

Basketball Scoring Systems

Installation, Maintenance & Troubleshooting Manual

ED-3367

Models No.:

BB-1013B, BB-1013S, BB-1713B, BB-1713S, BB-1713B-A, BB-1713S-A

ED#3367 Product#1009 Rev. 10 - 28 Dec 1998

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Section 1: Introduction

1.1 How to Use this Manual

This manual is designed to explain installation and maintenance of the display system. Details for display maintenance are also given. 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. Be sure the scoreboard is properly grounded with a ground rod at the scoreboard location.
- **4.** Disconnect power to the scoreboard when it is not in use.
- **5.** *Disconnect power when servicing the scoreboard.*
- **6.** Do not modify the scoreboard structure or attach any panels or coverings to the scoreboard without the express written consent of Daktronics, Inc.

The box below illustrates Daktronics drawing numbering system. The drawing number "7087-P08A-69945" illustrates how Daktronics identifies individual drawings. This number is located in the bottom right corner of the drawing. Drawings are referred to in the manual by the last set of digits and the letter preceding them. In the example below, the drawing would be referred to as **Drawing A-69945**. All reference drawings are inserted at the *end of the first section which references them*.

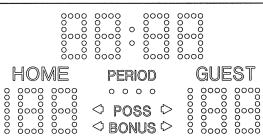
	DAKTRONICS, INC	C. BROOKINGS, SD 57006
PROJ:		
TITLE:		
DES.BY:	DRAW	NBY: DATE:
	APPR.BY:	7087-P08A-69945
	SCALE:	7007-P00A-09940

1.2 Scoreboard Overview

Reference Drawings: Model Identification, Basketball Drawing A-38330 Model Identification Basketball Drawing A-38512 Single/Dual Display Installation Drawing A-67460

The Daktronics Basketball Scoring System is from a family of display systems designed to offer simple installation, easy readability and reliability. The microprocessor control assures consistent operation and accuracy.

Drawings A-38330, A-38512 and **A-67460** show the six basic display models covered in this manual, BB-1013S, BB-1713S, BB-1713S-A, BB-1013B, BB-1713B and BB-1713B-A. There are three different display configurations consisting of either 13" dot digits or bar digits. The dimensions and weight of each display is also listed on the drawings. Display model number and electrical requirements are listed on the label on the front of the display, left of the period indicators.

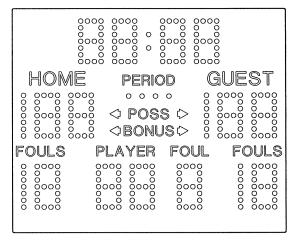


Model Nox BB-1013S

Height: 45.25 in. (1149 mm)
Width: 80.76 in. (2051 mm)
Depth: 6 in. (153 mm)
Weight: 85 lbs. (39 kg)

Model Nox BB-1713S

Height: 66.25 in. (1683 mm)
Width: 80.76 in. (2051 mm)
Depth: 6 in. (153 mm)
Weight: 133 lbs. (61 kg)



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GUEST
   HOME
                        PERIOD
0 0000 0000
0 0 0 0
0 0 0 0
0 0 0 0
0 0 0 0
0 0 0 0
0 0 0 0
                                           0 0 0 0

    POSS ▷

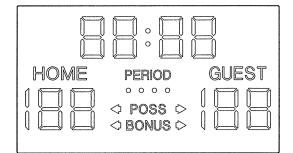
                    ⇒BONUS
                                                  FOULS
FOULS
                FOUL PLAYER
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```

Model No. BB-1713S-A

Height: 66.25 in. (1683 mm)
Width: 80.76 in. (2051 mm)
Depth: 6 in. (153 mm)
Weight: 133 lbs. (61 kg)

		CHANGED WEIGHT OF 88-1713's FROM 110 LBS. TO 133 LBS.		Γ
2	15 NOV 93	TO 133 LBS.	CFICK	
1	22 JUN 93	CHANGED FROM "B" TO "A" SIZE DRAWING.	C FICK	
REV.	DATE	DESCRIPTION	BY	APPR

		DAKTRONICS, INC). I	BROOKINGS,	SD	57006		
-	PROJ: BA	ASKETBALL						
	TITLE: M	ODEL IDENTIFICATION	, BA	SKETBALL				
	DES. BY:	DRAW	N BY:	HEIDERSCHE	IDT	DATE: 19	JUN	89
	REVISION	APPR. BY:	1	009-R0	10	۸ - 38	771	\cap
		SCALE: 1-26		UUS IN	JO.	$A \cup C$	$\mathcal{O}\mathcal{O}$	J

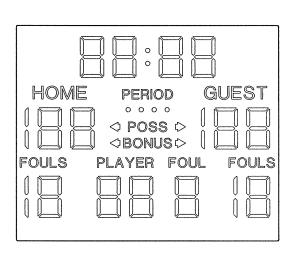


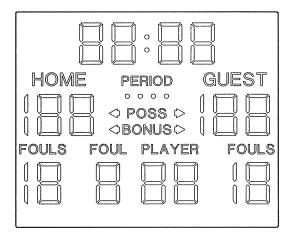
Model No. BE-1013E

Height: 45.25 in. (1149 mm)
Width: 80.76 in. (2051 mm)
Depth: 6 in. (153 mm)
Weight: 95 lbs. (44 kg)

Model No: BB-1713B

Height: 66.25 in. (1683 mm) Width: 80.76 in. (2051 mm) Depth: 6 in. (153 mm) Weight: 138 lbs. (63 kg)

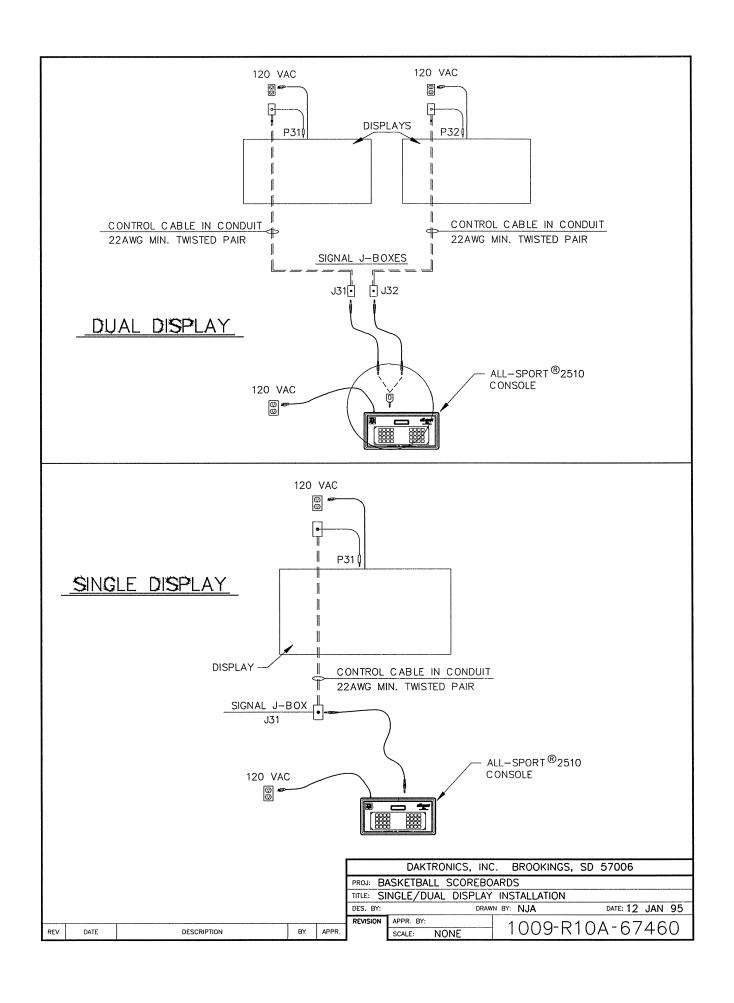




Model No: BB-1713B-A

Height: 66.25 in. (1683 mm) Width: 80.76 in. (2051 mm) Depth: 6 in. (153 mm) Weight: 138 lbs. (63 kg)

3	15 NOV 93	CHANGED WEIGHT OF BB-1713's FROM 120 LBS. TO 138 LBS.	CFICK		DAKTRONICS, INC. BROOKINGS, SD 57006
2	22 JUN 93	CHANGED FROM "B" TO "A" SIZE DRAWING.	CFICK		PROJ: BASKETBALL TITLE: MODEL IDENTIFICATION BASKETBALL
1	22 JUN 93	CHANGED DISPLAY NAMES FROM BB-XX12B TO BB-XX13B.	JLH		DES. BY: DRAWN BY: HEIDERSCHEIDT DATE: 19 JUN 89
REV.	DATE	DESCRIPTION	BY	APPR.	REVISION APPR. BY: 1009-R08A-38512



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Section 2: Mechanical & Electrical Installation

Reference Drawing: Single/Dual Display Installation Drawing A-67460

Refer to **Drawing A-67460** in **Section 1** for a general system configuration for single and dual display installations.

- Provide grounded 120 VAC circuits to display and control locations.
- Route control signal cable in conduit from the control location to the display location. One pair of conductors (22 AWG min.) is required for each display. One-half-inch conduit is adequate for these wires.

If existing cable in good condition is available, two conductors from it may be used. Cable should run less than 1000 feet from the control location to the display. For greater lengths, contact Daktronics.

- Mount the display as described in **Section 2.1**.
- Make electrical connections as described in **Section 2.2**.

2.1 Mounting

Reference Drawing: Scoreboard Mounting Drawing A-26861

Angles for lifting the display and holes for attaching the display to the wall are provided in the frame of the display, as shown in **Drawing A-26861**.

Due to the variety of wall materials used in sports facilities, we cannot anticipate your needs and provide a mounting bolt or anchor suited to your installation. Suitable mounting hardware may be purchased at your local hardware store. Bolts with expansion or toggle anchors are available for a variety of wall materials. Be sure that the method you choose is adequate to safely support the weight of the display.

Use the lifting angles in the top of the frame to lift the display. Secure the display to the wall with the holes in the back, as shown in **Drawing A-26861**. Two holes at the bottom of the display are provided to secure the bottom of the display to the wall in a similar manner.

The pattern of four mounting holes is 66.25 inches wide. For BB-1013S and BB-1013B, the pattern is 44.10 inches high. For BB-1713S, BB-1713S-A, BB-1713B, and BB-1713B-A the vertical hole spacing is 65.10 inches.

2.2 Electrical Installation

Electrical installation involves routing of power and control signal wiring through separate conduit or wire ways. Control signal cable is not provided as part of this system and can be purchased locally.

Each display is equipped with a 120 VAC, 3-prong plug. Provide a grounded receptacle and plug it in. Actual maximum display power consumption is as follows:

Model Number	Maximum Power (in watts)
BB-1013S	319
BB-1013B	430
BB-1713S, BB-1713S-A	510
BB-1713B, BB-1713B-A	692

The control console requires a 120 VAC receptacle for power. Power requirement is less than one amp.

2.2.2 Signal

Reference Drawing:	Signal Connection; Installation	Drawing A-28214
	Installation, J-Box w/ Tip Shunt	Drawing A-43399
	Single/Dual Display Installation	Drawing A-67464

If running 4 or less displays simultaneously:

- 1. Route conduit and cable between display location(s) and the control location.
- 2. Use paired cable, minimum 22 AWG, connecting the cable to the junction box at the control end.
- 3. Install the phone plug provided to the display end of the cable.
- **4.** Insert plug into the jack (J301) on the top of the display. Make connections according to **Drawing A-28124.**

For running 4 or less displays, simultaneously or independently:

- 1. Route conduit and cable between display location(s) and the control location.
- **2.** Use paired cable, minimum 22 AWG, connecting the cable to the junction box at the control end.
- 3. Install the phone plug provided to the display end of the cable.
- **4.** Insert plug into the jack (J301) on the top of the display.
- 5. Make connections according to **Drawing A-43399**.

For running 4 or more displays or Foul/Player Panels:

- 1. Route conduit and cable between display location(s) and the control location.
- **2.** Use paired cable, minimum 22 AWG, connecting the cable to the junction box at the control end.
- 3. Install the phone plug provided to the display end of the cable.
- **4.** Insert plug into the jack (J301) on the top of the display.
- 5. Make connections according to Drawing A-67464.

Refer to **Section 3.2** for output functions and applications.

2.3 Basketball Codes and What Each Output Operates

The following table describes what model of basketball scoreboard can be operated from each of the outputs of All Sport® consoles.

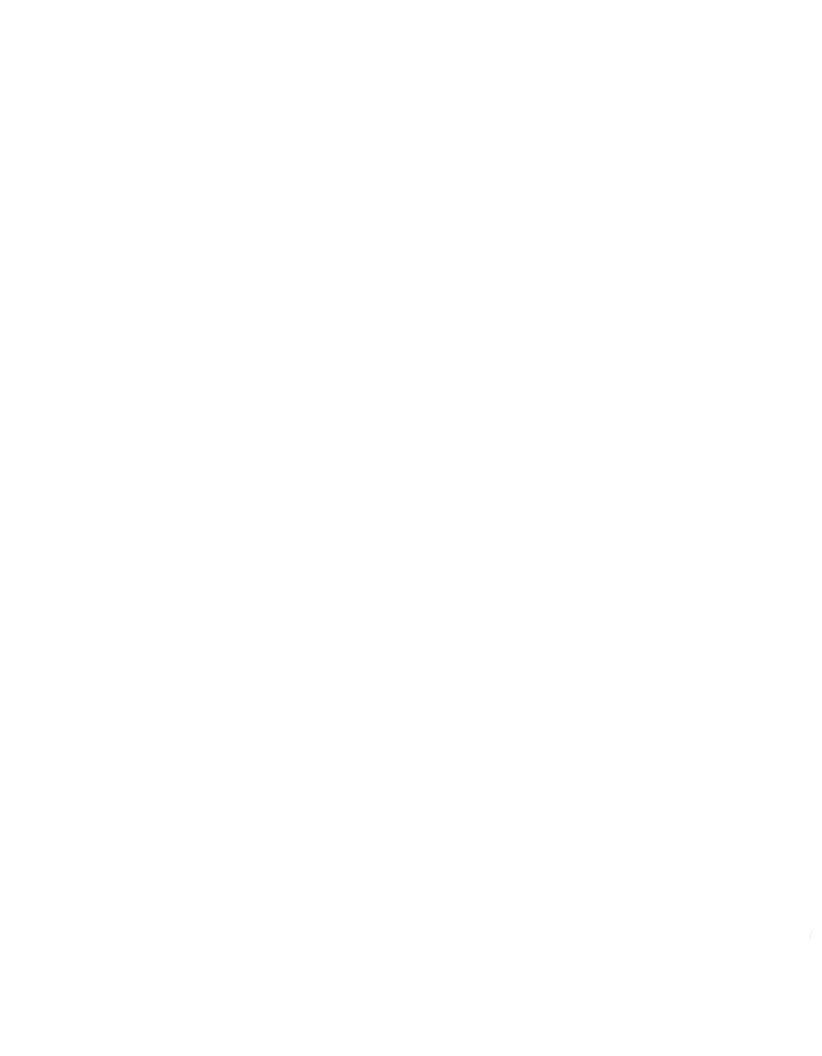
All Sport® 2000, 2100, 2500, and 2510 use only output 1. All Sport® 2200, 2300, 2600, and 2610 use outputs 1 through 4.

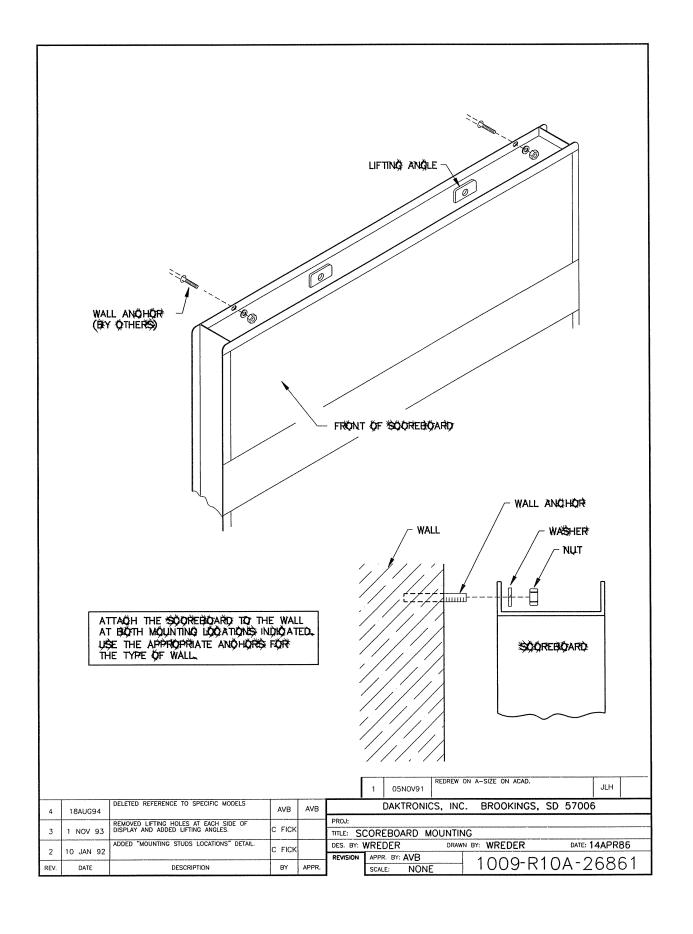
Code #	Output 1	Output 2	Output 3	Output 4
03	BB-18	B-18	G/S CLOCK	BB-17
04	BB-18A	BB-18A	G/S CLOCK	BB-17A
05	BB-18	BB-18	G/S CLOCK	BB-17
06	BB-18A	BB-18A	G/S CLOCK	BB-17A
07	BB-18	FP-15 DR1	FP-15 DR2	BB-17
08	BB-18A	FP-15 DR1	FP-15 DR2	BB-17A
10	PCS-4	PCS-4	PCS-4	PCS-4
11	BB-17	BB-17	G/S CLOCK	BB-17
12	BB-17A	BB-17A	G/S CLOCK	BB-17A
13	BB-17	BB-17	G/S CLOCK	BB-17
14	BB-17A	BB-17A	G/S CLOCK	BB-17A
15	FP-15 DR1	FP-15 DR2	-	FP-15 DR4*
16	FP-25 DR1	FP-25 DR2	FP-25 DR3	FP-25 DR4*
17	BB-17	FP-15 DR1	FP-15 DR2	BB-17
18	BB-17A	FP-15 DR1	FP-15 DR2	BB-17A

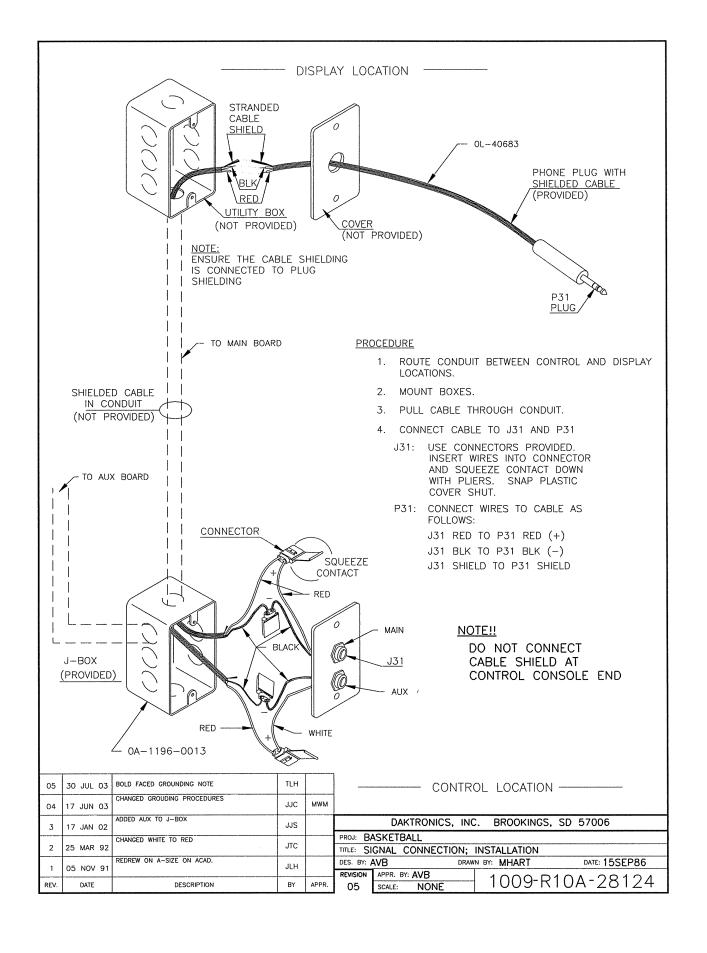
- BB-18 includes BB-1113S, BB-1113B, BB-1813S BB-1813B, & BB-114-CL.
- BB-18A includes BB-1113S, BB-1113B, BB-1813S-A BB-1818B-A, & BB-114-CL.
- BB-17 includes BB-1013S, BB-1013B, BB-1713S, BB-1713B, & BB-87B.
- BB-17A includes BB-1013S, BB-1013B, BB-1713S-A, BB-1713B-A & BB-87B.

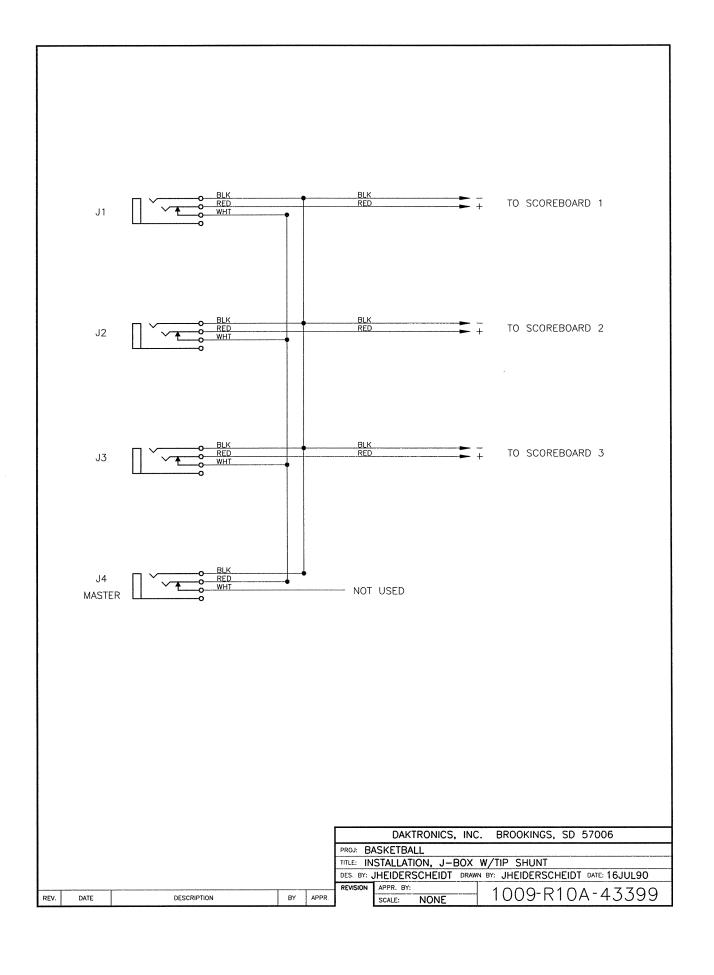
Note: This manual covers displays that use the BB-17 group.

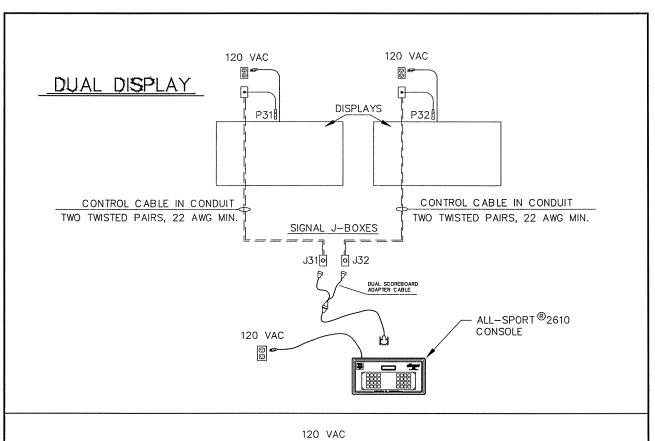
^{*} Codes 15 & 16 fourth output is used as an input to time/score console.

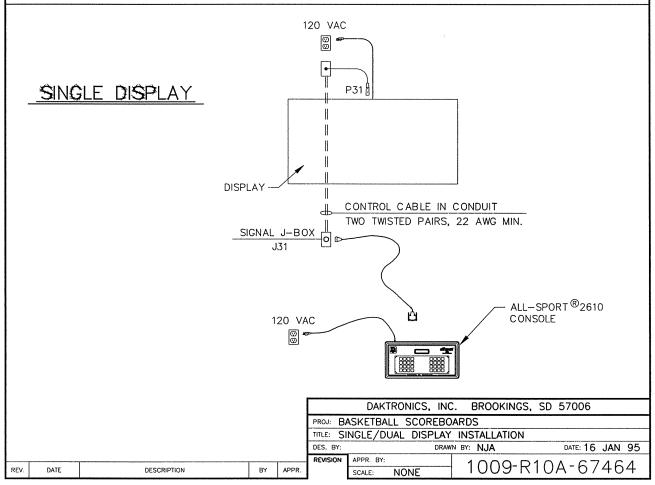












Section 3: Maintenance & Troubleshooting



IMPORTANT NOTES:

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

3.1 Lamp Service

Reference Drawings: Lamp Service, 13" 4x7 Dot Matrix Drawing A-26872 Lamp Service, 7 Segment Bar Drawing A-38533

The primary service required by Daktronics Basketball Scoring Displays is to replace lamps periodically. Replacement lamps are type no. 656, 28V, 60 ma, wedge base. Daktronics part number is DS-1115. Do not use higher power lamps or lamps rated for different voltage or damage may result.

To remove lamps in the dot matrix digit refer to **Drawing A-26872** and follow the steps below:

- 1. Remove the screws securing the digit to the display.
- 2. Remove the digit.
- 3. Rotate the lamp holder 1/4 turn and remove it from the reflector.
- **4.** Pull the lamp from the lamp holder.
- 5. Insert the new lamp.
- **6.** Replace the lamp holder into the reflector.
- 7. Position the digit in the display and secure with screws.

To remove lamps in the segment bar digit refer to **Drawing A-38533** and follow the steps below:

- 1. Remove the screws securing the digit and remove the digit.
- 2. Rotate the lamp holder 1/4 turn and remove it from the socket panel.
- 3. Pull the lamp from the lamp holder.
- **4.** Insert the new lamp.
- **5.** Replace the lamp holder.
- **6.** Replace the digit and secure with the screws.

3.2 Lamp Driver

Reference Drawings:	Lamp Driver, 16 Col., w/o Fan	Drawing A-37073
	Component Locations, BB-1013X	Drawing A-38514
	Component Locations, BB-1713X	Drawing A-38516
	Component Locations, BB-1713X-A	Drawing A-38517

In the display, the task of switching lamps on and off is performed by the lamp driver (refer to **Drawing A-37073**). Each lamp driver has 20 connectors providing power and signal inputs and outputs to digits and indicators. The function of each of these connectors is as follows:

Connector Number	Function
1-16	Output to digits and indicators
17	Control signal input
18	Power input for connectors 1-8
19	Power (120V) input for driver logic
20	Power input for connector 9-16

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. **Drawings A-38514**, **A-38516** and **A-38517** show which connector number or connector and pin number, operates each digit or indicator in each display model.

3.3 Segmentation

Reference Drawing:	Segmentation, 4x7 Digit	Drawing A-26762
	Segmentation, 7 Segment Bar Digit	Drawing A-38532

In each digit, certain lamps always go on and off together. These groupings of lamps are referred to as "segments." **Drawings A-27672** and **A-38532** show which connector pin number is wired to each digit segment, and the wiring color code used throughout the display.

3.4 Fuses

Reference Drawing: Lamp Driver, 16 Col., w/o fan Drawing A-37073

The lamp driver in the scoreboard has 17 fuses. There is one fuse to protect each digit circuit. These fuses are type AGC-10 (as in **Drawing A-37073**) and are located next to each digit output under a single metal cover.

The other fuse, F17, is type AGC-1/2. It is located near the left end of the driver, under the same cover as F1 through F16. This fuse protects the driver logic circuit and the fan.

Additionally, each display has one fuse, F401, located behind the access door, to protect 120 VAC wiring circuits. Replace fuses only with fuses of the same type and rating.

3.5 Component Location and Access

Reference Drawings:	Schematic, BB-1013S, BB-1713S	Drawing A-26169
	Schematic, Power/Signal, BB-1713B	Drawing A-38491
	Component Locations, BB-1013X	Drawing A-38514
	Component Locations, BB-1713X	Drawing A-38516
	Component Locations, BB-1713X-A	Drawing A-38517

Drawings A-38514, A-38516 and **A-38517** show front views of the six display models covered here, and the locations of the various components. The component numbers correspond to the schematics, **Drawings A-26169** and **A-38491**.

The lamp driver is located behind the indicator panel. Release the fasteners securing the panel to gain access.

3.6 Schematic

Reference Drawings: Schematic, BB-1013S, BB-1713S Drawing A-26169

Schematic, Power/Signal, BB-1713B Drawing A-38491 Component Locations, BB-1013X Drawing A-38514 Component Locations, BB-1713X Drawing A-38516 Component Locations, BB-1713X-A Drawing A-38517

Drawings A-26169 and **A-38491** show the power and signal inputs and the 120V wiring. The component numbers correspond to **Drawings A-38514**, **A-38516** and **A-38517**. **Note:** Disconnect power before servicing and when the display is not in use. Keeping power on may shorten the life of some electronic components.

3.7 Troubleshooting

Observed Problem	Possible Cause	Remedy
Display won't light	Console not connected or poor connection	Check console connection
	No power to console	Check console power
	Power off at source	Check power
	Fuse blown at display	Replace fuse
	Driver logic fuse blown	Replace fuse
Individual lamps	Lamp burned out	Replace lamp
won't light	Broken wire	Locate and repair break
Segment won't light	Burned-out lamps	Replace lamps
	Broken wire	Locate and repair break
	Driver malfunction	Contact Daktronics
Segment stays lit	Driver malfunction	Contact Daktronics
Garbled display	Console malfunction	Contact Daktronics
	Poor signal connection	Check console connections
	Driver malfunction	Contact Daktronics
Entire digit won't	Broken wire	Locate and repair break
light	Fuse blown in driver	Replace fuse

3.8 Replacement Parts

Description	Where Used	Part Number
Fuse; AGC-1/2	Driver Logic	F-1000
Fuse; AGC-10	Driver Outputs	F-1006
Fuse; ABC-10	Main	F-1007
Fuse holder; panel mount	X-1032	
Lamp, #656 Wedge Base	Digits, Indicators	DS-1115
Lamp holder, T-3 1/4 Wedge Base	Digits, Indicators	X-1075
Horn; 24 VAC, 60 Hz	All models	DS-1119
Plug, 1/4" phone	Signal Connection	P-1041
Junction Box; Phone Jack	Signal Connection	0A-1009-0038
Lamp Driver, 10-column	BB-1013S, BB-1013B	0A-1033-0103
Lamp Driver; 16-column	BB-1713S, BB-1713S-A, BB-1713B, BB-1713B-A	0A-1033-0101

Daktronics unique exchange program offers our clients the quickest, most economical way of receiving product repairs. If a component has failed, Daktronics will send the customer a replacement. The customer, in turn, sends the failed components to Daktronics. This not only saves money, but also decreases the time that the display is inoperable. Daktronics offers repair and return on a timely basis. In urgent situations, every attempt is made to ship by the fastest transit method available.

1. Packaging for Return: Package and pad the item well to prevent damage during shipment. Electronic components such as printed circuit boards should either be installed in an enclosure or placed in an anti-static bag before boxing.

Please enclose your name and address along with a list of all the symptoms. Please be as specific as possible.

- 2. Lampbank and Driver Packaging Instructions: Lampbanks and drivers should be placed in a static-free enclosure for return shipping. An anti-static convoluted foam packing is available from Daktronics, part number PK-1135 for your use if needed. The shipping box (Daktronics part number PK-1006) should be used in conjunction with the foam.
- **3.** Where to Send: To return parts for service, contact your local representative prior to shipment to acquire a Return Material Authorization Number (RMA#). This will speed up the repair of your unit.

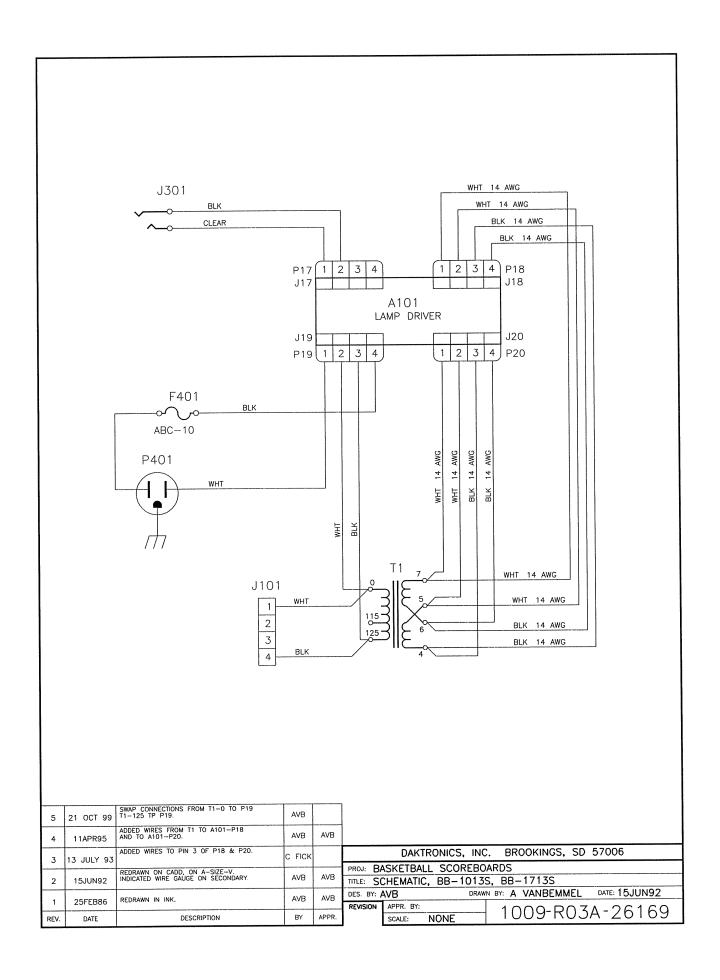
When returning defective items under the exchange program, please utilize the UPS Blue Return Tags found in the package containing the exchange unit sent from Daktronics. This will speed up the transaction and help avoid any confusion when the part is returned to Daktronics. **The defective item must be returned within 15 days of receiving a replacement part.** Using the UPS Blue Return tag immediately will eliminate the possibility of late charges being assessed against your account.

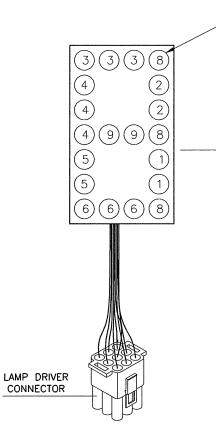
Mail: Daktronics, Inc., Customer Service PO Box 5128 331 32nd Avenue Brookings, SD 57006

Phone: Toll Free: 1-800-843-9879 or 1-605-697-4400

Customer Service Fax: 1-605-697-4444

e-mail: helpdesk@daktronics.com





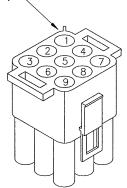
DIGIT LAMP

THE NUMBERS IN THE CIRCLES REPRESENT THE LAMP DRIVER CONNECTOR PIN NUMBER WIRED TO EACH LAMP.

4X7 DOT MATRIX DIGIT



NOTE SPLINE NEAR NO. 1 --



COLOR CODE			
PIN NO.	PIN NO. WIRE COLOR		
1	ORANGE	С	
2	RED	В	
3	BROWN	Α	
4	BLUE	F	
5	PINK	Ε	
6	TAN	D	
7	BLACK	COMMON	
8	GRAY	Н	
9	VIOLET	G	

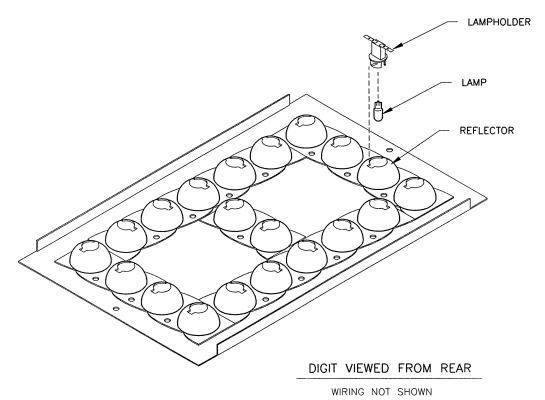
2	29JAN93	CHANGED TO ASIZE-V BORDER.	AVB	AVB
1	18APR89	REDRAWN ON CAD.	AVB	AVB
REV.	DATE	DESCRIPTION	BY	APPR.

		DAKTRONICS, INC	; <u> </u>	BROOKINGS,	SD	57006
_	PROJ: O	JTDOOR SCOREBOAR	DS			
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₹.		SCALE: NONE	- 1	U04-K	J4	$A^{-}Z0/0Z$

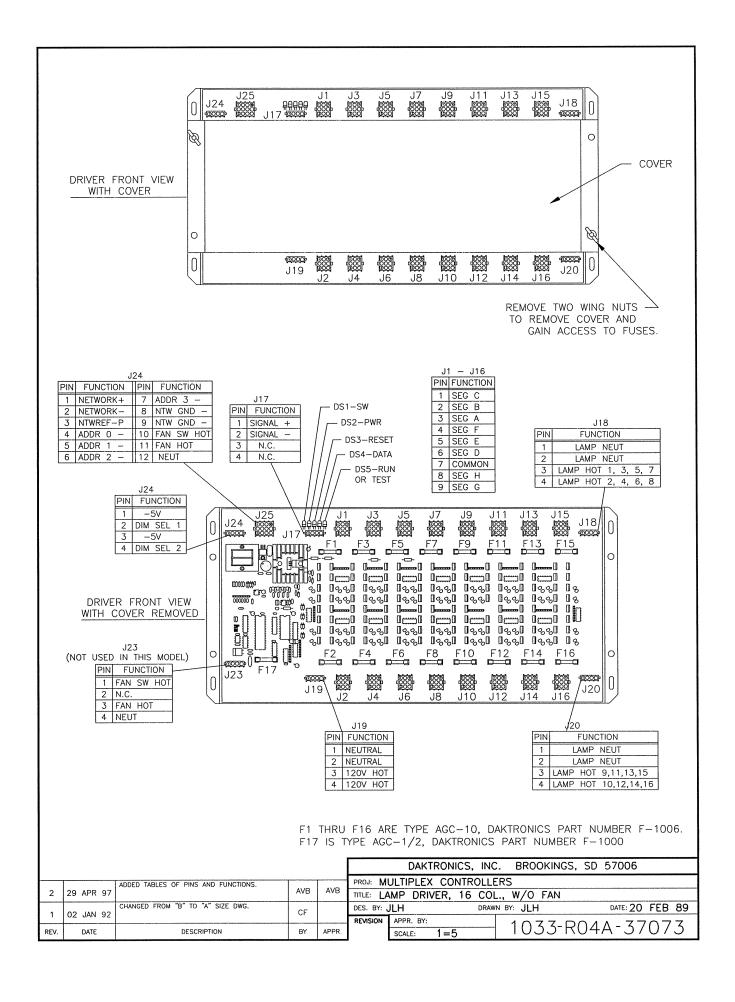
WARNING: DISCONNECT POWER BEFORE SERVICING DIGITS

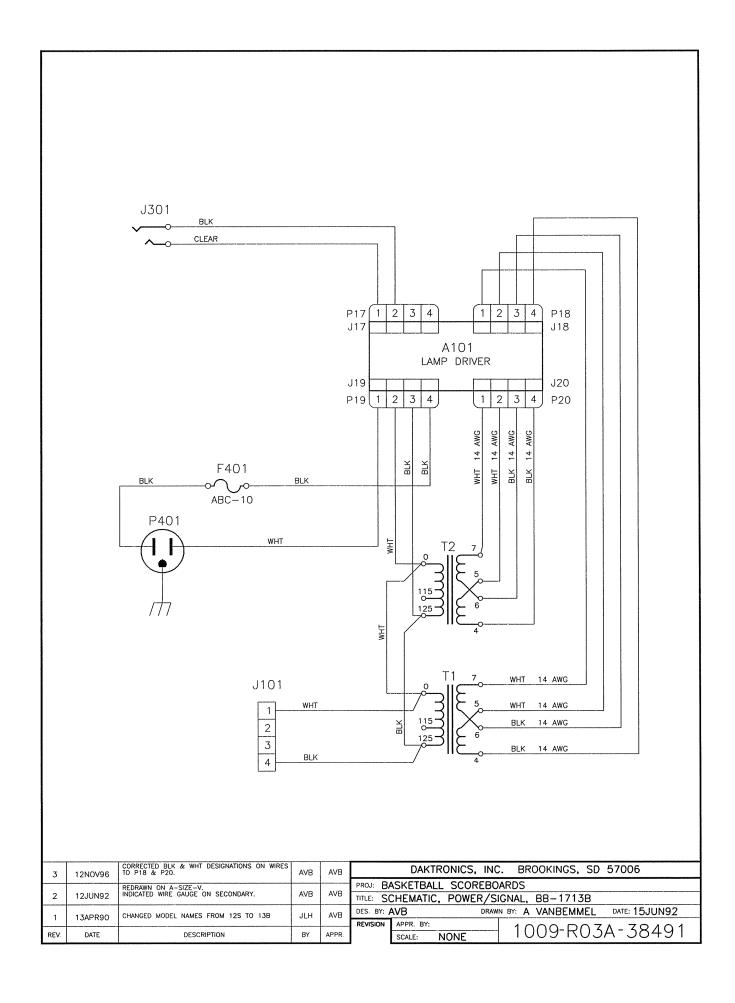
PROCEDURE:

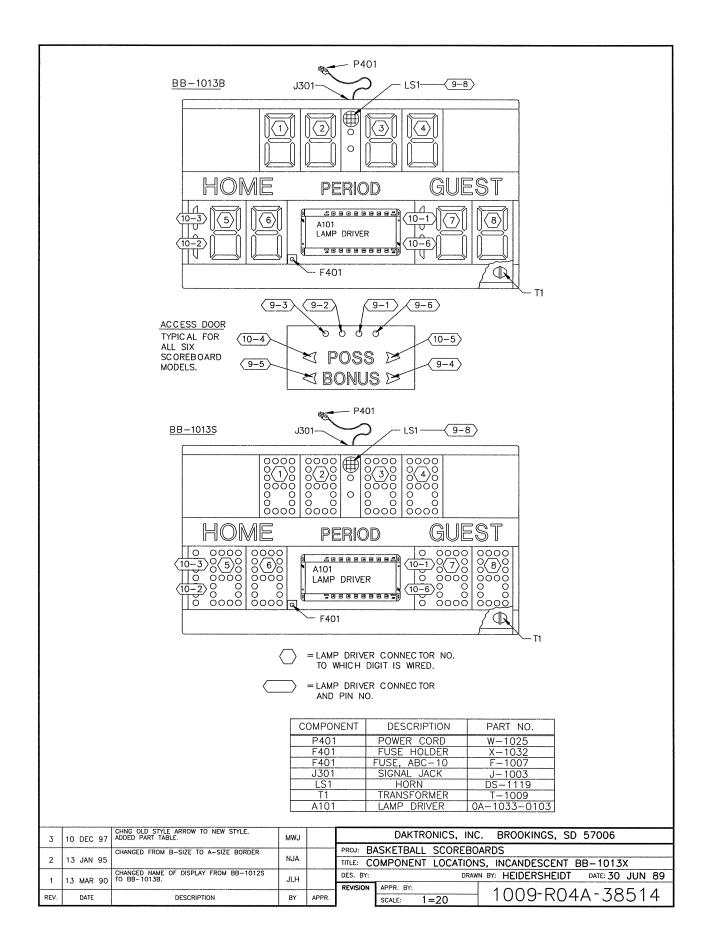
- 1. REMOVE THE SCREWS SECURING THE DIGIT TO THE DISPLAY.
- 2. REMOVE THE DIGIT.
- 3. ROTATE THE LAMPHOLDER 1/4 TURN AND REMOVE IT FROM THE REFLECTOR.
- 4. PULL THE LAMP FROM THE LAMPHOLDER.
- 5. INSERT THE NEW LAMP.
- 6. REPLACE THE LAMPHOLDER INTO THE REFLECTOR.
- 7. POSITION THE DIGIT IN THE DISPLAY AND SECURE WITH SCREWS.

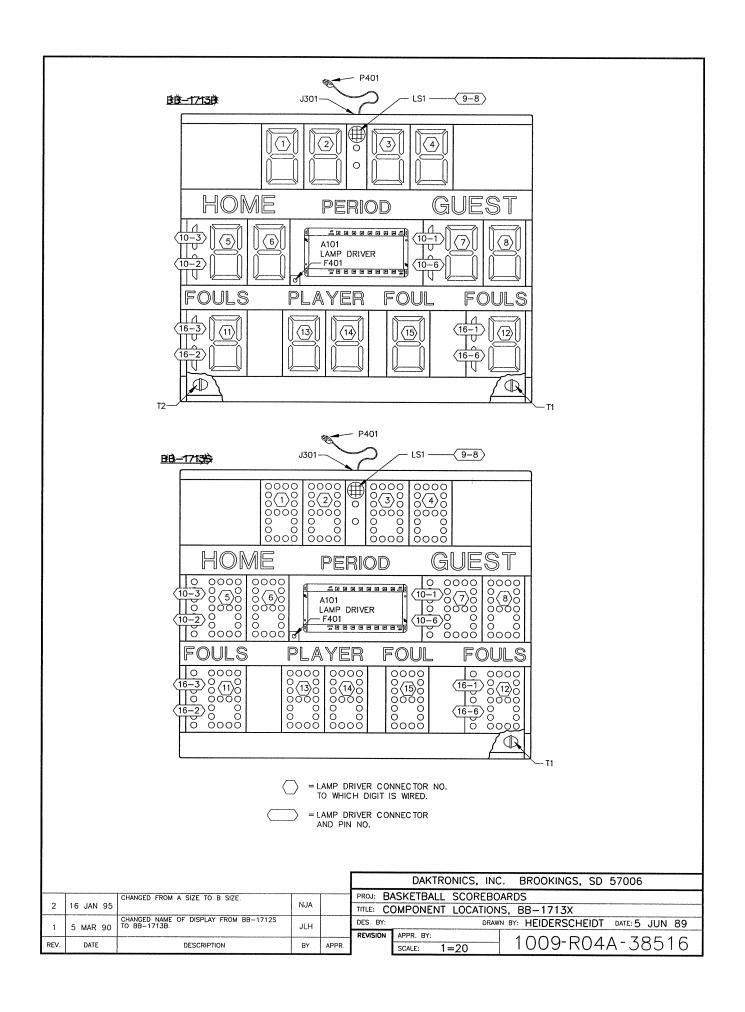


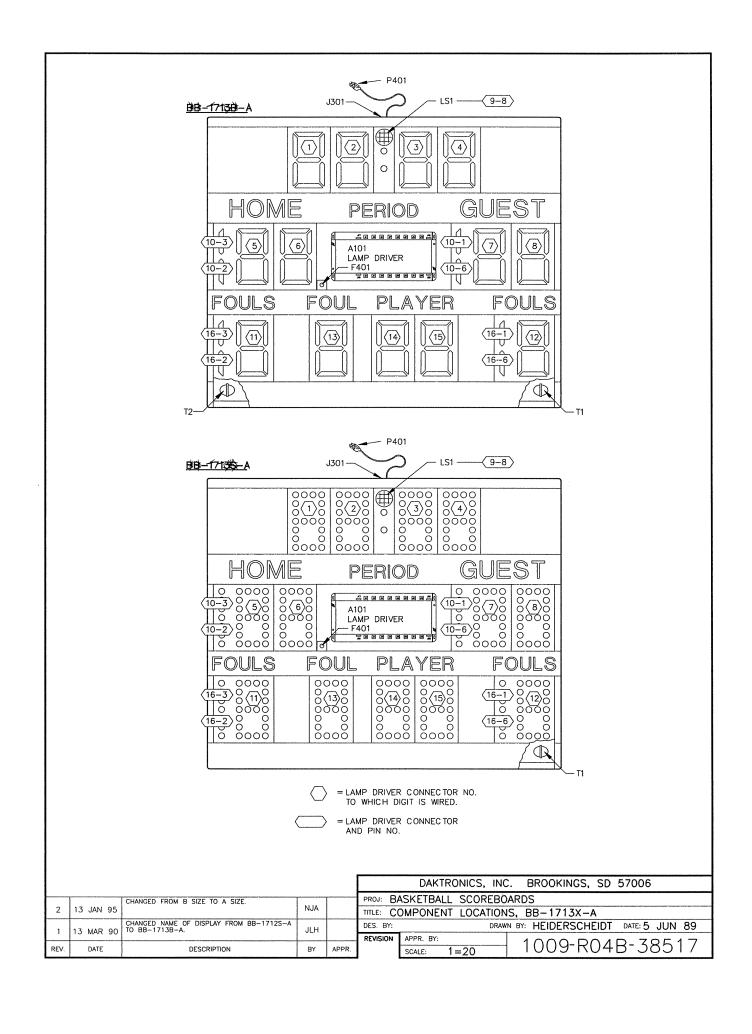
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ì					DAKTRONICS, INC. BROOKINGS, SD 57006
			T	Γ	PROJ: INDOOR SCOREBOARDS
2	25JUN91	REDRAWN ON CAD. CHANGED TO A-SIZE-V	AVB	AVB	TITLE: LAMP SERVICE, 13" 4X7 DOT MATRIX DIGIT
	10SEP86	DELETED NYLATCHES.	MHART	AVB	DES. BY: AVB DRAWN BY: W REDER DATE: 29APR86
<u></u>	IUSEFOO				REVISION APPR. BY: AVB
REV.	DATE	DESCRIPTION	BY	APPR.	02 SCALE: 1=4 1009-R10A-26872

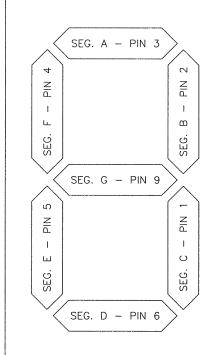




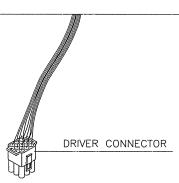








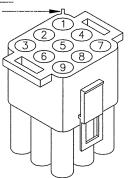
7 SEGMENT BAR DIGIT FRONT VIEW



COLOR CODE				
PIN NO.	WIRE COLOR	DRIVER SEGMENT		
1	ORN	С		
2	RED	В		
3	BRN	А		
4	BLU	F		
5	PNK	E		
6	TAN	D		
7	BLK	сом.		
8	GRY	Н		
9	VIO	G		

CONNECTOR PIN NUMBERING

NOTE SPLINE NEAR NO. 1 -



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

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1				
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	
REV.	DATE	DESCRIPTION	BY	APPR.

-			יורט		,,,	1110	,	COCK	1405,	30	37000			
	PROJ:	BAS	KETBA	ALL										
	TITLE:	SEC	SMENT	ATION,	7	SEC	MENT	BAR	DIGIT	Γ				
	DES. B	Y:				DRAW	N BY: 📙	IEIDEF	RSCHI	EIDT	DATE: 5	JUN	89	
-	REVISIO	ON .	APPR. BY:	AVB			1 ($\cap \cap$	- D	7.4	۸ _ ۷	or.	ZΩ	
1	02		SCALE:	1=4			100	109)9-R(J41	4-30	$\mathcal{S}\mathcal{O}$) _	

WARNING: DISCONNECT POWER BEFORE SERVICING DIGITS.

PROCEDURE:

- 1. REMOVE THE SCREWS SECURING THE DIGIT AND REMOVE THE DIGIT..
- 2. ROTATE LAMPHOLDER 1/4 TURN AND REMOVE IT FROM THE SOCKET PANEL.
- 3. PULL THE LAMP FROM THE LAMPHOLDER.
- 4. INSERT THE NEW LAMP.
- 5. REPLACE THE LAMPHOLDER.
- 6. REPLACE THE DIGIT AND SECURE WITH THE SCREWS.

