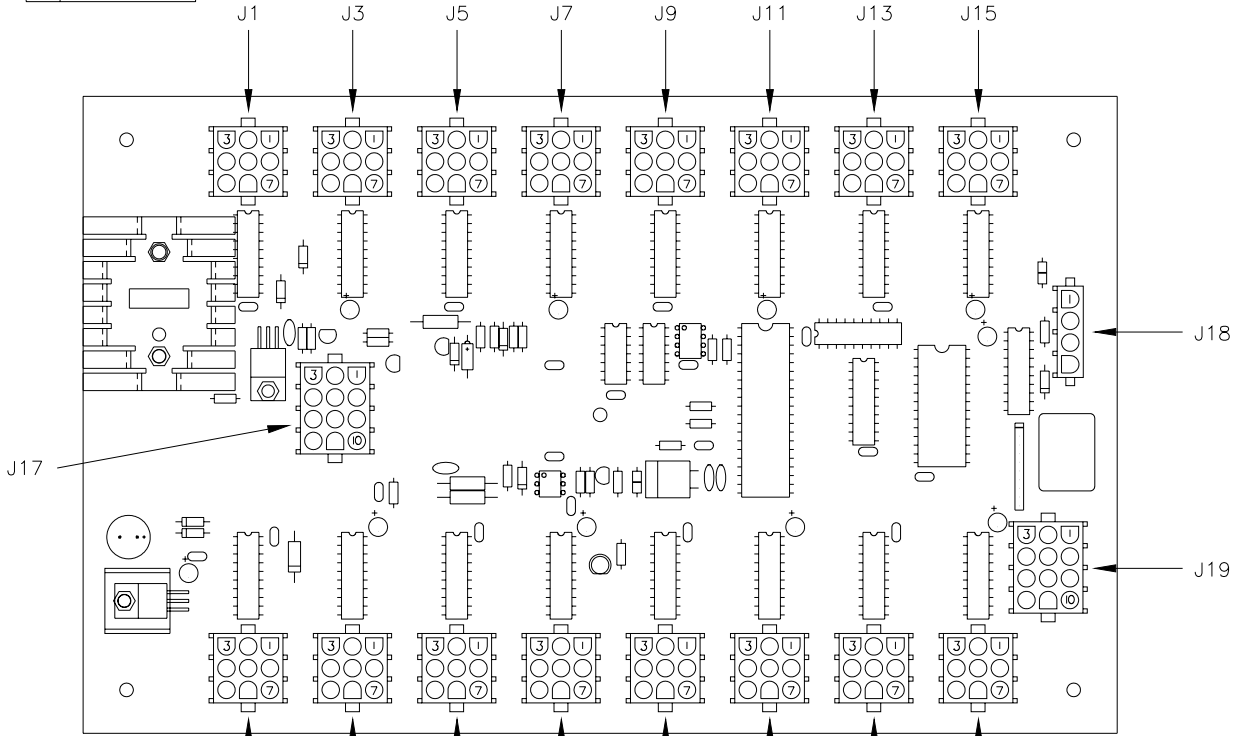
REV.	DATE	DESCRIPTION	BY	APPR.
1	20NOV96	CHANGED MODEL NUMBERS	AVB	AVB

J17

PIN	FUNCTION
1	SIGNAL IN +
2	SIGNAL IN -
3	GND
4	SIGNAL OUT +
5	SIGNAL OUT -
6	16V AC IN
7	GND
8	EARTH
9	16V AC IN
10	GND
11	+VCC +
12	+VBB +

J18

PIN	FUNCTION
2	K1 IN, 16V DC (-)
3	120V HOT IN
4	120V SWITCHED OUT



J1 THROUGH J16

PIN	FUNCTION
1	SEGMENT C (-)
2	SEGMENT B (-)
3	SEGMENT A (-)
4	SEGMENT F (-)
5	SEGMENT E (-)
6	SEGMENT D (-)
7	COMMON (+)
8	SEGMENT H (-)
9	SEGMENT G (-)

J19

PIN	FUNCTION
1	GND
2	SW0-N
3	SW1-N
4	GND
5	SW2-N
6	SW3-N
7	GND
8	SW4-N
9	SW5-N
10	GND
11	SW6-N
12	SW7-N

FRONT VIEW

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED SCOREBOARDS

TITLE: LED DRIVER 16 COLUMN

DES. BY:

DRAWN BY: JMOEN

DATE: 15 OCT 96

REV.	DATE	DESCRIPTION	BY	APPR.
1	27 MAR 97	ADDED TABLES TO DESCRIBE FUNCTIONS IN EACH JACK.	AVB	

REVISION

APPR. BY:

SCALE: 1=2

1150-R04A-87407

REV.	DATE	DESCRIPTION	BY	APPR.

REVISION	APPR. BY:
	SCALE: NONE

1152-R03A-90746

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ:

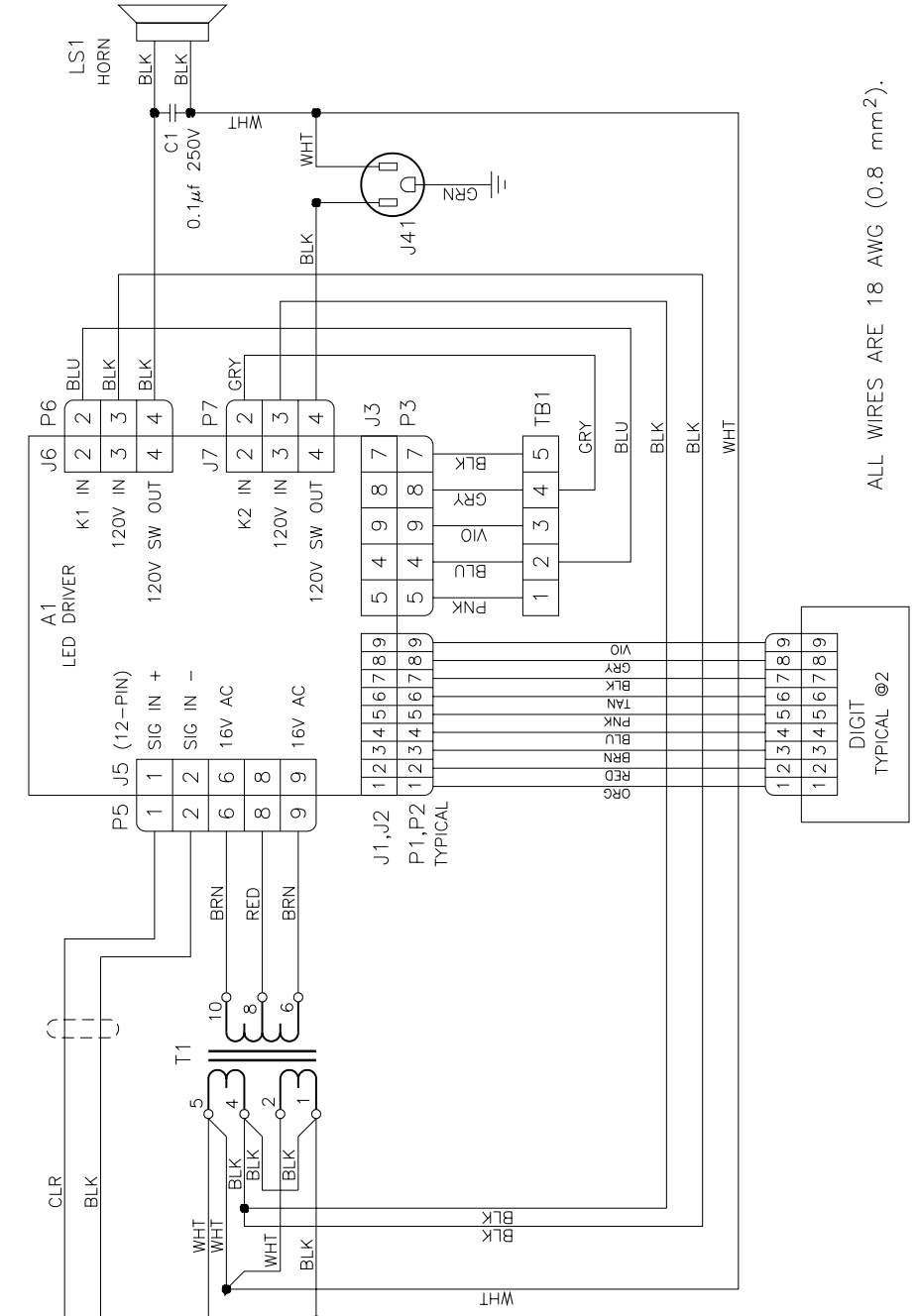
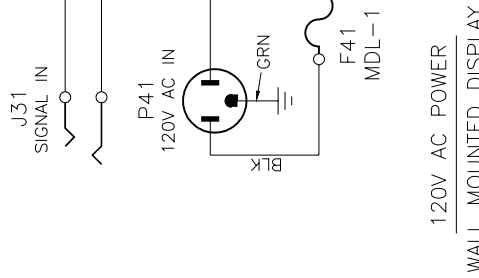
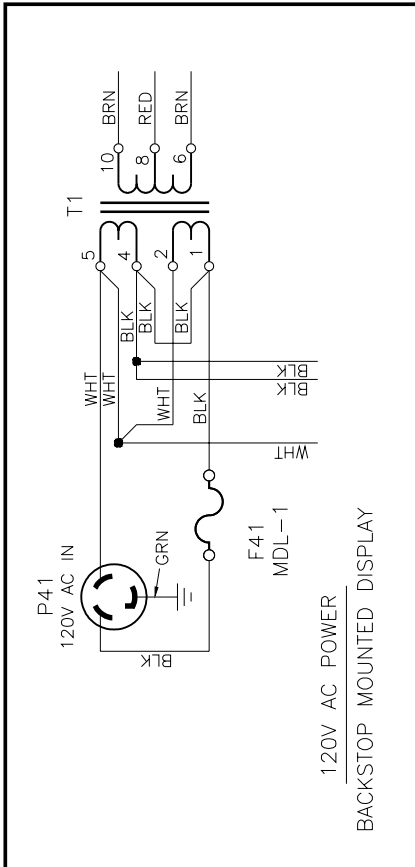
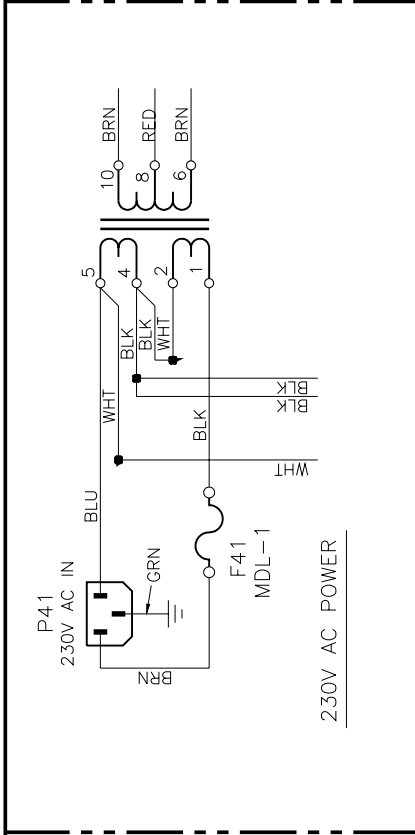
TITLE: WIRING DIAGRAM, BB-2014 LED SHOT CLOCK DISPLAY

DES. BY: AVB

DRAWN BY: A VANBEMMEL

DATE: 24 FEB 97

SEGMENT	PIN NO.	FUNCTION	TB1 POS.
E	5	GAME CLOCK HORN	1
F	4	SHOT CLOCK HORN	2
G	9	GAME CLOCK STOP	3
H	8	GAME CLOCK = 0	4
	7	16V COMMON	5

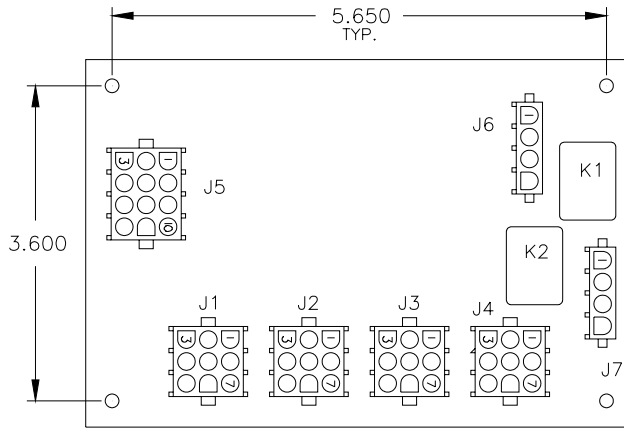


ALL WIRES ARE 18 AWG (0.8 mm<sup>2</sup>).



J5	
PIN	FUNCTION
1	SIGNAL IN +
2	SIGNAL IN -
4	SIGNAL OUT +
5	SIGNAL OUT -
6	16V AC IN
7	GND
9	16V AC IN
10	GND
11	ADDRESS 2
12	ADDRESS 1

J1 THROUGH J4	
PIN	FUNCTION
1	SEGMENT C (-)
2	SEGMENT B (-)
3	SEGMENT A (-)
4	SEGMENT F (-)
5	SEGMENT E (-)
6	SEGMENT D (-)
7	COMMON (+)
8	SEGMENT H (-)
9	SEGMENT G (-)



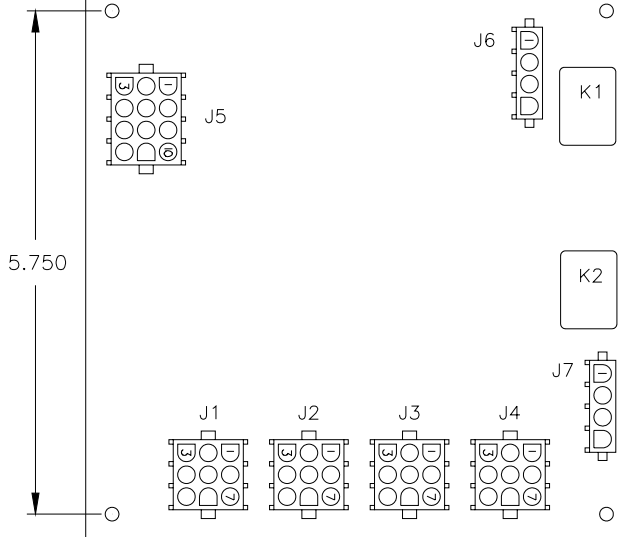
J6	
PIN	FUNCTION
2	K1 IN, 16V DC (-)
3	120V HOT IN
4	120V SWITCHED OUT

J7	
PIN	FUNCTION
2	K2 IN, 16V DC (-)
3	120V HOT IN
4	120V SWITCHED OUT

LED DIGIT DRIVER  
 LOGIC AND DRIVE COMPONENTS ARE NOT SHOWN.  
 DAKTRONICS PART NO. IS 0P-1150-0021.

J5	
PIN	FUNCTION
1	SIGNAL IN +
2	SIGNAL IN -
4	SIGNAL OUT +
5	SIGNAL OUT -
6	28V AC IN
7	GND
8	14V AC IN
9	28V AC IN
10	GND
11	ADDRESS 2
12	ADDRESS 1

J1 THROUGH J4	
PIN	FUNCTION
1	SEGMENT C
2	SEGMENT B
3	SEGMENT A
4	SEGMENT F
5	SEGMENT E
6	SEGMENT D
7	COMMON
8	SEGMENT H
9	SEGMENT G



J6	
PIN	FUNCTION
2	K1 IN, 28V AC
3	120V HOT IN
4	120V SWITCHED OUT

J7	
PIN	FUNCTION
2	K2 IN, 28V AC
3	120V HOT IN
4	120V SWITCHED OUT

INCANDESCENT DIGIT DRIVER  
 LOGIC AND DRIVE COMPONENTS ARE NOT SHOWN.  
 DAKTRONICS PART NO. IS 0P-1033-0109.

ADDRESS INFORMATION:

BOTH DRIVERS USE THE SAME SIGNAL. SIGNAL INCLUDES DATA FOR 16 INPUT "COLUMNS" ALTHOUGH THE DRIVER HAS ONLY FOUR OUTPUT COLUMNS. THE DRIVER ADDRESS SELECTS WHICH OUTPUT COLUMN IS OPERATED BY EACH INPUT COLUMN IN THE SIGNAL. THIS TABLE SHOWS WHICH INPUT COLUMN IS CONTROLLING EACH OUTPUT COLUMN, AS DETERMINED BY THE FOUR AVAILABLE ADDRESSES.

DATA INPUT COLUMN	ADDRESS 0 NO JUMPER CONNECTIONS				ADDRESS 1 CONNECT J5 PIN 10 TO 12				ADDRESS 2 CONNECT J5 PIN 10 TO 11				ADDRESS 3 CONNECT J5 10 TO 11&12			
	5	6	7	8	1	2	3	4	9	10	11	12	13	14	15	16
OUTPUT COLUMN	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

ALSO, ADDRESS 1 MAKES THESE CHANGES:  
 INPUT DATA COLUMN 5, SEGMENT H  
 IS SENT TO OUTPUT COLUMN 1, SEGMENT H.  
 INPUT DATA COLUMN 9, SEGMENT H  
 IS SENT TO OUTPUT COLUMN 2, SEGMENT H.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ:

TITLE: 4-COLUMN DRIVER REFERENCE

DES. BY:

DRAWN BY: A VANBEMMEL

DATE: 19 MAR 97

REVISION

APPR. BY:

SCALE: 1=2

1009-R04A-91380

REV.	DATE	DESCRIPTION	BY	APPR.
1	09 OCT 97	ADDED PART NUMBERS AND ADDRESS INFORMATION	AVB	AVB

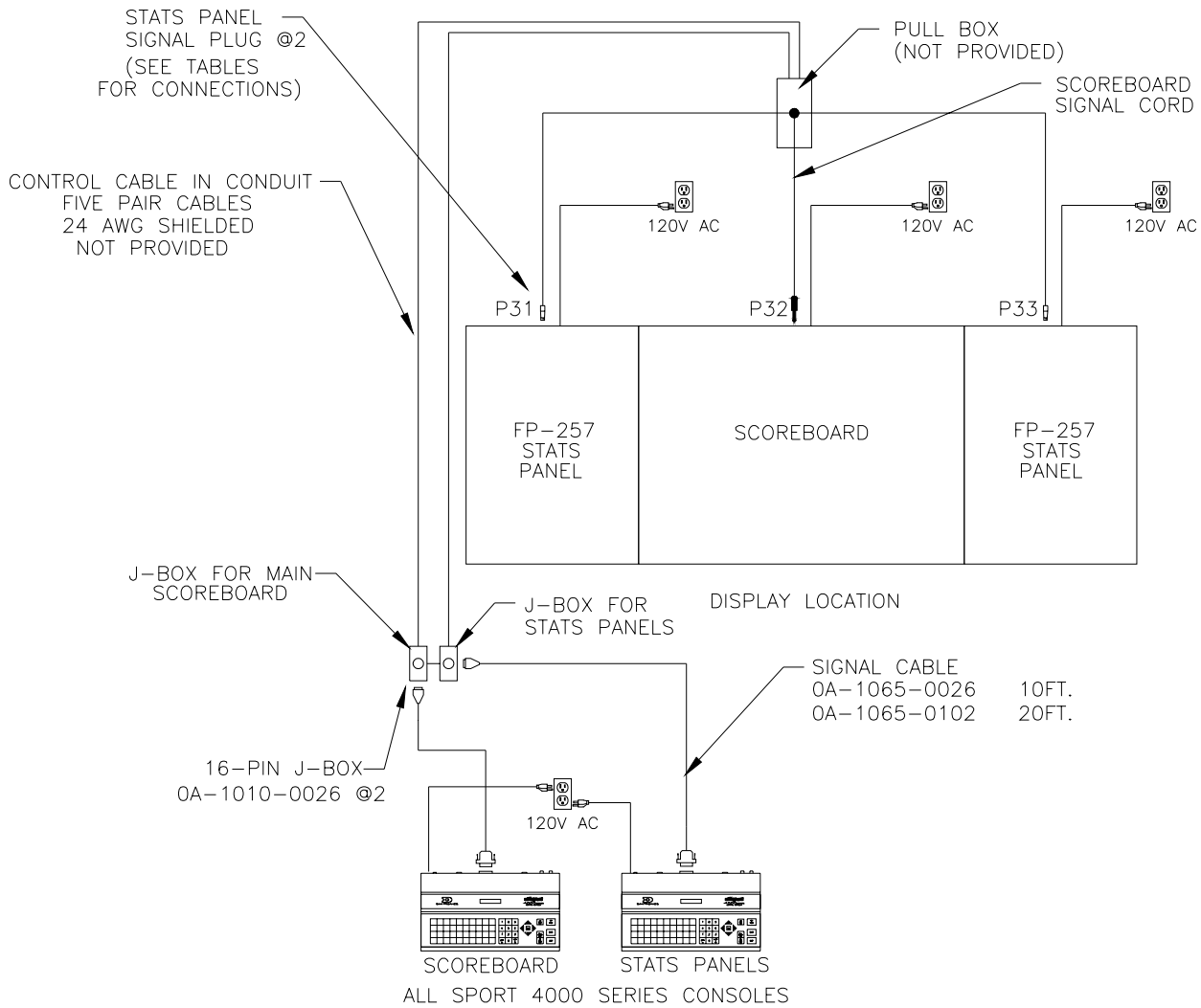


# Appendix A: Typical Signal Termination

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<b>Reference Drawings:</b>	Display Installation, FP-257 .....	<b>Drawing A-49684</b>
	Signal/Dual Display Installation .....	<b>Drawing A-67460</b>
	Block Diagrams, Basketball .....	<b>Drawing A-86935</b>
	Block Diagrams, Basketball with Stats .....	<b>Drawing A-86936</b>
	12 V Hookups, Scoreboard to console .....	<b>Drawing A-88082</b>
	Block diagrams, SG and TI Displays .....	<b>Drawing A-89417</b>
	System Layout, Permanent Wiring A/S 2000.....	<b>Drawing A-91527</b>
	System Layout, Permanent Wiring A/S 4000.....	<b>Drawing A-91528</b>
	System Layout, Portable Wiring A/S 2000.....	<b>Drawing A-91529</b>
	System Layout, Portable Wiring A/S 4000.....	<b>Drawing A-91530</b>
	System Layout, Independent Shot Clock.....	<b>Drawing A-91638</b>
	Block Diagram, Basketball w/Fouls, One Console	<b>Drawing A-95222</b>
	Block Diagram, Basketball w/Shunt.....	<b>Drawing A-98054</b>
	Block Diagram, Basketball w/2 Shunt.....	<b>Drawing A-98102</b>
	Block Diagram, All Sport 4100, Non-Shot.....	<b>Drawing A-98368</b>
	Block Diagram, All Sport 4000, w/Shot.....	<b>Drawing A-98369</b>





OUTPUT TABLE, MAIN SCOREBOARD  
CODE 05, 06, 13, OR 14

16-PIN J-BOX PIN#	WIRE COLOR	OUT- PUT #	CONNECT PLUG - TYPE	SIGNAL TYPE
1	RED	1+	P32-TIP	MAIN SCBD*
2	BLACK	1-	P32-RING	MAIN SCBD*
3	WHITE	2+	P32-TIP	MAIN SCBD*
4	GREEN	2-	P32-RING	MAIN SCBD*
5	ORANGE	3+	NOT USED	SHOT CLOCK
6	BLUE	3-	NOT USED	
7	WHT/BLK	4+	NOT USED	AUX. BB-17
8	RED/BLK	4-	NOT USED	

\*MAIN SCOREBOARD SIGNAL  
MAY BE BB-17 OR BB-18,  
DEPENDING ON CODE USED.

2-WIRE CONNECTION BETWEEN  
J-BOXES BRINGS DATA FROM  
STATS CONSOLE TO MAIN.

STATS J-BOX		MAIN J-BOX	
PIN#	COLOR	PIN#	COLOR
7	WHT/BLK	13	RED/WHT
8	RED/BLK	14	GRN/WHT

OUTPUT TABLE, STATS PANELS  
CODE 15 OR 16

16-PIN J-BOX PIN#	WIRE COLOR	OUT- PUT #	SIGNAL PLUG		
			PLUG-PIN	COLOR	SIGNAL TYPE
1	RED	1+	P31-1	RED	STATS DRVR 1
2	BLACK	1-	P31-2	BLACK	
3	WHITE	2+	P31-3	WHITE	STATS DRVR 2
4	GREEN	2-	P31-4	GREEN	
5	ORANGE	3+	P33-1	RED	STATS DRVR 3
6	BLUE	3-	P33-2	BLACK	
7	WHT/BLK	4+	P33-3	WHITE	STATS DRVR 4
8	RED/BLK	4-	P33-4	GREEN	

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: \_\_\_\_\_

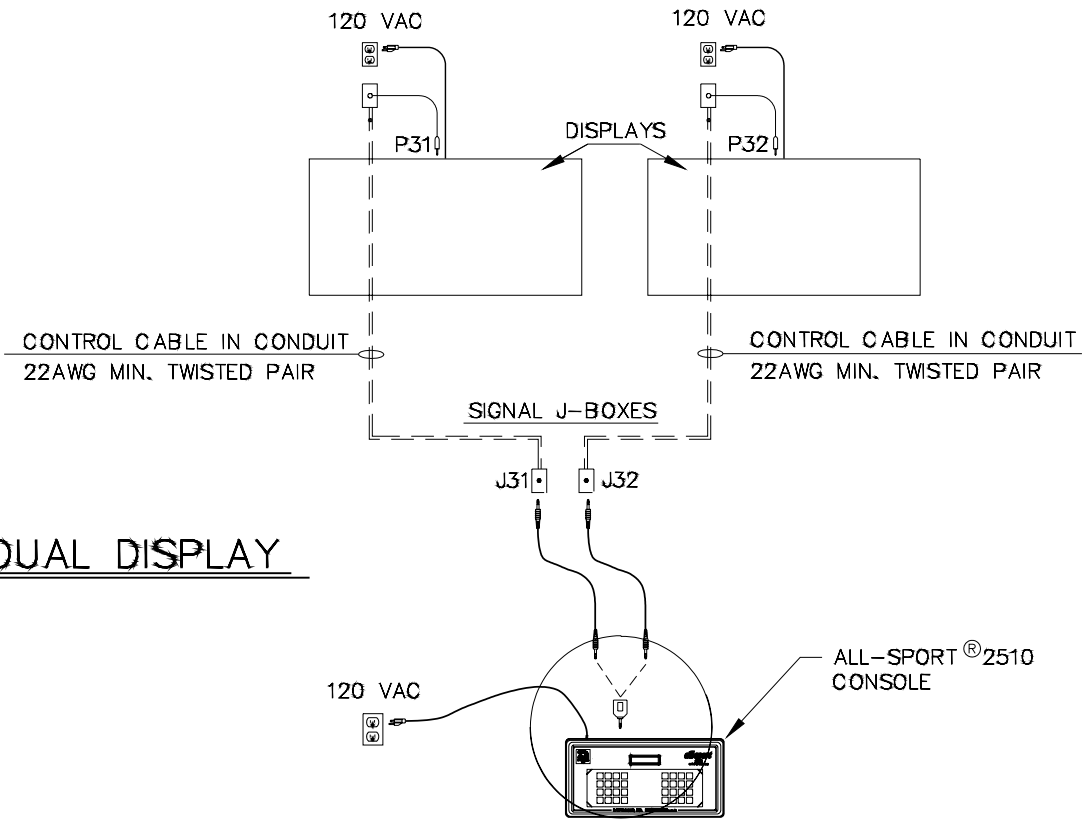
TITLE: **DISPLAY INSTALLATION, FP-257**

DES. BY: **AVB** DRAWN BY: **MJORDAN** DATE: **27 OCT 97**

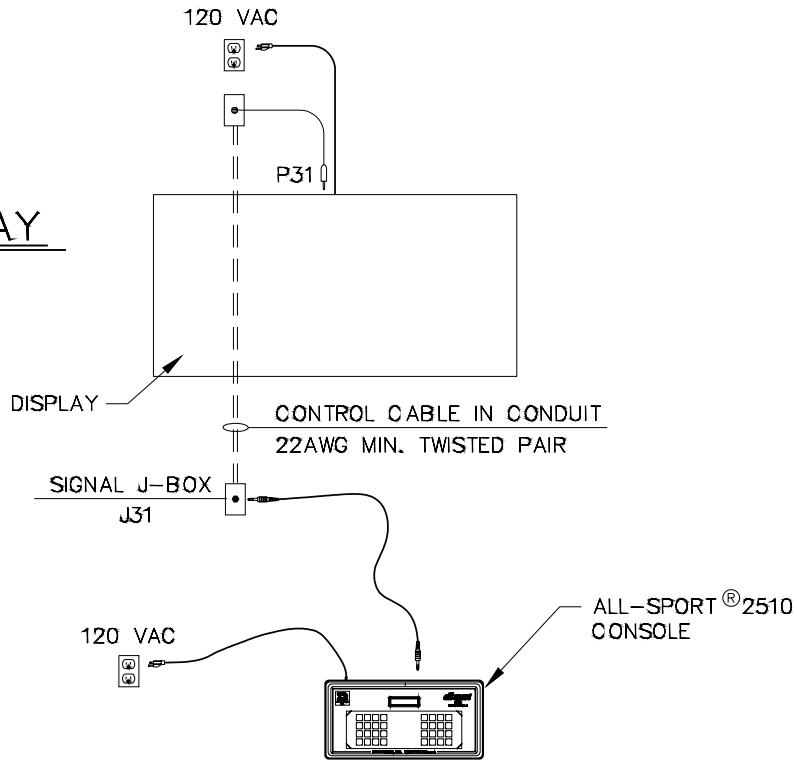
REVISION APPR. BY: \_\_\_\_\_ SCALE: **NONE** **1152-R10A-49684**

REV.	DATE	DESCRIPTION	BY	APPR.
1	30 OCT 97	CHGD LAYOUT TO PORTRAY CURRENT SPECS. ADDED OUTPUT TABLES.	MWJ	

## DUAL DISPLAY



## SINGLE DISPLAY



DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: BASKETBALL SCOREBOARDS

TITLE: SINGLE/DUAL DISPLAY INSTALLATION

DES. BY:

DRAWN BY: NJA

DATE: 12 JAN 95

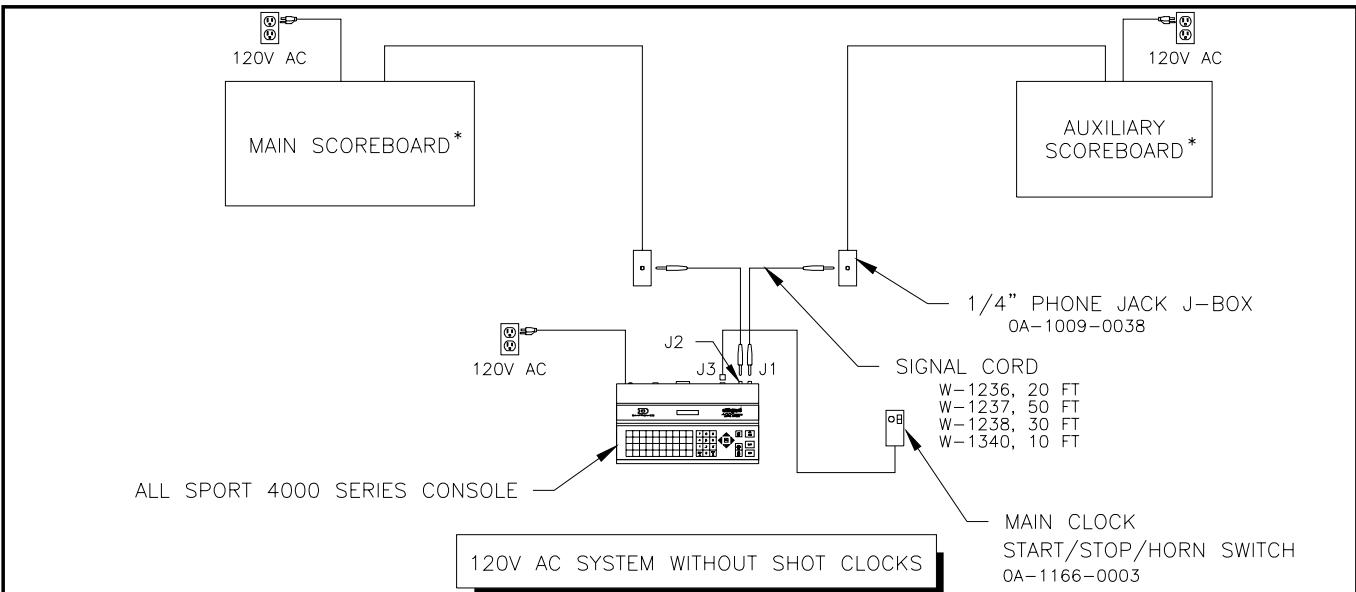
REVISION

APPR. BY:

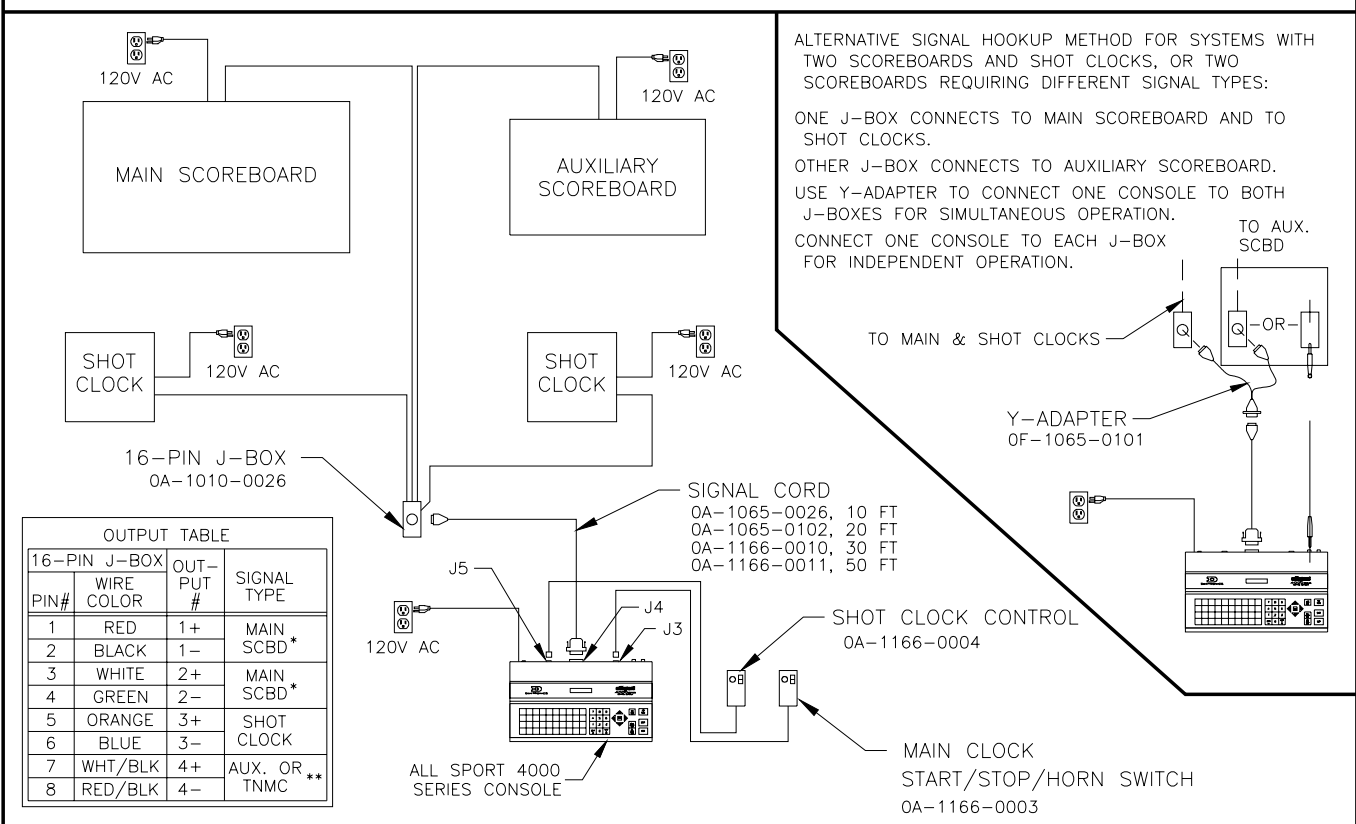
SCALE: NONE

1009-R10A-67460

REV.	DATE	DESCRIPTION	BY	APPR.



\* BOTH SCOREBOARDS MUST USE THE SAME SIGNAL TYPE TO USE THE WIRING METHOD SHOWN



ALTERNATIVE SIGNAL HOOKUP METHOD FOR SYSTEMS WITH TWO SCOREBOARDS AND SHOT CLOCKS, OR TWO SCOREBOARDS REQUIRING DIFFERENT SIGNAL TYPES:

ONE J-BOX CONNECTS TO MAIN SCOREBOARD AND TO SHOT CLOCKS.  
OTHER J-BOX CONNECTS TO AUXILIARY SCOREBOARD.  
USE Y-ADAPTER TO CONNECT ONE CONSOLE TO BOTH J-BOXES FOR SIMULTANEOUS OPERATION.  
CONNECT ONE CONSOLE TO EACH J-BOX FOR INDEPENDENT OPERATION.

OUTPUT TABLE			
16-PIN J-BOX PIN#	WIRE COLOR	OUT-PUT #	SIGNAL TYPE
1	RED	1+	MAIN SCBD*
2	BLACK	1-	MAIN SCBD*
3	WHITE	2+	MAIN SCBD*
4	GREEN	2-	MAIN SCBD*
5	ORANGE	3+	SHOT CLOCK
6	BLUE	3-	SHOT CLOCK
7	WHT/BLK	4+	AUX. OR TNMC**
8	RED/BLK	4-	AUX. OR TNMC**

\*MAIN SCOREBOARD SIGNAL MAY BE BB-17 OR BB-18, DEPENDING ON CODE USED.  
\*\*4TH OUTPUT IS USED FOR EITHER AUX. BB-17 SIGNAL OR TEAM NAME MESSAGE CENTER CONTROL.

120V AC SYSTEM WITH SHOT CLOCKS

2	18 DEC 97	REMOVED MODEL NUMBER TABLE.	MWJ
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REV.	DATE	DESCRIPTION	BY	APPR.
5	01 FEB 00	ADDED NOTE ABOUT TNMC OPERATION ON THE 4TH OUTPUT.	AVB	
4	05 AUG 98	ADDED PHONO J-BOX TO ALTERNATE SIGNAL HOOKUP DIAGRAM.	MWJ	
3	16 JUNE 98	ADDED PART NUMBERS	CJB	

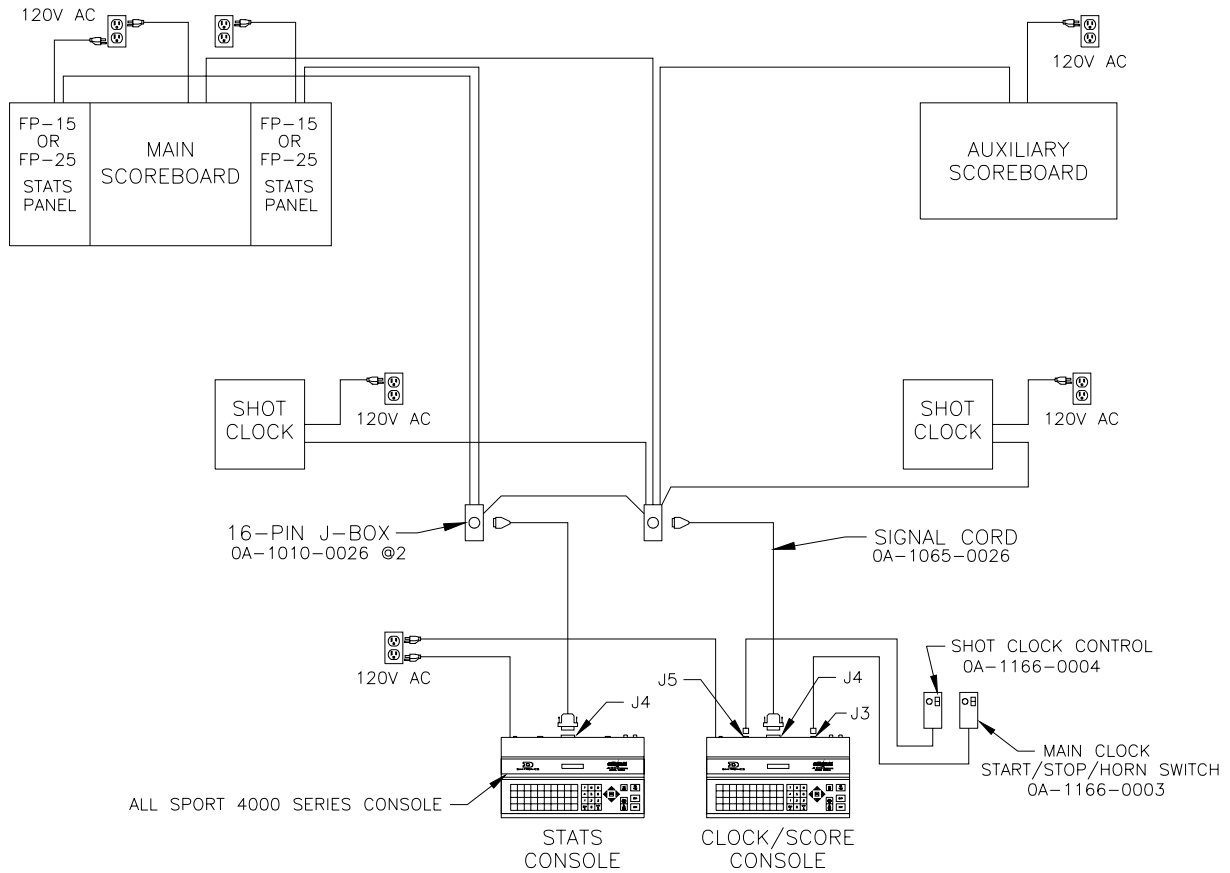
DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: ALL SPORT 4000

TITLE: BLOCK DIAGRAMS, BASKETBALL CODES 03, 04, 11, 12

DES. BY: DRAWN BY: A VANBEMMEL DATE: 25SEP96

REVISION APPR. BY: SCALE: NONE 1166-R04A-86935



SYSTEM WITH STATS PANELS & SHOT CLOCKS  
 CODE 05, 06, 13, OR 14, AND 15 OR 16

OUTPUT TABLE, CLOCK/SCORE  
 CODE 05, 06, 13, OR 14

16-PIN J-BOX PIN#	WIRE COLOR	OUT- PUT #	SIGNAL TYPE
1	RED	1+	MAIN SCBD*
2	BLACK	1-	MAIN SCBD*
3	WHITE	2+	STATS DRIVER 1
4	GREEN	2-	STATS DRIVER 2
5	ORANGE	3+	SHOT CLOCK
6	BLUE	3-	SHOT CLOCK
7	WHT/BLK	4+	AUX. BB-17
8	RED/BLK	4-	AUX. BB-17

\* MAIN SCOREBOARD SIGNAL  
 MAY BE BB-17 OR BB-18,  
 DEPENDING ON CODE USED.

OUTPUT TABLE, STATS  
 CODE 15 OR 16

16-PIN J-BOX PIN#	WIRE COLOR	OUT- PUT #	SIGNAL TYPE
1	RED	1+	STATS DRIVER 1
2	BLACK	1-	STATS DRIVER 2
3	WHITE	2+	STATS DRIVER 3
4	GREEN	2-	STATS DRIVER 4
5	ORANGE	3+	STATS DRIVER 1
6	BLUE	3-	STATS DRIVER 2
7	WHT/BLK	4+	STATS DRIVER 3
8	RED/BLK	4-	STATS DRIVER 4

2-WIRE CONNECTION BETWEEN  
 J-BOXES BRINGS DATA FROM  
 STATS CONSOLE TO MAIN.

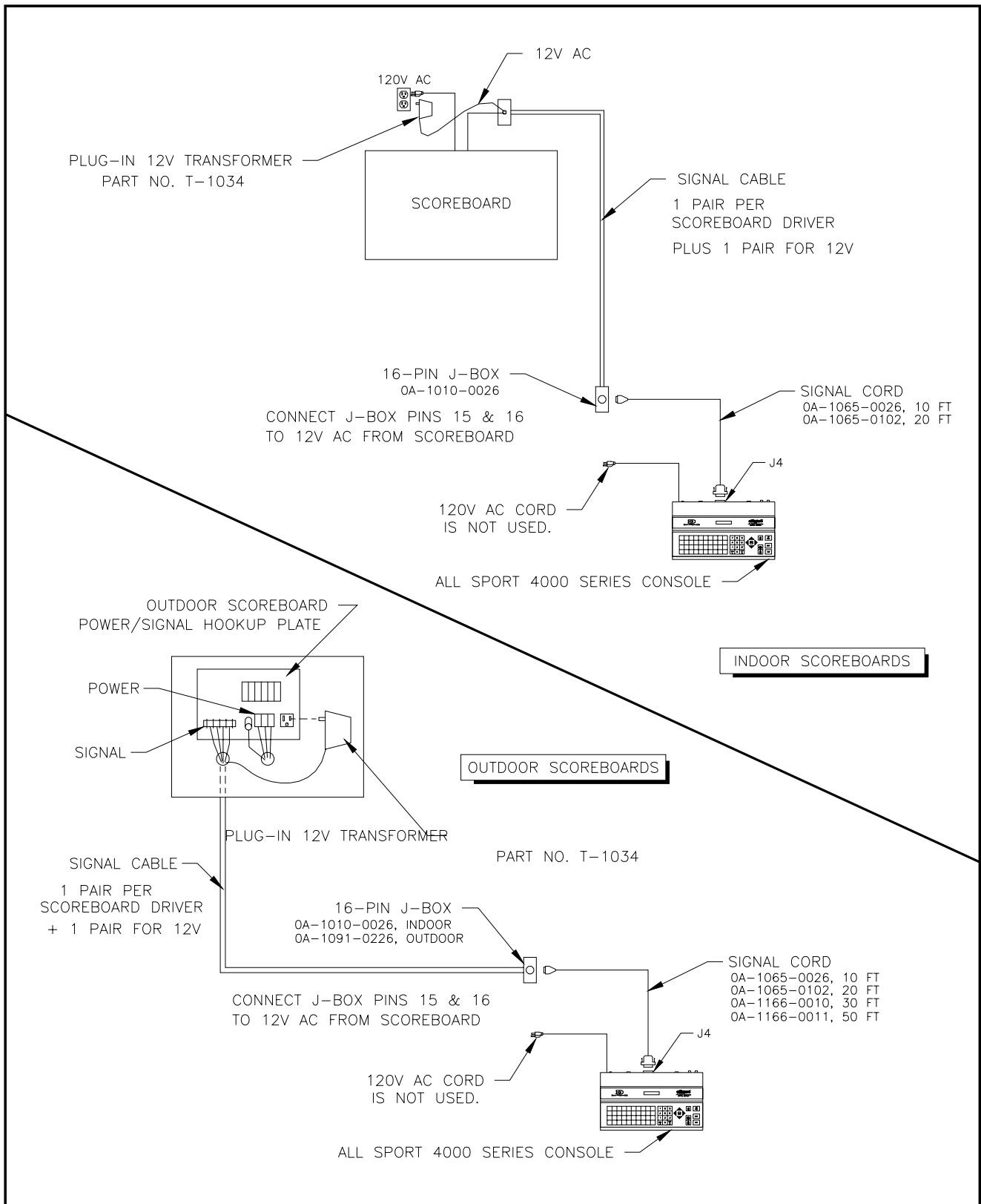
STATS J-BOX PIN#	COLOR	MAIN J-BOX PIN#	COLOR
7	WHT/BLK	13	RED/WHT
8	RED/BLK	14	GRN/WHT

DAKTRONICS, INC. BROOKINGS, SD 57006

REV.	DATE	DESCRIPTION	BY	APPR.
2	18 DEC 97	REMOVED MODEL NUMBER TABLE.	MWJ	
1	19NOV96	CHANGED MODEL NUMBERS	AVB	AVB

PROJ: ALL SPORT 4000	
TITLE: BLOCK DIAGRAMS, BASKETBALL WITH STATS PANELS	
DES. BY:	DRAWN BY: A VANBEMMEL DATE: 25SEP96
REVISION	APPR. BY:
SCALE: NONE	1166-R04A-86936





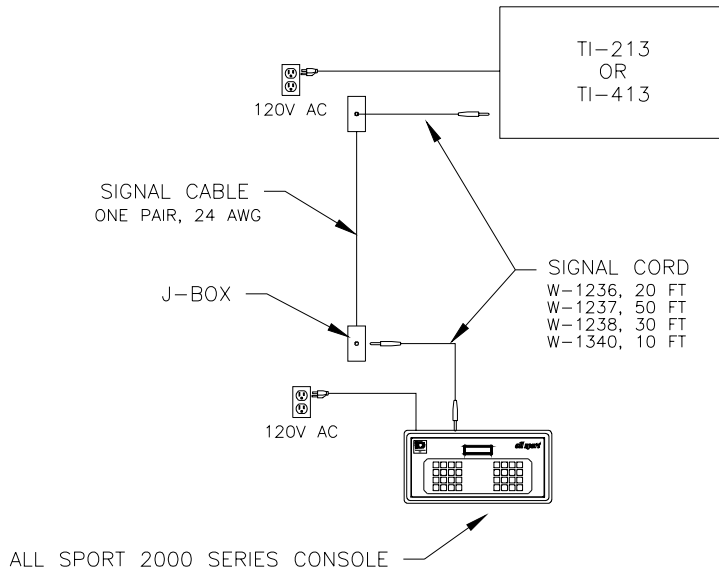
INDOOR SCOREBOARDS

OUTDOOR SCOREBOARDS

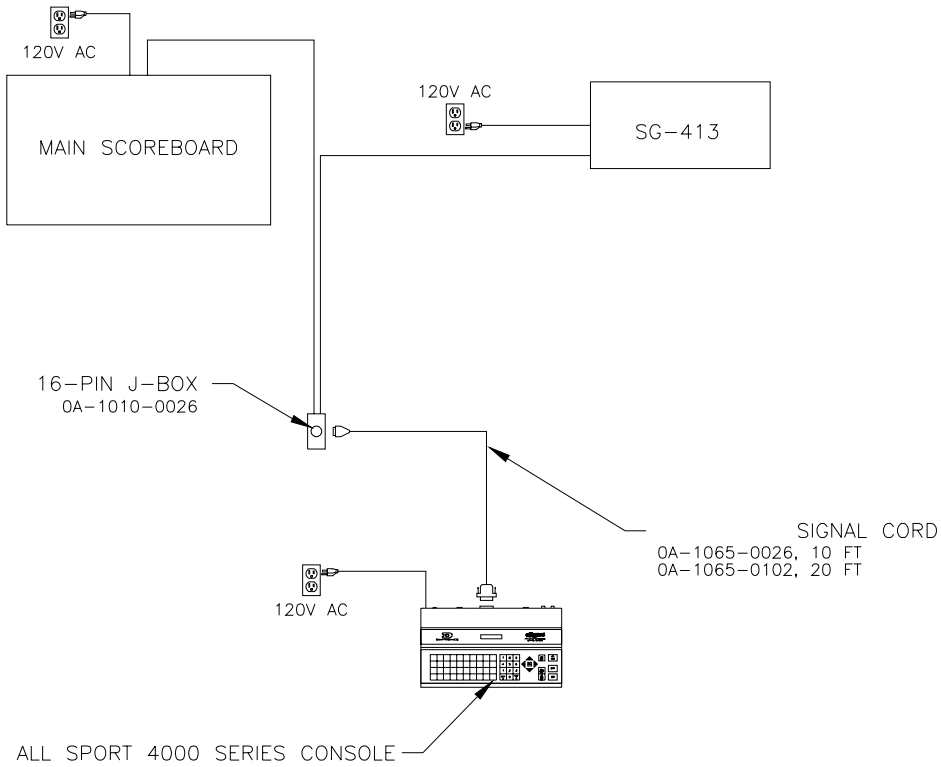
DAKTRONICS, INC. BROOKINGS, SD 57006				
PROJ: ALL SPORT 4000 SERIES CONSOLES				
TITLE: 12V HOOKUPS, SCOREBOARD TO CONSOLE				
DES. BY: AVB		DRAWN BY: A VANBEMMEL		DATE: 11 NOV 96
REVISION	APPR. BY:	1166-R10A-88082		
	SCALE: NONE			

1	16 JUNE 98	ADDED PART NUMBERS	CJB	
REV.	DATE	DESCRIPTION	BY	APPR.

TI- MODELS



SG- MODELS



DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ:

TITLE: BLOCK DIAGRAMS, SG & TI DISPLAYS

DES. BY:

DRAWN BY: M.MCMASTERS

DATE: 7 JAN 97

REVISION

APPR. BY:

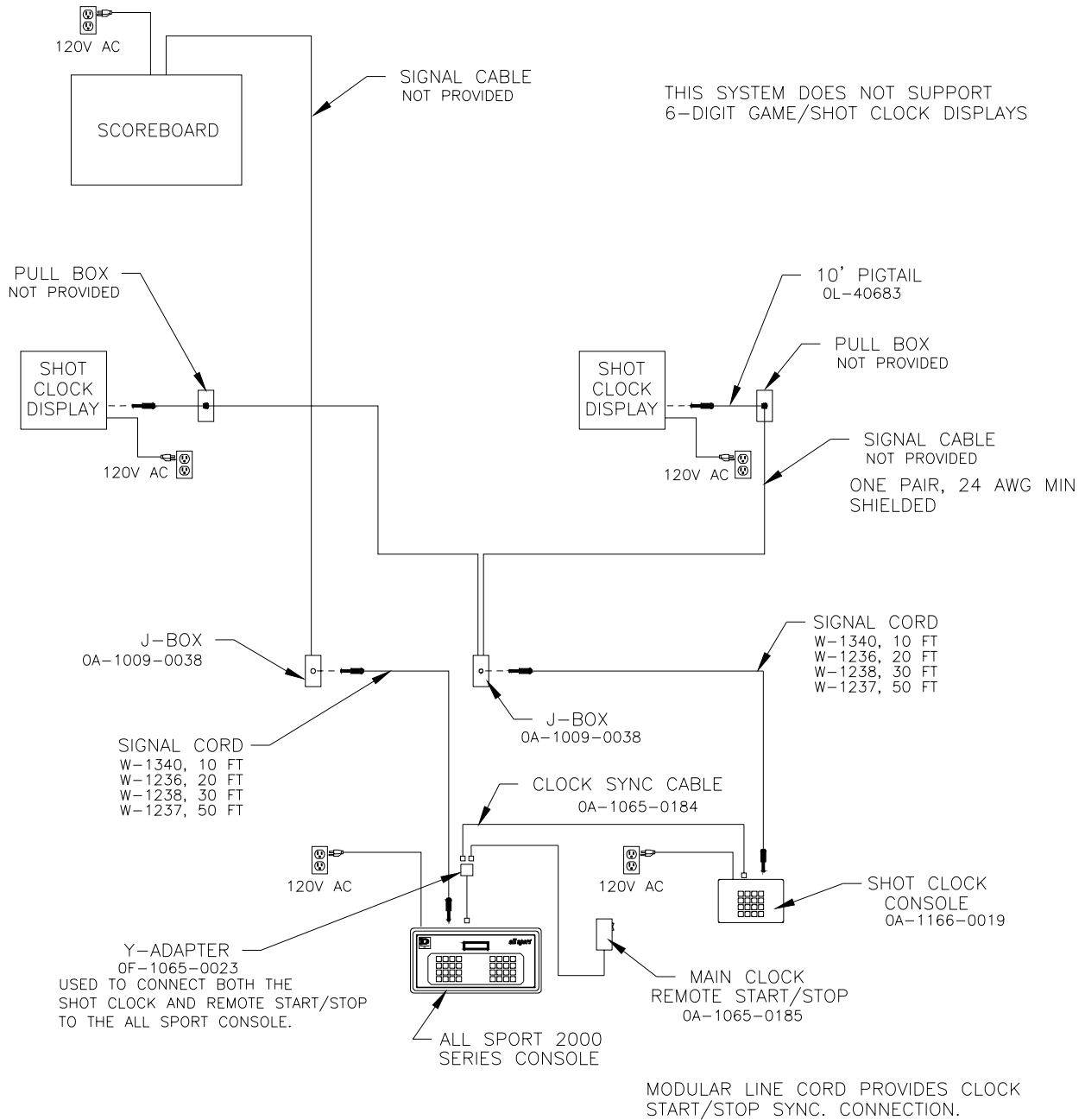
SCALE: NONE

1010-R04A-89417

REV.	DATE	DESCRIPTION	BY	APPR.

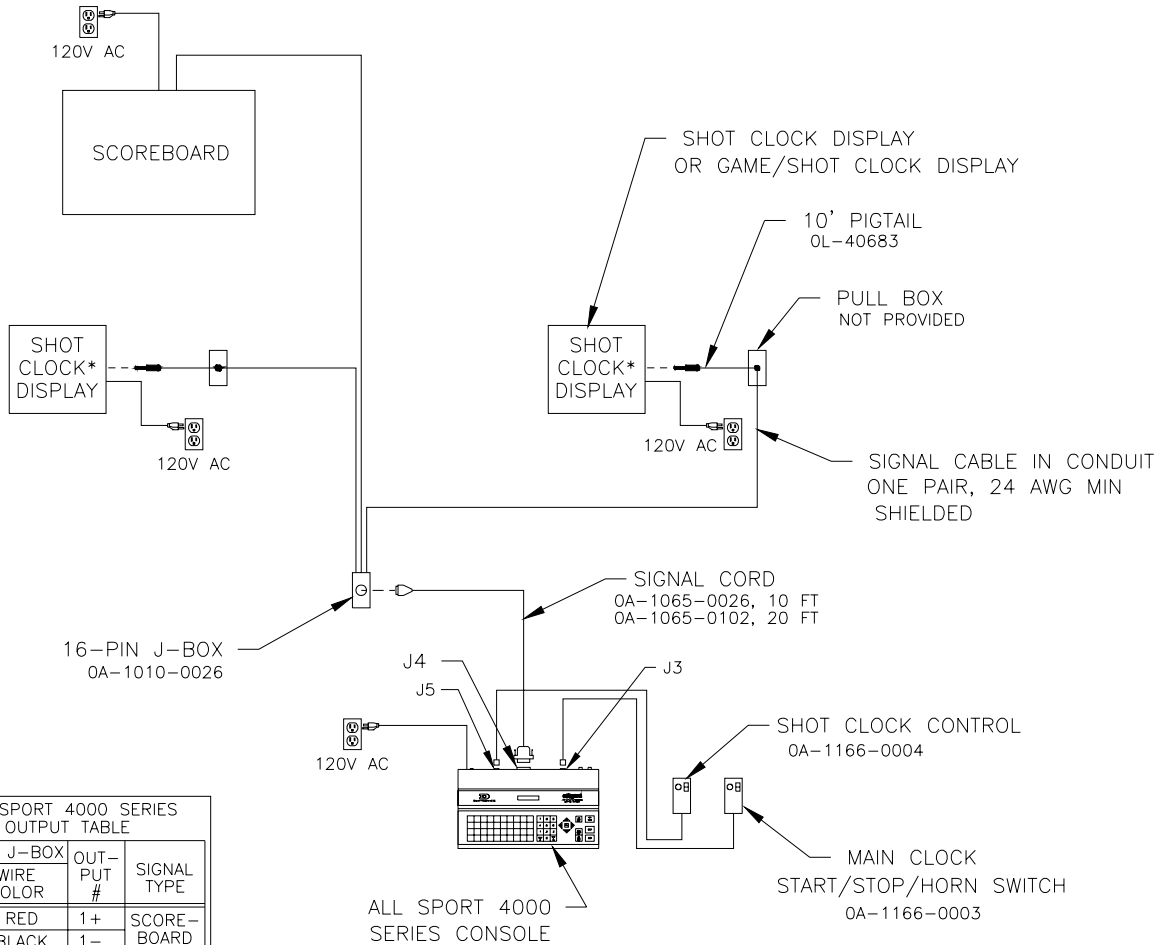
THIS BLOCK DIAGRAM DESCRIBES THE SHOT CLOCK SYSTEM WITH WIRING PERMANENTLY INSTALLED IN CONDUIT.

THE SHOT CLOCK CONSOLE IS INDEPENDENT FROM THE MAIN SCOREBOARD CONSOLE, EXCEPT FOR THE CLOCK SYNC CABLE.



4	1 MAY 98	CHANGED A/S 1000 CONSOLE FROM OA-1009-0645 TO OA-1166-0019	HBONER		DAKTRONICS, INC. BROOKINGS, SD 57006	
3	21 JAN 98	CHANGED W-1221 TO OA-1065-0184	DDL		PROJ: SHOT CLOCKS	
2	18 DEC 97	REMOVED MODEL NUMBER TABLE.	MWJ		TITLE: SYSTEM LAYOUT, PERMANENT WIRING W/ AS-2000	
REV.	DATE	DESCRIPTION	BY	APPR.	DES. BY: AVB	DRAWN BY: A VANBEMMEL DATE: 24 MAR 97
					REVISION	APPR. BY: NONE
					SCALE: NONE	1009-R04A-91527

THIS BLOCK DIAGRAM DESCRIBES THE SHOT CLOCK SYSTEM WITH WIRING PERMANENTLY INSTALLED IN CONDUIT. ALL SHOT CLOCK FUNCTIONS ARE OPERATED FROM THE MAIN SCOREBOARD CONSOLE.



ALL SPORT 4000 SERIES OUTPUT TABLE

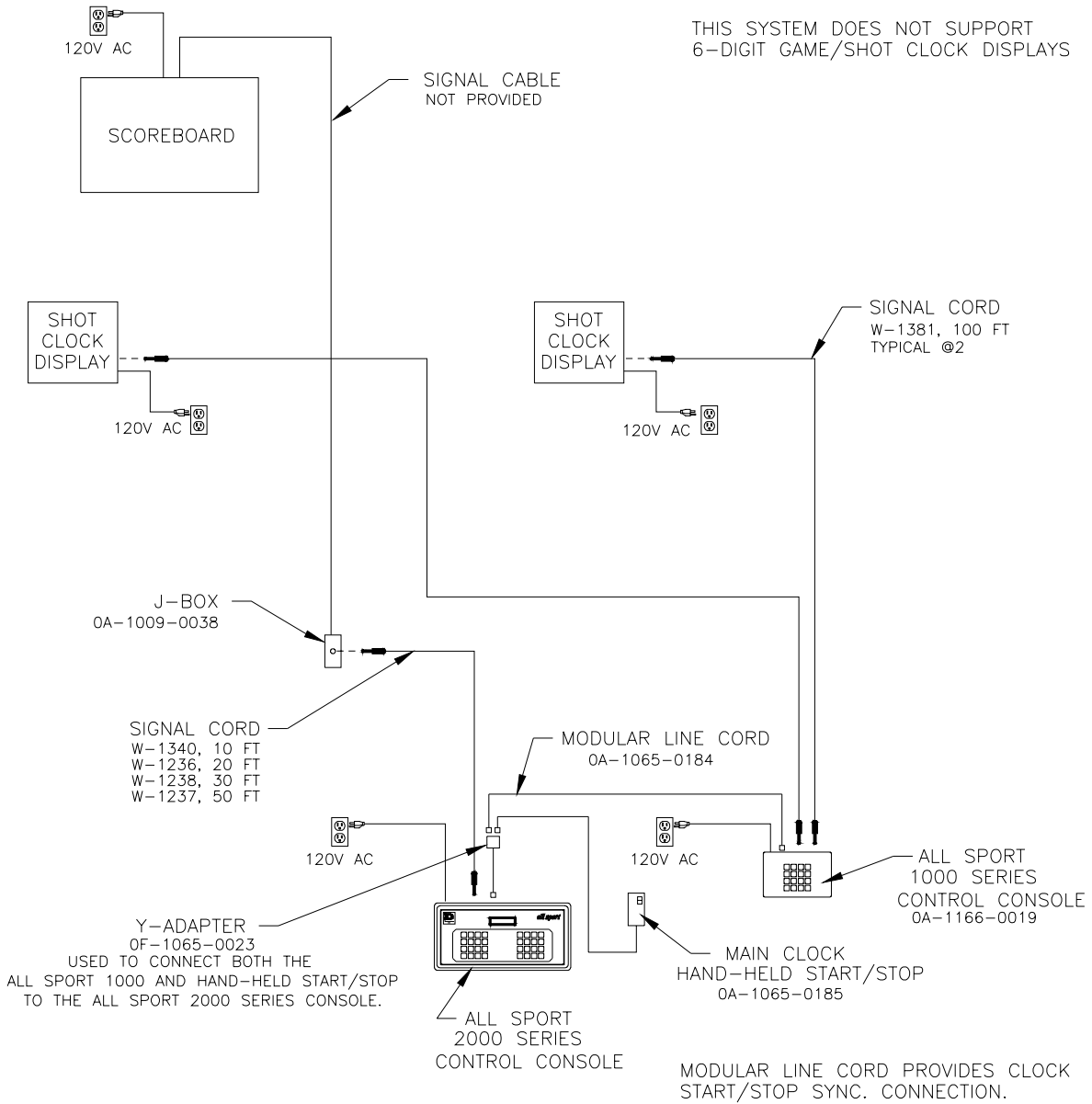
16-PIN J-BOX PIN#	WIRE COLOR	OUT-PUT #	SIGNAL TYPE
1	RED	1+	SCORE-BOARD
2	BLACK	1-	SCORE-BOARD
3	WHITE	2+	SCORE-BOARD
4	GREEN	2-	SCORE-BOARD
5	ORANGE	3+	SHOT CLOCK
6	BLUE	3-	SHOT CLOCK
7	WHT/BLK	4+	SCORE-BOARD
8	RED/BLK	4-	SCORE-BOARD

THIS LISTING IS FOR STANDARD CODES. SOME CUSTOM CODES MAY USE DIFFERENT OUTPUT ASSIGNMENTS.

DAKTRONICS, INC. BROOKINGS, SD 57006				
2	18 DEC 97	REMOVED MODEL NUMBER TABLE.	MWJ	PROJ: SHOT CLOCKS
1	19JUN97	CHANGED MODEL NUMBERS	MWJ	TITLE: SYSTEM LAYOUT, PERMANENT WIRING W/ AS-4000
REV.	DATE	DESCRIPTION	BY	DES. BY: AVB DRAWN BY: A VANBEMMEL DATE: 24 MAR 97
			APPR.	REVISION APPR. BY: SCALE: NONE
				1009-R04A-91528

THIS BLOCK DIAGRAM DESCRIBES THE SHOT CLOCK SYSTEM WITH PORTABLE CORDS CARRYING SIGNAL TO THE SHOT CLOCK DISPLAYS.

THE ALL SPORT 1000 CONSOLE IS INDEPENDENT FROM THE MAIN SCOREBOARD CONSOLE, EXCEPT FOR THE CLOCK SYNC. CABLE.

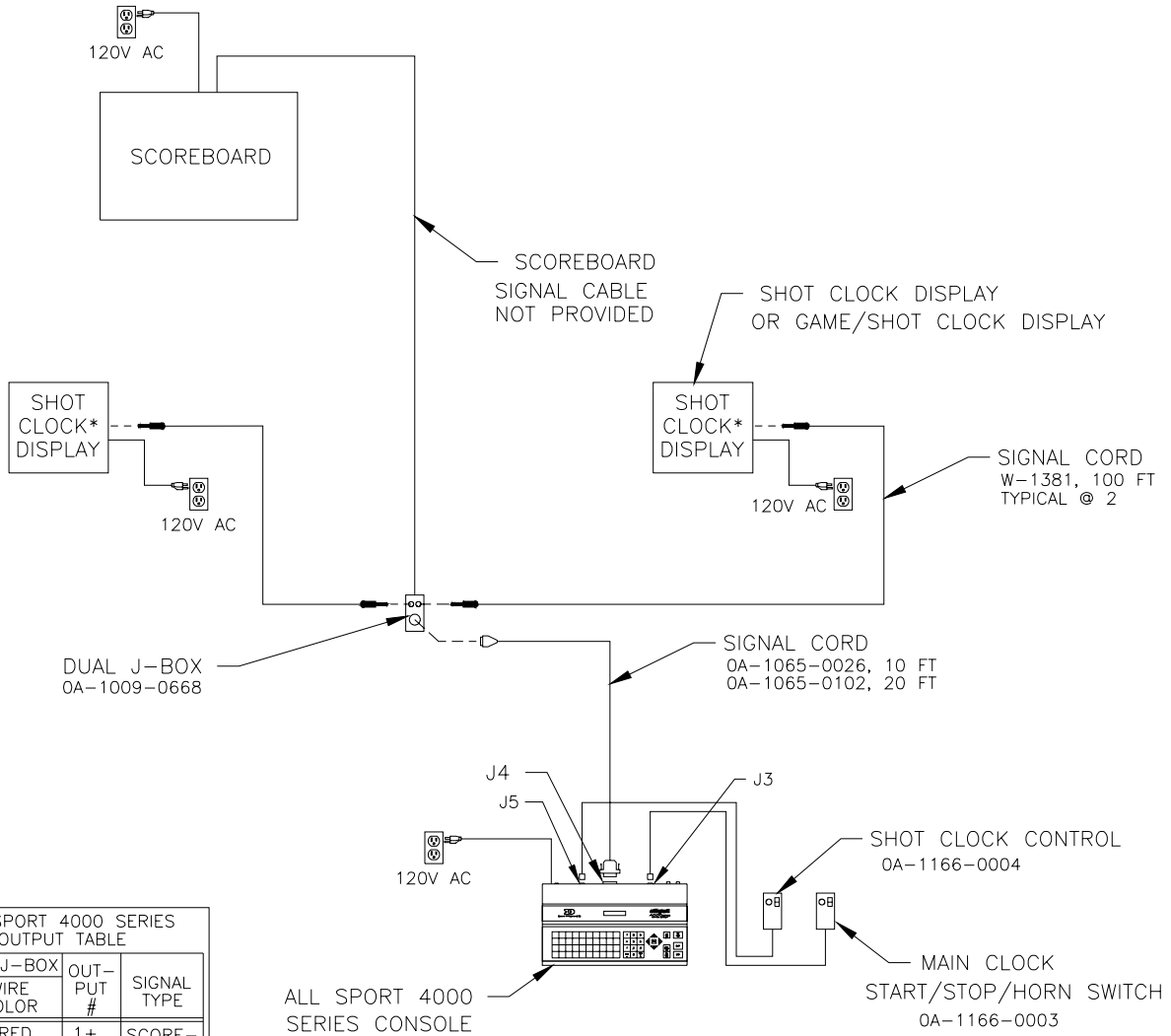


REV.	DATE	DESCRIPTION	BY	APPR.
4	1 MAY 98	CHANGED A/S 1000 CONSOLE FROM 0A-1009-0645 TO 0A-1166-0019	HBB	
3	21 JAN 98	CHANGED W-1221 TO 0A-1065-0184	DDL	
2	18 DEC 97	REMOVE MODEL NUMBER TABLE.	MWJ	

<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>	
PROJ: SHOT CLOCKS	
TITLE: SYSTEM LAYOUT, PORTABLE WIRING W/ AS-2000	
DES. BY: AVB	DRAWN BY: A VANBEMMEL DATE: 26 MAR 97
REVISION	APPR. BY:
SCALE: NONE	<b>1009-R04A-91529</b>

THIS BLOCK DIAGRAM DESCRIBES THE SHOT CLOCK SYSTEM WITH PORTABLE CORDS CARRYING SIGNAL TO THE SHOT CLOCK DISPLAYS.

ALL SHOT CLOCK FUNCTIONS ARE OPERATED FROM THE MAIN SCOREBOARD CONSOLE.

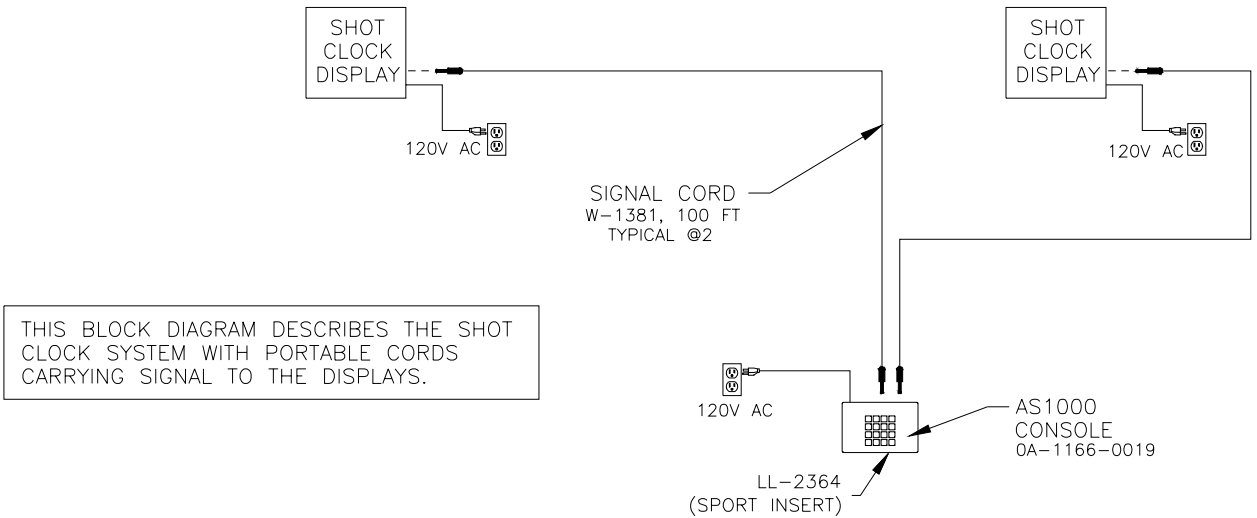
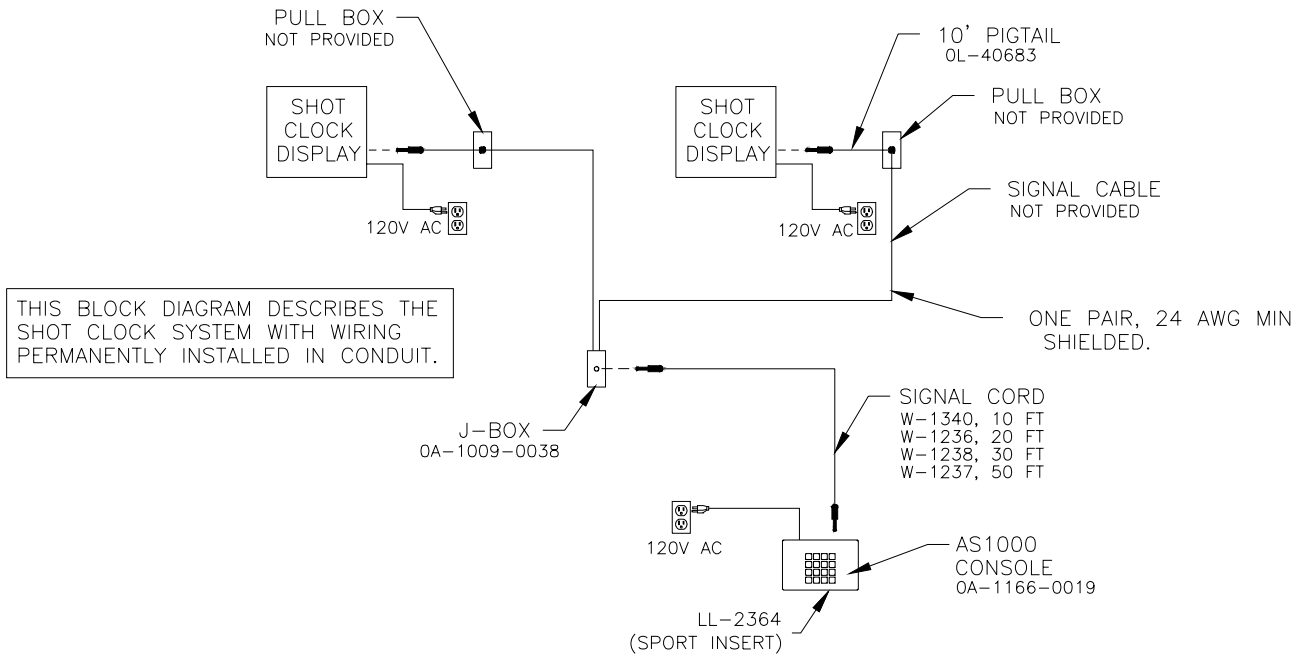


ALL SPORT 4000 SERIES OUTPUT TABLE

16-PIN J-BOX PIN#	WIRE COLOR	OUT-PUT #	SIGNAL TYPE
1	RED	1+	SCORE-BOARD
2	BLACK	1-	
3	WHITE	2+	SCORE-BOARD
4	GREEN	2-	
5	ORANGE	3+	SHOT CLOCK
6	BLUE	3-	
7	WHT/BLK	4+	SCORE-BOARD
8	RED/BLK	4-	

THIS LISTING IS FOR STANDARD CODES. SOME CUSTOM CODES MAY USE DIFFERENT OUTPUT ASSIGNMENTS.

3	18 DEC 97	REMOVED MODEL NUMBER TABLE.	MWJ		DAKTRONICS, INC. BROOKINGS, SD 57006	
2	28 AUG 97	DELETED AN OLD J-BOX PART NUMBER	AVB	AVB	PROJ: SHOT CLOCKS	
1	19 JUN 97	CHANGED MODEL & ASSEMBLY NUMBERS	MWJ		TITLE: SYSTEM LAYOUT, PORTABLE WIRING W/ AS-4000	
REV.	DATE	DESCRIPTION	BY	APPR.	DES. BY: AVB	DRAWN BY: A VANBEMMEL DATE: 24 MAR 97
					REVISION	APPR. BY: SCALE: NONE
						1009-R04A-91530



REV.	DATE	DESCRIPTION	BY	APPR.
3	3 JUNE 98	CHANGED SHOT CLOCK CONSOLES TO AS1000	CJB	
2	1 MAY 98	CHANGED A/S 1000 CONSOLE FROM 0A-1009-0645 TO 0A-1166-0019	HBB	
1	6 FEB 98	REMOVED MODEL NUMBER DESCRIPTION.	HBB	

**DAKTRONICS, INC. BROOKINGS, SD 57006**

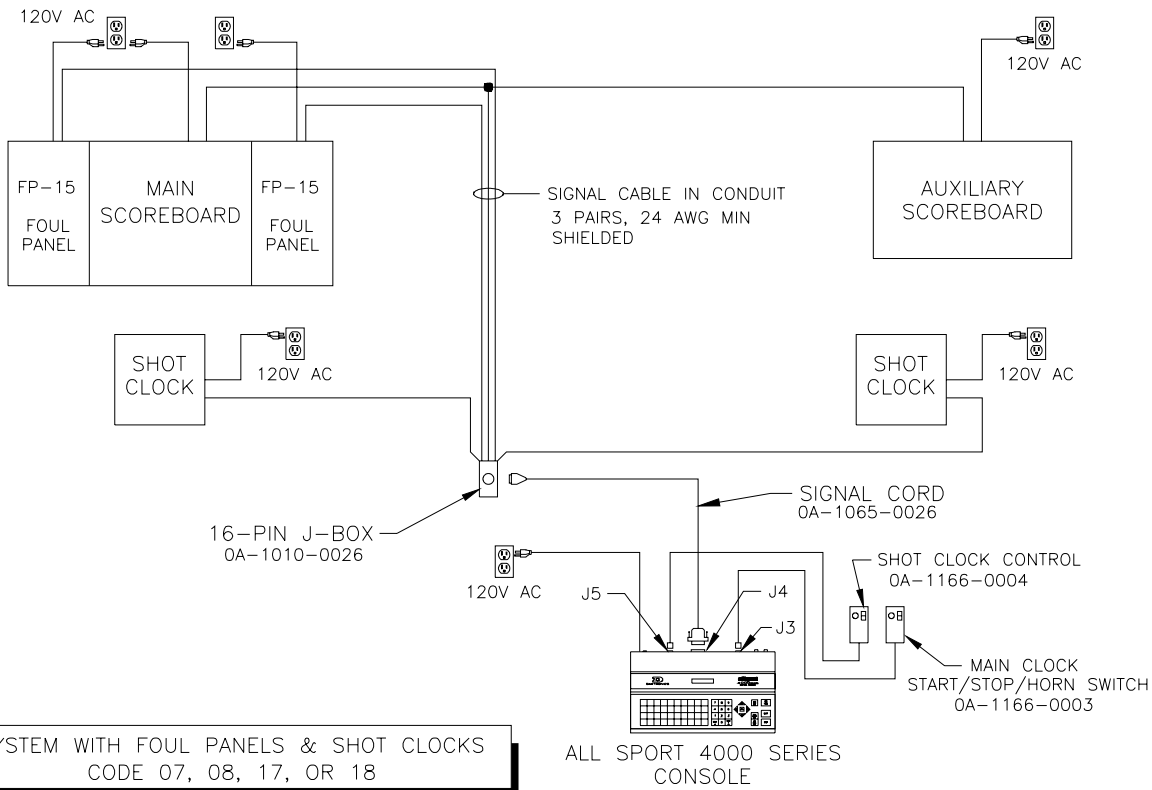
PROJ: \_\_\_\_\_

TITLE: **SYSTEM LAYOUT, INDEPENDENT SHOT CLOCK SYSTEM**

DES. BY: **AVB** DRAWN BY: **A VANBEMMEL** DATE: **26 MAR 97**

REVISION APPR. BY: \_\_\_\_\_

SCALE: **NONE** **1009-R04A-91638**



SYSTEM WITH FOUL PANELS & SHOT CLOCKS  
CODE 07, 08, 17, OR 18

OUTPUT TABLE  
CODE 07, 08, 17, OR 18

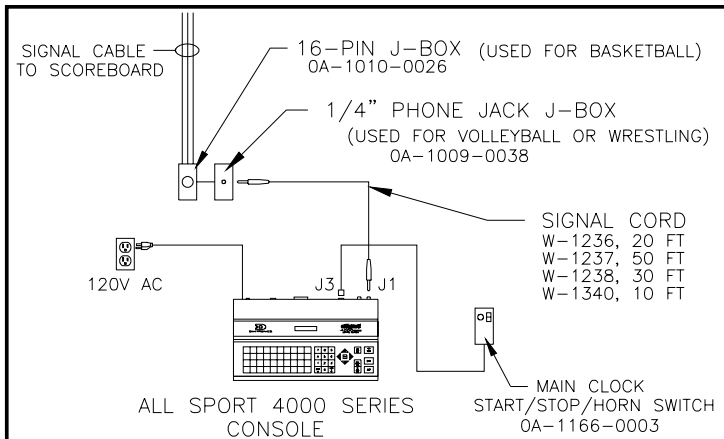
16-PIN J-BOX PIN#	WIRE COLOR	OUT- PUT #	SIGNAL TYPE
1	RED	1+	MAIN SCBD*
2	BLACK	1-	
3	WHITE	2+	LEFT FP-15
4	GREEN	2-	
5	ORANGE	3+	SHOT CLOCK
6	BLUE	3-	
7	WHT/BLK	4+	RIGHT FP-15
8	RED/BLK	4-	

\* MAIN SCOREBOARD SIGNAL  
MAY BE BB-17 OR BB-18,  
DEPENDING ON CODE USED.

AUXILIARY SCOREBOARD MUST USE  
THE SAME SIGNAL TYPE AS THE  
MAIN SCOREBOARD.

ALL SPORT 4000 SERIES CONSOLE  
PART NUMBERS

MODEL	PART NO.	DESCRIPTION
4100	0A-1166-0001	120V STANDARD
4120	0A-1166-0005	230V STANDARD
4900	0A-1166-0007	120V CUSTOM
4920	0A-1166-0008	230V CUSTOM



WIRING BETWEEN J-BOXES

16-PIN J-BOX PIN#	WIRE COLOR	PHONE JACK J-BOX WIRE COLOR
1	RED	RED
2	BLACK	BLACK

TO USE THIS SYSTEM FOR  
VOLLEYBALL OR WRESTLING,  
INSTALL A PHONE JACK J-BOX,  
CONNECT TWO CONDUCTORS  
BETWEEN THE J-BOXES,  
AND CONNECT TO THE CONSOLE  
USING A PHONE PLUG CORD.

SYSTEM WITH FOUL PANELS & SHOT CLOCKS  
VOLLEYBALL CODES 17 OR 73  
WRESTLING CODES 51, 52, 53, OR 54

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: ALL SPORT 4000

TITLE: BLOCK DIAGRAM, BASKETBALL W/ FOULS, ONE CONSOLE

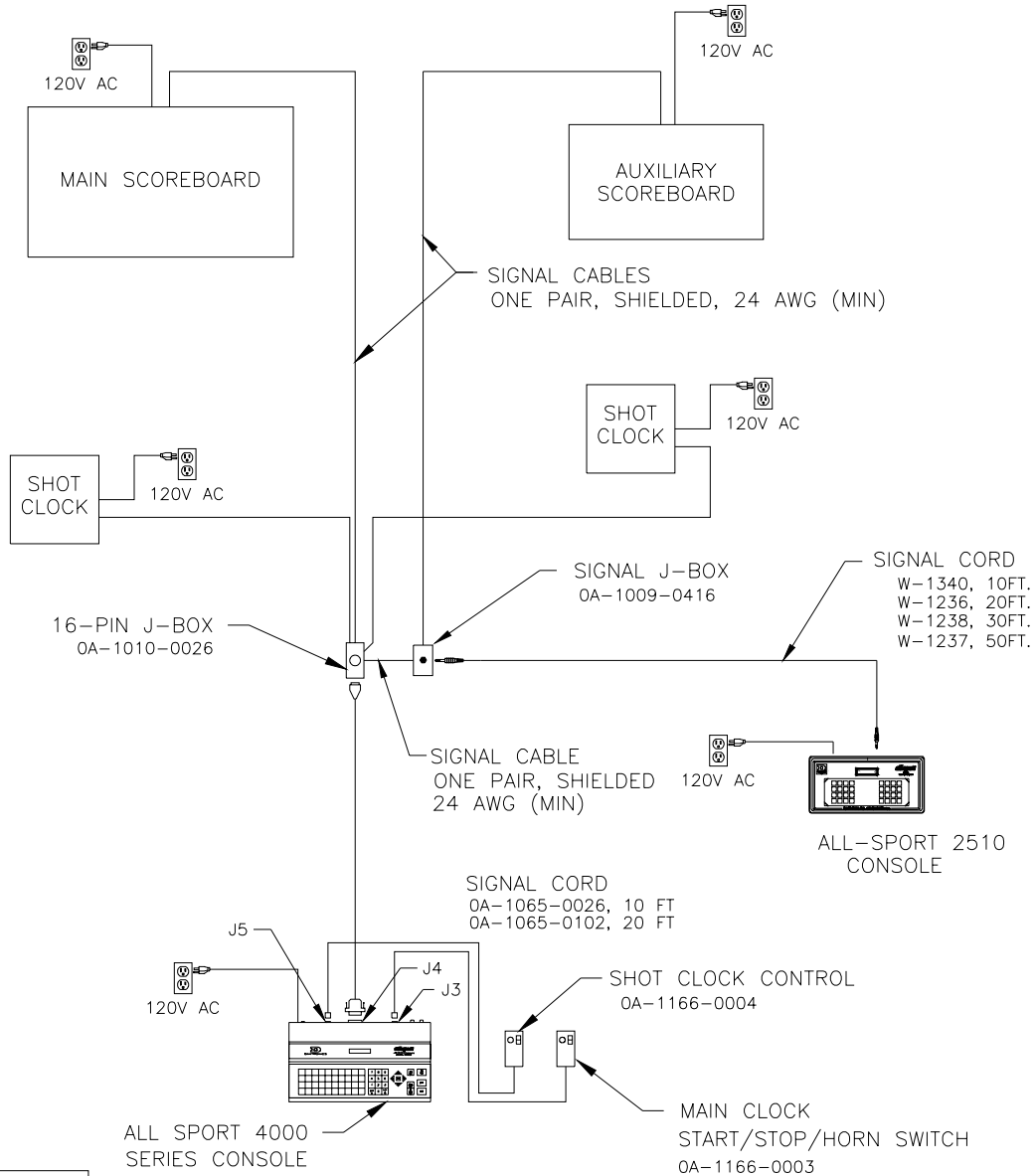
DES. BY: DRAWN BY: A VANBEMMEL DATE: 29 JUL 97

REVISION APPR. BY:  
SCALE: NONE

1166-R04A-95222

REV.	DATE	DESCRIPTION	BY	APPR.





120V AC SYSTEM WITH SHOT CLOCKS

OUTPUT TABLE			
16-PIN J-BOX PIN#	WIRE COLOR	OUT-PUT #	SIGNAL TYPE
1	RED	1+	MAIN SCBD*
2	BLACK	1-	MAIN SCBD*
3	WHITE	2+	MAIN SCBD*
4	GREEN	2-	MAIN SCBD*
5	ORANGE	3+	SHOT CLOCK
6	BLUE	3-	SHOT CLOCK
7	WHT/BLK	4+	AUX. BB-17
8	RED/BLK	4-	AUX. BB-17

\* MAIN SCOREBOARD SIGNAL MAY BE BB-17 OR BB-18, DEPENDING ON CODE USED.

OUTPUT TABLE (SHUNT), AUX. SCOREBOARD ALLSPORT 2510 CONSOLE		
WIRE COLOR	CONNECT TYPE	WIRE CONNECTION
RED	TIP	SCBD
BLACK	RING	SCBD, J-BOX
WHITE	SHUNT	J-BOX

REFER TO DWG# 1009-R10A-43399 FOR SHUNT WIRING AND INSTALLATION.

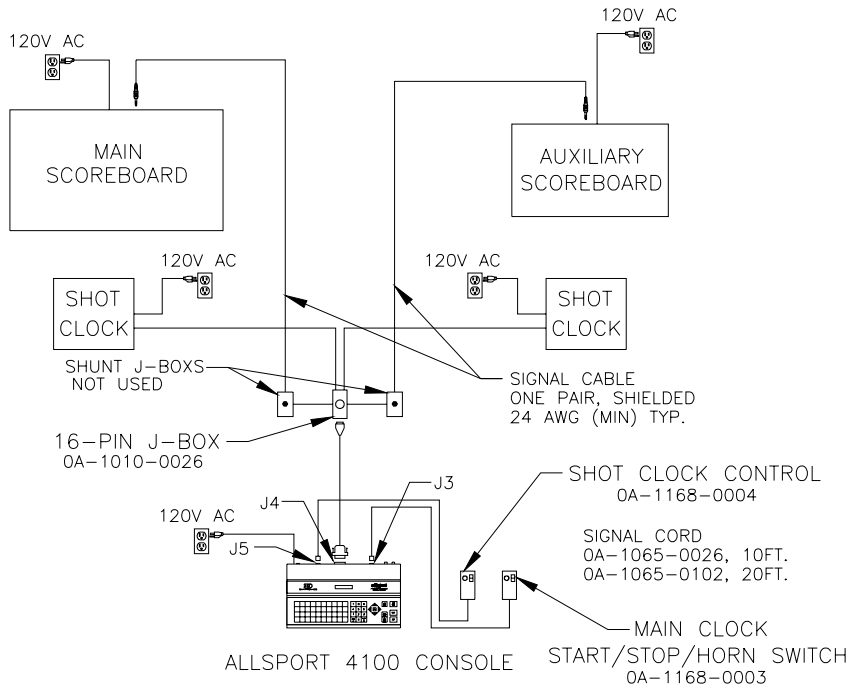
<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>		
PROJ: AS4000 CONSOLE		
TITLE: BLOCK DIAGRAM, BB W/ SHUNT		
DES. BY: AVB	DRAWN BY: MJORDAN	DATE: 29 OCT 97
REVISION	APPR. BY:	1166-R04A-98054
	SCALE: NONE	

REV.	DATE	DESCRIPTION	BY	APPR.

OUTPUT TABLE, MAIN SCOREBOARD  
CODE 05, 06, 13, OR 14

16-PIN J-BOX		OUT-PUT #	CONNECT TYPE	SIGNAL TYPE
PIN#	WIRE COLOR			
1	RED	1+	TIP	MAIN SCBD*
2	BLACK	1-	RING	
3	WHITE	2+	TIP	MAIN SCBD*
4	GREEN	2-	RING	
5	ORANGE	3+	TIP	SHOT CLOCK
6	BLUE	3-	RING	
7	WHT/BLK	4+	TIP	AUX. BB-17
8	RED/BLK	4-	RING	

\* MAIN SCOREBOARD SIGNAL MAY BE BB-17 OR BB-18, DEPENDING ON CODE USED.



SIMULTANEOUS OPERATION DIAGRAM

OUTPUT TABLE (SHUNT), MAIN SCOREBOARD  
ALLSPORT 4100 CONSOLE  
CODE 05, 06, 13, OR 14

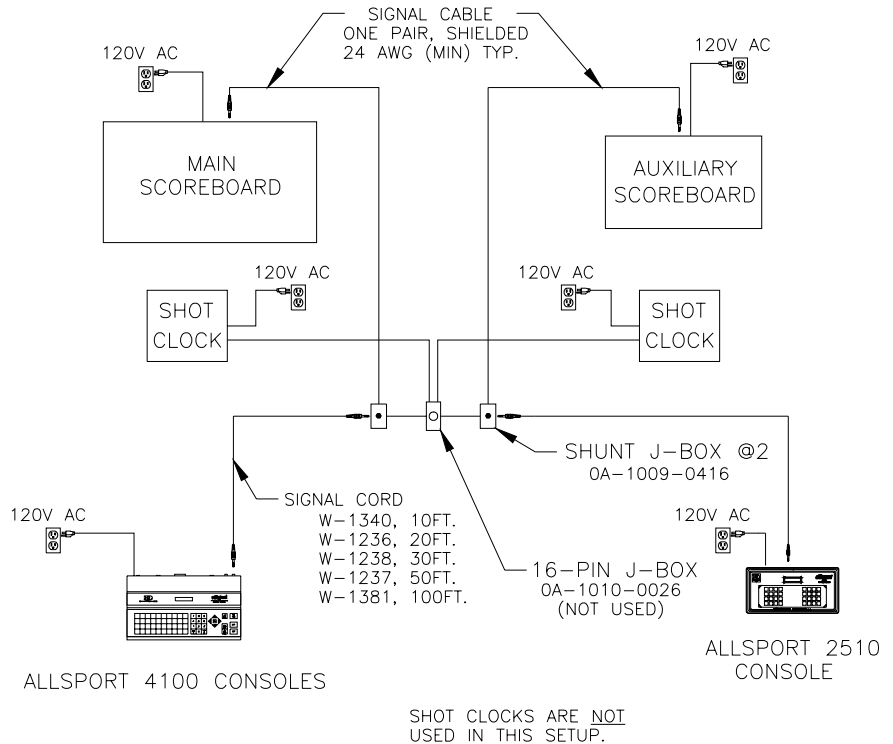
WIRE COLOR	CONNECT TYPE	WIRE CONNECTION
RED	TIP	SCBD
BLACK	RING	SCBD, J-BOX
WHITE	SHUNT	J-BOX
RED	TIP	SCBD
BLACK	RING	SCBD, J-BOX
WHITE	SHUNT	J-BOX

\* MAIN SCOREBOARD SIGNAL MAY BE BB-17 OR BB-18, DEPENDING ON CODE USED.

NOTE:  
- EITHER J1 OR J2 OUTPUTS MAY BE USED FOR OPERATION.

OUTPUT TABLE (SHUNT), AUX. SCOREBOARD  
ALLSPORT 2510 CONSOLE

WIRE COLOR	CONNECT TYPE	WIRE CONNECTION
RED	TIP	SCBD
BLACK	RING	SCBD, J-BOX
WHITE	SHUNT	J-BOX



REFER TO DWG# 1009-R10A-43399 FOR SHUNT WIRING AND INSTALLATION.

INDEPENDENT OPERATION DIAGRAM

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: ALL SPORT 4000

TITLE: BLOCK DIAGRAM, BB W/ 2 SHUNT

DES. BY: AVB

DRAWN BY: MJORDAN

DATE: 30 OCT 97

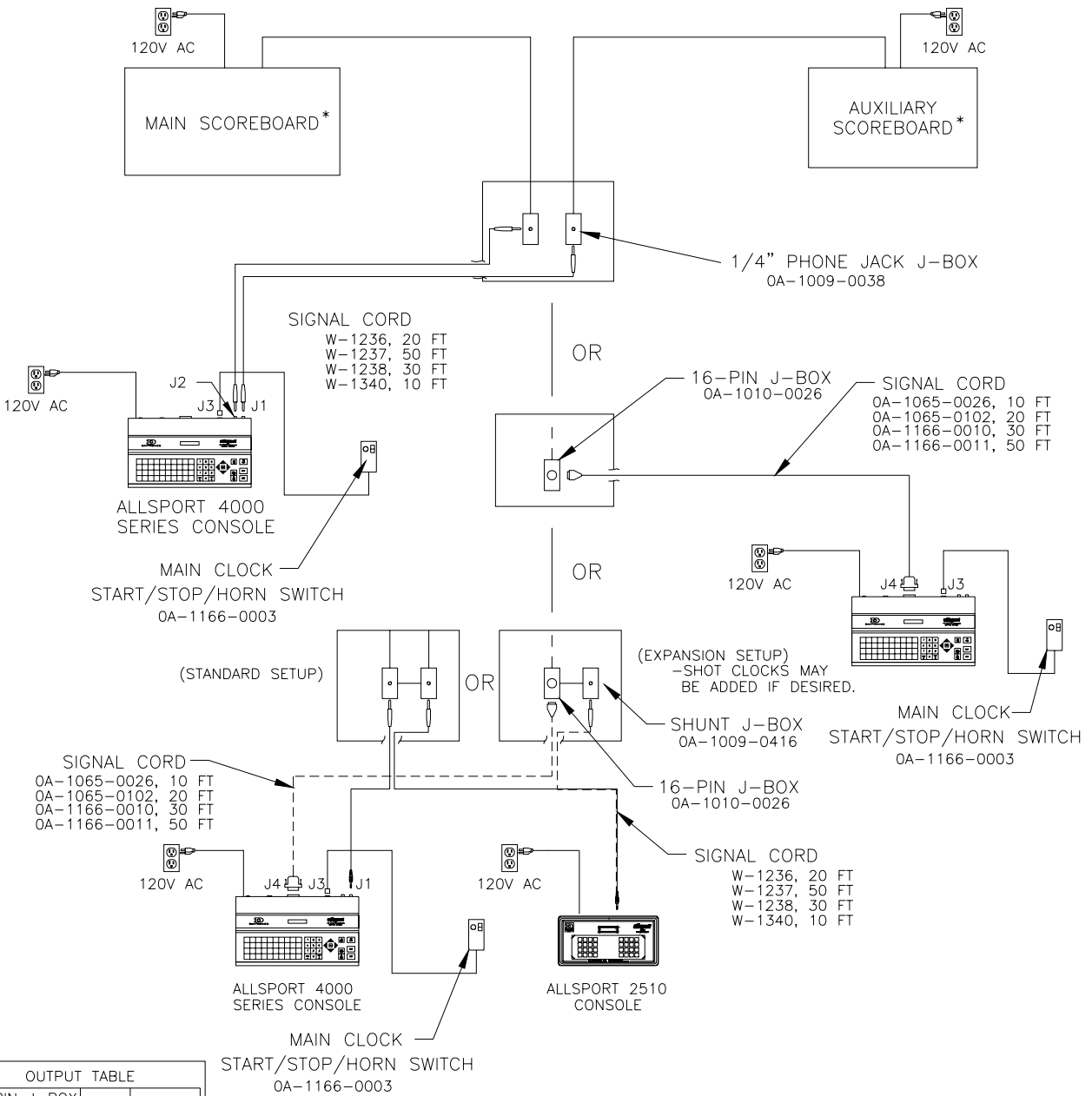
REVISION

APPR. BY:

SCALE: NONE

1166-R04A-98102

REV.	DATE	DESCRIPTION	BY	APPR.



OUTPUT TABLE

16-PIN J-BOX PIN#	WIRE COLOR	OUTPUT #	SIGNAL TYPE
1	RED	1+	MAIN SCBD *
2	BLACK	1-	MAIN SCBD *
3	WHITE	2+	MAIN SCBD *
4	GREEN	2-	MAIN SCBD *
5	ORANGE	3+	SHOT CLOCK
6	BLUE	3-	SHOT CLOCK
7	WHT/BLK	4+	AUX. BB-17
8	RED/BLK	4-	AUX. BB-17

\* MAIN SCOREBOARD SIGNAL MAY BE BB-17 OR BB-18, DEPENDING ON CODE USED.

120V AC SYSTEMS WITHOUT SHOT CLOCKS

OUTPUT TABLE (SHUNT), AUX. SCOREBOARD ALLSPORT 2510 CONSOLE

WIRE COLOR	CONNECT TYPE	WIRE CONNECTION
RED	TIP	SCBD
BLACK	RING	SCBD, J-BOX
WHITE	SHUNT	J-BOX

REFER TO DWG# 1009-R10A-43399 FOR SHUNT WIRING AND INSTALLATION.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: STANDARD SCOREBOARD

TITLE: BLOCK DIAGRAM, ALLSPORT 4100, NON-SHOT

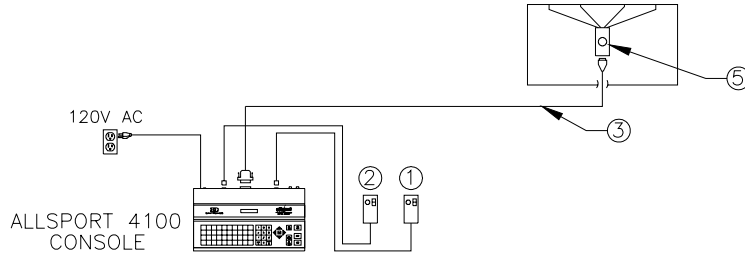
DES. BY: AVB DRAWN BY: MJORDAN DATE: 11 NOV 97

REVISION	APPR. BY:	1166-E10A-98368
	SCALE: NONE	

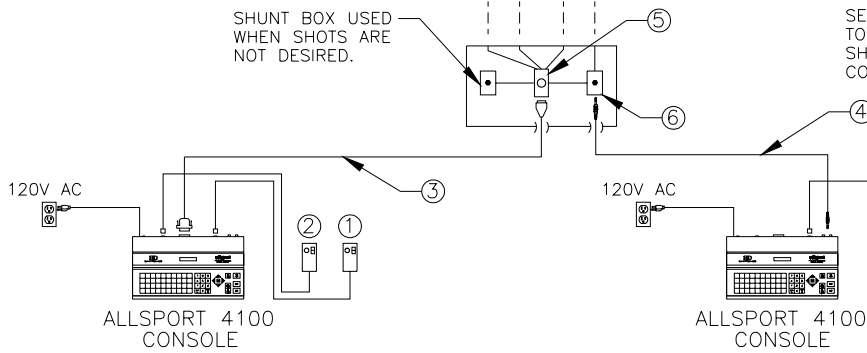
REV.	DATE	DESCRIPTION	BY	APPR.

- ① MAIN CLOCK  
START/STOP/HORN SWITCH  
0A-1166-0003
- ② SHOT CLOCK CONTROL  
0A-1166-0004
- ③ SIGNAL CORD  
0A-1065-0026, 10 FT  
0A-1065-0102, 20 FT  
0A-1166-0010, 30 FT  
0A-1166-0011, 50 FT

- ④ SIGNAL CORD  
W-1340, 10FT.  
W-1236, 20FT.  
W-1238, 30FT.  
W-1237, 50FT.  
W-1381, 100FT.
- ⑤ 16-PIN J-BOX  
0A-1010-0026
- ⑥ SHUNT J-BOX  
0A-1009-0416

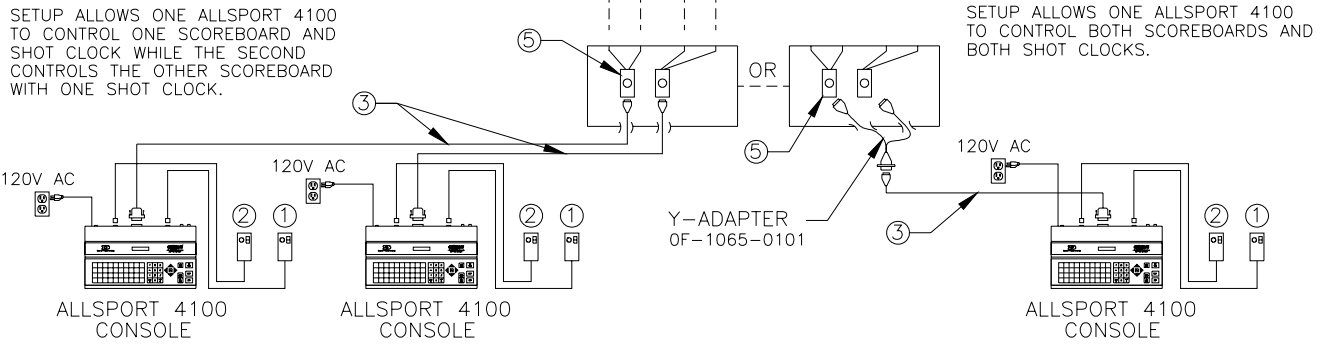


SETUP ALLOWS ONE ALLSPORT 4100 TO CONTROL BOTH SCOREBOARDS AND SHOT CLOCKS.



SETUP ALLOWS ONE ALLSPORT 4100 TO CONTROL ONE SCOREBOARD AND SHOT CLOCKS WHILE ANOTHER CONSOLE CONTROLS THE AUXILIARY SCOREBOARD.

NOTE:  
- AN ALLSPORT 2510 MAY ALSO OPERATE THE AUXILIARY SCOREBOARD.



SETUP ALLOWS ONE ALLSPORT 4100 TO CONTROL ONE SCOREBOARD AND SHOT CLOCK WHILE THE SECOND CONTROLS THE OTHER SCOREBOARD WITH ONE SHOT CLOCK.

SETUP ALLOWS ONE ALLSPORT 4100 TO CONTROL BOTH SCOREBOARDS AND BOTH SHOT CLOCKS.

OUTPUT TABLE			
16-PIN J-BOX PIN#	WIRE COLOR	OUT-PUT #	SIGNAL TYPE
1	RED	1+	MAIN SCBD *
2	BLACK	1-	MAIN SCBD *
3	WHITE	2+	MAIN SCBD *
4	GREEN	2-	MAIN SCBD *
5	ORANGE	3+	SHOT CLOCK
6	BLUE	3-	SHOT CLOCK
7	WHT/BLK	4+	AUX. BB-17
8	RED/BLK	4-	AUX. BB-17

OUTPUT TABLE (SHUNT), AUX. SCOREBOARD ALLSPORT 2510 CONSOLE		
WIRE COLOR	CONNECT TYPE	WIRE CONNECTION
RED	TIP	SCBD
BLACK	RING	SCBD, J-BOX
WHITE	SHUNT	J-BOX

REFER TO DWG# 1009-R10A-43399 FOR SHUNT WIRING AND INSTALLATION.

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: STANDARD SCOREBOARD	
TITLE: BLOCK DIAGRAM, ALLSPORT 4000, W/SHOT	
DES. BY: AVB	DATE: 12 NOV 97
REVISION	APPR. BY: _____
SCALE: NONE	1166-E10A-98369

REV.	DATE	DESCRIPTION	BY	APPR.

# Appendix B: Basketball Scoreboards

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<b>Reference Drawings:</b>	Spec, Mechanical BB-87-9 .....	<b>Drawing A-56600</b>
	Spec, Electrical/Signal BB-87-9.....	<b>Drawing A-56607</b>
	Spec, Mechanical BB-1113-9 .....	<b>Drawing A-90624</b>
	Spec, Electrical/Signal BB-1113-9.....	<b>Drawing A-99895</b>
	Spec, Mechanical BB-1813-9 .....	<b>Drawing A-90640</b>
	Spec, Electrical/Signal BB-1813-9.....	<b>Drawing A-99893</b>
	Spec, Mechanical BB-2021-9 .....	<b>Drawing A-99480</b>
	Spec, Electrical/Signal BB-2021-9.....	<b>Drawing A-90792</b>
	Spec, Mechanical BB-2025-9 .....	<b>Drawing A-99481</b>
	Spec, Electrical/Signal BB-2025-9.....	<b>Drawing A-90683</b>
	Spec, Mechanical FP-15-9 .....	<b>Drawing A-58619</b>
	Spec, Electrical/Signal FP-15-9.....	<b>Drawing A-61870</b>
	Spec, Mechanical FP-257-9 .....	<b>Drawing A-56470</b>
	Spec, Electrical/Signal FP-257-9.....	<b>Drawing A-56599</b>

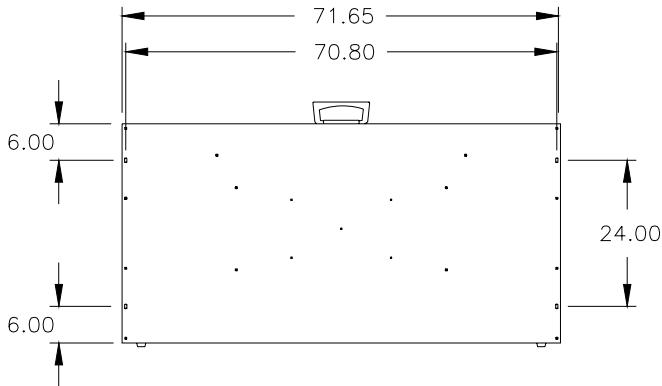


# BB-87-9 SCOREBOARD

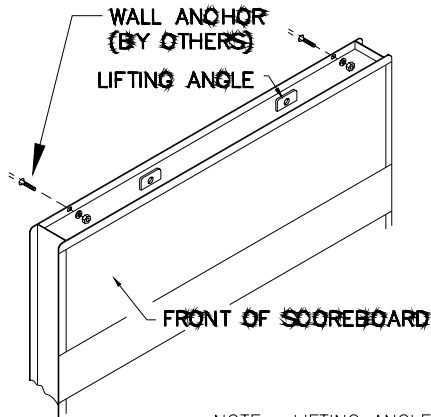
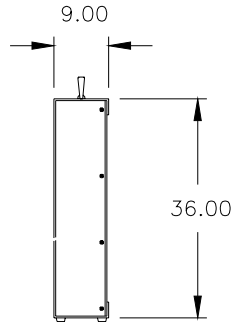
## MECHANICAL SPEC

### MOUNTING SPEC

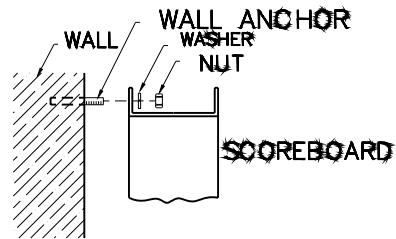
BACK VIEW



SIDE VIEW

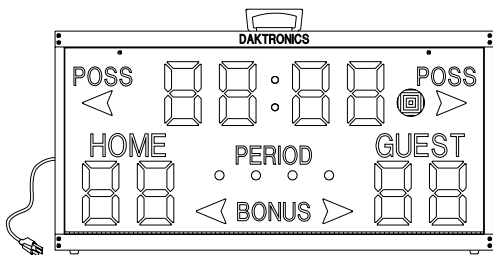


ATTACH THE SCOREBOARD TO THE WALL AT ALL MOUNTING LOCATIONS INDICATED. USE THE APPROPRIATE ANCHORS FOR THE TYPE OF WALL.



NOTE: LIFTING ANGLES WERE DESIGNED ONLY FOR TEMPORARY USE WHILE LIFTING DISPLAY IN PLACE. DO NOT USE LIFTING ANGLES TO SECURE DISPLAY IN PLACE.

FRONT VIEW



### DISPLAY SPEC:

- SHIPPING WEIGHT: 65 lbs
- MOUNTING WEIGHT: 55 lbs
- DIMENSIONS: 80.76"x 45.25"x 6"

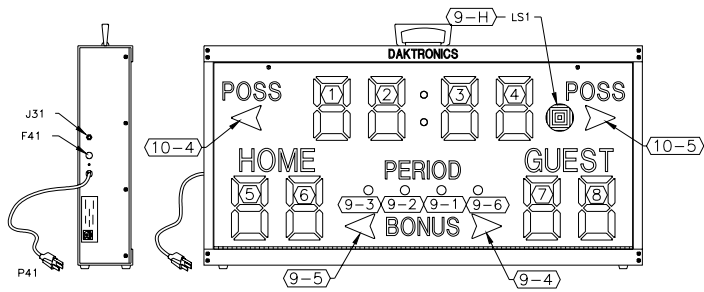
DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: STANDARD LED SCOREBOARDS			
TITLE: MECHANICAL SPEC, BB-87-9			
DES. BY:		DRAWN BY: JLEAR	DATE: 20FEB98
REVISION	APPR. BY:	1152-E10A-56600	
	SCALE: 1=30		

REV.	DATE	DESCRIPTION	BY	APPR.

# BB-87-9 SCOREBOARD

## ELECTRICAL/SIGNAL SPEC

### DIGIT, SIGNAL AND POWER SPEC



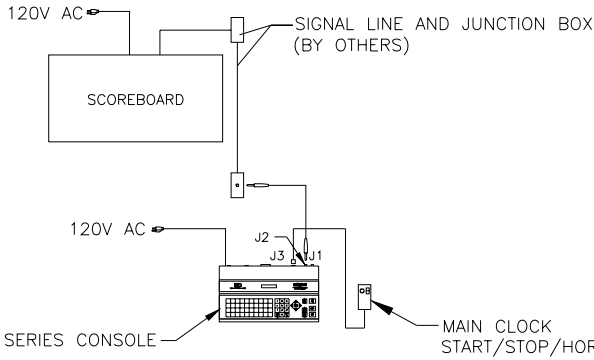
NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES THE DIGIT DESIGNATION IN RELATION TO THE LED DRIVER.

NOTE: REFER TO DRAWING BELOW OR ALLSPORT MANUAL FOR ADDITIONAL WIRING DIAGRAMS OF DISPLAY. USE MINIMUM OF 24AWG, SHIELDED, TWO CONDUCTOR CABLE FOR SIGNAL TERMINATION.

#### POWER SPEC:

- 120VAC & 230VAC MODELS AVAILABLE.
- 15 AMP CIRCUIT REQUIRED.
- 100 WATTS MAXIMUM.
- PRODUCT SAFETY APPROVAL: ETL LISTED, TESTED TO CSA STANDARDS, AND CE LABELED FOR INDOOR USE.

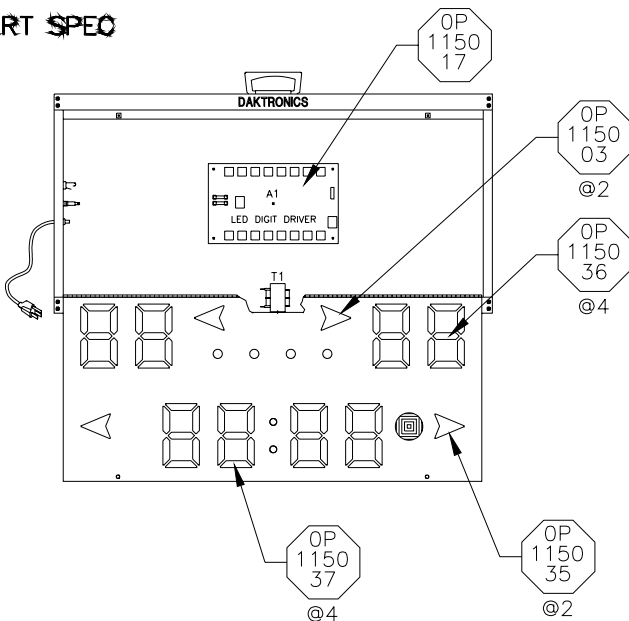
#### TYPICAL, SINGLE DISPLAY SETUP:



NOTE: OPERATING CODE FOR A BB-87-9, BASKETBALL DISPLAY IS CODE 11.

NOTE: FOR ADDITIONAL OPERATING CODES FOR OTHER SPORTS, REFER TO YOUR ALL SPORT MANUAL. ANY CODE LISTED FOR BB-18 WILL WORK ON THIS DISPLAY.

### PART SPEC



NOTE: REFER TO THE MANUAL FOR WARRANTY AND COMPONENT REPLACEMENT PROCEDURES.

NOTE: TO ACCESS LED DRIVER, REMOVE TWO SCREWS HOLDING ACCESS DOOR CLOSED. THESE SCREWS ARE LOCATED ON TOP OF ACCESS DOOR. SECURE OPEN.

#### REPLACEMENT PART NUMBERS

PART NO.	DESCRIPTION
0A-1150-0032	DIGIT; 13" RED 7SEG LED
0P-1150-0017	LED DRIVER
T-1066	TRANSFORMER, 16V SEC.
DS-1040	HORN, 120VAC
0A-1152-0034	HARNES; BB-87
ED-10718	MANUAL; LED SCOREBOARD
W-1236	CABLE, A/S TO J BOX
0A-1065-0026	CABLE, 25 PIN TO 16 PIN
0A-1166-0001	A/S 4100
0A-1010-0026	J BOX, 16 PIN
0A-1009-0038	J BOX, 1/4 PHONO
0P-1150-0003	ARROW; 3" RED LED
0P-1150-0004	PERIOD INDICATOR
0P-1150-0035	ARROW; 3" GRN
0P-1150-0036	DIGIT; 7" RED 7 SEG LED
0P-1150-0037	DIGIT; 7" GRN 7 SEG LED
0A-1152-0125	BB-87-9, SCOREBOARD

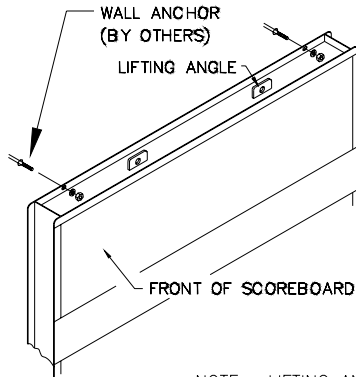
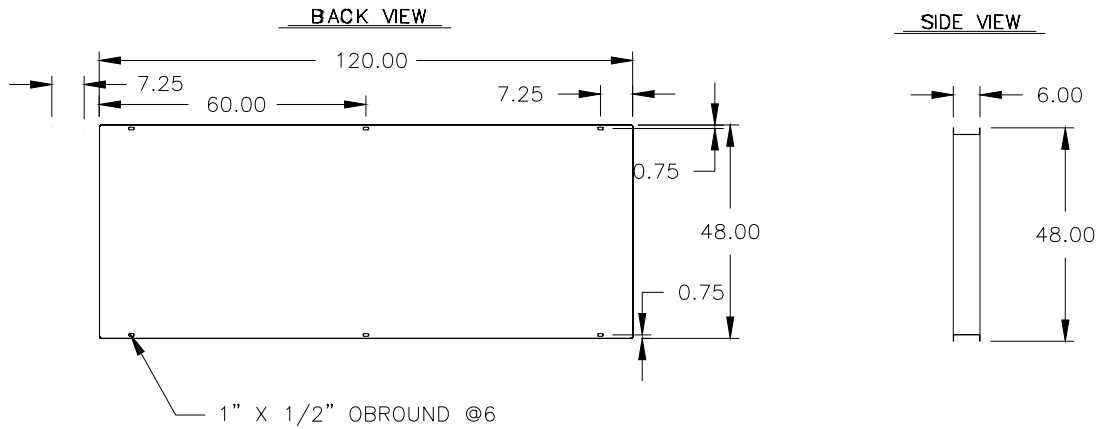
NOTE: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.

<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>				
PROJ: STANDARD LED SCOREBOARDS				
TITLE: ELECTRICAL & SIGNAL SPEC, BB-87-9				
DES. BY:	DRAWN BY: JLEAR		DATE: 19FEB98	
REVISION	APPR. BY:	1152-E10A-56607		
	SCALE: 1=30			
02	19 SEP 01	CHANGED TITLE TO ELECTRICAL & SIGNAL SPEC, BB-4413-9 FOR AS-5000	ALG	
1	16 JUNE 98	UPDATED TEXT FOR CLARITY	CJB	
REV.	DATE	DESCRIPTION	BY	APPR.

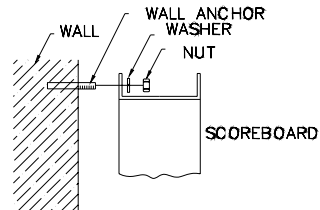


**BB-1113-9 SCOREBOARD**  
**MECHANICAL SPEC**

**MOUNTING SPEC**

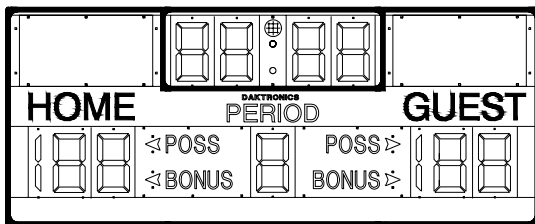


ATTACH THE SCOREBOARD TO THE WALL AT ALL MOUNTING LOCATIONS INDICATED. USE THE APPROPRIATE ANCHORS FOR THE TYPE OF WALL.



NOTE: LIFTING ANGLES WERE DESIGNED ONLY FOR TEMPORARY USE WHILE LIFTING DISPLAY IN PLACE. DO NOT USE LIFTING ANGLES TO SECURE DISPLAY IN PLACE.

**FRONT VIEW**



**DISPLAY SPEC:**

- SHIPPING WEIGHT: 180 lbs
- MOUNTING WEIGHT: 110 lbs
- DIMENSIONS: 120.00"x 48.00"x 6"

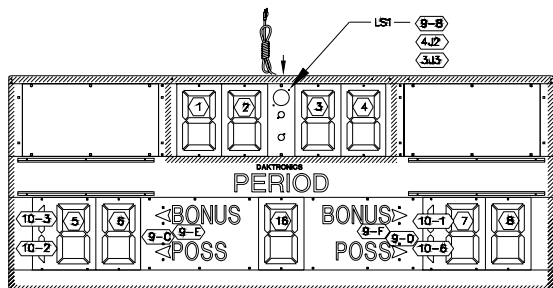
REV.	DATE	DESCRIPTION	BY	APPR.
4	10 JUL 00	REMOVED HOME/GUEST CAPTION RAILS. CHANGED MOUNTING WEIGHT FROM 120 TO 110.	EPR	
3	13JAN2000	SWAPPED BONUS AND POSS CAPTIONS	AVB	AVB
2	16 JUNE 98	UPDATED TEXT FOR CLARITY	CJB	
1	06MAR98	REMOVE FRAME OUTLINE AND RIVET HOLES FROM BACK VIEW.	JML	

<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>	
PROJ: LED 2 STRING SCOREBOARDS	
TITLE: MECHANICAL SPEC, BB-1113-9	
DES. BY:	DRAWN BY: HBONER
	DATE: 9 FEB 98
REVISION	APPR. BY:
	SCALE: 1=40
<b>1152-E10A-90624</b>	

# BB-1113-9 SCOREBOARD

## ELECTRICAL/SIGNAL SPEC

### DIGIT, SIGNAL AND POWER SPEC



NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES THE DIGIT DESIGNATION IN RELATION TO THE LED DRIVER.

NOTE: ARROW INDICATES SIGNAL TERMINATION POINT ON DISPLAY. REFER TO DRAWING BELOW OR ALLSPORT MANUAL FOR ADDITIONAL WIRING DIAGRAMS OF DISPLAY. USE MINIMUM OF 24AWG, SHIELDED, TWO CONDUCTOR CABLE FOR SIGNAL TERMINATION.

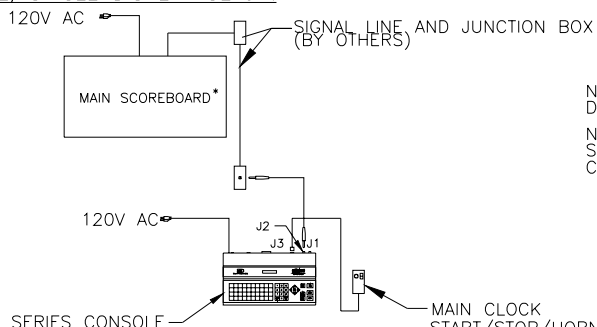
#### POWER SPEC:

- 120VAC & 230VAC MODLES AVAILABLE.
- 15 AMP CIRCUIT REQUIRED.
- 100 WATTS MAXIMUM.
- PRODUCT SAFETY APPROVAL:  
ETL LISTED, TESTED TO CSA STANDARDS,  
AND CE LABELED FOR INDOOR USE.

NOTE: CAPTIONS SLIP EASILY IN/OUT OF RAILS MOUNTED ON DISPLAY.

**HOME**                      **GUEST**

#### TYPICAL, SINGLE DISPLAY SETUP:

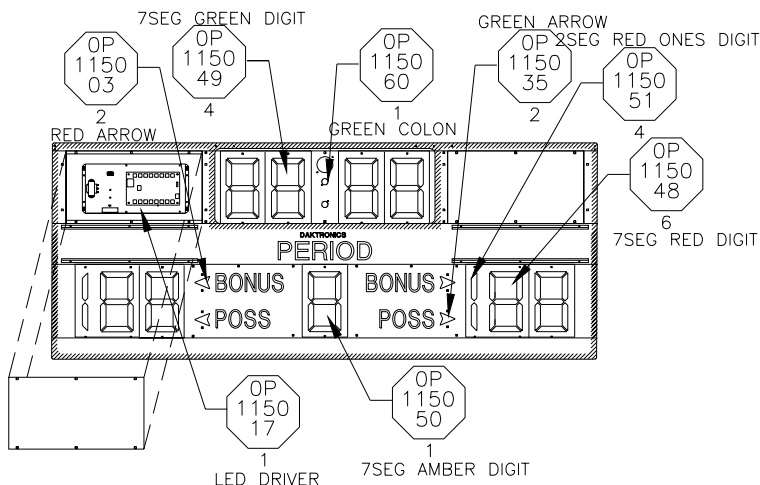


NOTE: OPERATING CODE FOR A BB-1113-9, BASKETBALL DISPLAY IS CODE 03.

NOTE: FOR ADDITIONAL OPERATING CODES FOR OTHER SPORTS, REFER TO YOUR ALL SPORT MANUAL. ANY CODE LISTED FOR BB-18 WILL WORK ON THIS DISPLAY.

ALL SPORT 4000 SERIES CONSOLE                      MAIN CLOCK START/STOP/HORN SWITCH

### PART SPEC



NOTE: REFER TO THE MANUAL FOR WARRANTY AND COMPONENT REPLACEMENT PROCEDURES.

NOTE: TO ACCESS LED DRIVER, REMOVE TWO SCREWS HOLDING ACCESS DOOR CLOSED. THESE SCREWS ARE LOCATED ON BOTTOM OF ACCESS DOOR. SECURE OPEN.

#### REPLACEMENT PART NUMBERS

PART NO.	DESCRIPTION
0A-1152-0131	BB-1113-9, SCOREBOARD
OP-1150-0017	LED DRIVER
T-1066	TRANSFORMER, 16V SEC.
DS-1040	HORN, 120VAC
0A-1171-4004	HARNES; 7 SEG DIGIT
0A-1171-4033	HARNES; ARROWS
0A-1171-4036	HARNES; ONES DIGITS
ED-10718	MANUAL; LED SCOREBOARD
0A-1150-0032	DIGIT; 13" RED 7-SEG
0A-1150-0033	DIGIT; 13" GRN 7-SEG
0A-1150-0035	DIGIT; 13" RED 9-SEG
W-1236	CABLE, A/S TO J BOX
0A-1065-0026	CABLE, 25 PIN TO 16 PIN
0A-1166-0001	A/S 4100
0A-1010-0026	J BOX, 16 PIN
0A-1009-0038	J BOX, 1/4 PHONO

NOTE: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED 2 STRING SCOREBOARD

TITLE: ELECTRICAL AND SIGNAL SPEC, BB-1113-9

DES. BY:                      DRAWN BY: HBB                      DATE: 6 FEB 98

REVISION

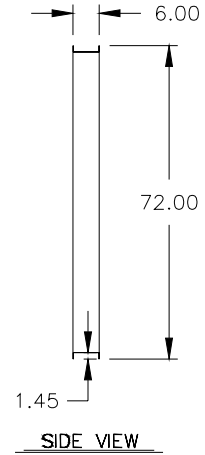
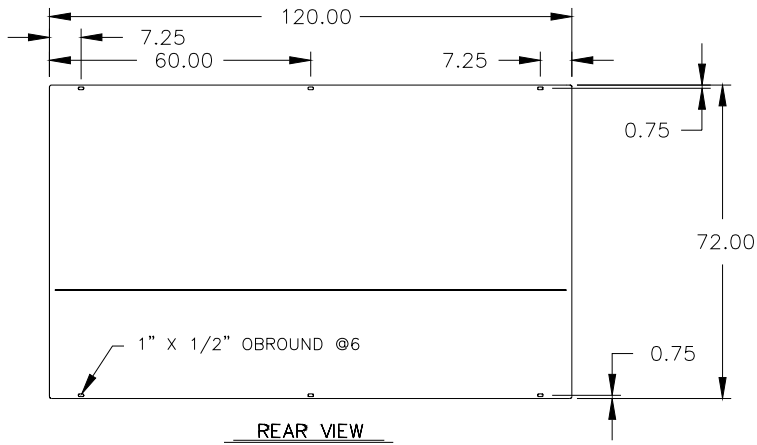
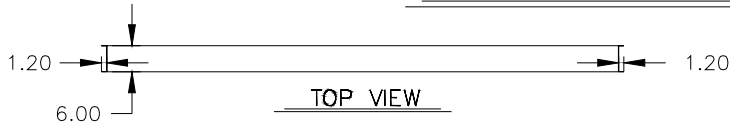
APPR. BY:

SCALE: 1=40

1152-E10A-99895

REV.	DATE	DESCRIPTION	BY	APPR.
1	16 JUNE 98	UPDATED TEXT FOR CLARITY	CJB	

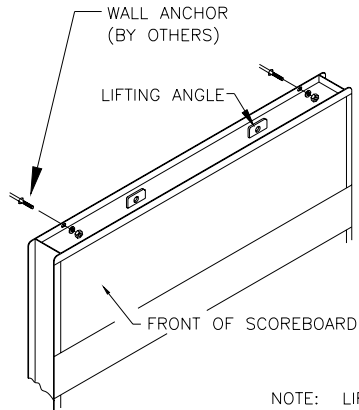
BB-1813 SCOREBOARD



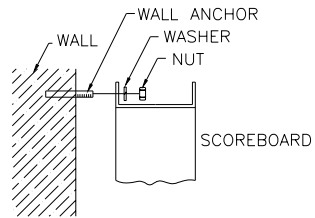
REAR VIEW  
MECHANICAL SPEC

SIDE VIEW

MOUNTING SPEC

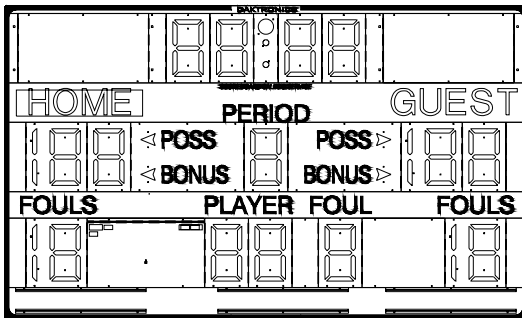


ATTACH THE SCOREBOARD TO THE WALL AT ALL MOUNTING LOCATIONS INDICATED. USE THE APPROPRIATE ANCHORS FOR THE TYPE OF WALL.



NOTE: LIFTING ANGLES WERE DESIGNED ONLY FOR TEMPORARY USE WHILE LIFTING DISPLAY IN PLACE. DO NOT USE LIFTING ANGLES TO SECURE DISPLAY IN PLACE.

FRONT VIEW



DISPLAY SPEC:

- SHIPPING WEIGHT: 260 lbs
- MOUNTING WEIGHT: 160 lbs
- DIMENSIONS: 120.00"x 72.00"x 6.00"

1	06MAR98	REMOVED FRAME OUTLINE AND RIVETS FROM BACK VIEW.	JML
2	16 JUNE 98	UPDATED TEXT FOR CLARITY.	CJB
3	03 DEC 98	ADDED TOP VIEW TO MECHANICAL SPEC.	MWJ

6	10 JUL 00	CHANGED MOUNTING WEIGHT FROM 200 TO 160. REMOVED HOME/GUEST CAPTION RAILS.	EPR	
5	24 JAN 00	MADE DRAWING GENERIC TO INCLUDE ALL MODELS.	MWJ	
4	05 JAN 99	SWITCHED BONUS AND POSITION ARROWS.	JNILSE	
REV.	DATE	DESCRIPTION	BY	APPR.

**DAKTRONICS, INC. BROOKINGS, SD 57006**

PROJ: LED 2 STRING SCOREBOARDS

TITLE: MECHANICAL SPEC, BB-1813

DES. BY: DRAWN BY: HBONER DATE: 9 FEB 98

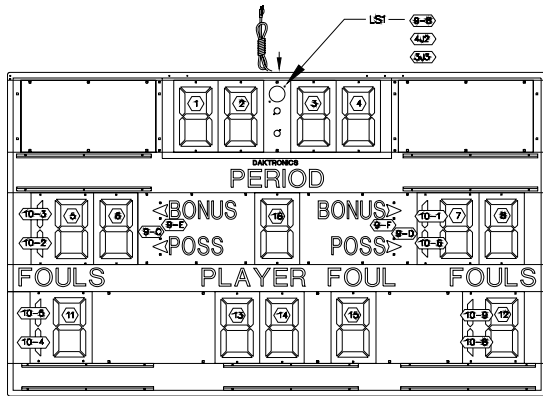
REVISION APPR. BY: 1152-E10A-90640

SCALE: 1=40

# BB-1813-9 SCOREBOARD

## ELECTRICAL/SIGNAL SPEC

### DIGIT, SIGNAL AND POWER SPEC



NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES WHICH DRIVER CONNECTOR IS WIRED TO THAT DIGIT.

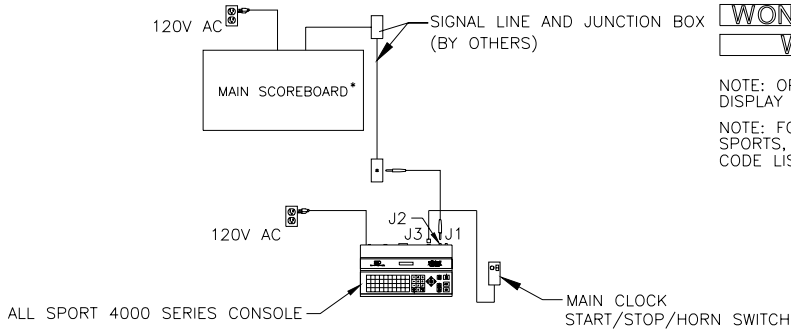
NOTE: ARROW INDICATES SIGNAL TERMINATION POINT ON DISPLAY. REFER TO DRAWING BELOW OR ALLSPORT MANUAL FOR ADDITIONAL WIRING DIAGRAMS OF DISPLAY. USE MINIMUM OF 24AWG, SHIELDED, TWO CONDUCTOR CABLE FOR SIGNAL TERMINATION.

#### POWER SPEC:

- 120VAC & 230VAC MODULES AVAILABLE.
- 15 AMP CIRCUIT REQUIRED.
- 100 WATTS MAXIMUM.
- PRODUCT SAFETY APPROVAL:  
ETL LISTED, TESTED TO CSA STANDARDS,  
AND CE LABELED FOR INDOOR USE.

NOTE: VOLLEYBALL AND WRESTLING CAPTIONS ARE AVAILABLE AND SLIP EASILY IN/OUT OF RAILS MOUNTED ON DISPLAY.

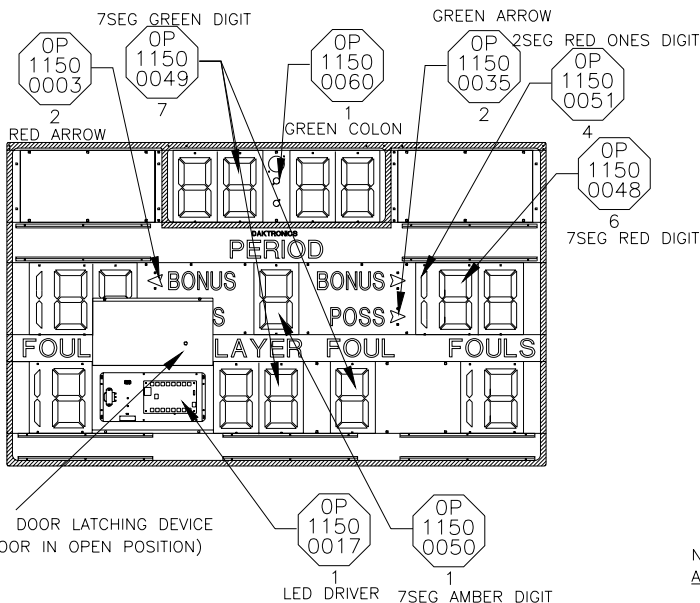
#### TYPICAL, SINGLE DISPLAY SETUP:



NOTE: OPERATING CODE FOR A BB-1813-9, BASKETBALL DISPLAY IS CODE 03.

NOTE: FOR ADDITIONAL OPERATING CODES FOR OTHER SPORTS, REFER TO YOUR ALL SPORT MANUAL. ANY CODE LISTED FOR BB-18 WILL WORK ON THIS DISPLAY.

### PART SPEC



NOTE: REFER TO THE MANUAL FOR WARRANTY AND COMPONENT REPLACEMENT PROCEDURES.

NOTE: TO ACCESS LED DRIVER, REMOVE TWO SCREWS HOLDING ACCESS DOOR CLOSED. THESE SCREWS ARE LOCATED ON BOTTOM OF ACCESS DOOR. SECURE OPEN.

#### REPLACEMENT PART NUMBERS

PART NO.	DESCRIPTION
0A-1152-0126	BB-1813-9, SCOREBOARD
OP-1150-0017	LED DRIVER
T-1066	TRANSFORMER, 16V SEC.
DS-1040	HORN, 120VAC
0A-1171-4004	HARNES; 7 SEG DIGIT
0A-1171-4033	HARNES; ARROWS
0A-1171-4036	HARNES; ONES DIGITS
ED-10718	MANUAL; LED SCOREBOARD
0A-1150-0032	DIGIT; 13" RED 7-SEG
0A-1150-0033	DIGIT; 13" GRN 7-SEG
0A-1150-0035	DIGIT; 13" RED 9-SEG
W-1236	CABLE, A/S TO J BOX
0A-1065-0026	CABLE, 25 PIN TO 16 PIN
0A-1166-0001	A/S 4100
0A-1010-0026	J BOX, 16 PIN
0A-1009-0038	J BOX, 1/4 PHONO

NOTE: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.

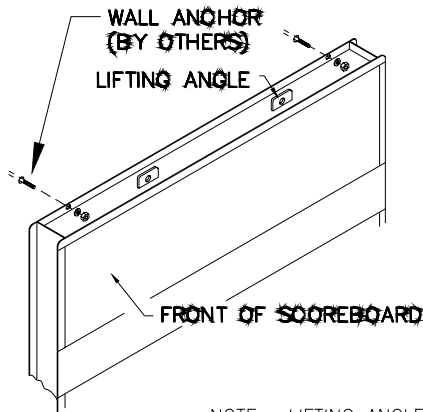
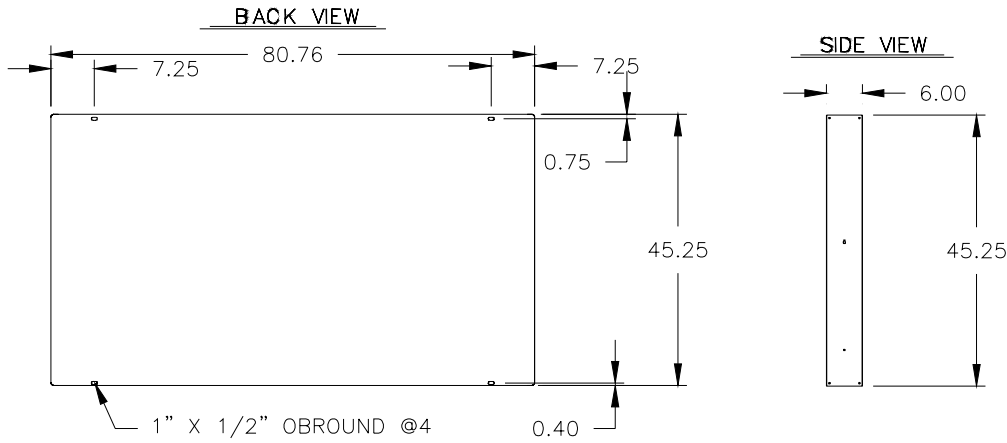
REV.	DATE	DESCRIPTION	BY	APPR.
1	16 JUNE 98	UPDATED TEXT FOR CLARITY	CJB	

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED 2 STRING SCOREBOARD	
TITLE: ELECTRICAL AND SIGNAL SPEC, BB-1813-9	
DES. BY:	DRAWN BY: HBB DATE: 26 JAN 98
REVISION	APPR. BY:
SCALE: 1=40	1152-E10A-99893

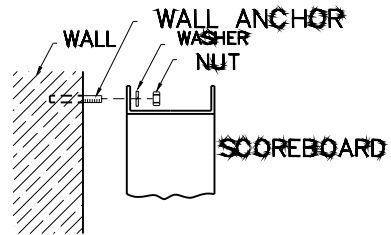
# BB-2021 SCOREBOARD

## MECHANICAL SPEC

### MOUNTING SPEC

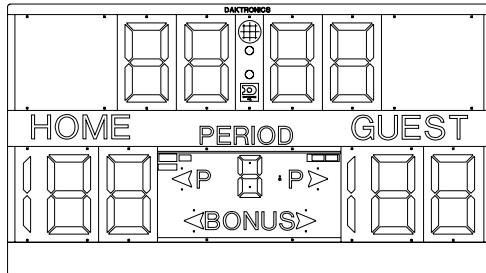


ATTACH THE SCOREBOARD TO THE WALL AT ALL MOUNTING LOCATIONS INDICATED. USE THE APPROPRIATE ANCHORS FOR THE TYPE OF WALL.



NOTE: LIFTING ANGLES WERE DESIGNED ONLY FOR TEMPORARY USE WHILE LIFTING DISPLAY IN PLACE. DO NOT USE LIFTING ANGLES TO SECURE DISPLAY IN PLACE.

### FRONT VIEW



### DISPLAY SPEC:

- SHIPPING WEIGHT: 120 lbs
- MOUNTING WEIGHT: 80 lbs
- DIMENSIONS: 80.76"x 45.25"x 6.00"

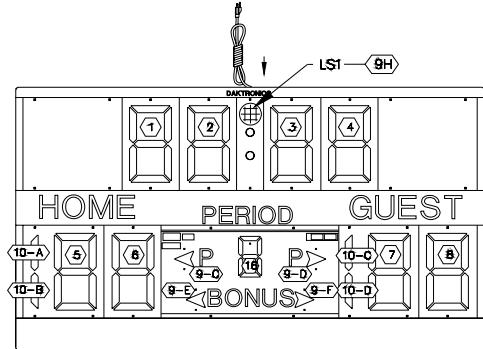
REV.	DATE	DESCRIPTION	BY	APPR.
3	10 JUL 00	CHANGED MOUNTING WEIGHT FROM 70 TO 80.	EPR	
2	06MAR98	REMOVED FRAME OUTLINE AND RIVETS HOLES FROM BACK VIEW.	JML	
1	26 JAN 98	CHANGED DRAWING TITLE AND SPLIT ELECTRICAL AND MECHANICAL SPEC SHEETS INTO TWO DRAWINGS.	HBB	

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED 2 STRING SCOREBOARD	
TITLE: MECHANICAL SPEC, BB-2021	
DES. BY:	DRAWN BY: HBB      DATE: 31 DEC 97
REVISION	APPR. BY:
	SCALE: 1=30
1152-E10A-99480	

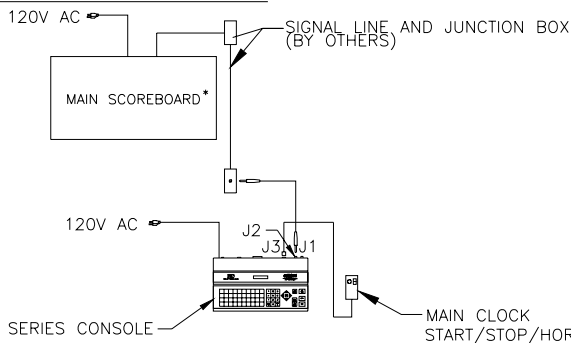
# BB-2021 SCOREBOARD

## ELECTRICAL/SIGNAL SPEC

### DIGIT, SIGNAL AND POWER SPEC



TYPICAL, SINGLE DISPLAY SETUP:



NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES WHICH DRIVER CONNECTOR IS WIRED TO THAT DIGIT.

NOTE: ARROW INDICATES SIGNAL TERMINATION POINT ON DISPLAY. REFER TO DRAWING BELOW OR ALLSPORT MANUAL FOR ADDITIONAL WIRING DIAGRAMS OF DISPLAY. USE MINIMUM OF 24AWG, SHIELDED, TWO CONDUCTOR CABLE FOR SIGNAL TERMINATION.

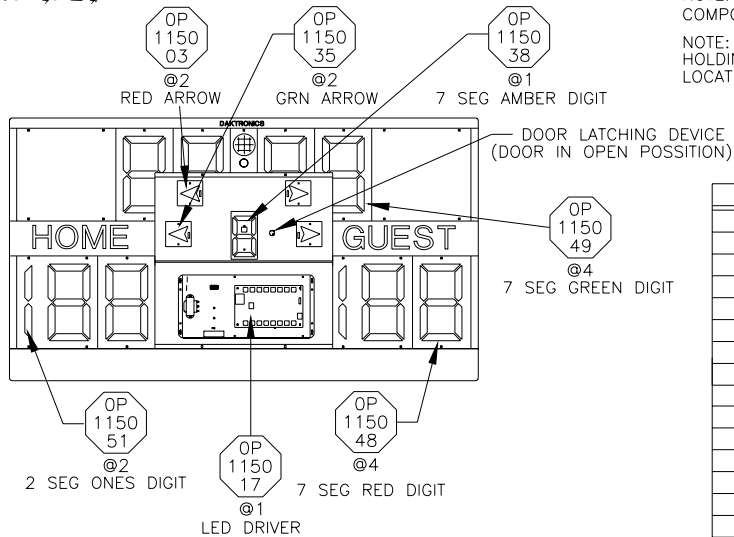
### POWER SPEC:

- 120VAC & 230VAC MODULES AVAILABLE.
- 15 AMP CIRCUIT REQUIRED.
- 100 WATTS MAXIMUM.
- PRODUCT SAFETY APPROVAL:  
ETL LISTED, TESTED TO CSA STANDARDS,  
AND CE LABELED FOR INDOOR USE.

NOTE: OPERATING CODE FOR A BB-2021-9, BASKETBALL DISPLAY IS CODE 03.

NOTE: FOR ADDITIONAL OPERATING CODES FOR OTHER SPORTS, REFER TO YOUR ALL SPORT MANUAL. ANY CODE LISTED FOR BB-18 WILL WORK ON THIS DISPLAY.

### PART SPEC



NOTE: REFER TO THE MANUAL FOR WARRANTY AND COMPONENT REPLACEMENT PROCEDURES.

NOTE: TO ACCESS LED DRIVER, REMOVE TWO SCREWS HOLDING ACCESS DOOR CLOSED. THESE SCREWS ARE LOCATED ON BOTTOM OF ACCESS DOOR. SECURE OPEN.

### REPLACEMENT PART NUMBERS

PART NO.	DESCRIPTION
0A-1152-0090	BB-2021, SCOREBOARD
0P-1150-0017	LED DRIVER
T-1066	TRANSFORMER, 16V SEC.
DS-1040	HORN, 120VAC
0A-1171-4004	HARNES; 7 SEG DIGIT
0A-1171-4033	HARNES; ARROWS
0A-1171-4036	HARNES; ONES DIGITS
ED-10718	MANUAL; LED SCOREBOARD
0A-1150-0032	DIGIT; 13" RED 7-SEG
0A-1150-0033	DIGIT; 13" GRN 7-SEG
0A-1150-0035	DIGIT; 13" RED 9-SEG
W-1236	CABLE, A/S TO J BOX
0A-1065-0026	CABLE, 25 PIN TO 16 PIN
0A-1166-0001	A/S 4100
0A-1010-0026	J BOX, 16 PIN
0A-1009-0038	J BOX, 1/4 PHONO

NOTE: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.

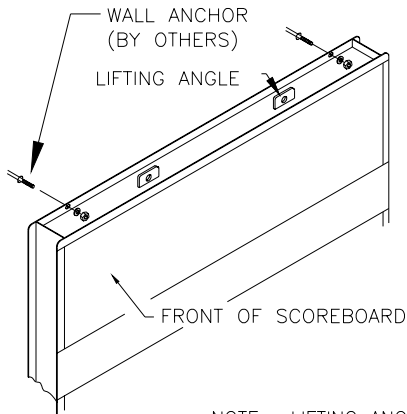
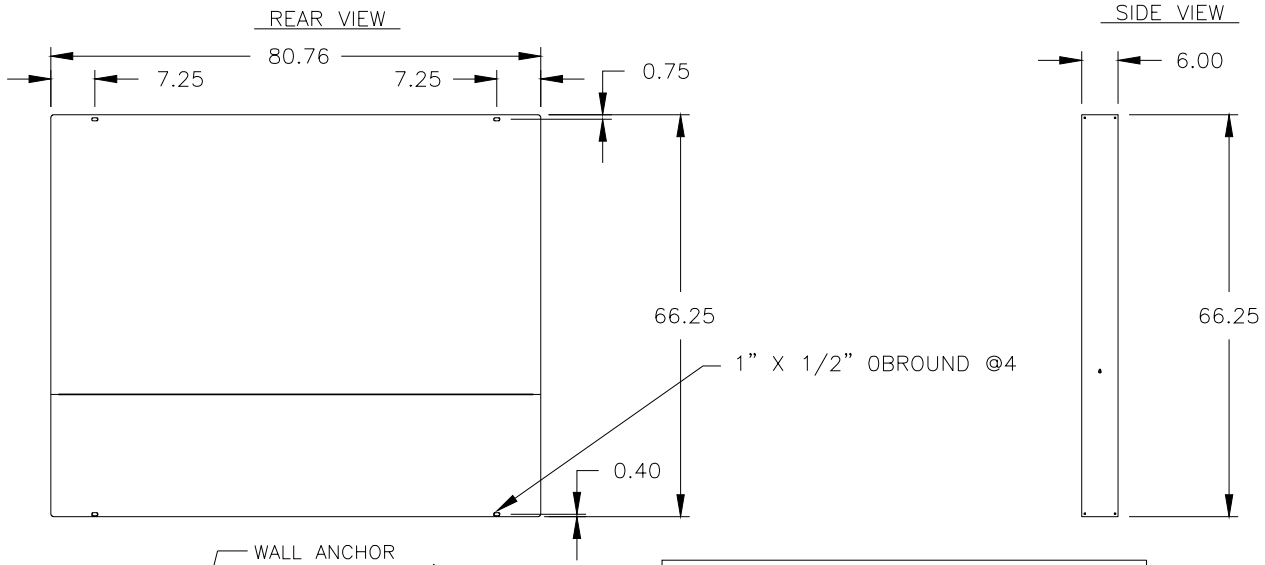
REV.	DATE	DESCRIPTION	BY	APPR.
3	03 JAN 00	CHANGED ADDRESS LABELS ON ARROWS	JNILSE	
2	16 JUNE 98	UPDATED TEXT FOR CLARITY	CJB	
1	6 FEB 98	CHANGED CABLE SPEC.	HBB	

<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>	
PROJ: LED 2 STRING SCOREBOARD	
TITLE: ELECTRICAL AND SIGNAL SPEC, BB-2021-9	
DES. BY:	DRAWN BY: HBB
DATE: 26 JAN 98	
REVISION	APPR. BY:
SCALE: 1=30	1152-E10A-90792

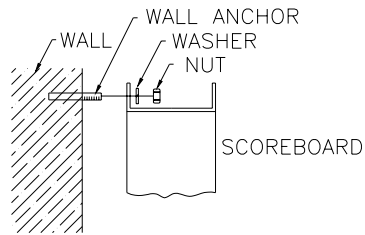
# BB-2025 SCOREBOARD

MOUNTING SPEC

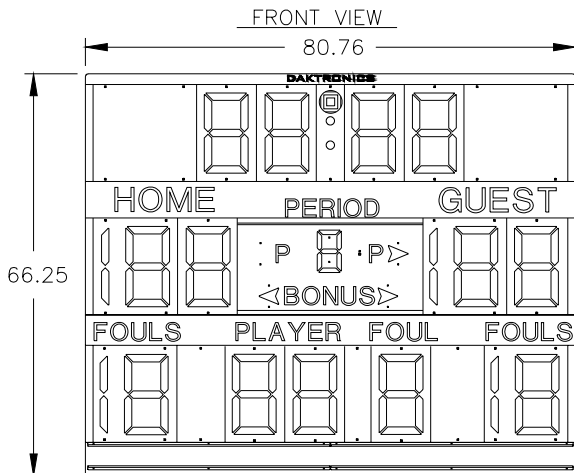
MECHANICAL SPEC



ATTACH THE SCOREBOARD TO THE WALL AT ALL MOUNTING LOCATIONS INDICATED. USE THE APPROPRIATE ANCHORS FOR THE TYPE OF WALL.



NOTE: LIFTING ANGLES WERE DESIGNED ONLY FOR TEMPORARY USE WHILE LIFTING DISPLAY IN PLACE. DO NOT USE LIFTING ANGLES TO SECURE DISPLAY IN PLACE.



**DISPLAY SPEC:**

- SHIPPING WEIGHT: 160 lbs
- MOUNTING WEIGHT: 110 lbs
- DIMENSIONS: 80.76"x 66.25"x 6.00"

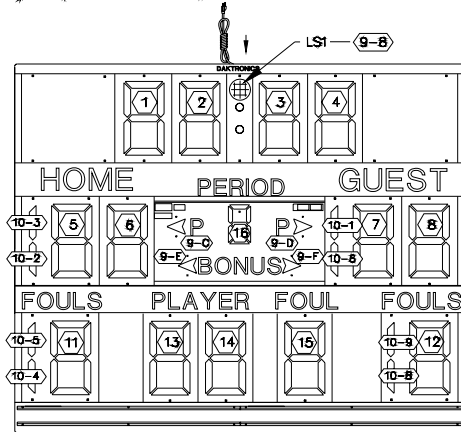
REV.	DATE	DESCRIPTION	BY	APPR.
4	10 JUL 00	CHANGED MOUNTING WEIGHT FROM 100 TO 110.	EPR	
3	06MAR98	REMOVED FRAME OUTLINE AND RIVET HOLES FROM BACK VIEW.	JML	
2	29 JAN 98	ADDED CAPTION RAILS.	HBB	
1	26 JAN 98	CHANGED DRAWING TITLE AND SPLIT ELECTRICAL AND MECHANICAL SPEC SHEETS INTO TWO DRAWINGS.	HBB	

<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>	
PROJ: LED 2 STRING SCOREBOARD	
TITLE: MECHANICAL SPEC, BB-2025	
DES. BY:	DRAWN BY: HBB
	DATE: 06 JAN 98
<b>REVISION</b>	APPR. BY:
	SCALE: 1=30
<b>1152-E10A-99481</b>	

# BB-2025 SCOREBOARD

## ELECTRICAL/SIGNAL SPEC

### DIGIT, SIGNAL AND POWER SPEC



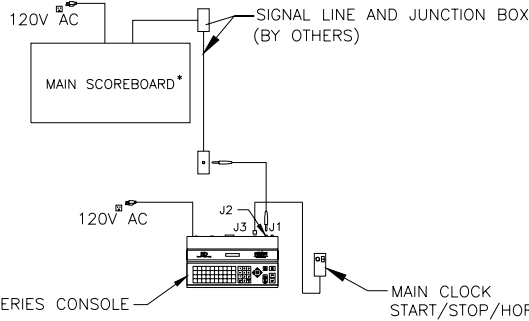
NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES WHICH CONNECTOR IS WIRED TO THAT DIGIT.

NOTE: ARROW INDICATES SIGNAL TERMINATION POINT ON DISPLAY. REFER TO DRAWING BELOW OR ALLSPORT MANUAL FOR ADDITIONAL WIRING DIAGRAMS OF DISPLAY. USE MINIMUM OF 24AWG, SHIELDED, TWO CONDUCTOR CABLE FOR SIGNAL TERMINATION.

#### POWER SPEC:

- 120VAC & 230VAC MODULES AVAILABLE.
- 15 AMP CIRCUIT REQUIRED.
- 100 WATTS MAXIMUM.
- PRODUCT SAFETY APPROVAL:  
ETL LISTED, TESTED TO CSA STANDARDS,  
AND CE LABELED FOR INDOOR USE.

#### TYPICAL, SINGLE DISPLAY SETUP:



NOTE: VOLLEYBALL AND WRESTLING CAPTION ARE AVAILABLE AND SLIP EASILY IN/OUT OF RAIL MOUNTED ON DISPLAY.

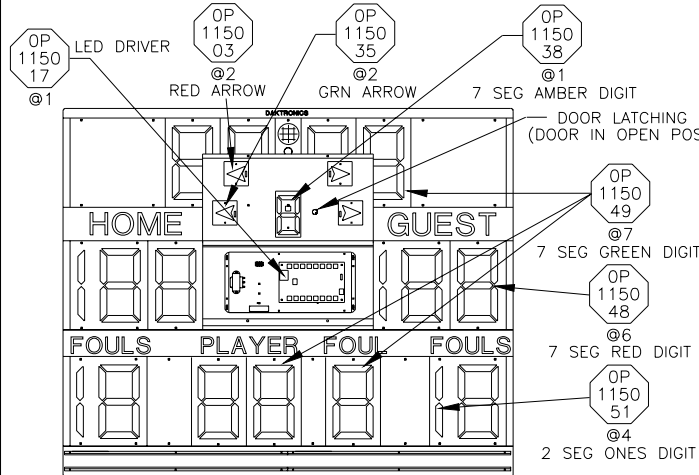


NOTE: OPERATING CODE FOR A BB-2025-9, BASKETBALL DISPLAY IS CODE 03.

NOTE: FOR ADDITIONAL OPERATING CODES FOR OTHER SPORTS, REFER TO YOUR ALL SPORT MANUAL ANY CODE LISTED FOR BB-18 WILL WORK ON THIS DISPLAY.

ALL SPORT 4000 SERIES CONSOLE ————— MAIN CLOCK START/STOP/HORN SWITCH

### PART SPEC



NOTE: REFER TO THE MANUAL FOR WARRANTY AND COMPONENT REPLACEMENT PROCEDURES.

NOTE: TO ACCESS LED DRIVER, REMOVE TWO SCREWS HOLDING ACCESS DOOR CLOSED. THESE SCREWS ARE LOCATED ON BOTTOM OF ACCESS DOOR. SECURE OPEN.

#### REPLACEMENT PART NUMBERS

PART NO.	DESCRIPTION
0A-1152-0127	BB-2025, SCOREBOARD
OP-1150-0017	LED DRIVER
T-1066	TRANSFORMER, 16V SEC.
DS-1040	HORN, 120VAC
0A-1171-4004	HARNESS; 7 SEG DIGIT
0A-1171-4033	HARNESS; ARROWS
0A-1171-4036	HARNESS; ONES DIGITS
ED-10718	MANUAL; LED SCOREBOARD
0A-1150-0032	DIGIT; 13" RED 7-SEG
0A-1150-0033	DIGIT; 13" GRN 7-SEG
0A-1150-0035	DIGIT; 13" RED 9-SEG
W-1236	CABLE, A/S TO J BOX
0A-1065-0026	CABLE, 25 PIN TO 16 PIN
0A-1166-0001	A/S 4100
0A-1010-0026	J BOX, 16 PIN
0A-1009-0038	J BOX, 1/4 PHONO

NOTE: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.

REV.	DATE	DESCRIPTION	BY	APPR.
4	07 OCT 98	CHANGED DRIVER ASSIGNMENT ON INDICATORS	DDL	
3	16 JUNE 98	UPDATED TEXT FOR CLARITY	CJB	
2	6 FEB 98	REVISED CABLE SPEC.	HBB	
1	29 JAN 98	ADDED CAPTIONS AND CAPTION RAILS TO DRAWING.	HBB	

DAKTRONICS, INC. BROOKINGS, SD 57006

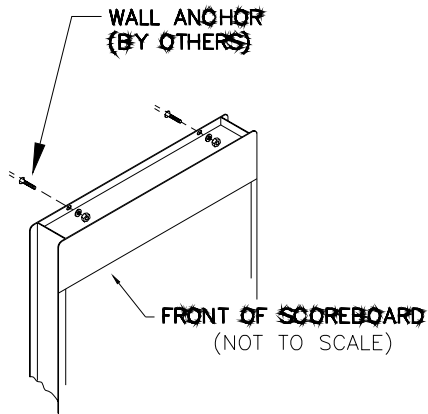
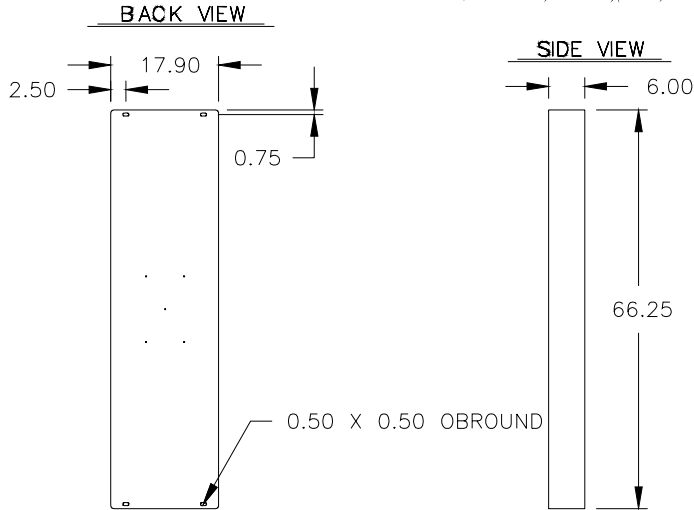
PROJ: LED 2 STRING SCOREBOARD	
TITLE: ELECTRICAL AND SIGNAL SPEC, BB-2025-9	
DES. BY:	DRAWN BY: HBB
DATE: 26 JAN 98	
REVISION	APPR. BY:
SCALE: 1=30	1152-E10A-90683



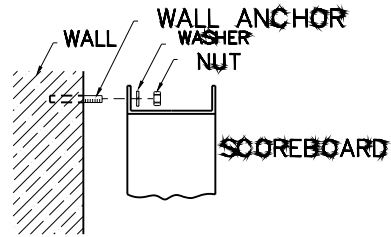
FP-15-9 SCOREBOARD

MOUNTING SPEC

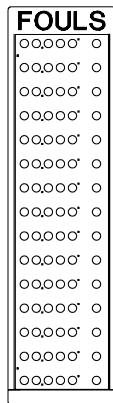
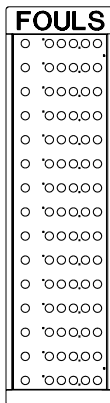
MECHANICAL SPEC



ATTACH THE SCOREBOARD TO THE WALL AT ALL MOUNTING LOCATIONS INDICATED. USE THE APPROPRIATE ANCHORS FOR THE TYPE OF WALL.



FRONT VIEW



DISPLAY SPEC:

- SHIPPING WEIGHT: 100 lbs
- MOUNTING WEIGHT: 55 lbs
- DIMENSIONS: 17.90" x 66.25" x 6"

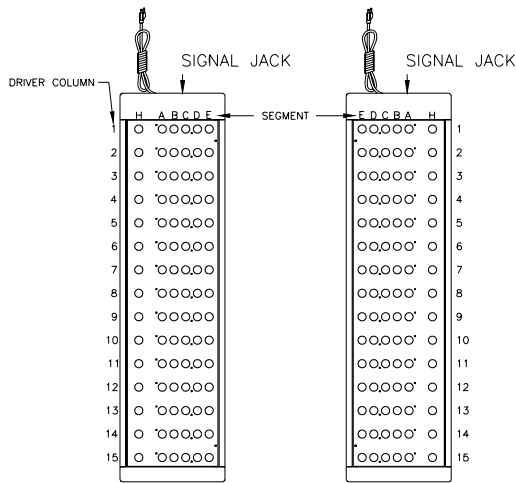
DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED 2 STRING SCOREBOARD			
TITLE: MECHANICAL SPEC, FP-15-9			
DES. BY:	DRAWN BY: DDELEEUW	DATE: 17FEB98	
REVISION	APPR. BY:	1152-E10A-58619	
	SCALE: 1=30		

REV.	DATE	DESCRIPTION	BY	APPR.

# FP-15-9 FOUL INDICATOR

## ELECTRICAL/SIGNAL SPEC

### DIGIT, SIGNAL AND POWER SPEC



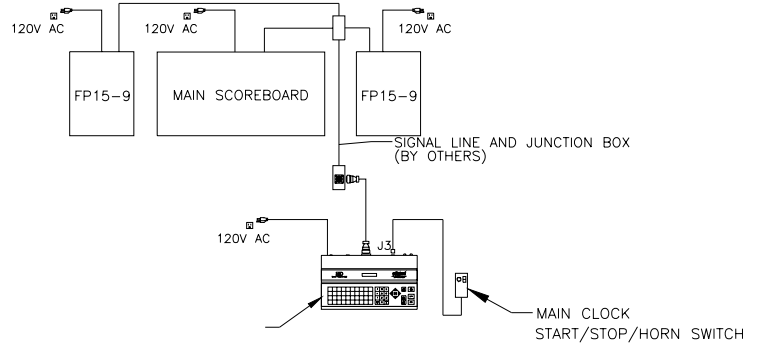
NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES WHICH DRIVER CONNECTOR IS WIRED TO THAT DIGIT.

NOTE: ARROW INDICATES SIGNAL TERMINATION POINT ON DISPLAY. REFER TO DRAWING BELOW OR ALLSPORT MANUAL FOR ADDITIONAL WIRING DIAGRAMS OF DISPLAY. USE 24AWG MINIMUM, SHIELDED, TWO CONDUCTOR CABLE FOR SIGNAL TERMINATION.

### POWER SPEC:

- 120VAC & 230VAC MODELS AVAILABLE.
- 15 AMP CIRCUIT REQUIRED.
- 100 WATTS MAXIMUM.
- PRODUCT SAFETY APPROVAL:  
ETL LISTED, TESTED TO CSA STANDARDS,  
AND CE LABELED FOR INDOOR USE.

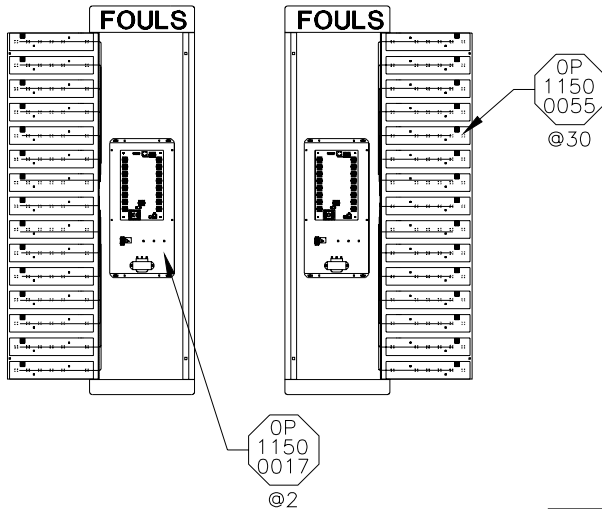
### TYPICAL, SINGLE DISPLAY SETUP:



ALL SPORT 4000 SERIES CONSOLE

### PART SPEC

NOTE: UNIT SHOWN WITH DOORS OPEN



NOTE: REFER TO THE MANUAL FOR WARRANTY AND COMPONENT REPLACEMENT PROCEDURES.

NOTE: TO ACCESS LED DRIVER, SWING OPEN DOORS

### REPLACEMENT PART NUMBERS

PART NO.	DESCRIPTION
0A-1152-0146	FP-15-9, SCOREBOARD
OP-1150-0017	LED DRIVER
T-1066	TRANSFORMER, 16V SEC.
0A-1171-4003	HARNES; 7 SEG DIGIT
OP-1150-0055	LED INDICATORS
W-1236	CABLE, A/S TO J BOX
0A-1065-0026	CABLE, 25 PIN TO 16 PIN
0A-1166-0001	A/S 4100
0A-1010-0026	J BOX, 16 PIN
0A-1009-0038	J BOX, 1/4 PHONO

NOTE: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED 2 STRING SCOREBOARD

TITLE: ELECTRICAL AND SIGNAL SPEC, FP-15-9

DES. BY: DRAWN BY: DDELEEUW DATE: 12FEB98

REVISION

APPR. BY:

SCALE: 1=30

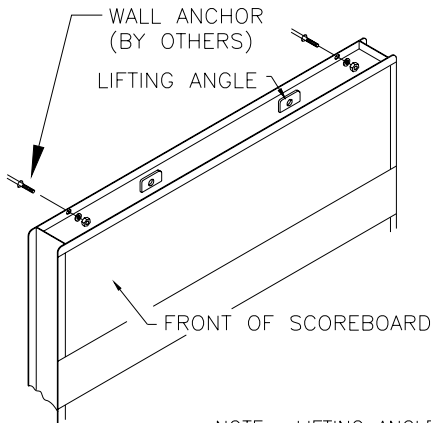
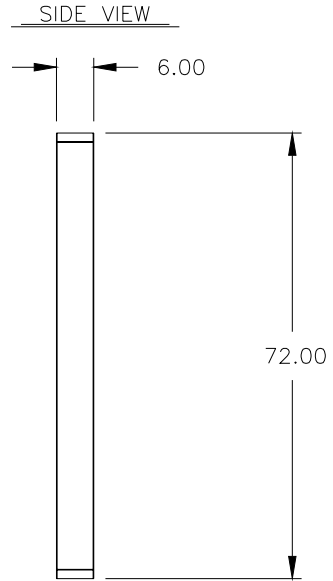
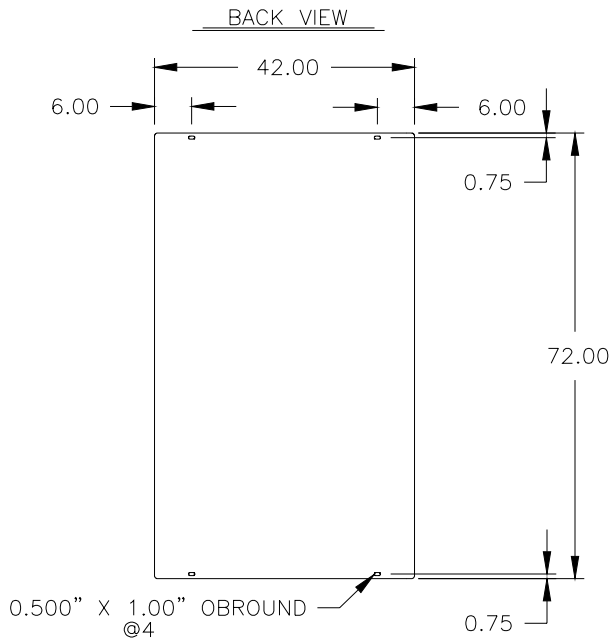
1152-E10A-61870

REV.	DATE	DESCRIPTION	BY	APPR.

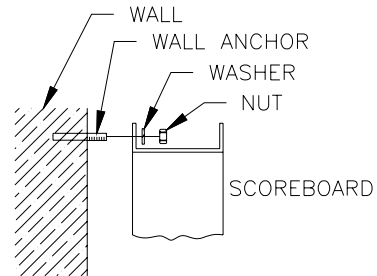
# FP-257-9 SCOREBOARD

## MECHANICAL SPEC

### MOUNTING SPEC

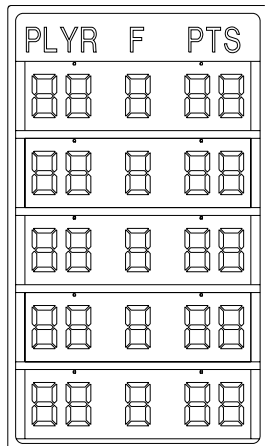


ATTACH THE SCOREBOARD TO THE WALL AT ALL MOUNTING LOCATIONS INDICATED. USE THE APPROPRIATE ANCHORS FOR THE TYPE OF WALL.



NOTE: LIFTING ANGLES WERE DESIGNED ONLY FOR TEMPORARY USE WHILE LIFTING DISPLAY IN PLACE. DO NOT USE LIFTING ANGLES TO SECURE DISPLAY IN PLACE.

### FRONT VIEW



### DISPLAY SPEC:

- SHIPPING WEIGHT: 120 lbs
- MOUNTING WEIGHT: 70 lbs
- DIMENSIONS: 72"x 42"x 6"

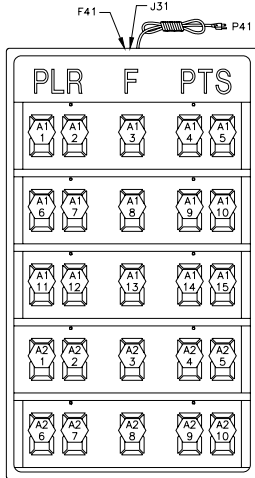
1	13 MAR 98	ADD NOTES TO BACK VIEW.	MWJ	HBONER
REV.	DATE	DESCRIPTION	BY	APPR.

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: STANDARD LED SCOREBOARDS	
TITLE: MECHANICAL SPEC, FP-257-9	
DES. BY:	DRAWN BY: JLEAR
DATE: 23FEB98	
REVISION	APPR. BY:
SCALE: 1=30	1152-E10A-56470

# FP-257-9 SCOREBOARD

## ELECTRICAL/SIGNAL SPEC

### DIGIT, SIGNAL AND POWER SPEC



NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES THE DIGIT DESIGNATION IN RELATION TO THE LED DRIVER.

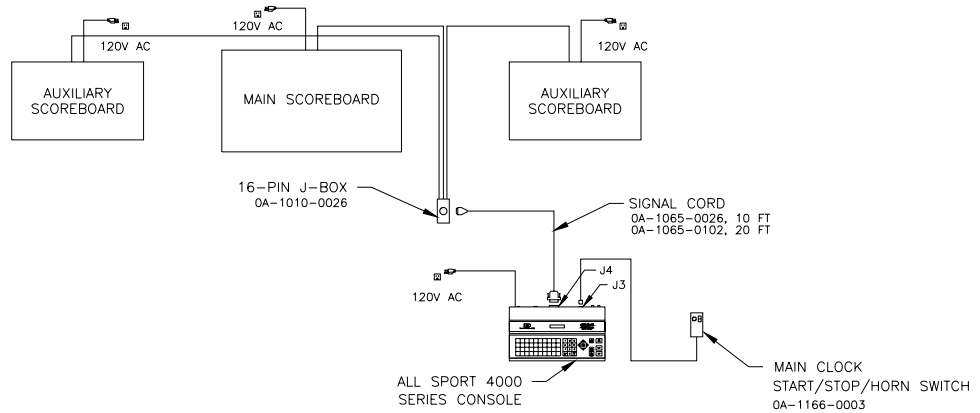
NOTE: REFER TO DRAWING BELOW OR ALLSPORT MANUAL FOR ADDITIONAL WIRING DIAGRAMS OF DISPLAY. USE MINIMUM OF 24AWG, SHIELDED, TWO CONDUCTOR CABLE FOR SIGNAL TERMINATION.

#### POWER SPEC:

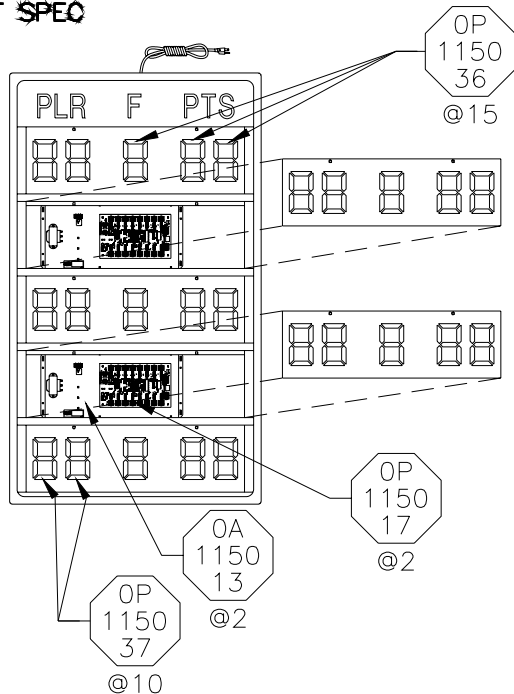
- 120VAC & 230VAC MODELS AVAILABLE.
- 15 AMP CIRCUIT REQUIRED.
- 100 WATTS MAXIMUM.
- PRODUCT SAFETY APPROVAL:  
ETL LISTED, TESTED TO CSA STANDARDS,  
AND CE LABELED FOR INDOOR USE.

NOTE: FOR OPERATING CODES REFER TO YOUR ALL SPORT MANUAL.

#### TYPICAL, SINGLE DISPLAY SETUP:



### PART SPEC



NOTE: REFER TO THE MANUAL FOR WARRANTY AND COMPONENT REPLACEMENT PROCEDURES.

NOTE: TO ACCESS LED DRIVERS, REMOVE TWO SCREWS HOLDING ACCESS DOORS CLOSED. THESE SCREWS ARE LOCATED ON TOP OF ACCESS DOORS. SECURE OPEN.

#### REPLACEMENT PART NUMBERS

PART NO.	DESCRIPTION
0A-1152-0118	BB-257-9, SCOREBOARD
OP-1150-0017	LED DRIVER
T-1066	TRANSFORMER, 16V SEC.
0A-1171-4003	CABLE; 9 PIN-9 PLUG 4'
ED-10718	MANUAL; LED SCOREBOARD
0A-1150-0036	DIGIT; 7" RED 7 SEG LED
0A-1150-0037	DIGIT; 7" GRN 7 SEG LED
0A-1009-0451	CABLE, SIGNAL, BB-1813
W-1236	CABLE, A/S TO J BOX
0A-1065-0026	CABLE, 25 PIN TO 16 PIN
0A-1166-0001	A/S 4100
0A-1010-0026	J BOX, 16 PIN
0A-1009-0038	J BOX, 1/4 PHONO

NOTE: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: STANDARD LED SCOREBOARDS	
TITLE: ELECTRICAL & SIGNAL SPEC, FP-257-9	
DES. BY:	DATE: 23FEB98
REVISION	APPR. BY:
SCALE: 1=30	1152-E10A-56599

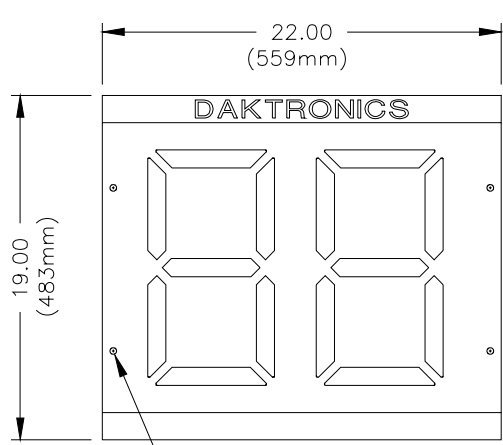
01	19 SEP 01	CHANGED TITLE TO ELECTRICAL & SIGNAL SPEC, FP-257-9	ALG	
REV.	DATE	DESCRIPTION	BY	APPR.

# Appendix C: Shot Clock

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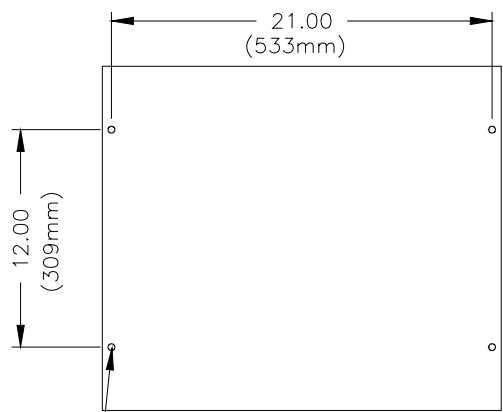
<b>Reference Drawings:</b>	Shot Clock, BB-2014-9 .....	<b>Drawing A-91231</b>
	Shot Clock, BB-2014 and 2015-9 .....	<b>Drawing A-87466</b>
	Shot Clock, BB-2015-9 .....	<b>Drawing A-91232</b>
	Shot Clock, BB 2023-9 .....	<b>Drawing A-95947</b>
	Shot Clock, BB 2023 and 2026-9 .....	<b>Drawing A-99419</b>
	Shot Clock, BB 2026-9 .....	<b>Drawing A-99436</b>
	Shot Clock, Mechanical Spec, BB-2029-9 .....	<b>Drawing A-41022</b>
	Shot Clock, Electrical/Signal, BB-2029-9 .....	<b>Drawing A-41053</b>
	Mounting Plate, Three Sided .....	<b>Drawing A-97631</b>
	Shot Clock on Portable Backstop .....	<b>Drawing A-98293</b>
	Backstop Mounting Suggestions .....	<b>Drawing A-91230</b>





**FRONT VIEW**  
ALL MODELS  
(MODEL BB-2014-1 USES DOT STYLE DIGIT, INSTEAD OF BAR STYLE DIGIT SHOWN.)

REMOVE THESE FOUR SCREWS TO ACCESS COMPONENTS INSIDE THE DISPLAY.

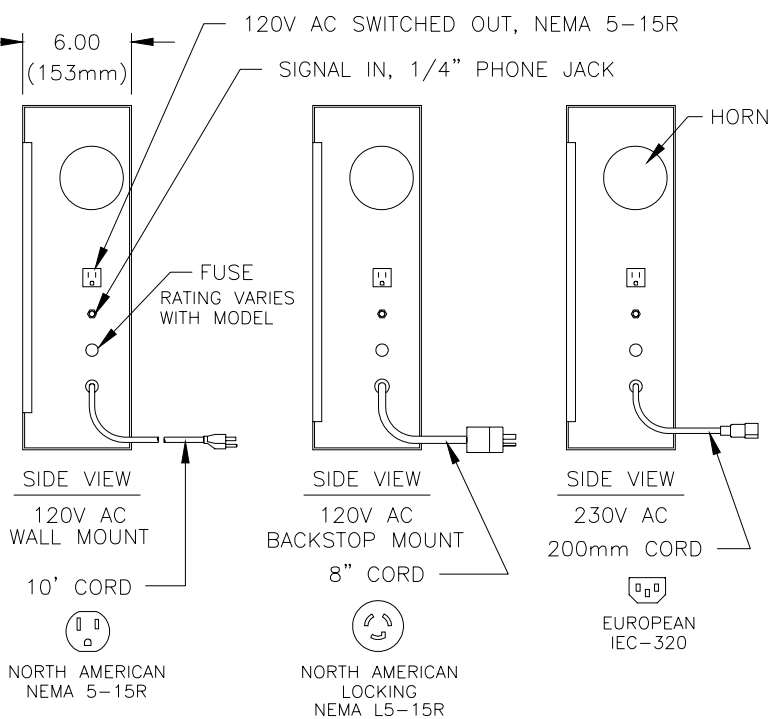


**REAR VIEW**

MOUNTING HOLES  
3/8" Ø TYP. @ 4  
(9.5mm) Ø

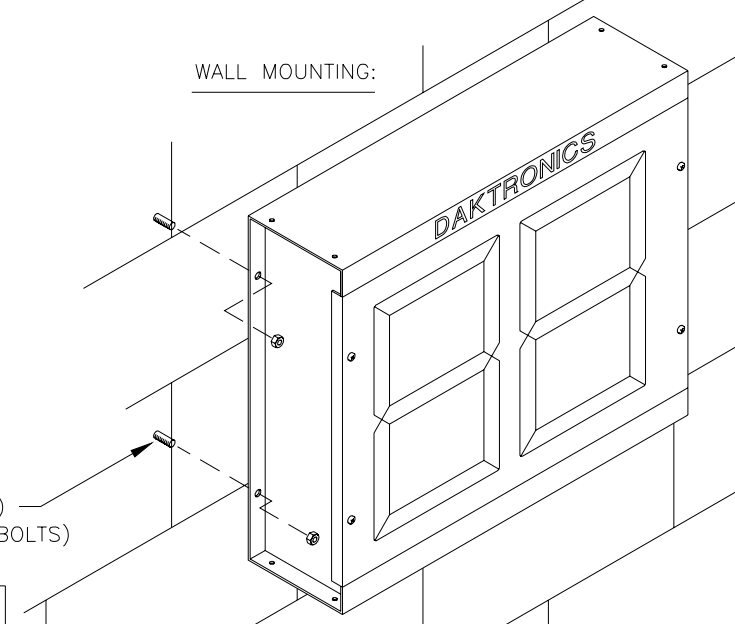
MOUNTING HARDWARE IS NOT PROVIDED. SEE DRAWING NO. 1009-R10A-91230 FOR SUGGESTIONS ON MOUNTING TO CEILING-SUSPENDED BACKSTOPS. FOR PORTABLE BACKSTOPS, CONTACT THE BACKSTOP MANUFACTURER FOR MOUNTING HARDWARE.

MOUNTING BOLTS (NOT PROVIDED)  
USE 1/4" TO 3/8" (7mm TO 9mm) BOLTS



MODEL NUMBERS AND SPECIFICATIONS					
MODEL NUMBER	ASSEMBLY NUMBER	DIGIT TYPE	VOLTS	MAX WATTS	APPROX. WEIGHT
BB-2014-1	0A-1009-0685	INCAND DOT	120	100	20 LBS (9 KG)
BB-2014-2	0A-1009-0649	INCAND BAR	120	100	
BB-2014-4	0A-1009-0651	INCAND BAR	230	100	
BB-2014-6	0A-1152-0072	LED BAR	120	20	15 LBS (7 KG)
BB-2014-8	0A-1152-0074	LED BAR	230	20	
BB-2014-9	0A-1152-0132	LED BAR	120	20	
BB-2014-10	0A-1152-0133	LED BAR	230	20	

WALL MOUNTING:



REV.	DATE	DESCRIPTION	BY	APPR.
4	10FEB98	ADDED NEW MODELS TO THE TABLE	DDL	
3	02SEP97	EDITED DIMENSION TEXT.	MWJ	
2	19 JUL 97	ADDED MODEL BB-2014-1.	AVB	AVB
1	19JUN97	CHANGED MODEL NUMBERS	MWJ	

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: \_\_\_\_\_

TITLE: SHOP DRAWING, SHOT CLOCK DISPLAY

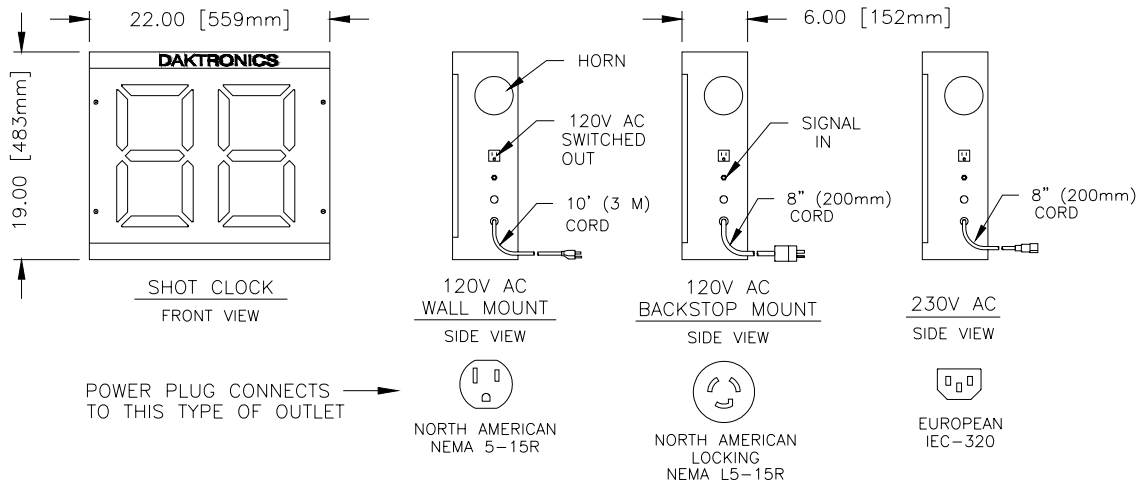
DES. BY: AVB DRAWN BY: A VANBEMMEL DATE: 13 MAR 97

REVISION APPR. BY: \_\_\_\_\_

SCALE: 1=10

1009-R08A-91231

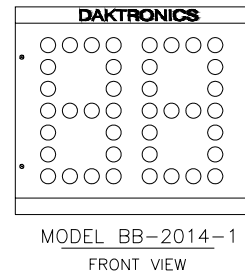
2-DIGIT SHOT CLOCK DISPLAYS:



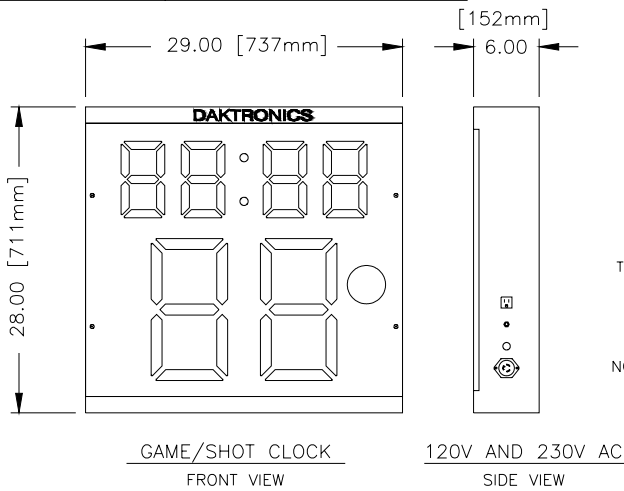
**2-DIGIT SHOT CLOCK DISPLAY  
MODEL NUMBERS AND DESCRIPTIONS**

MODEL NUMBER	ASSEMBLY NUMBER	DIGIT TYPE	VOLTS	MAX WATTS	APPROX. WEIGHT
BB-2014-1	0A-1009-0685	INCAND DOT	120	100	20 LBS (9 KG)
BB-2014-2	0A-1009-0649	INCAND BAR	120	100	
BB-2014-4	0A-1009-0651	INCAND BAR	230	100	
BB-2014-9	0A-1152-0132	LED BAR	120	20	15 LBS
BB-2014-10	0A-1152-0133	LED BAR	230	20	(7 KG)

2-DIGIT SHOT CLOCK DISPLAYS USE 13" DIGITS. STANDARD DIGIT COLOR IS RED.



6-DIGIT GAME/SHOT CLOCK DISPLAYS:



**6-DIGIT GAME/SHOT CLOCK DISPLAY  
MODEL NUMBERS AND DESCRIPTIONS**

MODEL NO.	ASSEMBLY NUMBER	DIGIT TYPE	VOLTS	MAX WATTS	APPROX. WEIGHT
BB-2015-2	0A-1009-0653	INCAND	120	200	40 LBS
BB-2015-4	0A-1009-0654	INCAND	230	200	(18 KG)
BB-2015-9	0A-1152-0119	LED	120	40	35 LBS
BB-2015-10	0A-1152-0120	LED	230	40	(16 KG)

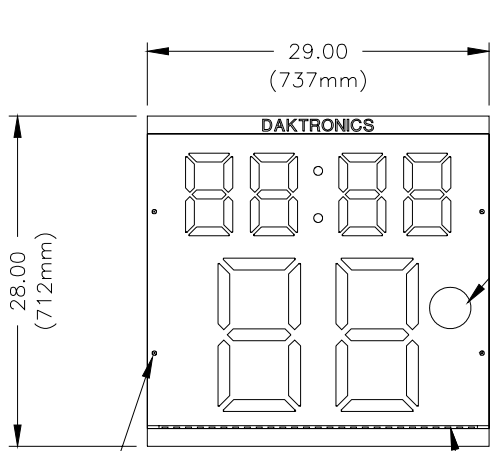
POWER INLET CONNECTS TO THIS CORD CAP:



GAME/SHOT CLOCK DISPLAYS USE 7" DIGITS FOR GAME CLOCK, AND 13" DIGITS FOR SHOT CLOCK. STANDARD LIGHTING COLORS ARE: INCANDESCENT: BRONZE FOR GAME CLOCK LED: AMBER FOR GAME CLOCK SHOT CLOCK DIGITS ARE RED.

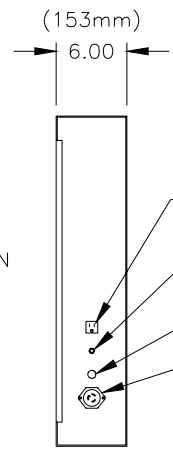
<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>					
2	10FEB98	ADDED NEW MODELS TO THE TABLE	DDL	PROJ:	
1	19 JUL 97	ADDED MODEL BB-2014-1.	AVB	TITLE: MODEL DESCRIPTIONS, SHOT CLOCK DISPLAYS	
REV.	DATE	DESCRIPTION	BY	DES. BY: AVB	DRAWN BY: A VANBEMMEL DATE: 10 MAR 97
			APPR.	REVISION	APPR. BY: 1009-R08A-87466
				SCALE: 1=15	





REMOVE THESE FOUR SCREWS TO ACCESS COMPONENTS INSIDE THE DISPLAY.

GAME/SHOT CLOCK FRONT VIEW



120V AND 230V AC SIDE VIEW

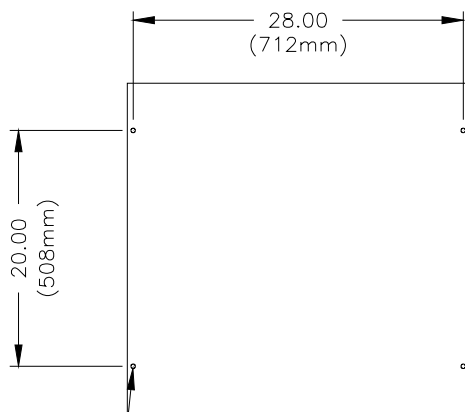
- 120V AC SWITCHED OUT, NEMA 5-15R
- SIGNAL IN, 1/4" PHONE JACK
- FUSE, RATING VARIES BY MODEL
- POWER IN, 120V AC OR 230V AC, DEPENDING ON MODEL

POWER INLET CONNECTS TO THIS CORD CAP:



NORTH AMERICAN LOCKING NEMA L5-15R

DISPLAY FACE PANEL IS HINGED AT THE BOTTOM



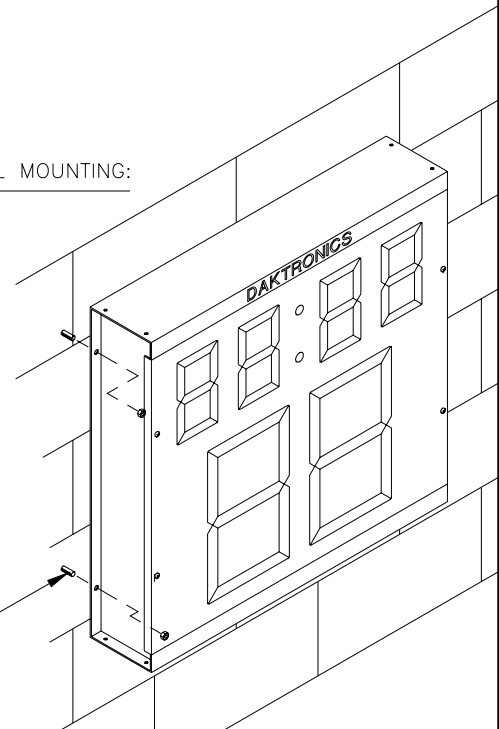
REAR VIEW

MOUNTING HOLES 3/8" Ø TYP. @ 4 (9.5mm) Ø

MOUNTING HARDWARE IS NOT PROVIDED. SEE DRAWING NO. 1009-R10A-91230 FOR SUGGESTIONS ON MOUNTING TO CEILING-SUSPENDED BACKSTOPS. FOR PORTABLE BACKSTOPS, CONTACT THE BACKSTOP MANUFACTURER FOR MOUNTING HARDWARE.

MODEL NUMBERS AND DESCRIPTIONS					
MODEL NO.	ASSEMBLY NUMBER	DIGIT TYPE	VOLTS	MAX WATTS	APPROX. WEIGHT
BB-2015-2	0A-1009-0653	INCAND	120	200	40 LB
BB-2015-4	0A-1009-0654	INCAND	230	200	(18 KG)
BB-2015-9	0A-1152-0119	LED	120	40	35 LB
BB-2015-10	0A-1152-0120	LED	230	40	(16 KG)

WALL MOUNTING:



MOUNTING BOLTS (NOT PROVIDED) USE 1/4" TO 3/8" (7mm TO 9mm) BOLTS

REV.	DATE	DESCRIPTION	BY	APPR.
3	10FEB98	ADDED NEW MODELS TO THE TABLE	DDL	
2	02SEP97	ADDED DIMENSION TEXT.	MWJ	
1	20JUN97	CHANGED MODEL NUMBERS	MWJ	

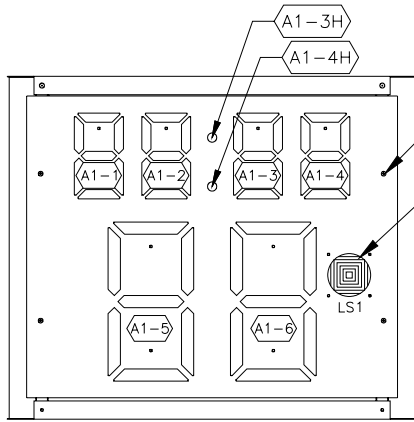
**DAKTRONICS, INC. BROOKINGS, SD 57006**

PROJ: \_\_\_\_\_

TITLE: **SHOP DRAWING, GAME/SHOT CLOCK DISPLAY**

DES. BY: **AVB**      DRAWN BY: **A VANBEMMEL**      DATE: **13 MAR 97**

REVISION	APPR. BY:	1009-R08A-91232
	SCALE: <b>1=15</b>	



**FRONT VIEW**

(FACE A)

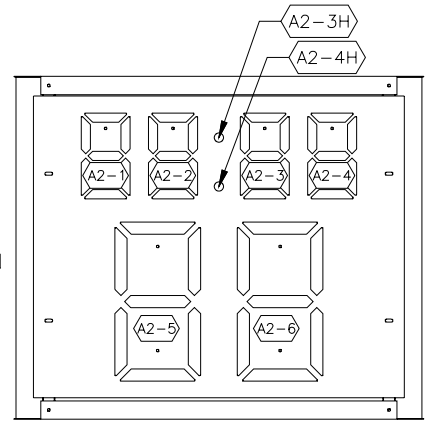
REMOVE THESE FOUR  
SCREWS FOR ACCESS.

A1-7E AND A1-7F

SEGMENT DESIGNATION

A1-3H

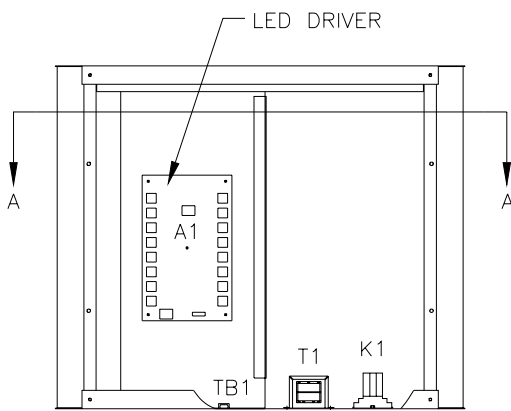
CONNECTOR NUMBER  
DRIVER NUMBER



**FACE B OR C**

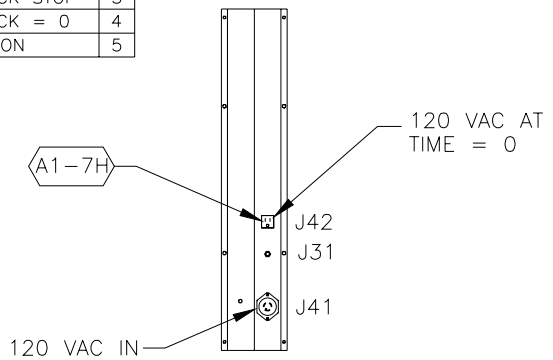
**HORN AND INDICATOR SEGMENTS**

SEGMENT	PIN NO.	P7 CONNECTIONS	
		FUNCTION	TB1 POS.
E	5	GAME CLOCK HORN	1
F	4	SHOT CLOCK HORN	2
G	9	GAME CLOCK STOP	3
H	8	GAME CLOCK = 0	4
	7	28V COMMON	5

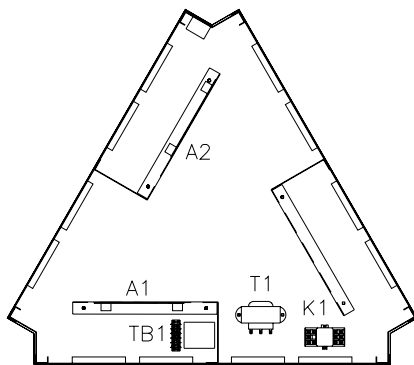


**FRONT VIEW**

WITH FACE PANEL REMOVED



**REAR VIEW**



**SECTION VIEW A-A**

**REPLACEMENT PART NUMBERS**

REF NO.	PART NO.	DESCRIPTION
A1	0P-1150-0126	LED DRIVER
TB1	TB-1007	5-POS TERMINAL BLOCK
K1	K-1015	RELAY, DPDT
T1	T-1066	TRANSFORMER, 16V SEC.
LS1	DS-1040	HORN, 120VAC
DIGITS 1-4	0P-1150-0082	7" AMBER 7-SEG LED BAR
DIGITS 5&6	0P-1150-0191	13" RED 7-SEG LED BAR
COLON	0P-1150-0093	COLON, 7" AMBER

FOR THE STANDARD DISPLAY, LS1 IS WIRED TO THE GAME CLOCK AND SHOT CLOCK HORN SEGMENTS.

K1 IS WIRED TO THE TIME=0 SEGMENT.  
K1 SWITCHES 120V TO J42.

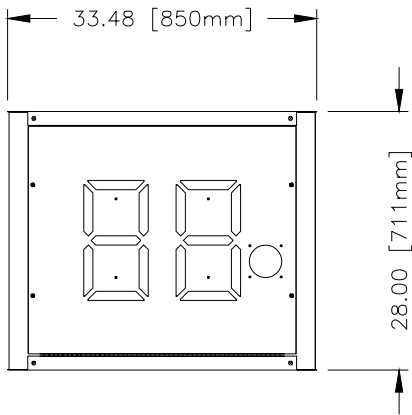
TO ENABLE OTHER SEGMENTS, OR TO MAKE OTHER CHANGES, RECONNECT AT TB1.

DAKTRONICS, INC. BROOKINGS, SD 57006

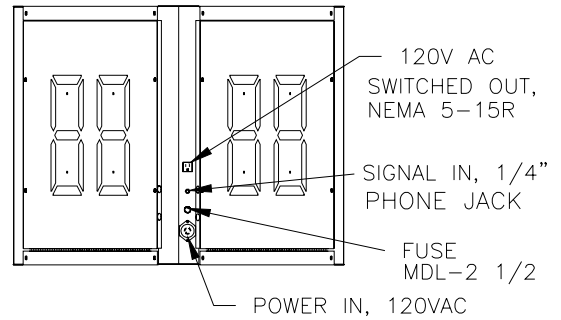
REV.	DATE	DESCRIPTION	BY	APPR.
02	31 AUG 01	UPDATED PART NUMBERS FOR DIGITS, DRIVER AND COLON.	AVB	
1	20 NOV 97	CORRECTED MODEL NUMBER IN TABLE	AVB	AVB

PROJ: LED BASKETBALL SCOREBOARDS	
TITLE: COMPONENT LOCATIONS, BB-2023-9 GAME/SHOT CLOCK	
DES. BY: AVB	DRAWN BY: MBESSLER
DATE: 25AUG97	
REVISION	APPR. BY:
SCALE: 1=15	1152-R04A-95947

2-DIGIT, 3-SIDED SHOT CLOCK DISPLAYS:  
BB-2026



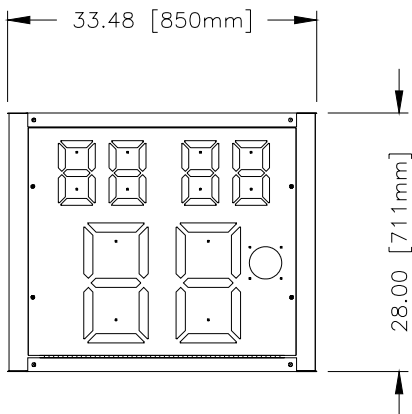
FRONT VIEW



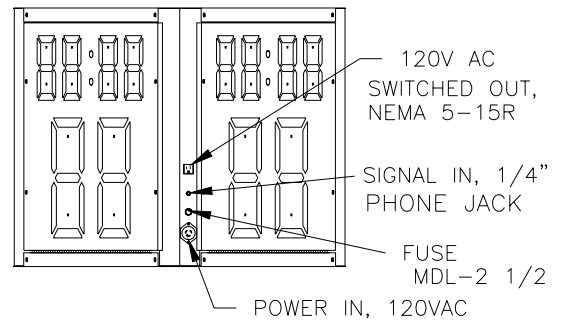
REAR VIEW

2-DIGIT SHOT CLOCK DISPLAYS  
USE 13" DIGITS.  
STANDARD DIGIT COLOR IS RED.

6-DIGIT, 3-SIDED GAME/SHOT CLOCK DISPLAYS:  
BB-2023



FRONT VIEW



REAR VIEW

GAME/SHOT CLOCK DISPLAYS  
USE 7" DIGITS FOR THE GAME CLOCK,  
AND 13" DIGITS FOR THE SHOT CLOCK.

STANDARD LIGHTING COLORS ARE:  
AMBER FOR GAME CLOCK  
RED FOR SHOT CLOCK

POWER INLET  
CONNECTS TO  
THIS CORD CAP:



NORTH AMERICAN  
LOCKING  
NEMA L5-15R

3-SIDED SHOT CLOCK DISPLAY MODEL NUMBERS AND DESCRIPTIONS						
MODEL NUMBER	ASSEMBLY NUMBER	DIGIT TYPE	VOLTS	MAX WATTS	APPROX. WEIGHT	SHOT CLOCK TYPE
BB-2023-9	0A-1152-0094	LED	120	100	60 LBS. (27 KG)	6-DIGIT 3-SIDED GAME/SHOT CLOCK
BB-2026-9	0A-1152-0129	LED	120	100	60 LBS. (27 KG)	2-DIGIT, 3-SIDED SHOT CLOCK

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED BASKETBALL SCOREBOARDS

TITLE: MODEL DESCRIPTIONS, 3-SIDED SHOT CLOCK DISPLAYS

DES. BY: AVB

DRAWN BY: DDELEEUW

DATE: 29DEC97

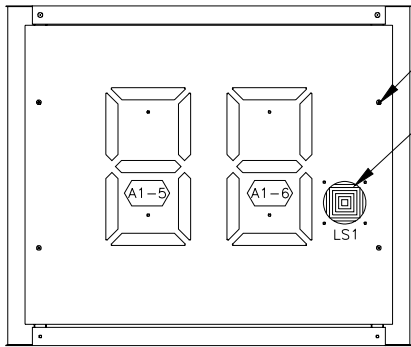
REVISION

APPR. BY:

SCALE: 1=20

1152-R08A-99419

REV.	DATE	DESCRIPTION	BY	APPR.



**FRONT VIEW**

(FACE A)

REMOVE THESE FOUR SCREWS FOR ACCESS.

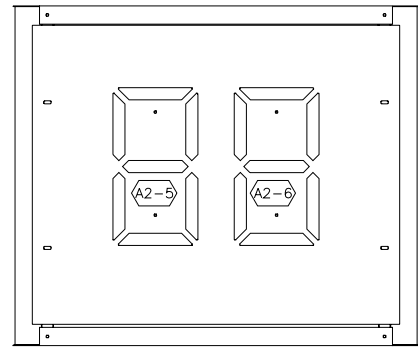
A1-7E AND A1-7F

SEGMENT DESIGNATION

A1-3H

CONNECTOR NUMBER

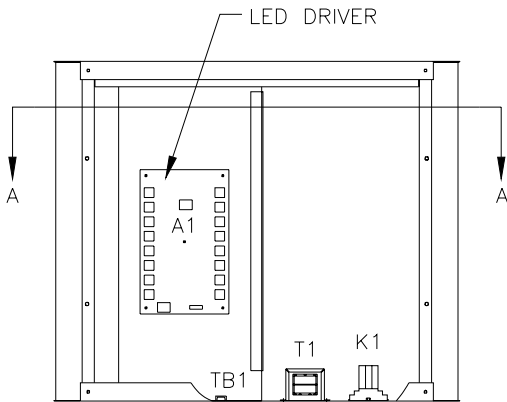
DRIVER NUMBER



**FACE B OR C**

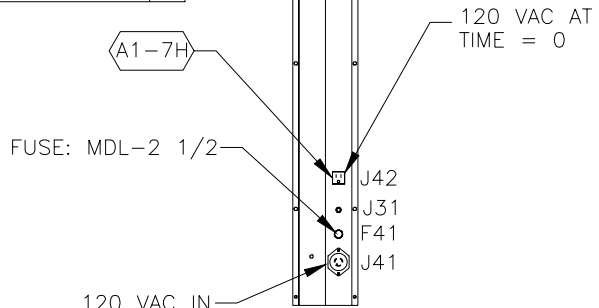
**HORN AND INDICATOR SEGMENTS**

SEGMENT	PIN NO.	P7 CONNECTIONS	
		FUNCTION	TB1 POS.
E	5	GAME CLOCK HORN	1
F	4	SHOT CLOCK HORN	2
G	9	GAME CLOCK STOP	3
H	8	GAME CLOCK = 0	4
7		28V COMMON	5

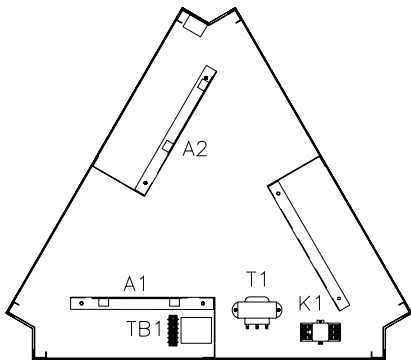


**FRONT VIEW**

WITH FACE PANEL REMOVED



**REAR VIEW**



**SECTION VIEW A-A**

**REPLACEMENT PART NUMBERS**

REF NO.	PART NO.	DESCRIPTION
A1	0P-1150-0017	LED DRIVER
TB1	TB-1007	5-POS TERMINAL BLOCK
K1	K-1015	RELAY, DPDT
T1	T-1066	TRANSFORMER, 16V SEC.
F41	F-1002	MDL-2 1/2
LS1	DS-1040	HORN, 120VAC
DIGITS 5&6	0P-1150-0048	13" RED 7-SEG LED BAR

FOR THE STANDARD DISPLAY, LS1 IS WIRED TO THE GAME CLOCK AND SHOT CLOCK HORN SEGMENTS.

K1 IS WIRED TO THE TIME=0 SEGMENT.  
K1 SWITCHES 120V TO J42.

TO ENABLE OTHER SEGMENTS, OR TO MAKE OTHER CHANGES, RECONNECT AT TB1.

**LED SHOT CLOCK DISPLAY MODEL NUMBERS AND DESCRIPTIONS**

MODEL NO.	ASSEMBLY NUMBER	VOLTS
BB-2026-9	0A-1152-0129	120

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED BASKETBALL SCOREBOARDS

TITLE: COMPONENT LOCATIONS, BB-2026-9 SHOT CLOCK

DES. BY: AVB

DRAWN BY: DDELEEUW

DATE: 29DEC97

REVISION

APPR. BY:

SCALE: 1=15

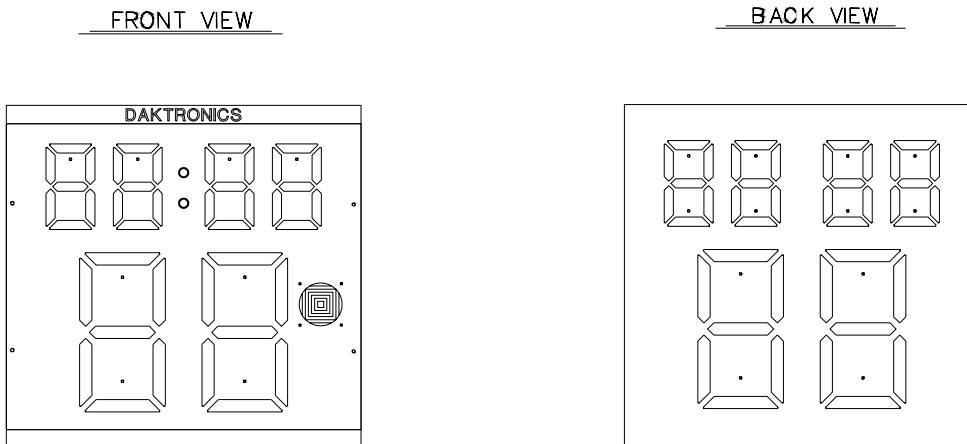
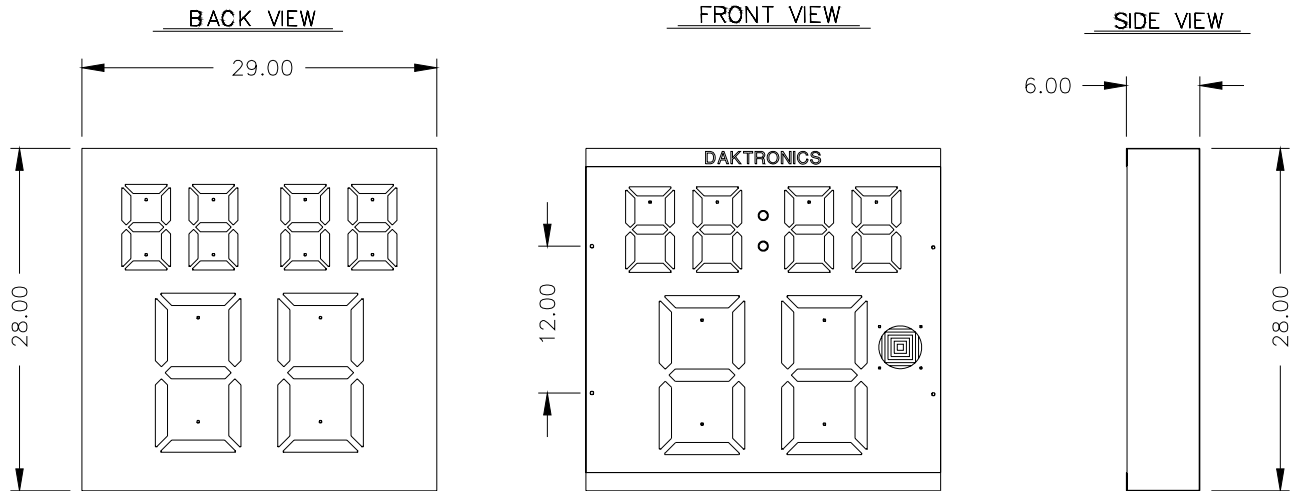
1152-R04A-99436

REV.	DATE	DESCRIPTION	BY	APPR.

BB-2029-9 SCOREBOARD

**MECHANICAL SPEC**

**MOUNTING SPEC**



**DISPLAY SPEC:**

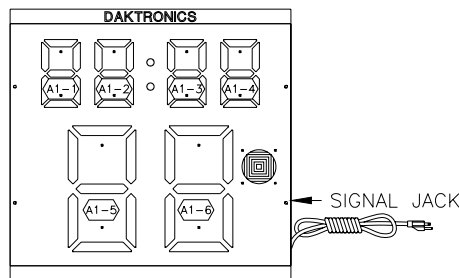
- SHIPPING WEIGHT: 70 lbs
- MOUNTING WEIGHT: 40 lbs
- DIMENSIONS: 29.00"x 28.00"x 6"

<b>DAKTRONICS, INC. BROOKINGS, SD 57006</b>				
PROJ: LED 2 STRING SCOREBOARD				
TITLE: MECHANICAL SPEC, BB-2029-9				
DES. BY:		DRAWN BY: DDELEEUW		DATE: 24FEB98
01	27 MAR 01	CHANGED SHIPPING WEIGHT FROM 45 TO 70 LBS	CPS	
REV.	DATE	DESCRIPTION	BY	APPR.
			REVISION	APPR. BY:
			SCALE: 1=15	1152-E10A-41022

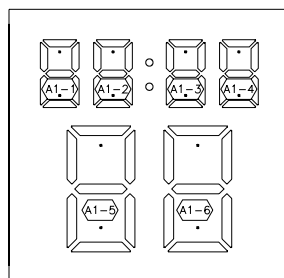
# BB-2029-9 SHOT CLOCK

## ELECTRICAL/SIGNAL SPEC

### DIGIT, SIGNAL AND POWER SPEC FRONT VIEW



### REAR VIEW



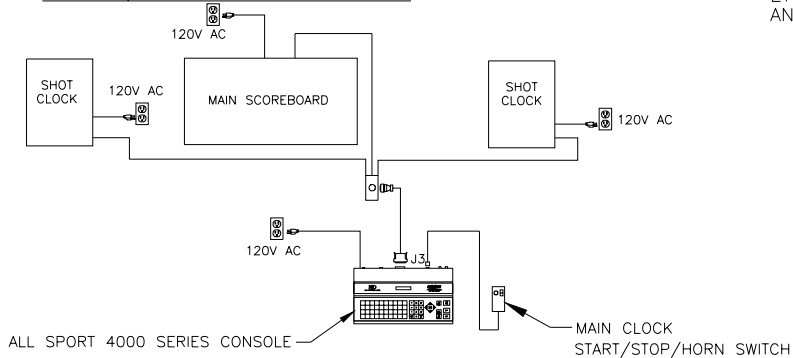
NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES WHICH DRIVER CONNECTOR IS WIRED TO THAT DIGIT.

NOTE: ARROW INDICATES SIGNAL TERMINATION POINT ON DISPLAY. REFER TO DRAWING BELOW OR ALLSPORT MANUAL FOR ADDITIONAL WIRING DIAGRAMS OF DISPLAY. USE 24AWG MINIMUM, SHIELDED, TWO CONDUCTOR CABLE FOR SIGNAL TERMINATION.

### POWER SPEC:

- 120VAC, 15 AMP CIRCUIT REQUIRED.
- 100 WATTS MAXIMUM.
- PRODUCT SAFETY APPROVAL:  
ETL LISTED, TESTED TO CSA STANDARDS,  
AND CE LABELED FOR INDOOR USE.

### TYPICAL, SINGLE DISPLAY SETUP:

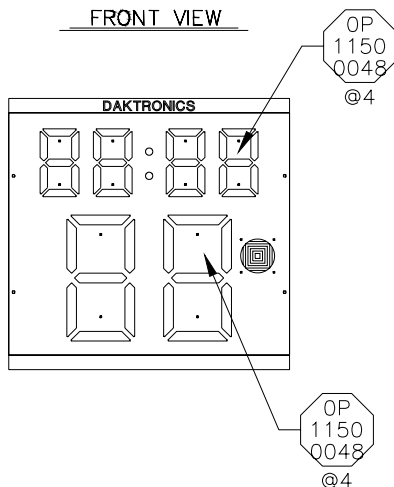


### PART SPEC

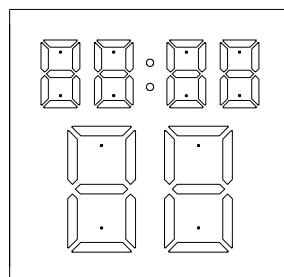
NOTE: REFER TO THE MANUAL FOR WARRANTY AND COMPONENT REPLACEMENT PROCEDURES.

REMOVE FOUR SCREWS THAT FASTEN THE FACE PANEL ON TO ACCESS DRIVER.

### FRONT VIEW



### REAR VIEW



### REPLACEMENT PART NUMBERS

PART NO.	DESCRIPTION
0A-1152-0138	BB-2029-9, SHOT CLOCK
OP-1150-0017	LED DRIVER
T-1066	TRANSFORMER, 16V SEC.
0A-1171-4035	HARNESS; Y-PLUG 4'
0A-1171-4003	HARNESS; 7-SEG DIGIT 4'
0A-1150-0038	DIGIT; 7" AMB 7 SEG
0A-1150-0048	DIGIT; 13" RED 7-SEG
0A-1152-0082	HARNESS, 120V GAME/SHOT
DS-1040	HORN, 120V AC

NOTE: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED 2 STRING SCOREBOARD

TITLE: ELECTRICAL & SIGNAL SPEC, BB-2029-9

DES. BY: DRAWN BY: DDELEEUW DATE: 24FEB98

REVISION

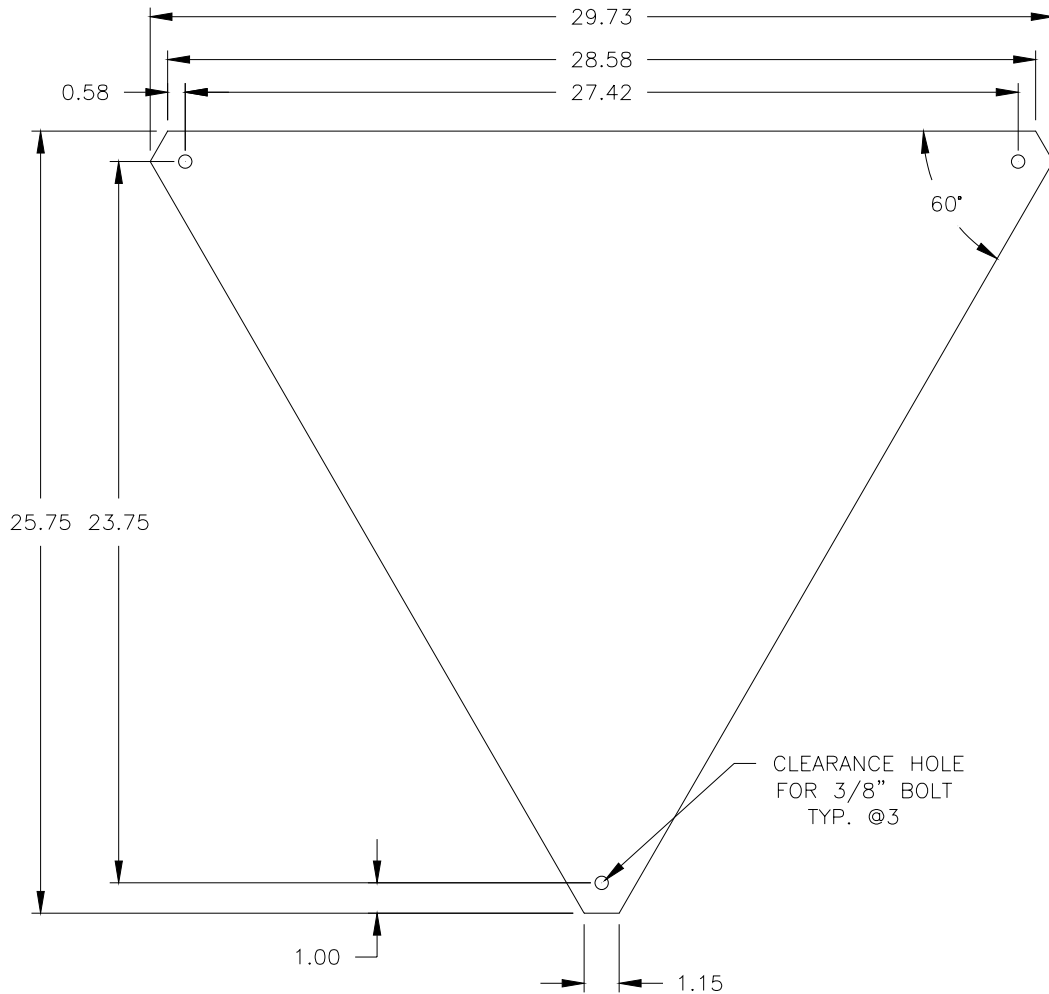
APPR. BY:

SCALE: NONE

1152-E10A-41053

REV.	DATE	DESCRIPTION	BY	APPR.
01	19 SEP 01	CHANGED TITLE TO ELECTRICAL & SIGNAL SPEC, BB-2029-9	ALG	

RECOMMENDED MOUNTING PLATE LAYOUT



MODEL BB-2023 3-SIDED GAME/SHOT CLOCK IS EQUIPPED WITH THREE 3/8-16 NUTS, MOUNTED INSIDE THE BOTTOM. FOR PROPER MOUNTING, PROVIDE A STURDY MOUNTING PLATE OR STRUCTURE WITH HOLES LOCATED AS SHOWN. INSERT 3/8-16 BOLTS THROUGH HOLES AND THREAD INTO THE INTERNAL NUTS.

BE SURE THE STRUCTURE IS ADEQUATE TO SAFELY SUPPORT THE DISPLAY, WHICH WEIGHS ABOUT 60 LB. STRESSES INCURRED WHEN THE BACKSTOP MOVES DURING PLAY MUST BE TAKEN INTO CONSIDERATION.

DAKTRONICS, INC. IS NOT RESPONSIBLE FOR MOUNTING STRUCTURES DESIGNED AND INSTALLED BY OTHERS.

SEE DRAWING 1152-E10A-95932 FOR DIMENSIONS OF MODEL BB-2023 DISPLAY, AND OTHER DETAILS.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ:

TITLE: MOUNTING PLATE RECOMMENDATIONS, BB-2023

DES. BY: AVB

DRAWN BY: A VANBEMMEL

DATE: 17 OCT 97

REV.	DATE	DESCRIPTION	BY	APPR.
1	23DEC97	3/8-16 WAS 3/8-13.	RJL	

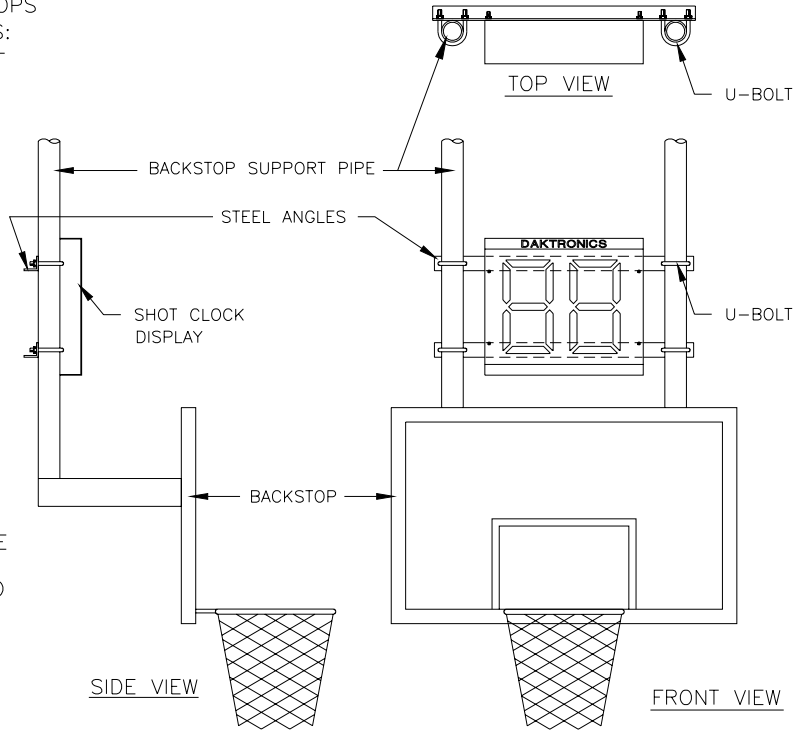
REVISION

APPR. BY:

SCALE: 1=6

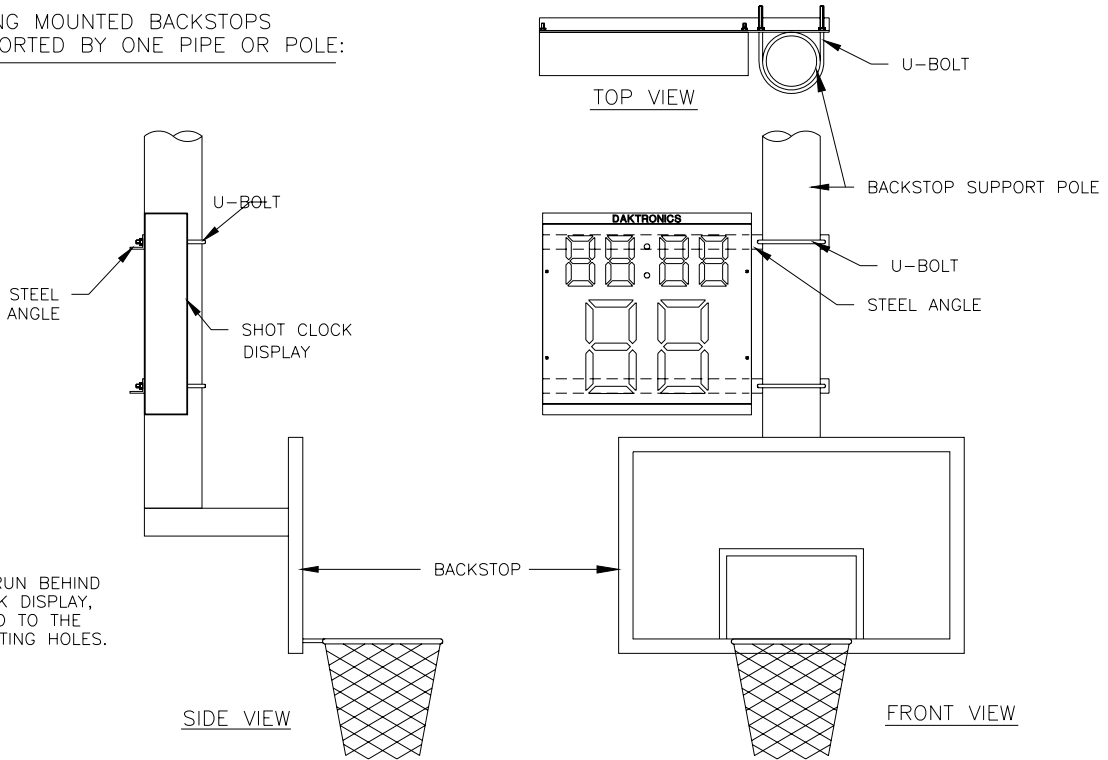
1152-R07A-97631

CEILING MOUNTED BACKSTOPS  
SUPPORTED BY TWO PIPES:



DAKTRONICS DOES NOT SUPPLY THE HARDWARE OR BRACKETS TO MOUNT SHOT CLOCK DISPLAYS TO BACKSTOPS. THE METHODS SHOWN ARE SUGGESTIONS FOR TWO COMMON BACKSTOP TYPES. DAKTRONICS, INC. IS NOT RESPONSIBLE FOR THE INTEGRITY OR SUITABILITY OF MOUNTING SYSTEMS MANUFACTURED AND INSTALLED BY OTHERS.

CEILING MOUNTED BACKSTOPS  
SUPPORTED BY ONE PIPE OR POLE:



STEEL ANGLES RUN BEHIND THE SHOT CLOCK DISPLAY, AND ARE BOLTED TO THE DISPLAY'S MOUNTING HOLES.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ:

TITLE: BACKSTOP MOUNTING SUGGESTIONS

DES. BY:

DRAWN BY: A VANBEMMEL

DATE: 13 MAR 97

REVISION

APPR. BY:

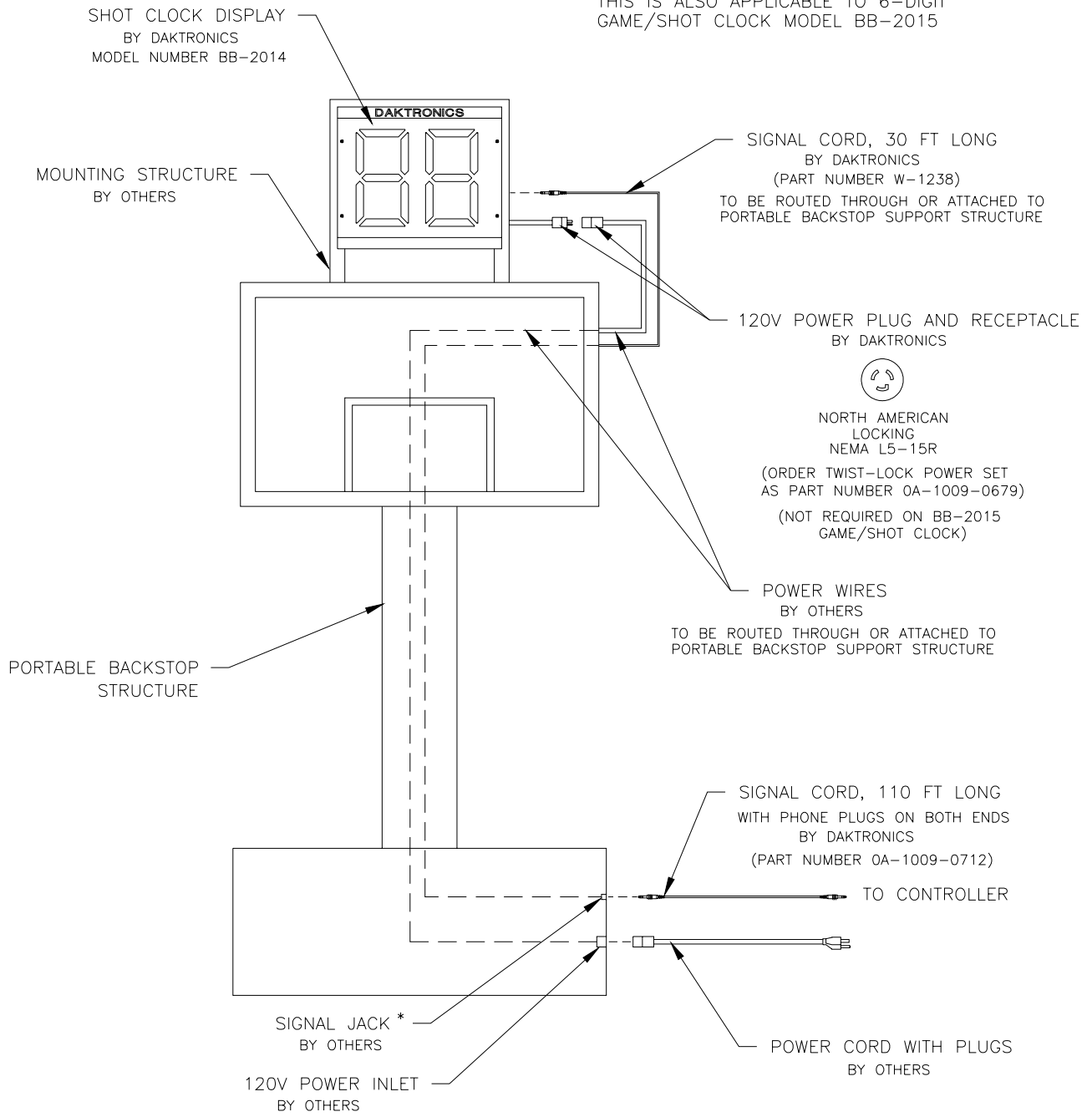
SCALE: NONE

1009-R10A-91230

REV.	DATE	DESCRIPTION	BY	APPR.



TWO-DIGIT SHOT CLOCK IS SHOWN.  
THIS IS ALSO APPLICABLE TO 6-DIGIT  
GAME/SHOT CLOCK MODEL BB-2015



\* SIGNAL CONNECTORS ARE 1/4" STEREO HEADPHONE PLUGS

DAKTRONICS, INC. BROOKINGS, SD 57006

2	29 JUN 99	DELETED TABLE. ADDED NOTE ABOUT BB-2015	AVB	AVB
1	10FEB98	ADDED NEW MODELS TO THE TABLE	DDL	
REV.	DATE	DESCRIPTION	BY	APPR.

PROJ:		DAKTRONICS, INC. BROOKINGS, SD 57006	
TITLE: WIRING FOR SHOT CLOCK ON PORTABLE BACKSTOP			
DES. BY: AVB		DRAWN BY: A VANBEMMEL DATE: 07 NOV 97	
REVISION	APPR. BY:	1009-R04A-98293	
	SCALE: NONE		

