



10" LED Aquatic Displays

Installation/Maintenance Manual

ED 9501

ED 9501

Product #1153

Rev. 3 – 11 January, 2000

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Through Technology

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Section 1: Introduction

1.1 How to Use This Manual

This manual is designed to explain installation of Daktronics 10" LED Aquatic Displays. Details for display maintenance are also given. For questions regarding the safety, installation, operation or service of these systems, 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 to the scoreboard when it is not in use.**
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.

The box below is an illustration of Daktronics drawing numbering system. The drawing number A7087-P08A-69945 is how Daktronics identifies individual drawings. This number is located in the bottom right corner of the title box in the lower right corner of the drawing. The manual will refer to drawings by calling out the last five digits and the letter preceding them. In the example, the drawing would be referred to as ADrawing A-69945. All drawings referred to as such will be inserted at the *end of each section* they are first referenced in.

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

1.2 Scoreboard Overview

Reference Drawings: 6 Lane Systems **Drawing A-78126**
8 Lane Systems **Drawing A-78125**
10 Lane Systems **Drawing A-87530**

Each display, with the exception of the SW-810L, is built of several separate digit lines referred to as *modules*. The SW-810L model is a single line portable display. **Drawings A-78126, A-78125** and **A-87530** indicate the model numbers of each of the modules in the multi-line displays.

The 10" LED digits used to display information are large and bright enough to inform the spectators in large, well-lit facilities and are designed to provide years of maintenance-free service.

Each display is designed for indoor use only, with the exception of the SW-810L, and are intended to be permanently mounted to a wall in the pool area. This manual provides information to install the display and provide basic maintenance and service.

1.3 System Layout

Reference Drawings: Aquatics LED, Omni 6000 Layout Diagram**Drawing A-79943**
Aquatics LED, Omni 1000 Layout Diagram ..**Drawing A-119454**
A/S 4000, Code 244 Layout Diagram**Drawing A-123482**
Aquatics LED, CTS Layout Diagram.....**Drawing A-118392**
Aquatics LED, ARES or OSM6 Layout Diag. **Drawing A-118390**
Track Scbd w/Scan 'O' Vision, In Press Box **Drawing A-118391**
Track Scbd w/Finish Lynx, In Press Box.....**Drawing A-104300**

The LED scoreboard can be interfaced to a variety of timers. Identify your timer and refer to the appropriate layout diagram. The drawing has information on how to connect your timer and any restrictions for your model scoreboard and controller. Refer to the operator's manual for your controller for information on operating the controller and its scoreboard output.

Section 2: Mechanical & Electrical Installation

2.1 Installation Overview

Installation involves the following procedures:

- T Attach the caption modules to the digit modules
- T Mount the digit modules to the wall or mounting structure
- T Make master to slave connections
- T Route power and signal wires into the first master module
- T Make connections to the other master modules

These steps are described in greater detail in the following sections.

2.2 Installing Caption Modules

Reference Drawing: Caption Module Mounting **Drawing A-77446**
Caption Layout, 6-Lane Multi-Sport System **Drawing A-123319**
Caption Layout, 8 Lane Multi-Sport System. **Drawing A-124679**
Caption Layout, 10 Lane Multi-Sport System **Drawing A-124755**

Mount the caption module to the digit module **before** attaching the digit module to the wall.

The caption modules are attached to the top or bottom of a digit module with #10 machine screws and nuts (refer to **Drawing A-77446**). Before attaching the caption module, note its orientation. The top and bottom flanges for holding the caption panel are different sizes. Be sure the module is oriented so that the larger caption retainer is toward the top.

To insert a caption panel, fit the top edge of the caption under the top flange, then slide the bottom edge under the lower flange (refer to **Drawing A-77446**). The construction of the flanges allows the caption panels to be lifted out for changing, rather than having to slide them out one end. Refer to **Drawing A-123319**, **A-124679**, and **A-124755** to position the panel in the appropriate location for the position of the digits for the current sport.

2.3 Mechanical Mounting of Digit Modules

Reference Drawings: Digit Module Mounting **Drawing A-77431**

The digit modules may be mounted directly to the wall, to universal mounting struts or to some other support structure. Use 3/8" bolts through the ob-round holes in both ends of the module frame. For displays with multiple digit modules, mount the lowest module first and work upwards.

There are two (2) basic methods to mount the display: corner mounting (refer to **Section 2.3.2**) and flush wall mounting (refer to **Section 2.3.1**). Flush wall mounting requires standard bolts and anchors, found in most hardware stores. Corner mounting requires an additional bracket which can be ordered from Daktronics.

Before installing any wall anchors or mounting structure, determine where all of the mounting

holes will be located on the display modules (refer to **Drawing A-77431**). Holes are provided on the modules which should be convenient for most installations.

Other holes may be drilled through the back of the modules as needed. Care must be taken not to contact or damage internal components while drilling. Remove all metal filings that result from drilling. Also determine which digit modules will have caption modules attached and which module will be the entrance module for power and signal for the system.

2.3.1 Flush Wall Mounting

Reference Drawings: Mtg. Information, Horiz. Systems**Drawing A-86398**
Mtg. Information Vertical Systems ...**Drawing A-87803**

Horizontal Mounting

If the overall display requires that digit modules be mounted side by side, it would be impossible to access the hole in the second module on the side next to the first module.

In this case, open the front access panels by removing the screws that secure the panels at the top, and swing the panels down. A second mounting hole is located about 6" from the end of the module. Use this hole to bolt the digit module to the wall, to uni-strut or to the support structure (refer to **Drawing A-86398**).

Use 3/8" bolts at two locations (one at each end) to hold each module in place. Start with the bottom modules and work upwards.

Vertical Mounting

Select the mounting holes which are to be used. Measure the distance between the holes and mount the support structure to the wall accordingly (**Drawing A-87803** gives dimensions for the inside mounting holes). Use 3/8" bolts to hold the module in place. Mount the lowest module first, then add modules working upwards.

2.3.2 Corner Mounting of Modules

Reference Drawing: Digit Module Corner Mount **Drawing A-78436**

If the display is to be mounted across the corner of two adjoining walls, special corner mounting brackets may be ordered as an option. **Drawing A-78436** shows the procedure for this type of mounting.

Multi-line display models which use a single vertical arrangement of modules may be mounted with corner brackets. *Horizontal display configurations cannot be mounted across a corner using these simple brackets. Such displays must be attached to a structure, designed by a qualified engineer, which spans across the corner and safely supports the whole display.*

2.4 Connecting Slaves to Masters

Reference Drawings: Master to Slave Module Connections	Drawing A-77460
6 Lane Systems	Drawing A-78126
8 Lane Systems	Drawing A-78125
10 Lane Systems	Drawing A-87530

Typically on multi-line displays, odd-numbered (first, third, fifth, etc.) digit modules are *masters*, while the even-numbered (second, fourth, sixth, etc.) digit modules are *slaves* (refer to **Drawings A-78125, A-78126 and A-87530** (at the end of **Section 1**)). The master modules contain the digit drivers and power components. Cables extending from the top of a slave module must be routed into the master module above it and connected to the driver (refer to **Drawing A-77460**).

Other display models may be constructed using only with Amaster≡ modules, even though no slave module connects to them. On some horizontal systems, one or more of the *even-numbered* modules may be identified as masters. **Drawings A-78126, A-78125 and A-87530** (at the end of **Section 1**) indicate which modules are masters and which are slaves in each display. Module model numbers ending with an A-M≡ indicate master modules. Those ending with A-S≡ indicate slaves.

To connect the slave model to the master, first open the left access door of the master display. Route the harness cables from the slave through the hole located in the bottom of the master. Plug each labeled connector into the appropriate jack on the digit driver. **Note:** The connectors are all Akeyed≡. The connectors can fit into the jacks in one way only.

2.5 Connecting Power and Signal to the Display

Reference Drawings: 6 Lane Systems	Drawing A-78126
8 Lane Systems	Drawing A-78125
10 Lane Systems	Drawing A-87530
Master/Slave, Power & Signal Conn.	Drawing A-78175

Use **Drawings A-78126, A-78125 and A-87530** (at the end of **Section 1**) to determine where power and signal wires will be brought into the display and into which module. It should enter the display at the lowest master module in the system.

Open the left access panel of the selected module. Remove the backing from the tape on the flanges of the entrance plate. Press the plate firmly to the inside of the module as indicated in **Drawing A-78175**. Connect plug P1 for that module to the jack on the entrance plate.

There is no power or signal cords provided. Provide a power cord capable of handling 120/240VAC. The signal cable should be no smaller than 22 AWG. Route the power and signal to the display and terminate both at the appropriate location on the entrance plate (the terminal blocks are labeled). Secure the green grounding wire from the power cord under the earth ground lug on the entrance plate.

2.6 Connecting Power and Signal from One Module to the Next

Reference Drawing: Master/Slave, Power & Signal Connections ...**Drawing A-78175**

Each master module contains two 12-pin connectors, one male and one female (P1 and J1), which carry 120V AC power and control signal between master modules. To make power and signal available to all of the master modules in the display, connect the male plug from one **master** module to the female plug in the next **master** module. The connection will usually be located inside a slave module, as shown on **Drawing A-78175**.

Horizontal Systems Only: Use a horizontal connection cable to connect the master module containing the entrance plate to the master module across from it. Drill or punch access holes between the two modules to permit the connection of the two cabinets. Route the power for the second column up and down as described in the paragraph above.

2.7 Setting Driver Addresses

Reference Drawings: 6 Lane Systems	Drawing A-78126
8 Lane Systems	Drawing A-78125
10 Lane Systems	Drawing A-87530
Module Driver Assignments	Drawing A-78149
OMNI 6000 LED Driver Address Config.	Drawing A-87409
OMNI 1000 LED Driver Address Config	Drawing A-118393
A/S 4000, Code 244, LED Driver Address.	Drawing A-118394
CTS LED Driver Address Configuration.....	Drawing A-95016
OSM6 LED Driver Address Configuration..	Drawing A-118396
ARES LED Driver Address Configuration ..	Drawing A-118397
Scan 'O' Vision LED Driver Address	Drawing A-118398
Lynx LED Driver Address Configuration	Drawing A-118399

The driver within each master module of the system must be set to the correct *address*. This address is set by jumper wires in a 12-pin plug which mates with a jack on the driver. All master modules are equipped at the factory with a fully loaded plug. Cutting one or more of these wires sets the address for each driver.

The LED scoreboard can be interfaced to a variety of timers. Identify your timer and refer to the appropriate address configuration drawing to illustrate the address plug and the location of the mating jack on the driver (J19). This drawing also indicates which wire in the plug needs to be cut to set the address for each module.

Drawings A-78126, A-78125 and **A-87530** (at the end of **Section 1**) show the addresses (the circled numbers) for each of the master modules in the multi-line displays. Refer to **Drawing A-78149** for the correct address (listed next to each model) for any auxiliary scoring modules, which may also be included in the system.

Section 3: Maintenance & Troubleshooting



IMPORTANT NOTES:

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

3.1 LED Driver

Reference Drawings: Module Driver Assignments **Drawing A-78149**
LED Driver, 16 Column **Drawing A-87407**

The task of switching LEDs on and off is performed by the LED driver (refer to **Drawing A-87407**). Each driver has 19 connectors providing power and signal inputs/outputs to digits and indicators. The function of each of these connectors is as follows:

Connector No.	Function
1 thru 16	Output to digits and indicators
17	Control signal and power input
18	Control for horn
19	Address

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. **Drawing A-78149** (at the end of **Section 2**) shows which connector number or connector and pin number operates each digit or indicator in each display module.

3.2 Segmentation

Reference Drawing: Segmentation, 7 Segment. Bar Digit..... **Drawing A-38532**

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

3.3 Fuses

Model SW-810L has one fuse, type MDL-22, to protect the 120V circuits. Multi-line displays have one fuse, type MDA-10, to protect 120V wiring.

Replace fuses only with fuses of the same type and rating.

3.4 Component Location and Access

Reference Drawings: Master to Slave Module Connections**Drawing A-77460**
Component Locations for SW-810L.....**Drawing A-78898**

Drawings A-77460 (at the end of **Section 2**) and **A-78898** (SW-810L) show front views of the display models covered in this manual and the locations of the various components. The component numbers correspond to the schematic.

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

3.5 Schematic

Reference Drawings: Schematic, Power & Signal, 120/240V **Drawing A-76572**
Schematic, Power & Signal, SW-810L..... **Drawing A-77820**

Drawings A-76572 (multi-line models) and **A-77820** (model SW-810L) are the schematic diagrams of the power and signal inputs and all wiring. Use the switch, S1, inside the module to change the display to use 240VAC power. The default setting is 120VAC.

#DISCONNECT POWER BEFORE SERVICING DISPLAY.

Disconnect power when the display is not in use. Prolonged power-on may shorten the life of some electronic components.

3.6 Troubleshooting

This section lists some symptoms that may be encountered with the scoreboard. For these symptoms, possible cause and corrective actions are indicated. This list does not include every possible problem, but does represent some of the more common situations that may occur.

Symptom/Condition	Possible Cause
Scoreboard will not light	<ul style="list-style-type: none">▪ Console not connected or poor connection▪ No power to control console▪ No power to the scoreboard▪ Driver fuse blown▪ Main fuse blown
Garbled display	<ul style="list-style-type: none">▪ Internal driver logic malfunction▪ Control console malfunction
Digit will not light	<ul style="list-style-type: none">▪ Black wire to digit broken▪ Poor contact at driver connection.▪ Driver malfunction
Segment will not light	<ul style="list-style-type: none">▪ Broken LED or connection▪ Driver shift register failure▪ Broken wire between lamp driver and digit▪ Poor contact at driver connector.
Segment stays lit	<ul style="list-style-type: none">▪ Driver shift register failure▪ Short circuit on digit

3.7 Replacement Parts List

To prevent loss due to theft, Daktronics recommends purchasing a lockable cabinet to store manuals and replacement/spare parts. Refer to the appropriate supplementary manual for a complete list of replacement parts.

Description	Part Number
Fuse MDL-2 ½	F-1002
Fuse, MDA-10	F-1030
Fuse-holder; panel mount	X-1032
Horn; 120 VAC 60Hz LS1	DS-1040
Plug; ¼" phone	P-1041
Junction Box; Phone Jack	0A-1009-0038
LED Driver	0P-1150-0018

3.8 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.

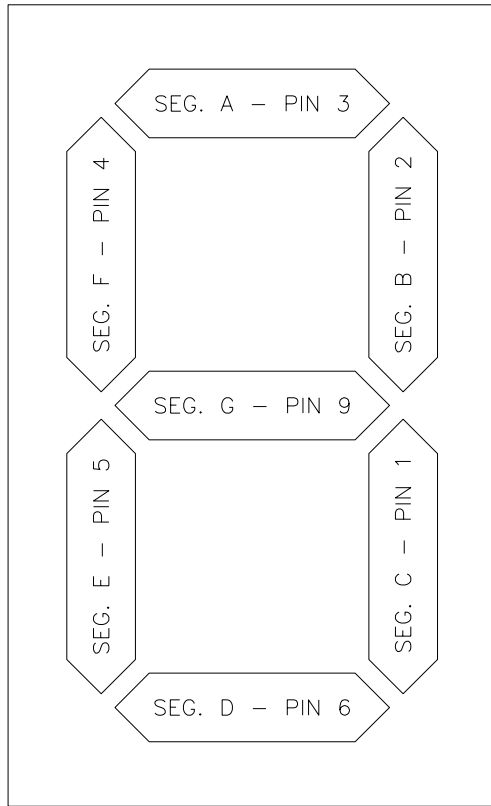
Packaging for Return: Package and pad the item well so that it will not be damaged in shipment. Electronic components such as printed circuit boards should either be installed in an enclosure or should be put in an anti-static bag before boxing. Please enclose your name, address, phone number and a clear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

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

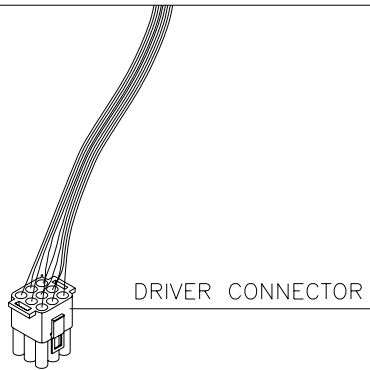
Phone: Daktronics Help Desk: 1-800/843-9879
or 1-605/697-4400

Customer Service Fax: 1-605-697-4444

e-mail: helpdesk@daktronics.com



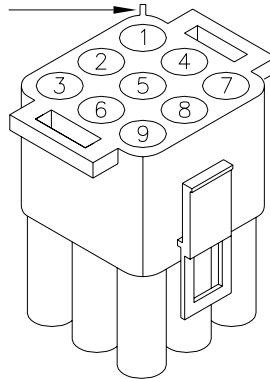
7 SEGMENT BAR DIGIT
FRONT VIEW



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.

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DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: BASKETBALL

TITLE: SEGMENTATION, 7 SEGMENT BAR DIGIT

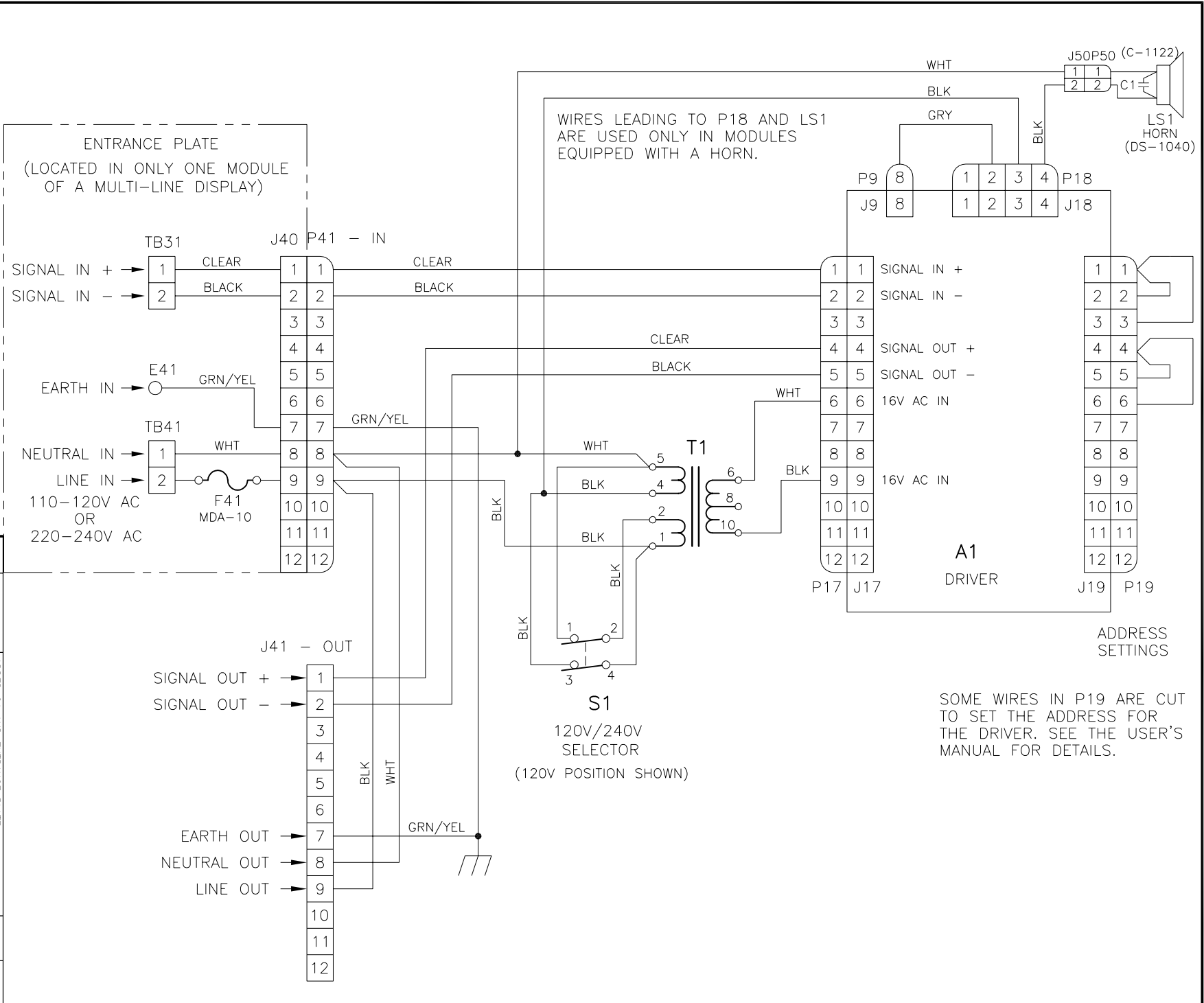
DES. BY: DRAWN BY: HEIDERSCHIEDT DATE: 5 JUN 89

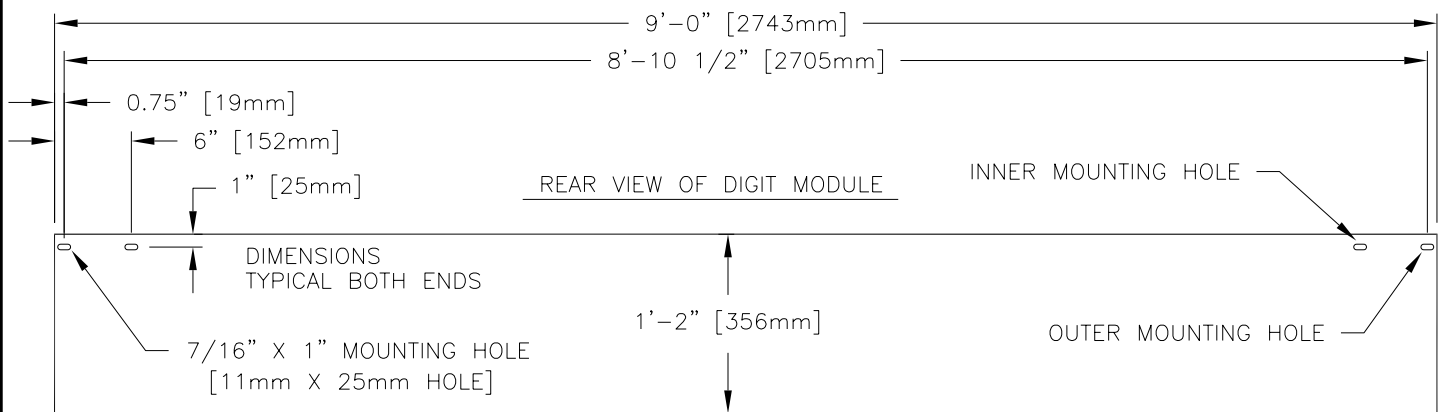
REVISION 02 APPR. BY: AVB SCALE: 1=4 1009-R04A-38532

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	

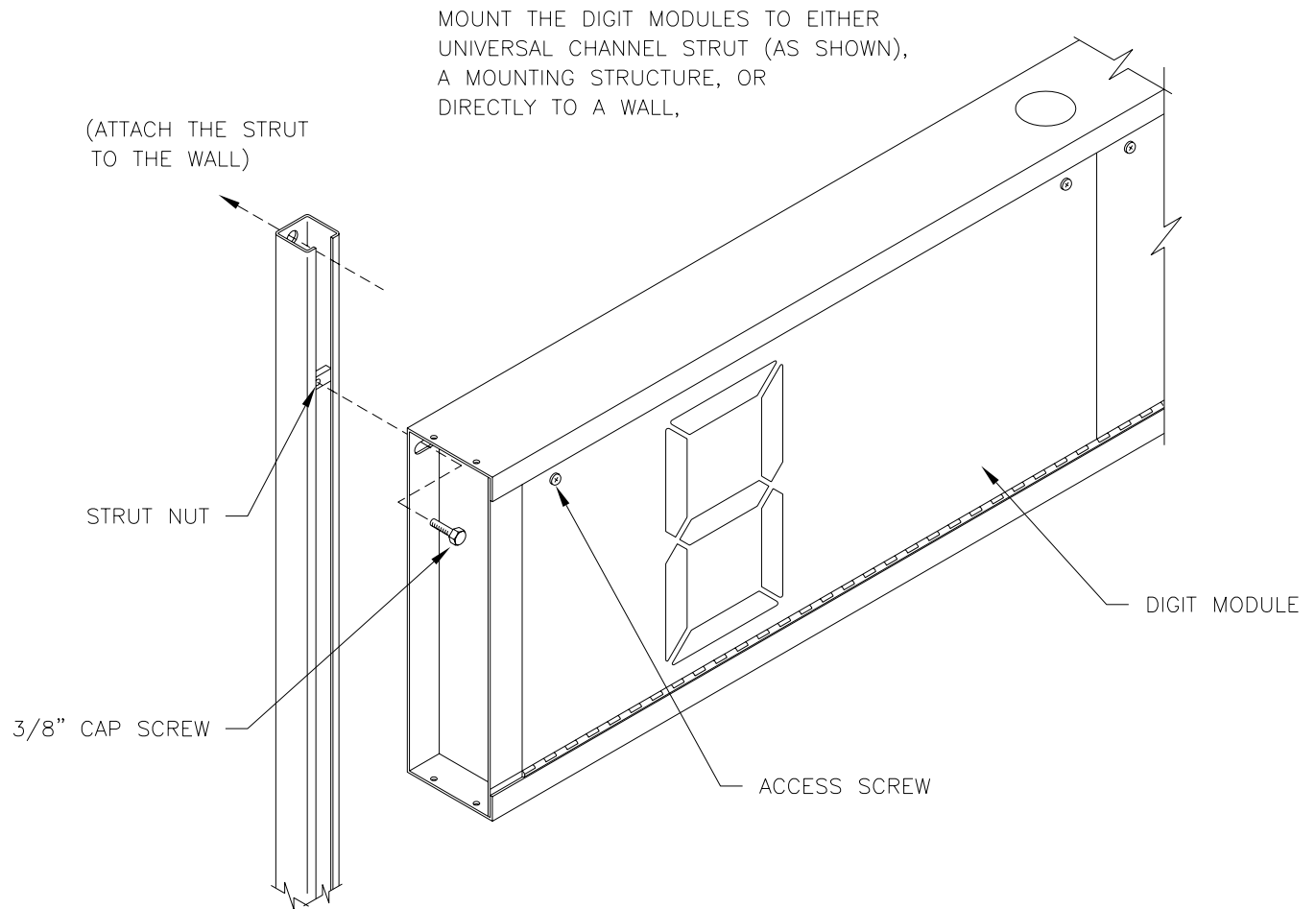
REV.	DATE	DESCRIPTION	BY	APPR.
2	24JAN96	CHANGED J19 & P19 FROM 12-PIN TO 5-PIN	AVB	AVB
3	25OCT96	CHANGED J19 & P19 FROM 5 PIN TO 12 PIN	RDA	RDA
4	8NOV96	REMOVED THIRD ADDRESS FROM P19.	RDA	RDA
5	5JUN01	ADDED PLUG & JACK FOR HORN	RASMUS	CMC

PROJ:	LED AQUATICS DISPLAYS
TITLE:	SCHEMATIC, POWER AND SIGNAL, 120/240V DISPLAY
DES. BY:	A VANBEMMEL
DRAWN BY:	A VANBEMMEL
DATE:	12DEC95
REVISION	APPR. BY:
SCALE:	NONE
1	05JAN95
ADDED S1 AND ENTRANCE PLATE CHANGED FROM 120V TO 120/240V	
DAKTRONICS, INC. BROOKINGS, SD 57006	
AVB	
1153-R03A-76572	





USE THE OUTER MOUNTING HOLES FOR MOST SITUATIONS. IF ACCESS TO THE OUTER HOLE IS RESTRICTED, OPEN THE FACE OF THE MODULE AND USE THE INNER MOUNTING HOLES.
 SELECT THE MOUNTING METHOD BEST SUITED TO THE FACILITY.
 SECURE THE DIGIT MODULES WITH 3/8" (9 TO 10 MM) HARDWARE.
 START WITH THE LOWEST MODULE IN THE SYSTEM, AND WORK UP.



MOUNT THE DIGIT MODULES TO EITHER UNIVERSAL CHANNEL STRUT (AS SHOWN), A MOUNTING STRUCTURE, OR DIRECTLY TO A WALL,

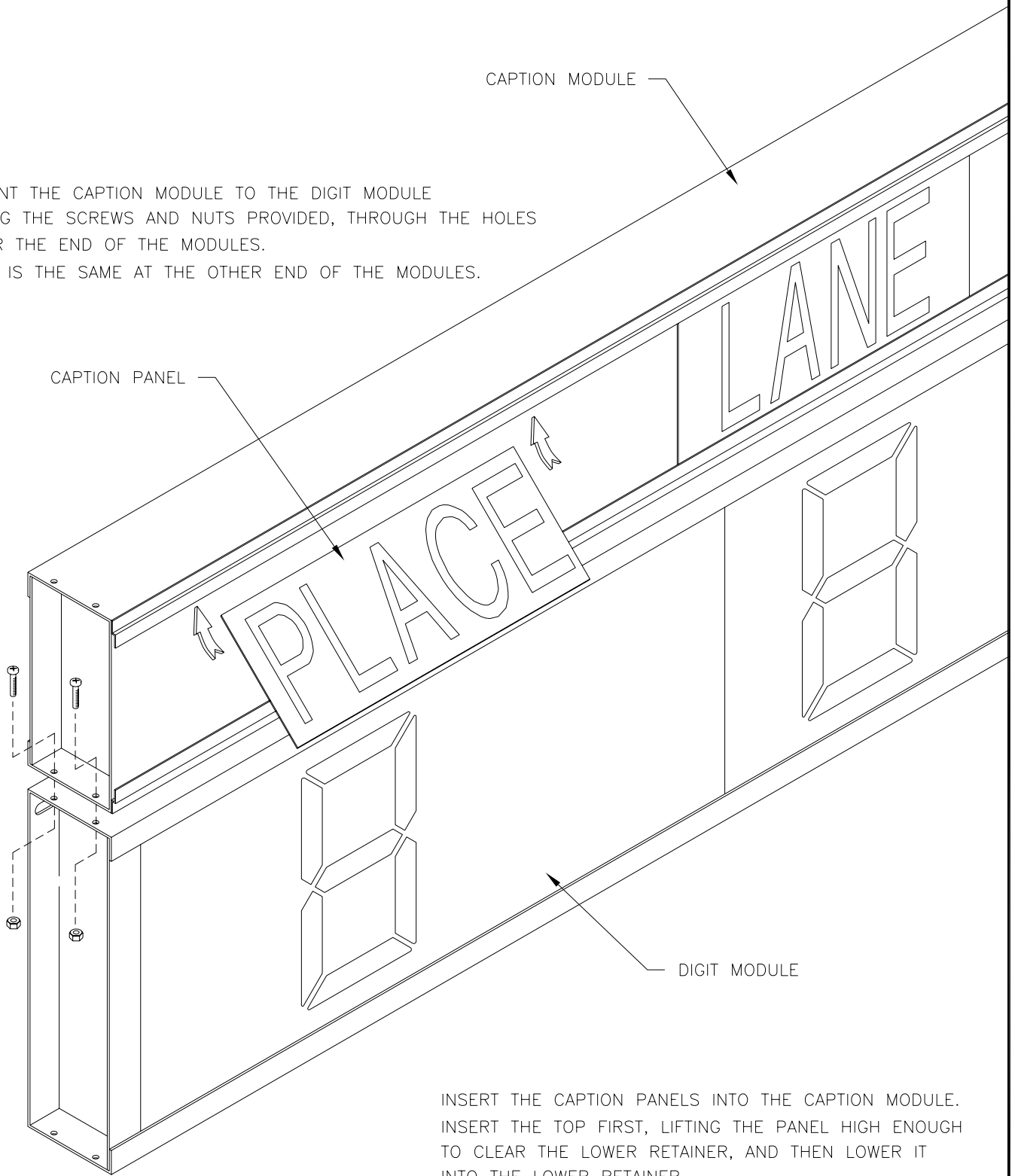
DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED AQUATICS DISPLAYS	
TITLE: DIGIT MODULE MOUNTING	
DES. BY: AVB	DRAWN BY: A VANBEMMEL DATE: 08NOV95
REVISION	APPR. BY: NONE
1153-E10A-77431	

1	23 OCT 96	CHG DIM BETWEEN OBROUNDS TO 8'-10 1/2"	JEM	
REV.	DATE	DESCRIPTION	BY	APPR.

CAPTION MODULE

MOUNT THE CAPTION MODULE TO THE DIGIT MODULE USING THE SCREWS AND NUTS PROVIDED, THROUGH THE HOLES NEAR THE END OF THE MODULES. THIS IS THE SAME AT THE OTHER END OF THE MODULES.

CAPTION PANEL



DIGIT MODULE

INSERT THE CAPTION PANELS INTO THE CAPTION MODULE. INSERT THE TOP FIRST, LIFTING THE PANEL HIGH ENOUGH TO CLEAR THE LOWER RETAINER, AND THEN LOWER IT INTO THE LOWER RETAINER.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED AQUATICS DISPLAYS

TITLE: CAPTION MODULE MOUNTING

DES. BY: AVB

DRAWN BY: A VANBEMMEL

DATE: 11DEC95

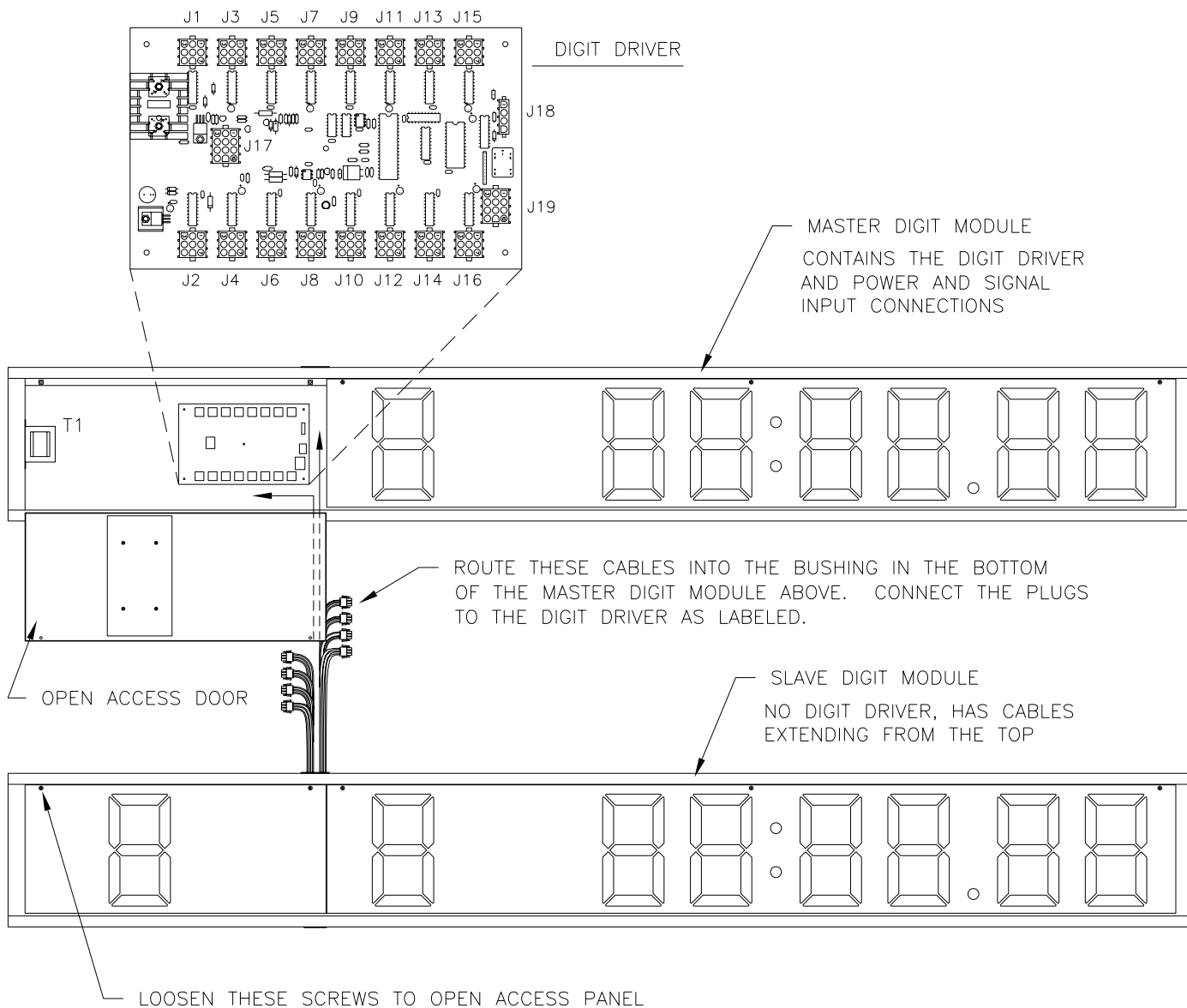
REVISION

APPR. BY:

SCALE: 1=6

1153-R10A-77446

REV.	DATE	DESCRIPTION	BY	APPR.

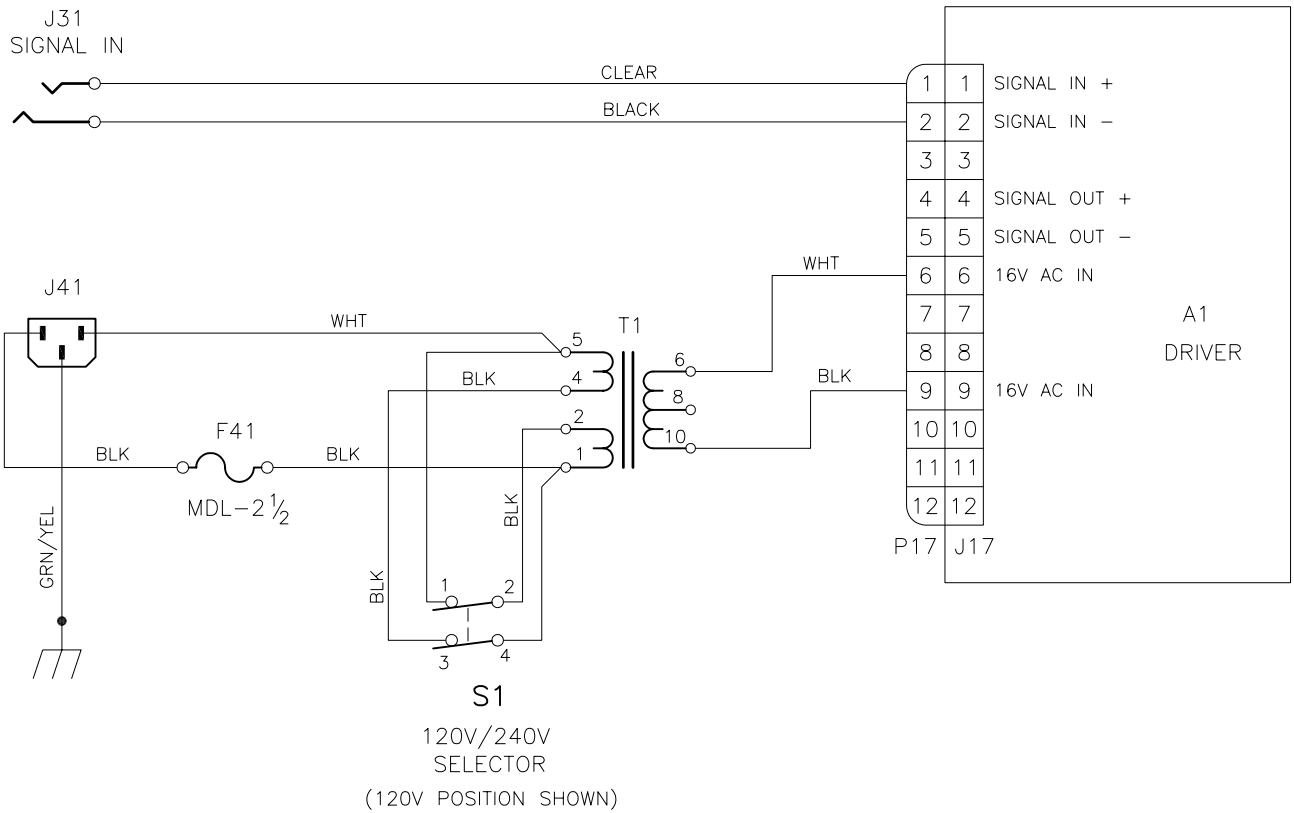


DIGIT MODULE MODEL NUMBERS PLT-810L-M AND PL-T810L-S ARE SHOWN. MASTER DIGIT MODULE MODEL NUMBERS END WITH -M, WHILE SLAVE MODULE MODEL NUMBERS END IN -S.

OTHER DIGIT MODULE MODELS MAY HAVE MASTER AND SLAVE VERSIONS. CHECK THE DRAWING FOR THE SPECIFIC SYSTEM TO DETERMINE WHICH MODEL NUMBERS ARE USED, AND TO DETERMINE THEIR PROPER ARRANGEMENT.

3	15 OCT 96	CHG DRIVER FROM 0P-1150-0008 TO -0018	JEM	
2	8 MAR 96	UPDATED DRIVER APPEARANCE	JEM	AVB
1	22 FEB 96	CHANGED DRIVER APPEARANCE	JEM	AVB
REV.	DATE	DESCRIPTION	BY	APPR.

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED AQUATICS DISPLAYS			
TITLE: MASTER TO SLAVE MODULE CONNECTIONS			
DES. BY: AVB		DRAWN BY: A VANBEMMEL DATE: 11DEC95	
REVISION	APPR. BY: AVB	1153-R10A-77460	
	SCALE: 1=15		



DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED AQUATICS DISPLAYS

TITLE: SCHEMATIC, POWER & SIGNAL, SW-810L

DES. BY:

DRAWN BY: A VANBEMMEL DATE: 27DEC95

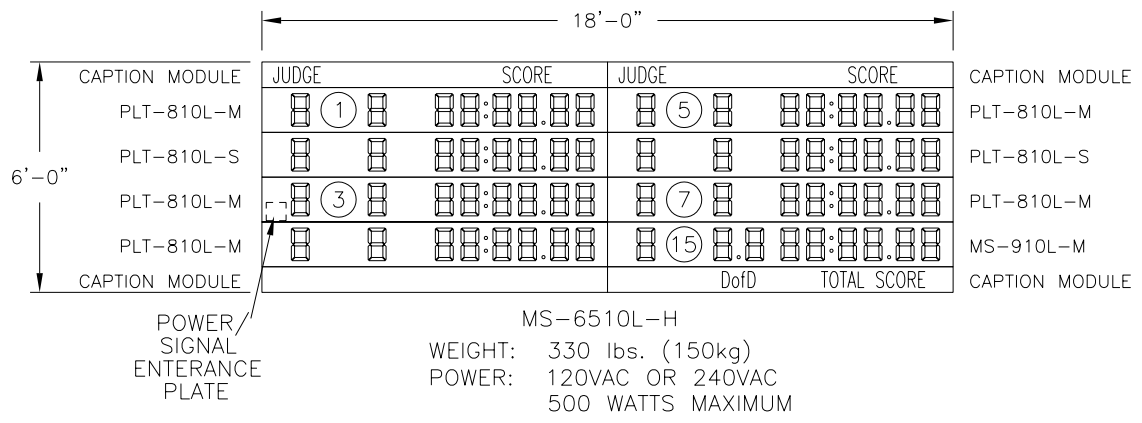
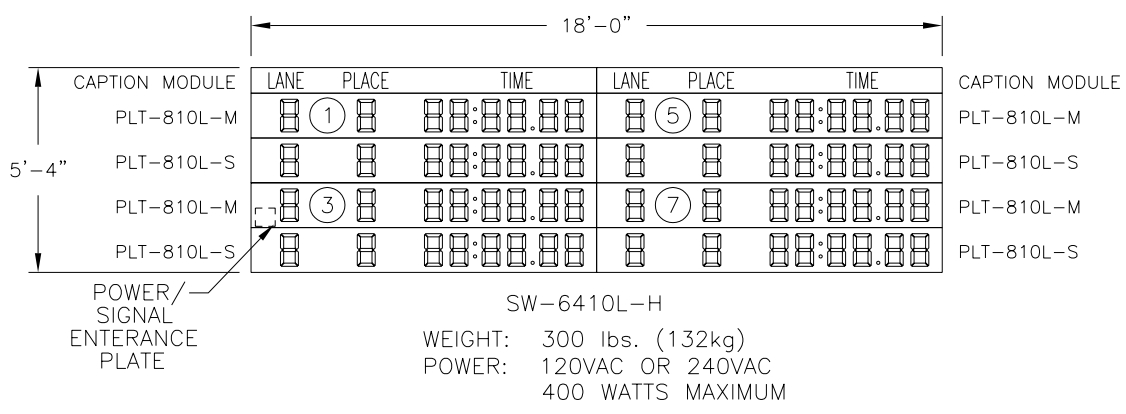
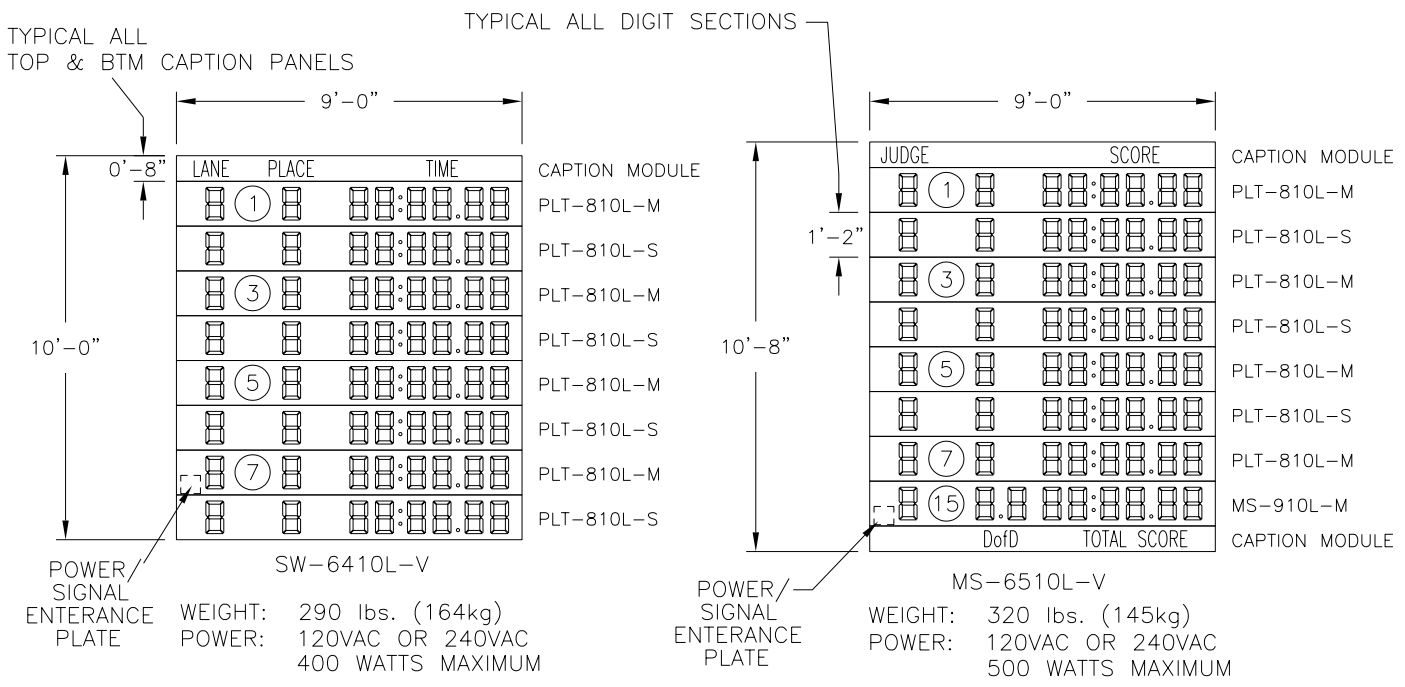
REVISION

APPR. BY:

SCALE: NONE

1153-R03A-77820

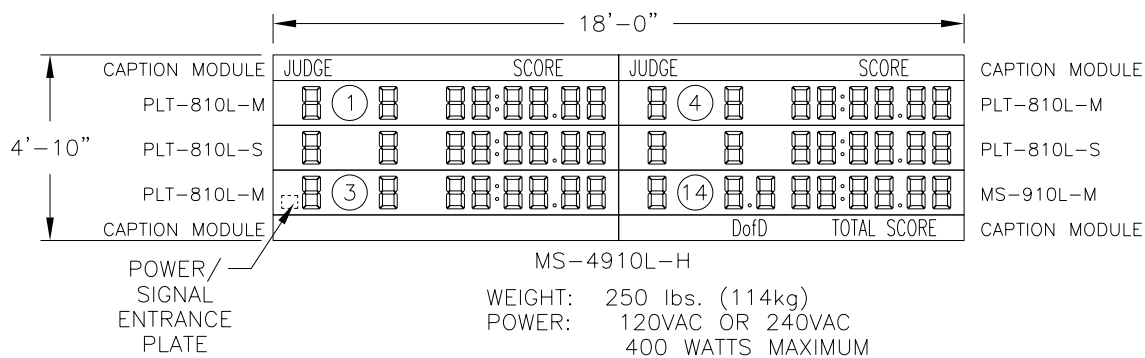
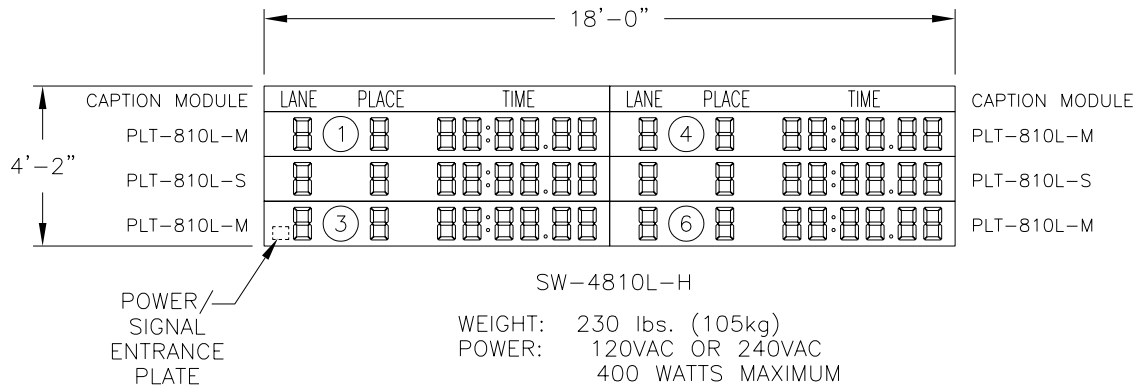
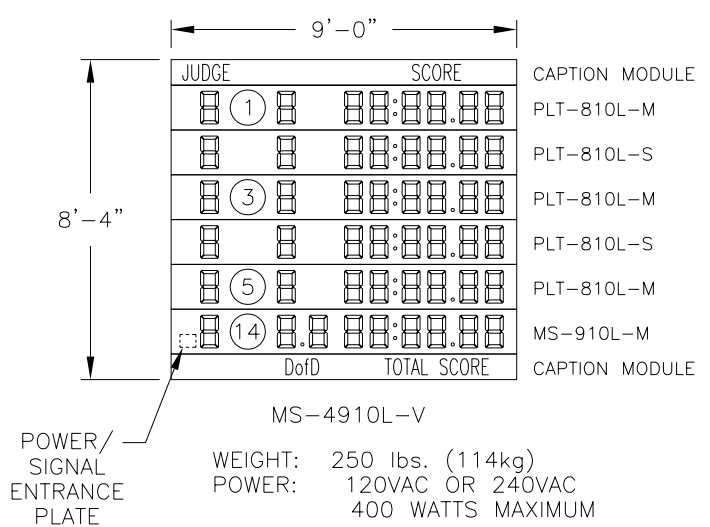
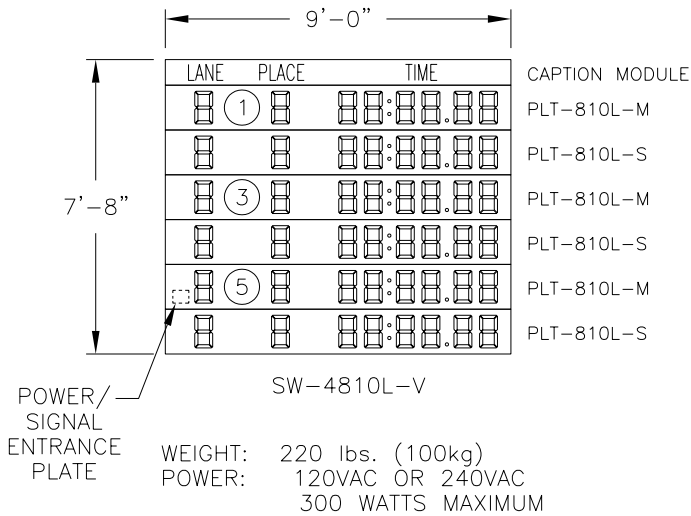
REV.	DATE	DESCRIPTION	BY	APPR.



NUMBERS WITHIN THE CIRCLES INDICATE THE ADDRESSES FOR THE MODULES. SEE DRAWING 1153-R06A-87409 FOR ADDRESS SETTING INFORMATION.

REV.	DATE	DESCRIPTION	BY	APPR.
2	03 MAY 99	SWAPPED DISPLAY LOCATIONS.	HBB	
1	22OCT96	REMOVED MS-4810L-H & MS-4810L-V AND ADDED SW-6410L-H AND SW-6410L-V	DMC	

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED AQUATICS DISPLAYS			
TITLE: 8 LANE SYSTEMS			
DES. BY: AVB		DRAWN BY: JMOEN	
		DATE: 9 JAN 96	
REVISION	APPR. BY:	1153-R04A-78125	
	SCALE: 1=60		



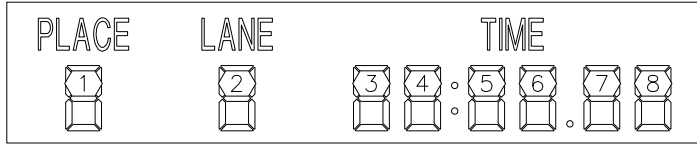
NUMBERS WITHIN THE CIRCLES INDICATE THE ADDRESSES FOR THE MODULES. FOR ADDRESS SETTING INFORMATION SEE DRAWING 1153-R06A-87409.

3	03 MAY 99	SWAPPED DISPLAY LOCATIONS AND UPDATED CAPTION HEADINGS.	HBB		DAKTRONICS, INC. BROOKINGS, SD 57006	
2	08 MAR 99	CHNG ADDRESS SETTINGS FOR THE MODULES. CHNG: MS-4910L-H MODULE #5 TO #4. SW-4810L-H MODULE #5 TO #4 AND #7 TO #6.	MWJ		PROJ: LED AQUATICS DISPLAYS	
1	23 OCT 96	DEL MS-6510L-V & MS-6510L-H ADDED SW-4810L-V & SW-4810L-H CHANGED REFERENCE DRAWING	JEM		TITLE: 6 LANE SYSTEMS	
REV.	DATE	DESCRIPTION	BY	APPR.	DES. BY: AVB	DRAWN BY: JMOEN
					DATE: 9 JAN 96	
					REVISION	APPR. BY:
					SCALE: 1=60	1153-R04A-78126

LANE PLACE TIME

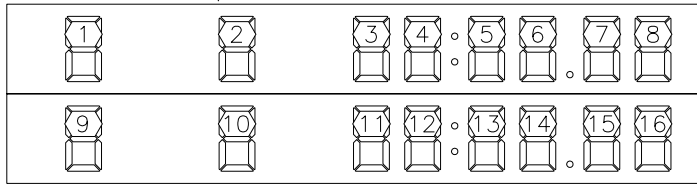
CAPTION MODULE

SINGLE LANE TIMING



SW-810L

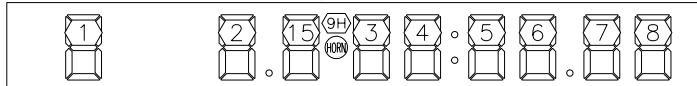
BASIC MASTER/SLAVE TIMING MODULES



PLT-810L-M

PLT-810L-S

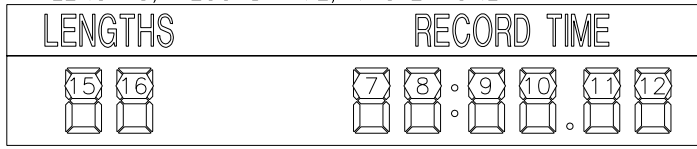
MULTISPORT LAST LINE, MASTER ONLY



MS-910L-M

POSITION D OF D SCORE

LENGTHS, RECORD TIME, MASTER ONLY



CAPTION MODULE

LRT-810L-M

SCORING, MASTER



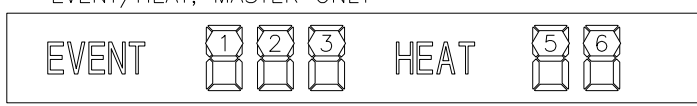
HG-610L-M

SCORING, SLAVE



HG-610L-S

EVENT/HEAT, MASTER ONLY



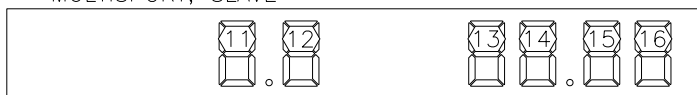
EH-510L

RECORD TIME, MASTER ONLY



RT-610L

MULTISPORT, SLAVE



MS-610L-S

ADDR NO.	ADDRESS NUMBER FOR USE WITH DAKTRONICS TIMER
0	ONE-LINE TIMING
1	LINE #1 & 2 MULTILINE
2	LINE #2 & 3 MULTILINE
3	LINE #3 & 4 MULTILINE
4	LINE #4 & 5 MULTILINE
5	LINE #5 & 6 MULTILINE
6	LINE #6 & 7 MULTILINE
7	LINE #7 & 8 MULTILINE
8	LINE #8 & 9 MULTILINE
9	LINE #9 & 10 MULTILINE
10	NOT ASSIGNED
11	Record Time, Event, Heat
12	Home, Guest, Guest, Guest
13	Running Time
14	LINE #6, Multisport w/horn
15	LINE #8, Multisport w/horn
16	NOT ASSIGNED
17	NOT ASSIGNED
18	NOT ASSIGNED
19	NOT ASSIGNED
20	NOT ASSIGNED

ADDR NO.	ADDRESS NUMBER FOR USE WITH CTS TIMER
0	NOT ASSIGNED
1	LINE #1 & 2 MULTILINE
2	LINE #2 & 3 MULTILINE
3	LINE #3 & 4 MULTILINE
4	LINE #4 & 5 MULTILINE
5	LINE #5 & 6 MULTILINE
6	LINE #6 & 7 MULTILINE
7	LINE #7 & 8 MULTILINE
8	LINE #8 & 9 MULTILINE
9	LINE #9 & 10 MULTILINE
10	LINE #10 MULTILINE
11	Record Time, Lengths/Time
12	Event/Heat
13	NOT ASSIGNED
14	NOT ASSIGNED
15	ONE-LINE TIMING
16	NOT ASSIGNED
17	NOT ASSIGNED
18	NOT ASSIGNED
19	NOT ASSIGNED
20	Home, Guest, Guest, Guest

ⓐ = DRIVER CONNECTOR WIRED TO THAT DIGIT
 ⓑ = DRIVER CONNECTOR & SEGMENT DESIGNATION FOR THE FUNCTION

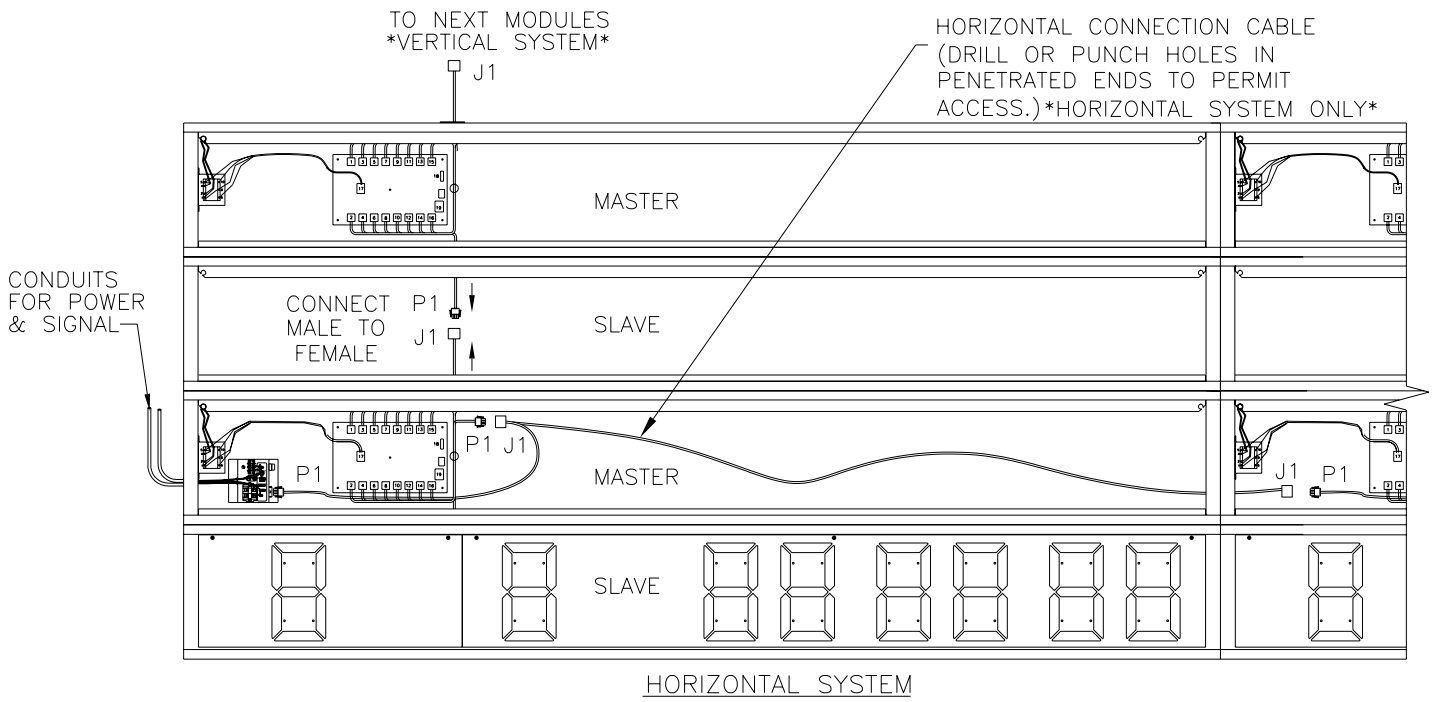
SEE DRAWING A-87409 & A-95016 FOR ADDRESS SETTING INFORMATION

REV.	DATE	DESCRIPTION	BY	APPR.
6	17 JUL 98	CORRECTED DIGIT NUMBERING ON MS-610L-S	AVB	AVB
5	18JUN98	ADDED CAPTION PANEL TO MS-910L-M AND CHANGED MS TO MULTISPORT.	DDL	
4	31MAR98	CHANGED DIGIT NUMBERING ON LRT-810L-M	DDL	
3	23JUL97	ADD ADDRESS CONFIG. FOR DAKTRONICS & CTS.	MWJ	
2	24 OCT 96	ADDED MS-610L-S & LRT-810L-M CHG LAYOUT TO THAT A-65854	JEM	
1	26JUN96	ADDED RT-610L	AVB	AVB

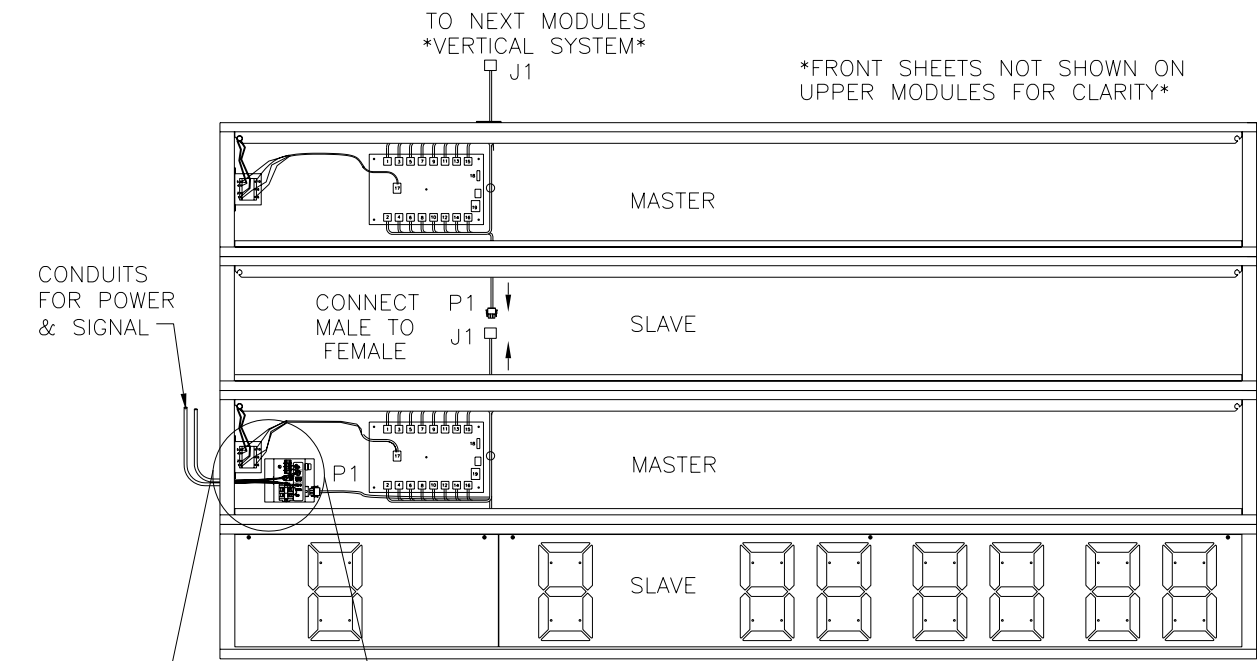
DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED AQUATICS DISPLAYS
 TITLE: MODULE DRIVER ASSIGNMENTS
 DES. BY: AVB DRAWN BY: AVB DATE: 10 JAN 96

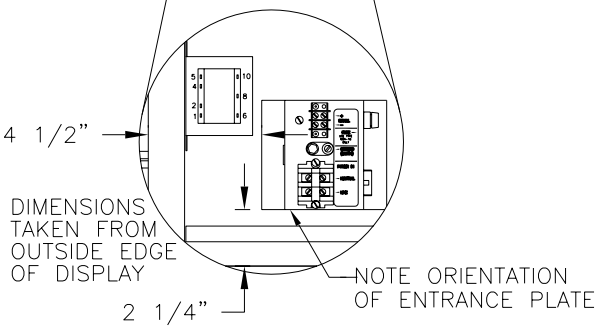
REVISION	APPR. BY:	1153-R04A-78149
	SCALE: 1=30	



HORIZONTAL SYSTEM



VERTICAL SYSTEM

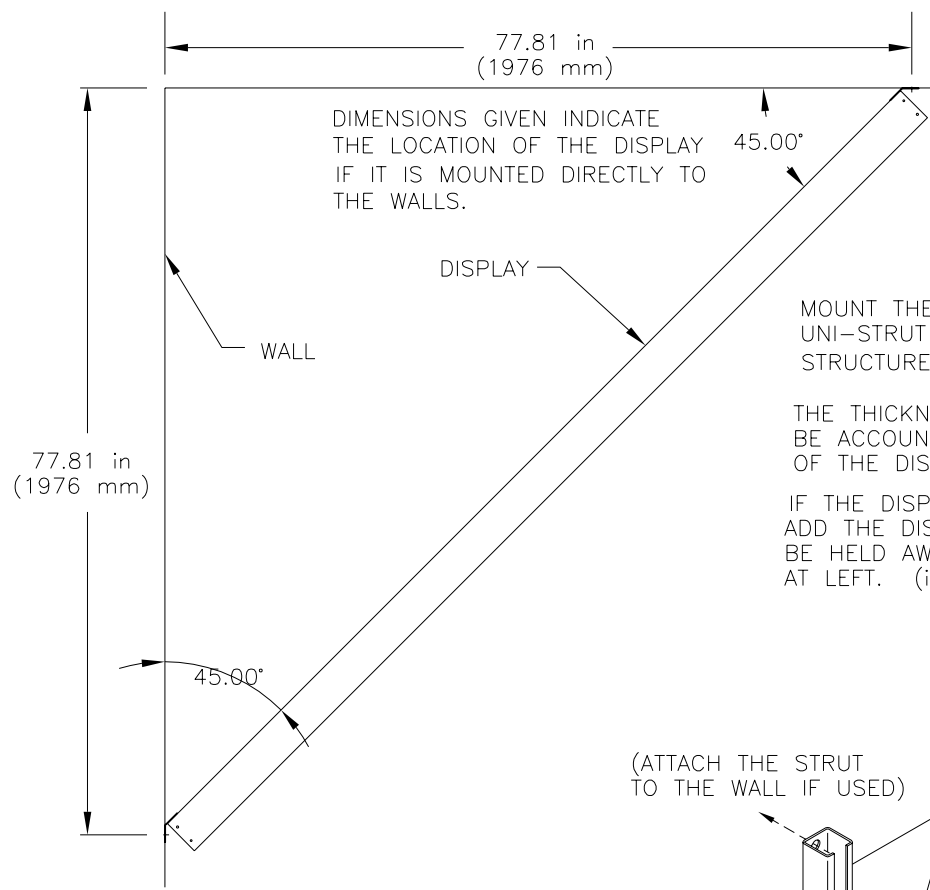


1. REMOVE BACKING FROM TAPE ON FLANGES OF ENTRANCE PLATE. PRESS PLATE FIRMLY TO INSIDE OF LOWEST MASTER MODULE IN SYSTEM AT LOCATION INDICATED. *ONE ENTRANCE PLATE IS REQUIRED PER SCOREBOARD LOCATION.
2. INSERT MALE PLUG FROM DRIVER INTO FEMALE JACK LOCATED IN ENTRANCE PLATE.
3. DRILL OR PUNCH HOLE IN RIGHT SIDE OF CABINET FOR POWER & SIGNAL ACCESS.
4. CONNECT MALE TO FEMALE FROM EACH MASTER MODULE INSIDE SLAVE CABINETS AS SHOWN.
5. **IN HORIZONTAL SYSTEMS ONLY** USE HORIZONTAL CONNECTION CABLE TO CONNECT MASTER WITH ENTRANCE PLATE TO THE MASTER MODULE LOCATED ACROSS FROM IT. DRILL OR PUNCH ACCESS HOLE IN ENDS OF CONNECTING CABINETS.
6. CONNECT MALE TO FEMALE AS IN STEP 4 FOR RIGHT SIDE OF SYSTEM.

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED AQUATICS DISPLAYS			
TITLE: MASTER/SLAVE, POWER & SIGNAL CONNECTIONS			
DES. BY: AVB		DRAWN BY: JMOEN	
DATE: 10 JAN 96			
REVISION	APPR. BY:	1153-R04A-78175	
	SCALE: 1=20		

2	29 OCT 96	ADDED VERTICAL & HORIZONTAL SYSTEM DIAGRAMS UPDATED HORIZONTAL CONNECTION CABLE	JEM	
1	22 FEB 96	UPDATED DRIVERS	JEM	AVB
REV.	DATE	DESCRIPTION	BY	APPR.

REV.	2	31 OCT 96	ADDED NOTE CONCERNING HOW TO DETERMINE DISTANCE WHEN NOT MOUNTING AGAINST WALL	JEM	
	1	7 MAY 96	ADDED HARDWARE NOTE	JEM	AVB
					APPR.



DIMENSIONS GIVEN INDICATE THE LOCATION OF THE DISPLAY IF IT IS MOUNTED DIRECTLY TO THE WALLS.

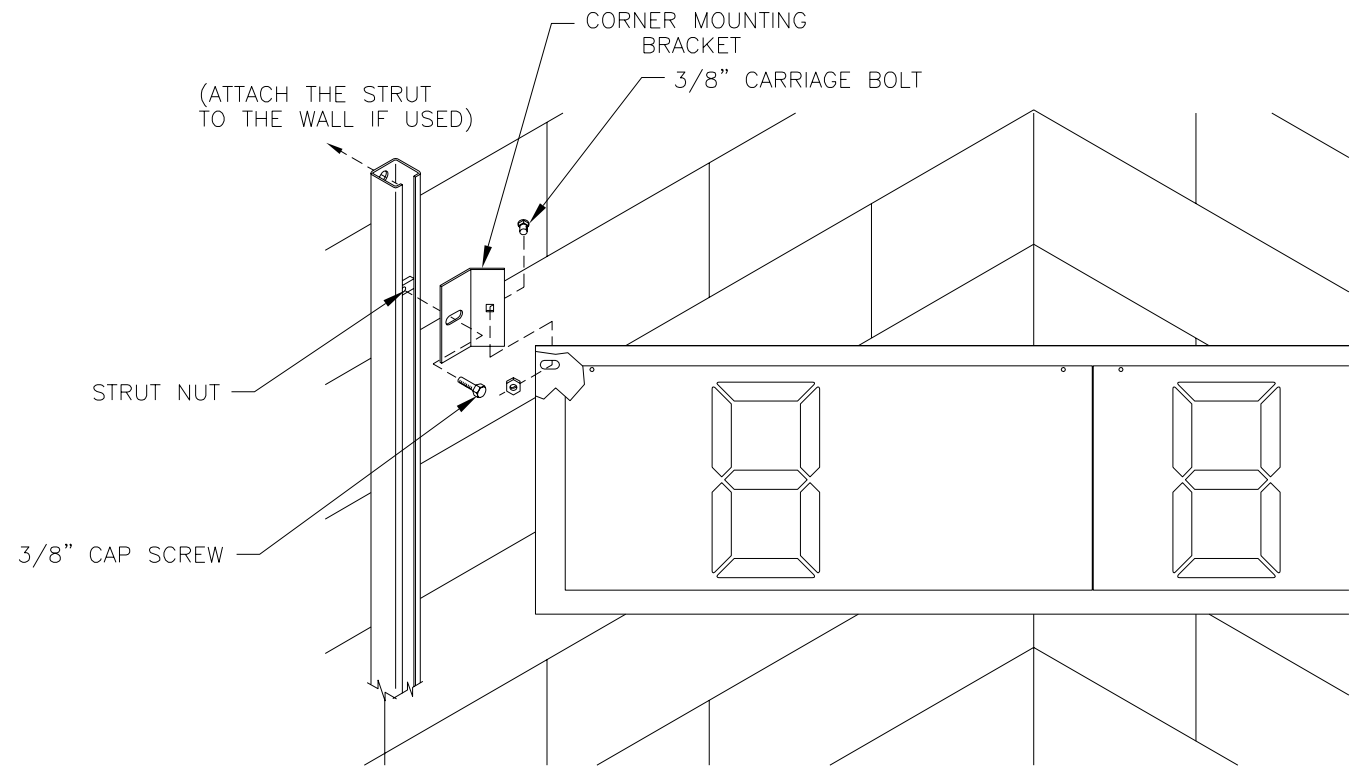
ATTACH EACH MODULE IN THE SYSTEM TO THE MOUNTING STRUCTURE. DO NOT RELY ON THE SCREWS THAT ARE USED TO INTERCONNECT THE MODULES TO SUPPORT EACH MODULE'S WEIGHT.

MOUNT THE DIGIT MODULES TO EITHER UNI-STRUT (AS SHOWN BELOW), A MOUNTING STRUCTURE, OR DIRECTLY TO THE WALLS.

THE THICKNESS OF THE MOUNTING STRUCTURE MUST BE ACCOUNTED FOR WHEN DETERMINING THE LOCATION OF THE DISPLAY FROM THE CORNER OF THE WALLS.

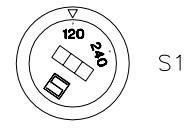
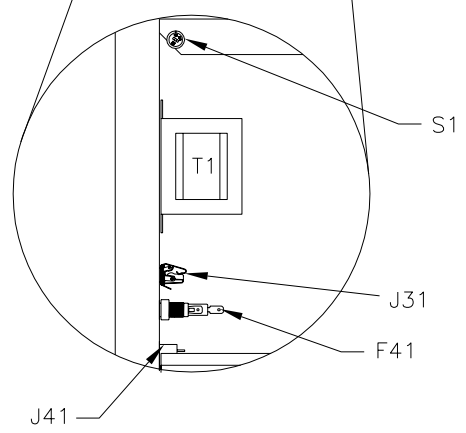
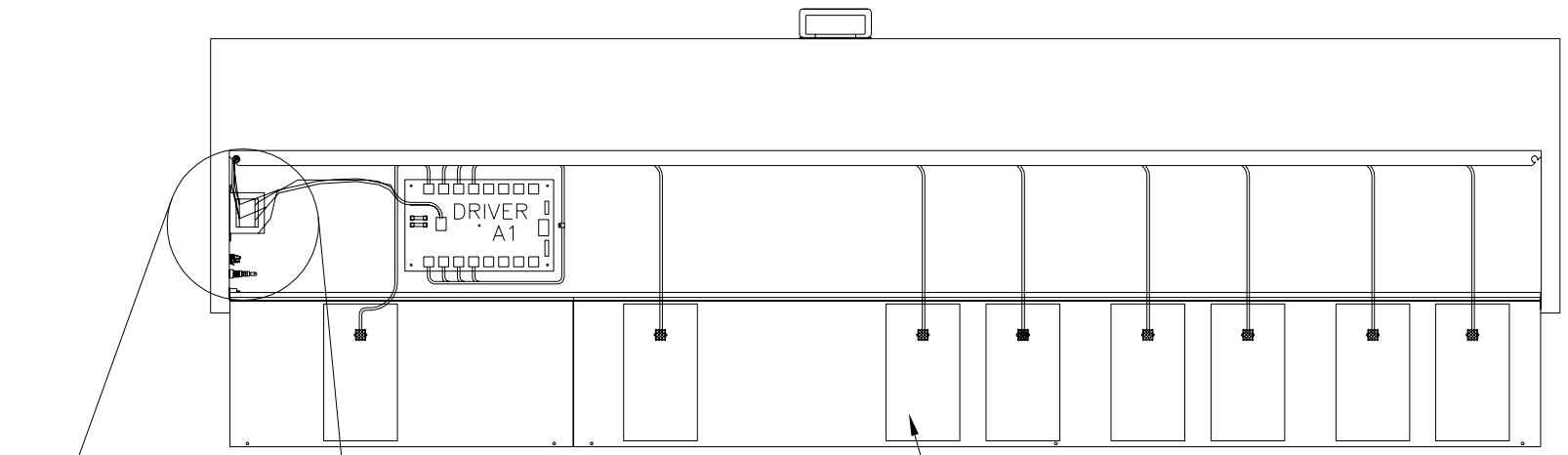
IF THE DISPLAY IS TO BE MOUNTED AT 45° ANGLES (AS SHOWN) ADD THE DISTANCE THE CORNER MOUNTING BRACKET WILL BE HELD AWAY FROM THE WALLS TO THE DIMENSIONS GIVEN AT LEFT. (i.e. IF 2" STRUT IS USED, 77.81 + 2.00 = 79.81".)

THE MOUNTING BRACKET, CARRIAGE BOLT AND ITS RELATED HARDWARE ARE INCLUDED IN THE MOUNTING KIT. STRUT, CAP SCREW, ETC. ARE NOT INCLUDED.

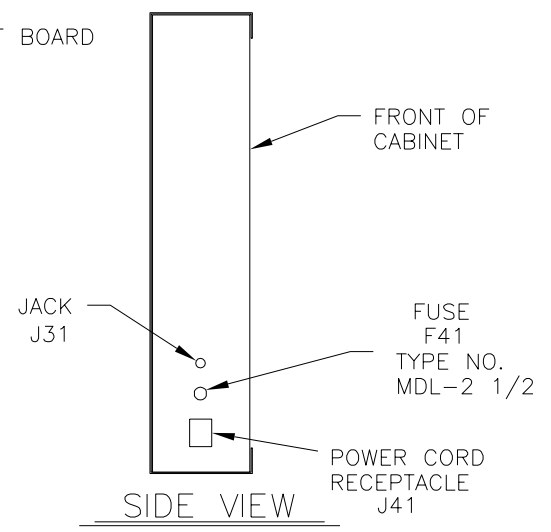


PROJ: LED AQUATICS DISPLAYS		DAKTRONICS, INC. BROOKINGS, SD 57006	
TITLE: DIGIT MODULE CORNER MOUNTING		DES. BY: AVB	
DRAWN BY: JMOEN		DATE: 23 JAN 96	
REVISION	APPR. BY:	SCALE:	
	NONE		
1153-R08A-78436			

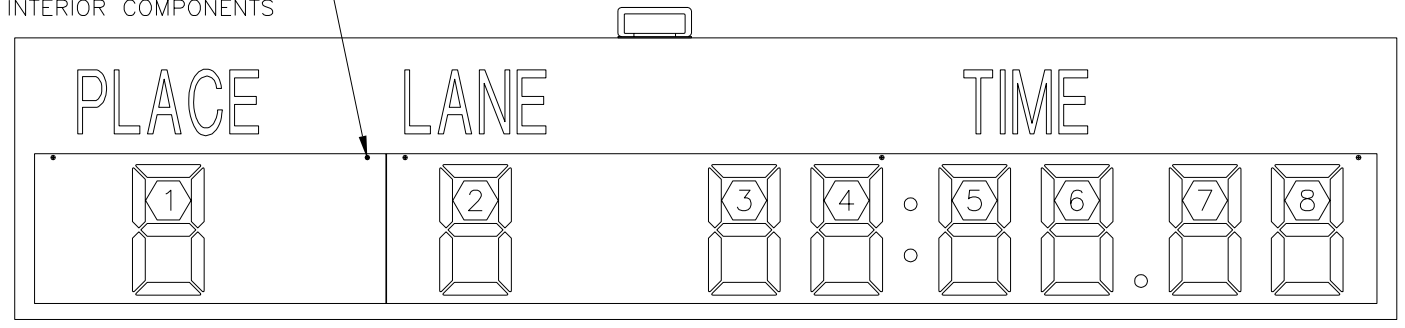
REV.	DATE	DESCRIPTION	BY	APPR.



S1, THE 120/240 SWITCH IS PRESET AT THE FACTORY FOR THE CORRECT VOLTAGE. IF THE POSITION OF THE SWITCH IS INCORRECT, A SMALL SCREWDRIVER CAN BE USED TO TURN THE SWITCH TO ITS CORRECT LOCATION.

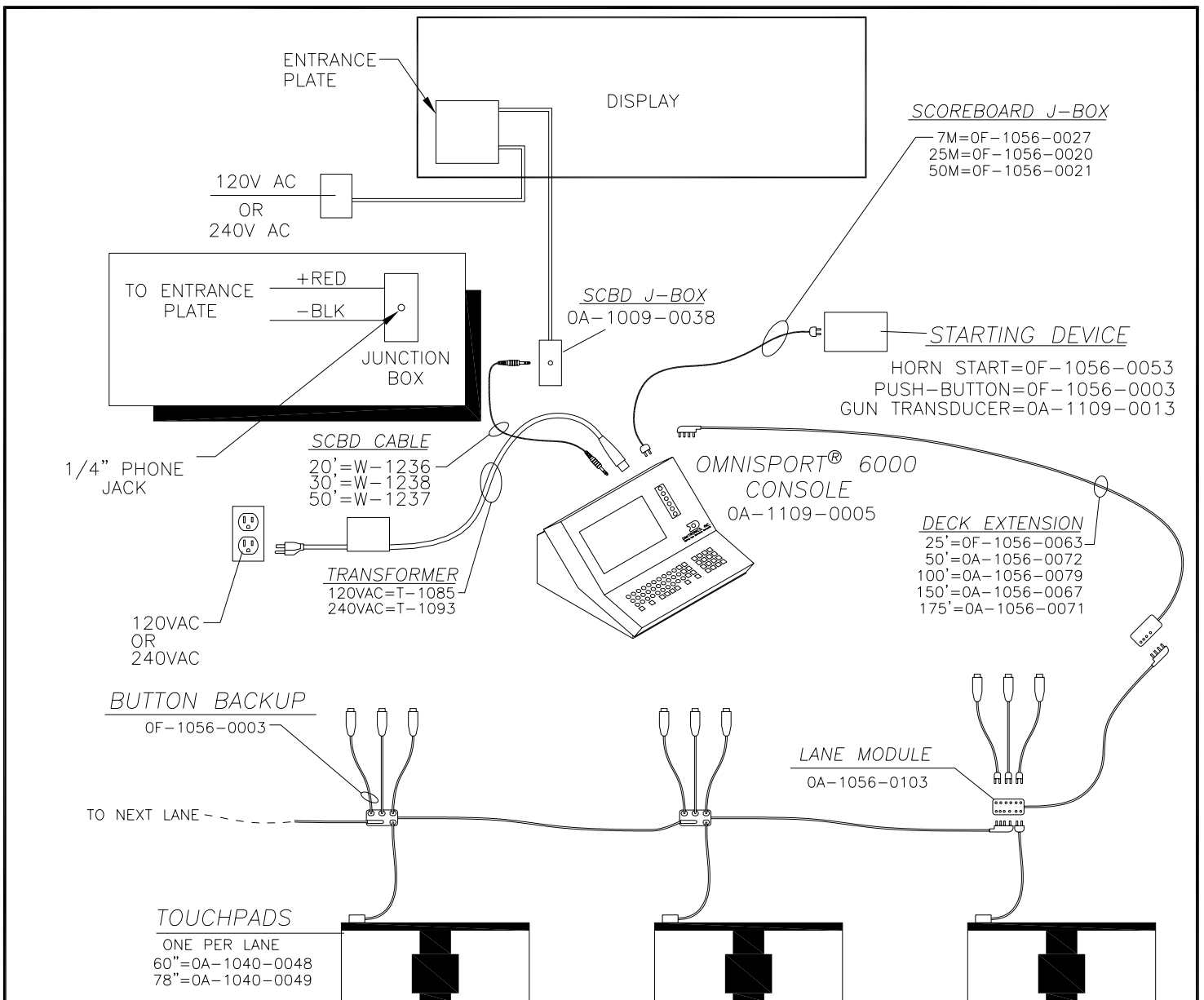


LOOSEN THESE SCREWS TO GAIN ACCESS TO INTERIOR COMPONENTS



= DRIVER CONNECTOR WIRED TO THAT DIGIT

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED AQUATICS DISPLAYS	DATE: 5 FEB 96
TITLE: COMPONENT LOCATIONS FOR SW-810L	DRAWN BY: JMOEN
DES. BY: AVB	APPR. BY: 1153-R04A-78898
REVISION	SCALE: 1=15



MODEL	OMNI 6000 SEE NOTE 1
SW-810L	SINGLE LINE
SW-4810L-V	MULTI-LINE
SW-4810L-H	MULTI-LINE
SW-6410L-V	MULTI-LINE
SW-6410L-H	MULTI-LINE
SW-8010L-V	MULTI-LINE
SW-8010L-H	MULTI-LINE
MS-1510L	SINGLE LINE
MS-4410L-V	MULTI-LINE
MS-4410L-H	MULTI-LINE
MS-6510L-V	MULTI-LINE
MS-6510L-H	MULTI-LINE
MS-8110L-V	MULTI-LINE
MS-8110L-H	MULTI-LINE
EH-510L	MULTI-LINE
HG-610L-M	MULTI-LINE
HG-610L-S	MULTI-LINE
RT-610L	MULTI-LINE
LRT-810L	MULTI-LINE

NOTE:

IF BOTH MULTI-LINE & SINGLE LINE ARE NEEDED, USE J5 FOR SINGLE LINE, J6 FOR MULTI-LINE, ORDER TWO J-BOXES AND 0A-1109-0030 CABLE.

4	28 NOV 99	CHANGED NOTES AND TABLE	JDB
---	-----------	-------------------------	-----

REV.	DATE	DESCRIPTION	BY	APPR.
3	20 JULY 99	REMOVED EXCESS DATA	HBB	
2	25 JAN 99	CHANGED LINE DESIGNATION	JSO	
1	23 JUNE 98	ADDED PART NUMBERS	CJB	

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED AQUATICS DISPLAYS	
TITLE: AQUATICS LED, OMNI6000 LAYOUT DIAGRAM	
DES. BY: AVB	DATE: 8 MAR 96
REVISION	APPR. BY:
	SCALE: NONE
1153-R03A-79943	

"Y" DIM WILL VARY BY SCOREBOARD MODEL

12.00

DASHED LINE REPRESENTS OUTLINE OF DISPLAY

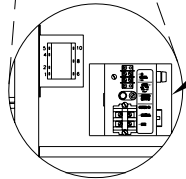
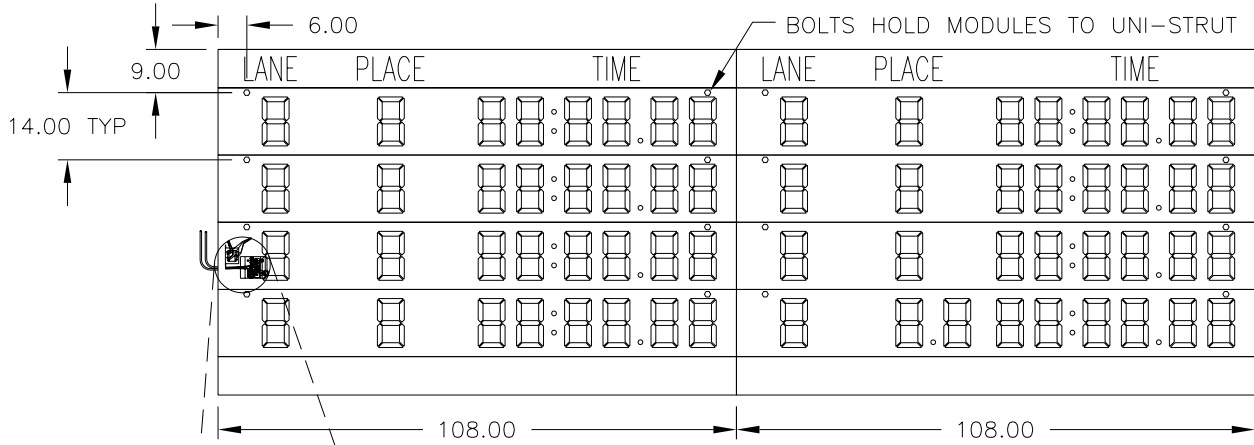
"Y"

UNI-STRUT OR EQUIVALENT STRUCTURE MOUNTED TO WALL BY CUSTOMER. PLACEMENT ON WALL AND MOUNTING METHODS MAY VARY BY FACILITY AND WALL CONSTRUCTION

96.00

96.00

204.00



POWER ENTRANCE
SEE INSTALLATION MANUAL DRAWING 1153-R03A-76572 FOR ELECTRICAL CONNECTIONS.

HORIZONTAL SYSTEM

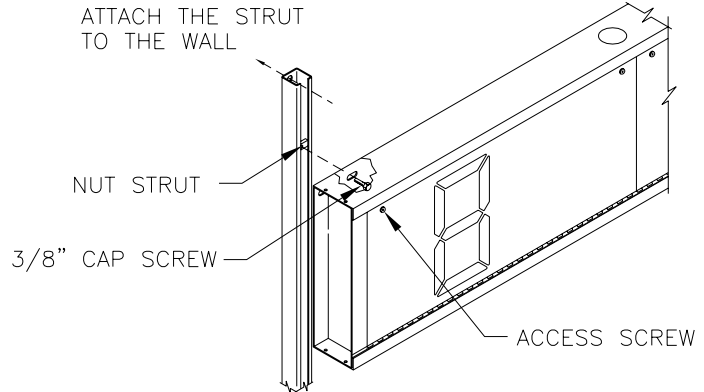


CAPTION PANELS FASTEN TO THE MODULES AT THESE LOCATIONS.

BOLTS HOLD MODULES TO THE UNI-STRUT AT TWO LOCATIONS PER MODULE.

LEFT SIDE

MOUNTING DETAIL



DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED AQUATICS DISPLAYS	
TITLE: MOUNTING INFORMATION, HORIZONTAL SYSTEMS	
DES. BY:	DRAWN BY: JMOEN
	DATE: 31 OCT 96
REVISION	APPR. BY:
	SCALE: 1=40
1153-R04A-86398	

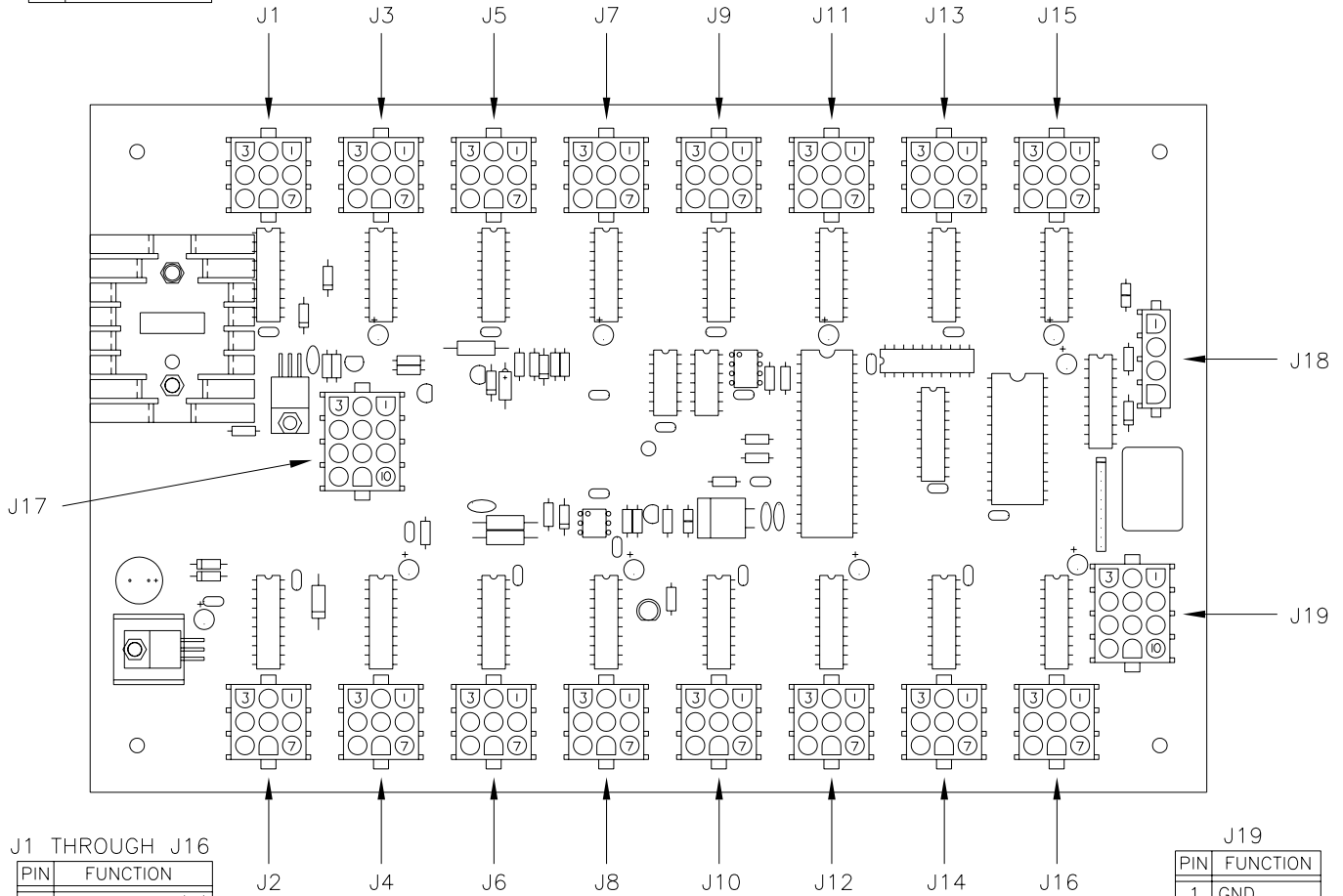
REV.	DATE	DESCRIPTION	BY	APPR.
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J17

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

01 27 MAR 97

ADDED TABLES TO DESCRIBE FUNCTIONS IN EACH JACK.

AVB

REV.

DATE

DESCRIPTION

BY

APPR.

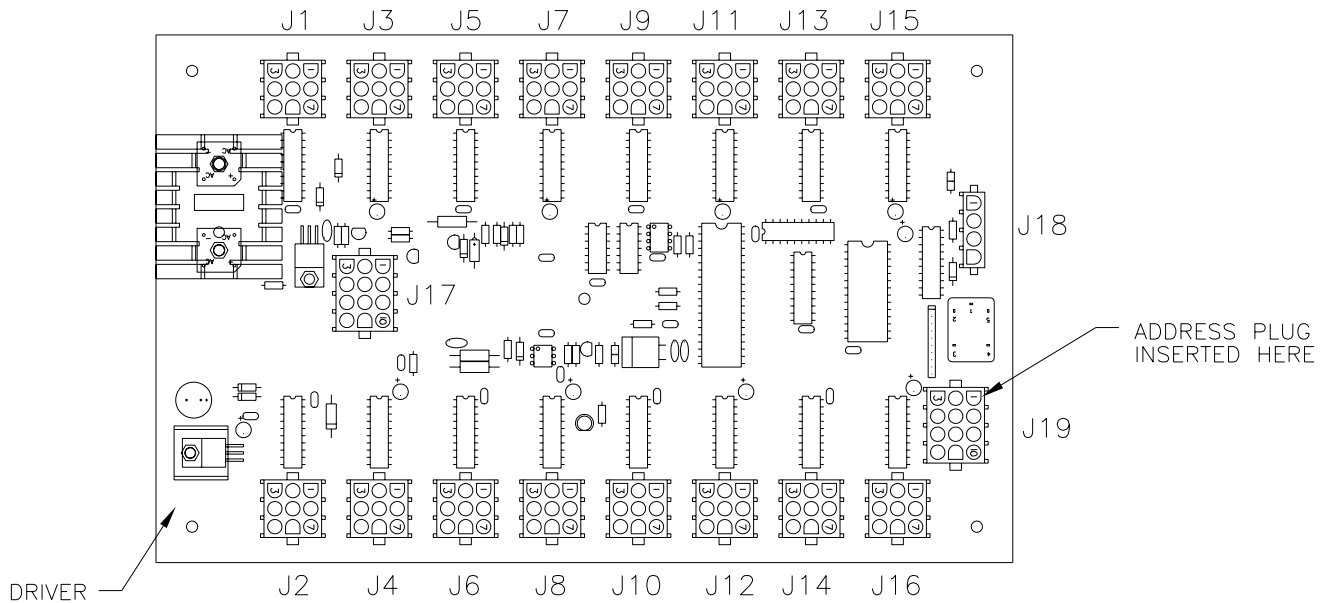
REVISION

01

APPR. BY:

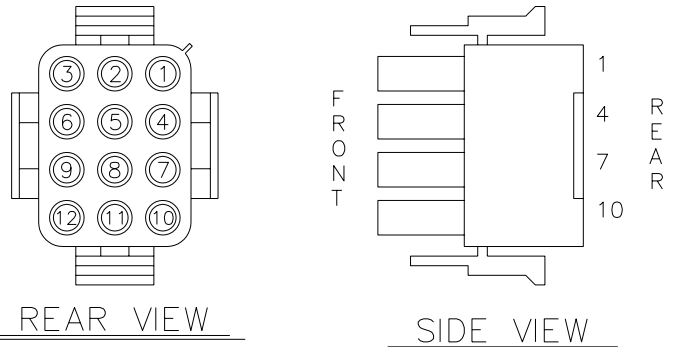
SCALE: 1=2

1150-R04A-87407



THE ADDRESS PLUG, P19, IS INSERTED INTO J19.

ALL WIRES ARE IN PLACE BEFORE INSTALLATION. DURING INSTALLATION, CUT THE APPROPRIATE WIRES IN THE ADDRESS PLUGS TO SET THE ADDRESS FOR EACH DRIVER, ACCORDING TO THE TABLE BELOW AND DISPLAY CONFIGURATION DRAWINGS.



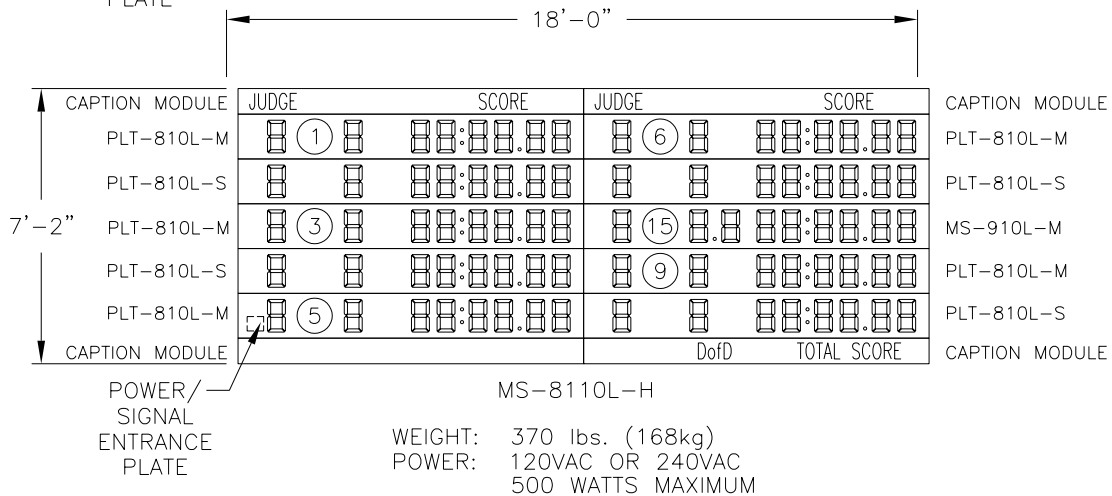
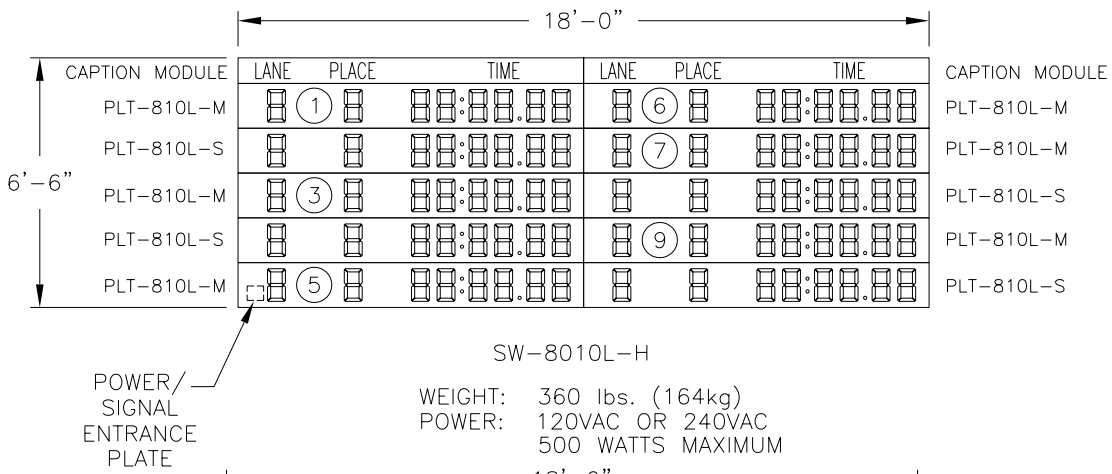
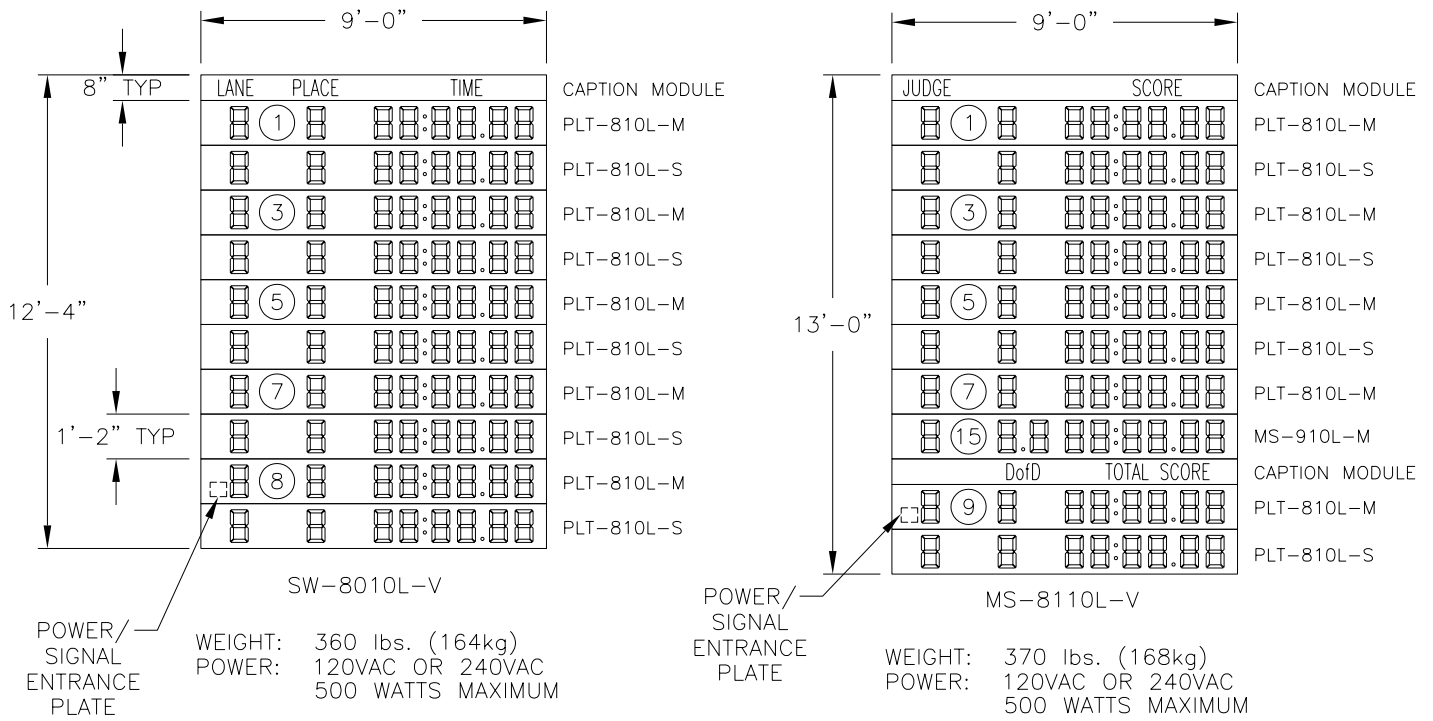
ADDRESS PLUG
USE 0A-1153-0032

ADDRESS SETTINGS AS USED WITH OMNISPORT 6000

LED ADDRESSABLE DRIVER ADDRESS CONFIGURATION										NOTES
ADDR	PIN 2	PIN 3	PIN 5	PIN 6	PIN 8	PIN 9	PIN 11	PIN 12	FUNCTION	
0	CUT	CUT	CUT	CUT	CUT	CUT	CUT	CUT	ONE-LINE TIMING	NO PLUG INSTALLED
1		CUT	CUT	CUT	CUT	CUT	CUT	CUT	LINE #1 & 2 MULTILINE	
2	CUT		CUT	CUT	CUT	CUT	CUT	CUT	LINE #2 & 3 MULTILINE	
3			CUT	CUT	CUT	CUT	CUT	CUT	LINE #3 & 4 MULTILINE	
4	CUT	CUT		CUT	CUT	CUT	CUT	CUT	LINE #4 & 5 MULTILINE	
5		CUT		CUT	CUT	CUT	CUT	CUT	LINE #5 & 6 MULTILINE	
6	CUT			CUT	CUT	CUT	CUT	CUT	LINE #6 & 7 MULTILINE	
7				CUT	CUT	CUT	CUT	CUT	LINE #7 & 8 MULTILINE	
8	CUT	CUT	CUT		CUT	CUT	CUT	CUT	LINE #8 & 9 MULTILINE	
9		CUT	CUT		CUT	CUT	CUT	CUT	LINE #9 & 10 MULTILINE	
10	CUT		CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
11			CUT		CUT	CUT	CUT	CUT	EV/HT, Lengths/Time, Record Time	
12	CUT	CUT			CUT	CUT	CUT	CUT	Home, Guest, Guest, Guest	
13		CUT			CUT	CUT	CUT	CUT	Running Time	
14	CUT				CUT	CUT	CUT	CUT	LINE #6, MS w/horn	
15					CUT	CUT	CUT	CUT	LINE #8, MS w/horn	
16	CUT	CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
17		CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
18	CUT		CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
19			CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
20	CUT	CUT		CUT		CUT	CUT	CUT	NOT ASSIGNED	

REV.	DATE	DESCRIPTION	BY	APPR.
5	30 NOV 99	CHANGED PLUG FUNCTIONS	JDB	
4	21 JULY 99	UPDATED FUNCTION CHART, CHANGED NAME TO OMNI 6000.	HBB	
3	14APR99	CHNG PLUG VIEW FROM FRONT TO REAR.	MWJ	
2	04 JAN 99	MIRRORED THE NUMBERS ON THE FRONT VIEW OF THE PLUG	DDL	

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED SCOREBOARDS	
TITLE: OMNI 6000 LED DRIVER ADDRESS CONFIGURATION, 12 PIN	
DES. BY:	DRAWN BY: JMOEN
	DATE: 22 OCT 96
REVISION	APPR. BY:
	SCALE: NONE
1153-R06A-87409	



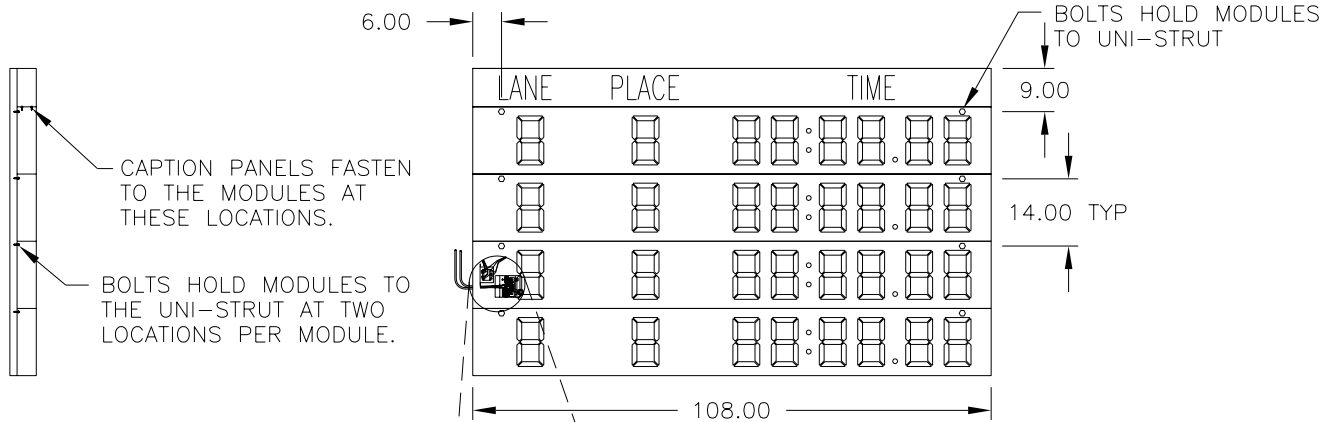
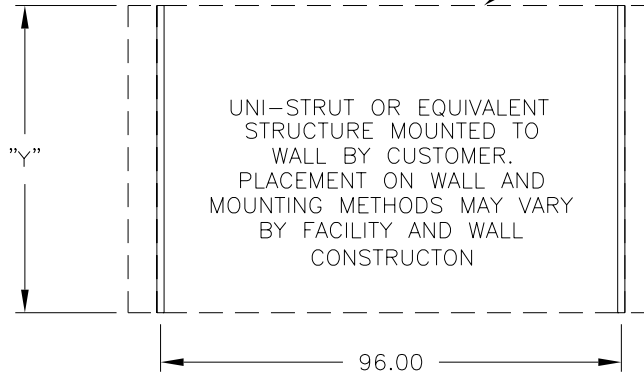
NUMBERS WITHIN THE CIRCLES INDICATE THE ADDRESSES FOR THE MODULES. SEE DRAWING 1153-R06A-87409 FOR ADDRESS SETTING INFORMATION.

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED AQUATICS DISPLAYS			
TITLE: 10 LANE SYSTEMS			
DES. BY: AVB	DRAWN BY: DCINK	DATE: 21OCT96	
REVISION	APPR. BY:	1153-R04A-87530	
	SCALE: 1=60		

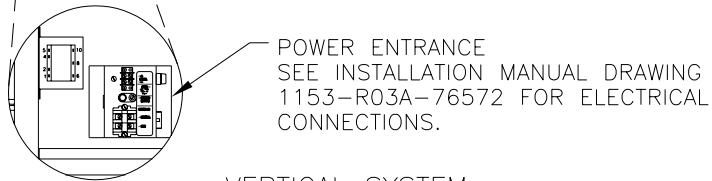
1	03 MAY 99	UPDATED MODEL NUMBERS AND SWAPPED LOCATIONS.	HBB	
REV.	DATE	DESCRIPTION	BY	APPR.

"Y" DIM WILL VARY BY SCOREBOARD MODEL

DASHED LINE REPRESENTS OUTLINE OF DISPLAY

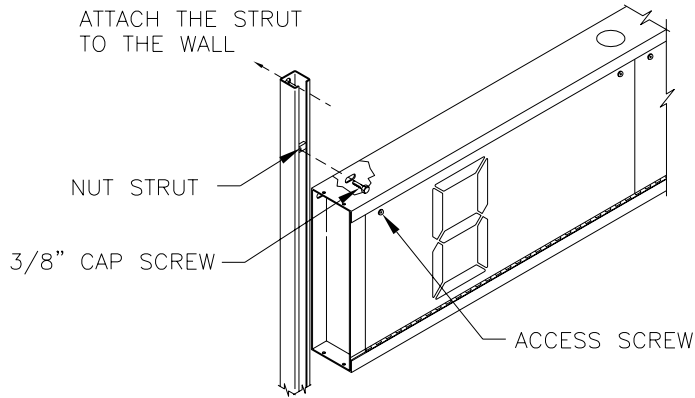


LEFT SIDE



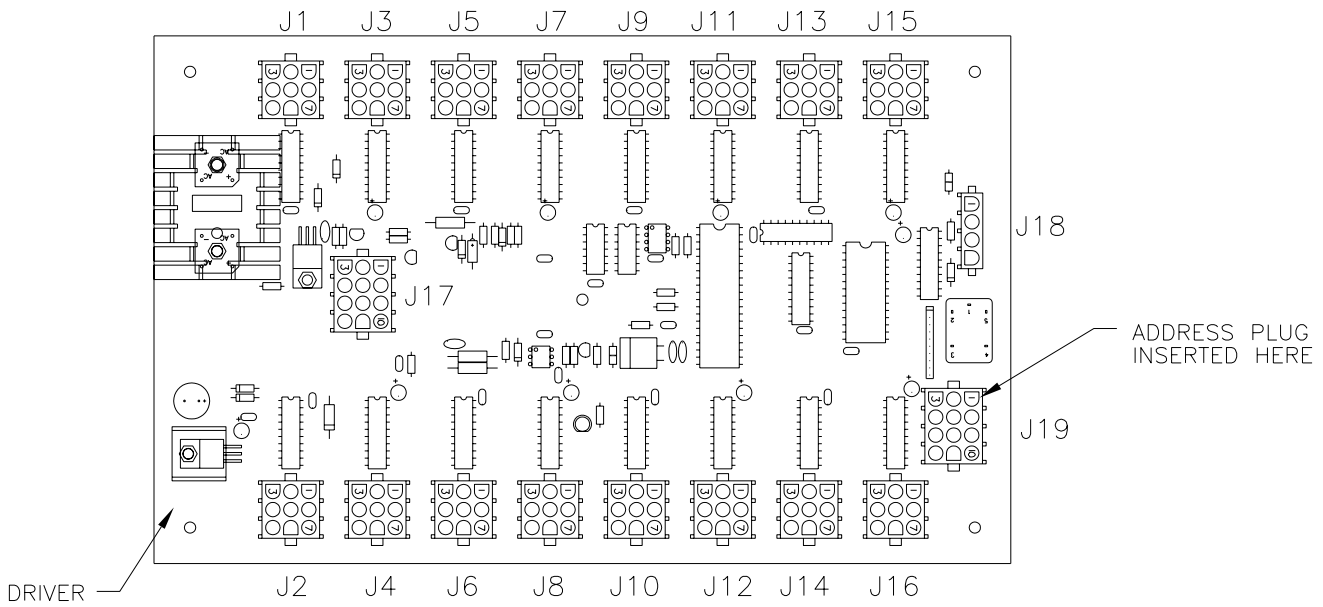
VERTICAL SYSTEM

MOUNTING DETAIL



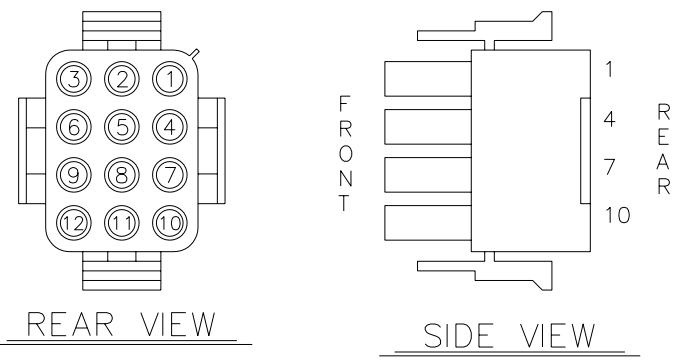
DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED AQUATICS DISPLAYS	
TITLE: MOUNTING INFORMATION, VERTICAL SYSTEMS	
DES. BY:	DATE: 31 OCT 96
DRAWN BY: JMOEN	
REVISION	1153-R04A-87803
APPR. BY:	
SCALE: 1=40	

REV.	DATE	DESCRIPTION	BY	APPR.



THE ADDRESS PLUG, P19, IS INSERTED INTO J19.

ALL WIRES ARE IN PLACE BEFORE INSTALLATION. DURING INSTALLATION, CUT THE APPROPRIATE WIRES IN THE ADDRESS PLUGS TO SET THE ADDRESS FOR EACH DRIVER, ACCORDING TO THE TABLE BELOW AND DISPLAY CONFIGURATION DRAWINGS.



ADDRESS PLUG
USE 0A-1153-0032

ADDRESS SETTINGS AS USED WITH CTS 3,4 AND 5

LED ADDRESSABLE DRIVER ADDRESS CONFIGURATION										
ADDR	PIN 2	PIN 3	PIN 5	PIN 6	PIN 8	PIN 9	PIN 11	PIN 12	FUNCTION	NOTES
0									NOT ASSIGNED	NO PLUG INSTALLED
1		CUT	CUT	CUT	CUT	*		CUT	LINE #1 & 2 MULTILINE	
2	CUT		CUT	CUT	CUT	*		CUT	LINE #2 & 3 MULTILINE	
3			CUT	CUT	CUT	*		CUT	LINE #3 & 4 MULTILINE	
4	CUT	CUT		CUT	CUT	*		CUT	LINE #4 & 5 MULTILINE	
5		CUT		CUT	CUT	*		CUT	LINE #5 & 6 MULTILINE	
6	CUT			CUT	CUT	*		CUT	LINE #6 & 7 MULTILINE	
7				CUT	CUT	*		CUT	LINE #7 & 8 MULTILINE	
8	CUT	CUT	CUT		CUT	*		CUT	LINE #8 & 9 MULTILINE	
9		CUT	CUT		CUT	*		CUT	LINE #9 & 10 MULTILINE	
10	CUT		CUT		CUT	*		CUT	LINE #10 MULTILINE	
11			CUT		CUT	*		CUT	Record Time, Lengths/Time	
12	CUT	CUT			CUT	*		CUT	Event / Heat	
13		CUT			CUT	*		CUT	NOT ASSIGNED	
14	CUT				CUT	*		CUT	NOT ASSIGNED	
15					CUT	*		CUT	ONE-LINE TIMING	
16	CUT	CUT	CUT	CUT		*		CUT	NOT ASSIGNED	
17		CUT	CUT	CUT		*		CUT	NOT ASSIGNED	
18	CUT		CUT	CUT		*		CUT	NOT ASSIGNED	
19			CUT	CUT		*		CUT	NOT ASSIGNED	
20	CUT	CUT		CUT		*		CUT	Home, Guest, Guest, Guest	

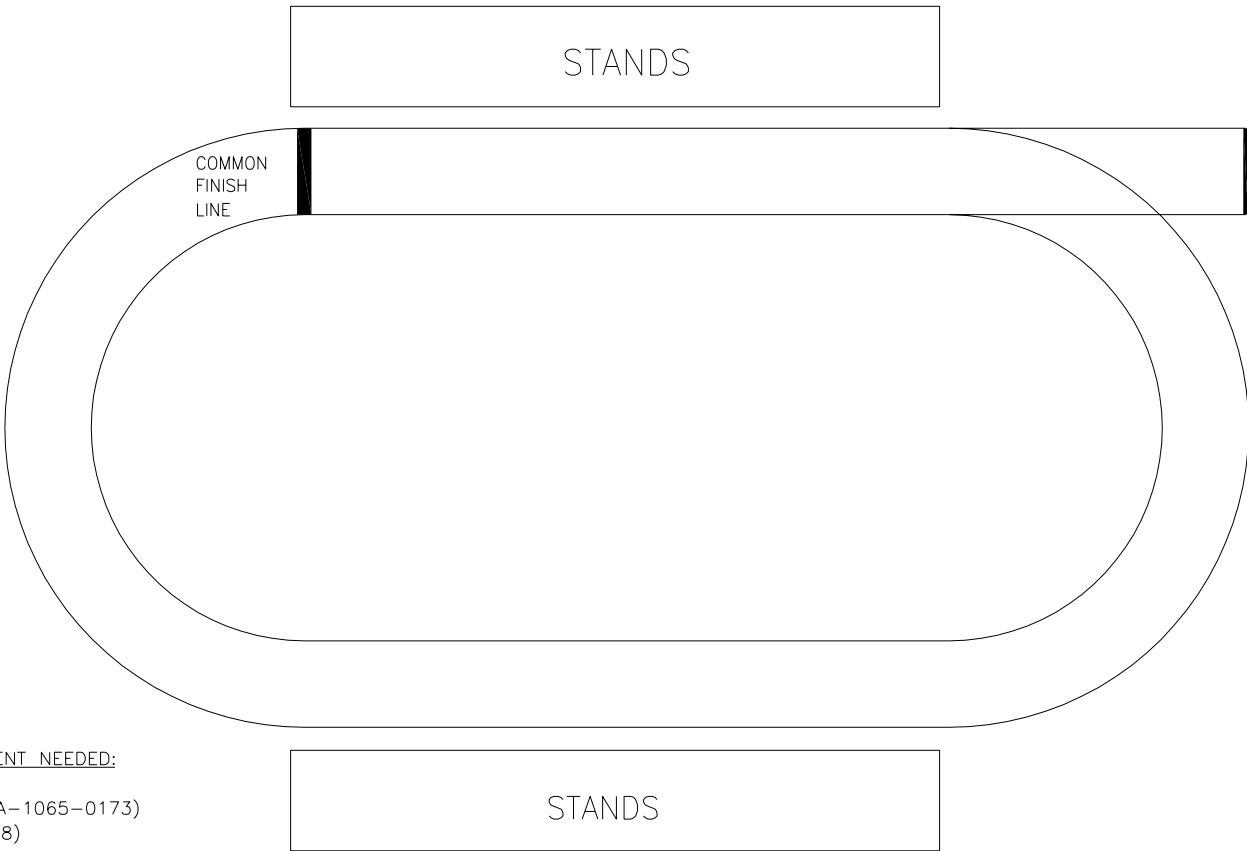
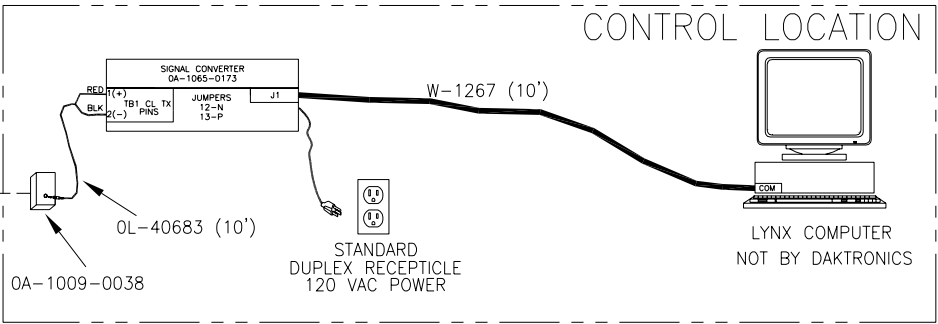
* - PIN 9 CAN BE CONFIGURED FOR A
BAUD RATE OF EITHER 2400 OR 9600
CUT = 9600 BAUD IN = 2400 BAUD

3	29 NOV 99	CHANGED PLUG FUNCTIONS	JDB	DAKTRONICS, INC. BROOKINGS, SD 57006	
02	14APR99	CHNG PLUG VIEW FROM FRONT TO REAR.	MWJ	PROJ: LED SCOREBOARDS	
1	5FEB98	CORRECTED FUNCTIONS TO CURRENT SPECS	DDL	TITLE: CTS LED DRIVER ADDRESS CONFIGURATION, 12 PIN	
REV.	DATE	DESCRIPTION	BY	APPR.	DES. BY: DRAWN BY: MJORDAN DATE: 24 JUL 97
					REVISION APPR. BY: SCALE: NONE 1153-R06A-95016

TRACK SYSTEM RISER DIAGRAM

TRACK SCBD W/ FINISH LYNX

LYNX SCBD OUTPUT SETTINGS:
 SCRIPT: OMNI1000PLACE.LSS
 BAUD: 9600
 DATA BITS: 7
 PARITY: EVEN
 STOP BITS: 2
 RUNNING TIME: NORMAL
 RESULTS: ON
 PAGE SIZE: EQUAL TO NUMBER OF
 LINES ON SCOREBOARD



SEE SCOREBOARD SPECIFICATIONS

LANE PLACE TIME
 LED SCOREBOARD

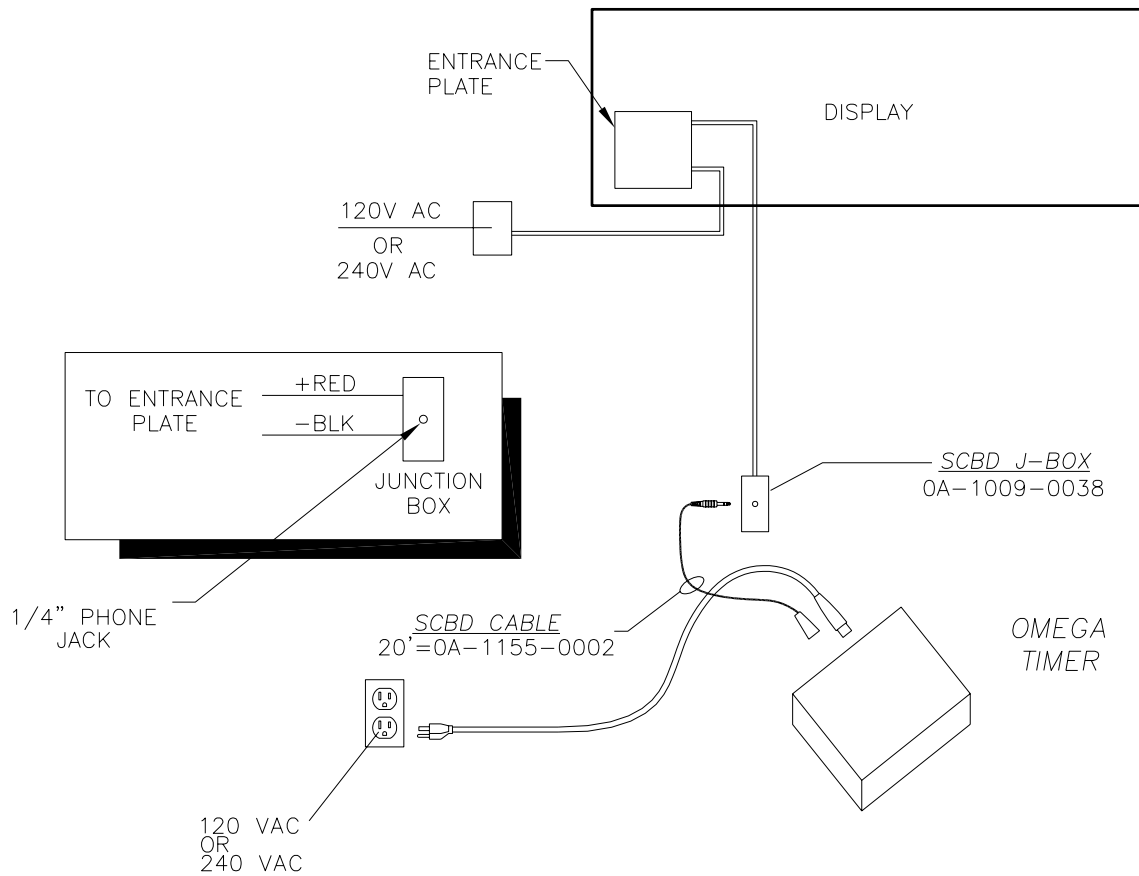
- TYPICAL INTERFACE EQUIPMENT NEEDED:
- | QTY | DESCRIPTION |
|-----|---------------------------------|
| 1 | SIGNAL CONVERTER (OA-1065-0173) |
| 1 | J-BOX (OA-1009-0038) |
| 1 | CABLE (OL-40683) |
| 1 | CABLE (W-1267) |

REV.	DATE	DESCRIPTION	BY	APPR.
05	NOV 07	CHANGED OMNI1000.LSS TO OMNI1000PLACE.LSS	AMG	
04	21 MAR 05	REORGANIZED DRAWING ADDED DETAIL TO SIG CONVERTER	KQB	
3	15 SEP 03	CHANGED SIGNAL CONVERTER DRAWING TO SHOW JACK NUMBERS AND PINS	LWS	
2	28 DEC 98	UPDATED DRAWING; ADDING LYNX SCBD OUTPUT SETTINGS;	CJB	
1	29 JUNE 98	UPDATED DESCRIPTION OF SCBD.	HBB	

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DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: TRACK SYSTEM RISER DIAGRAM OPTION #4
 TITLE: TRACK SCBD W/ FINISH LYNX, IN PRESS BOX
 DES. BY: DRAWN BY: HBONER DATE: 26 JUNE 98
 REVISION APPR. BY: SCALE: 1=1 1125-R01A-104300



MODEL	OMEGA TIMERS
SW-810L	SEE NOTE 1
SW-4810L-V	MULTI-LINE
SW-4810L-H	MULTI-LINE
SW-6410L-V	MULTI-LINE
SW-6410L-H	MULTI-LINE
SW-8010L-V	MULTI-LINE
SW-8010L-H	MULTI-LINE
MS-1510L	NOT AVAILABLE
MS-4410L-V	SEE NOTE 2
MS-4410L-H	SEE NOTE 2
MS-6510L-V	SEE NOTE 2
MS-6510L-H	SEE NOTE 2
MS-8110L-V	SEE NOTE 2
MS-8110L-H	SEE NOTE 2
EH-510L	SEE NOTE 3
HG-610L-M	SEE NOTE 3
HG-610L-S	SEE NOTE 3
RT-610L	SEE NOTE 3
LRT-810L	SEE NOTE 3

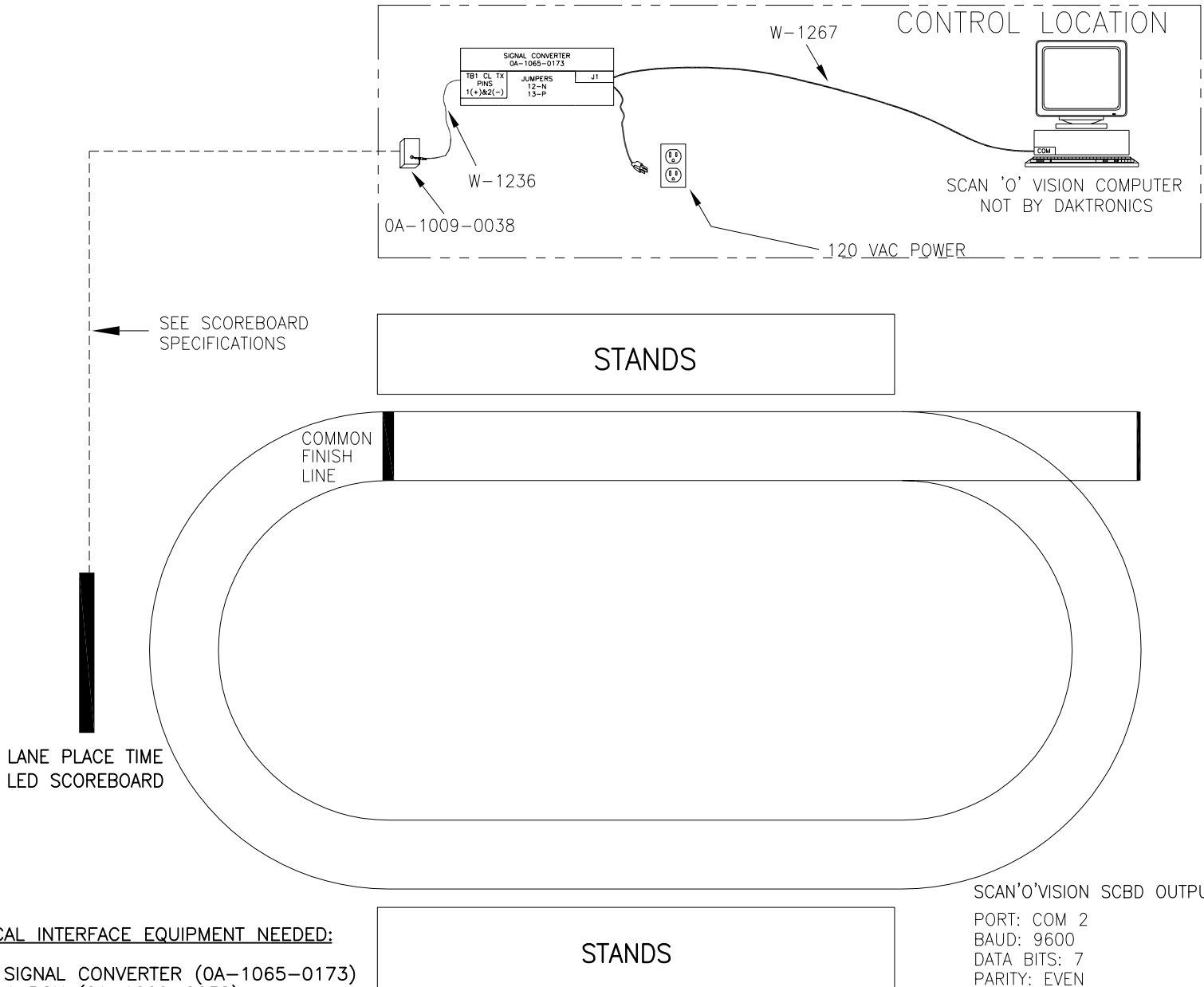
NOTES:

1. SET ADDRESS TO 1.
2. OPERATES IN SWIM MODE ONLY.
3. FOR OSM6, USE ALLSPORT 4000 CONTROLLER IN CODE 244.

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED SCOREBOARDS			
TITLE: AQUATICS LED, ARES OR OSM6 LAYOUT DIAGRAM			
DES. BY: JWARNE		DRAWN BY: HBONER	
		DATE: 20 JULY 99	
REVISION	APPR. BY: JWARNE	1153-R03A-118390	
	SCALE: NONE		

REV.	DATE	DESCRIPTION	BY	APPR.

TRACK SYSTEM RISER DIAGRAM TRACK SCBD W/ SCAN'O'VISION

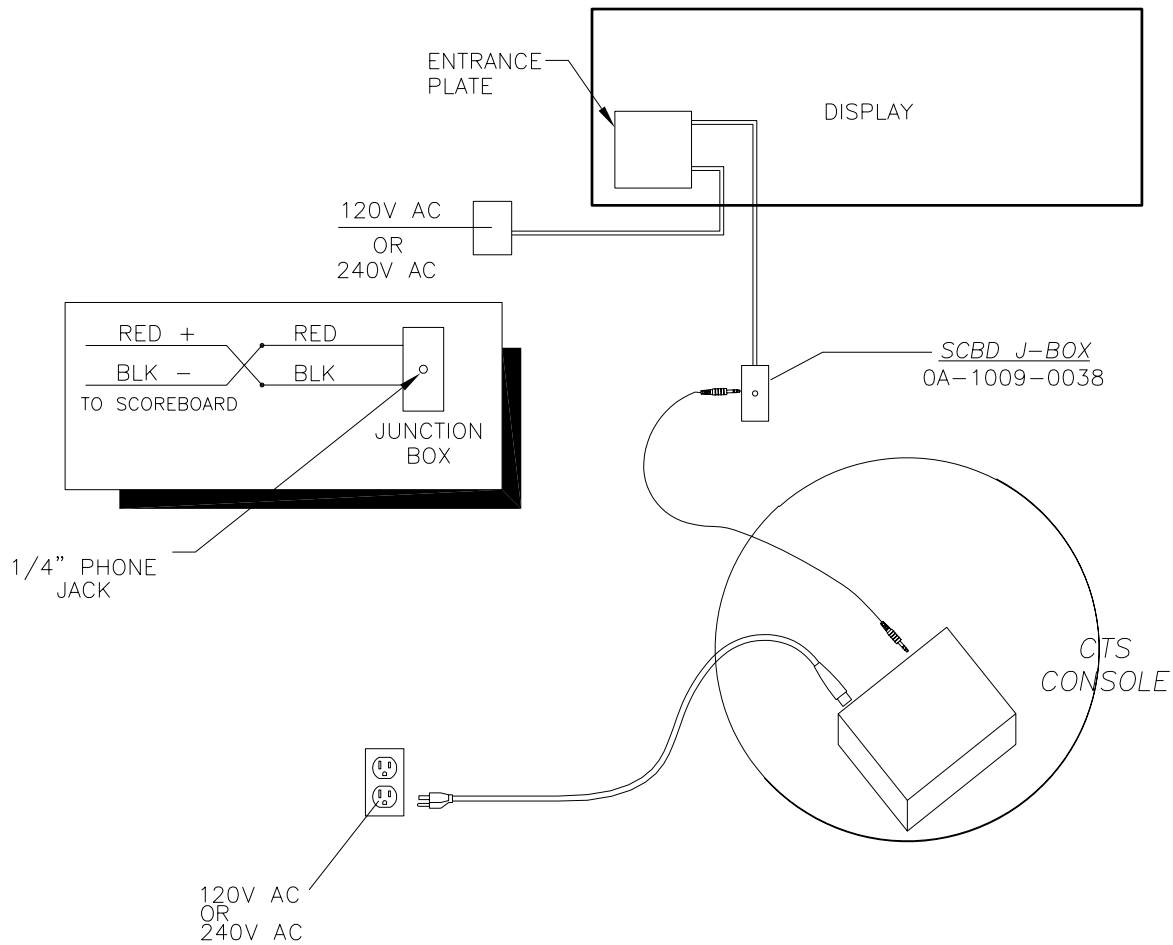


SCAN'O'VISION SCBD OUTPUT SETTINGS:
 PORT: COM 2
 BAUD: 9600
 DATA BITS: 7
 PARITY: EVEN
 STOP BITS: 1
 PROTOCOL: OMEGA
 FORMAT OF DISPLAY TIME: MM:SS.TC
 CLASSIFICATION FORMAT:
 R L TT:TT.TT (RANK, LANE, TIME)

- TYPICAL INTERFACE EQUIPMENT NEEDED:**
- | QTY | DESCRIPTION |
|-----|---------------------------------|
| 1 | SIGNAL CONVERTER (OA-1065-0173) |
| 1 | J-BOX (OA-1009-0038) |
| 1 | CABLE (W-1236) |
| 1 | CABLE (W-1267) |

REV.	01	05 JAN 03	ADDED SIGNAL CONVERTER SETTINGS	BY	LWS	APPR.
			DESCRIPTION			

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DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ:	TRACK SYSTEM RISER DIAGRAM, OPTION #4
TITLE:	TRACK SCBD W/ SCAN'O'VISION, IN PRESS BOX
DES. BY:	JWARNE
DRAWN BY:	HBONER
DATE:	20 JULY 99
REVISION	APPR. BY: JWARNE
SCALE:	1=1
1155-R01A-118391	

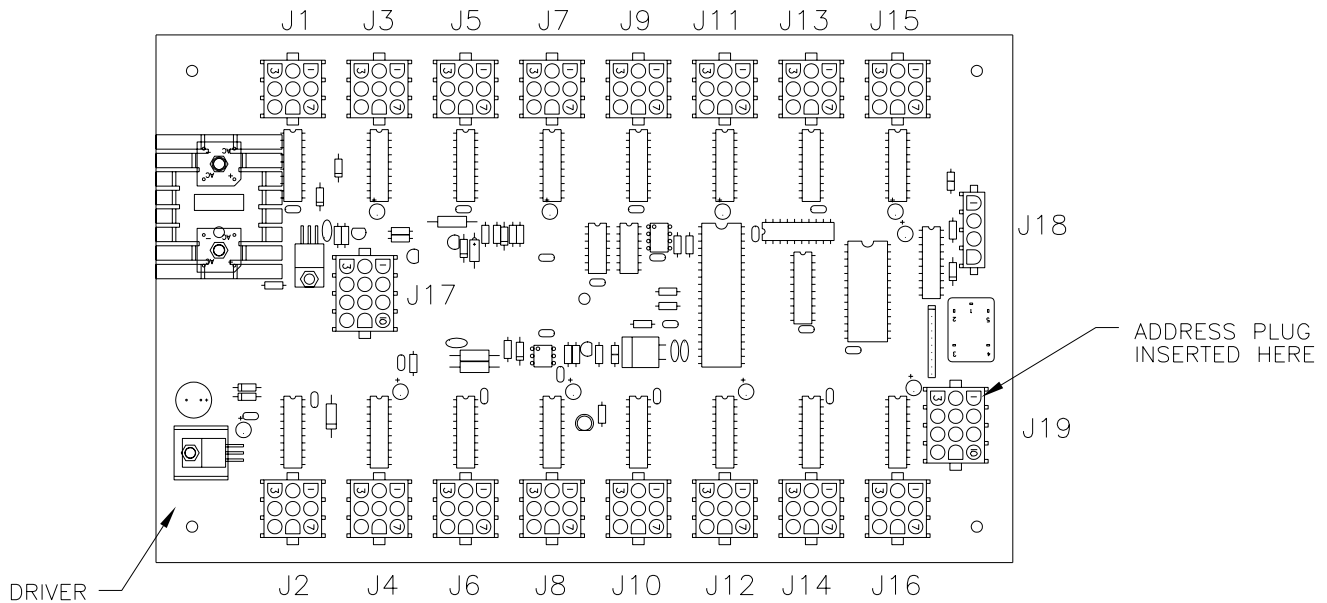


MODEL	CTS TIMERS
SW-810L	MULTI-LINE
SW-4810L-V	MULTI-LINE
SW-4810L-H	MULTI-LINE
SW-6410L-V	MULTI-LINE
SW-6410L-H	MULTI-LINE
SW-8010L-V	MULTI-LINE
SW-8010L-H	MULTI-LINE
MS-1510L	NOT AVAILABLE
MS-4410L-V	SEE NOTE 1
MS-4410L-H	SEE NOTE 1
MS-6510L-V	SEE NOTE 1
MS-6510L-H	SEE NOTE 1
MS-8110L-V	SEE NOTE 1
MS-8110L-H	SEE NOTE 1
EH-510L	MULTI-LINE
HG-610L-M	MULTI-LINE
HG-610L-S	MULTI-LINE
RT-610L	MULTI-LINE
LRT-810L	MULTI-LINE

NOTES:
 1. OPERATES IN SWIM MODE ONLY.

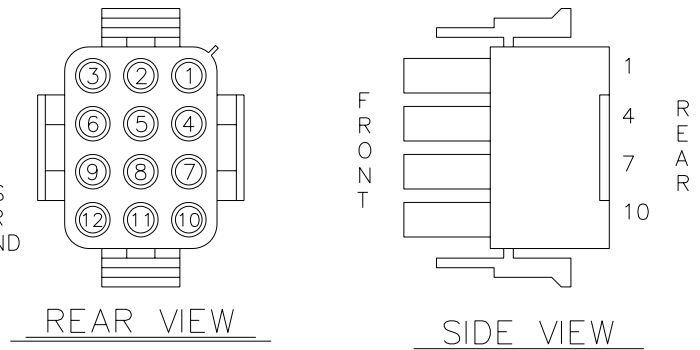
DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED SCOREBOARDS	
TITLE: AQUATICS LED, CTS LAYOUT DIAGRAM	
DES. BY: JWARNE	DRAWN BY: HBONER
DATE: 20 JULY 99	
REVISION	APPR. BY: JWARNE
	SCALE: NONE
1153-R03A-118392	

REV.	DATE	DESCRIPTION	BY	APPR.



THE ADDRESS PLUG, P19, IS INSERTED INTO J19.

ALL WIRES ARE IN PLACE BEFORE INSTALLATION. DURING INSTALLATION, CUT THE APPROPRIATE WIRES IN THE ADDRESS PLUGS TO SET THE ADDRESS FOR EACH DRIVER, ACCORDING TO THE TABLE BELOW AND DISPLAY CONFIGURATION DRAWINGS.



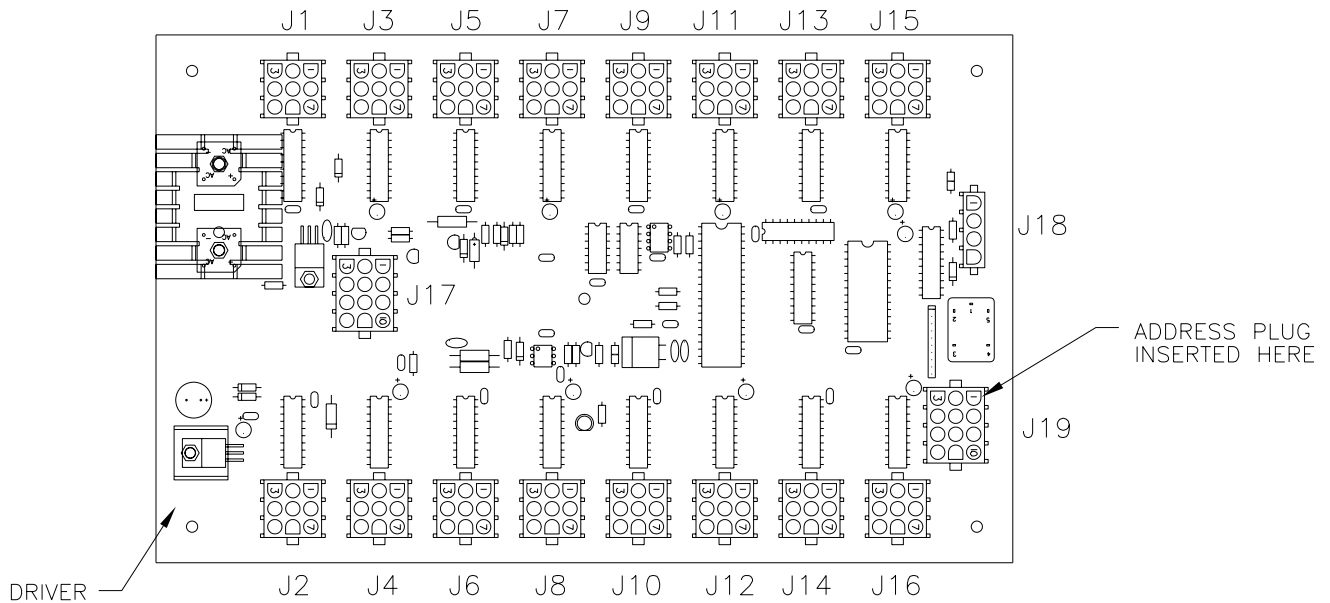
ADDRESS PLUG
USE 0A-1153-0032

ADDRESS SETTINGS AS USED WITH OMNISPORT 1000

LED ADDRESSABLE DRIVER ADDRESS CONFIGURATION										
ADDR	PIN 2	PIN 3	PIN 5	PIN 6	PIN 8	PIN 9	PIN 11	PIN 12	FUNCTION	NOTES
0	CUT	CUT	CUT	CUT	CUT	CUT	CUT	CUT	ONE-LINE TIMING	NO PLUG INSTALLED
1		CUT	CUT	CUT	CUT	CUT	CUT	CUT	LINE #1 & 2 MULTILINE	
2	CUT		CUT	CUT	CUT	CUT	CUT	CUT	LINE #2 & 3 MULTILINE	
3			CUT	CUT	CUT	CUT	CUT	CUT	LINE #3 & 4 MULTILINE	
4	CUT	CUT		CUT	CUT	CUT	CUT	CUT	LINE #4 & 5 MULTILINE	
5		CUT		CUT	CUT	CUT	CUT	CUT	LINE #5 & 6 MULTILINE	
6	CUT			CUT	CUT	CUT	CUT	CUT	LINE #6 & 7 MULTILINE	
7				CUT	CUT	CUT	CUT	CUT	LINE #7 & 8 MULTILINE	
8	CUT	CUT	CUT		CUT	CUT	CUT	CUT	LINE #8 & 9 MULTILINE	
9		CUT	CUT		CUT	CUT	CUT	CUT	LINE #9 & 10 MULTILINE	
10	CUT		CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
11			CUT		CUT	CUT	CUT	CUT	EV/HT OR Home/Guest, Record Time	
12	CUT	CUT			CUT	CUT	CUT	CUT	NOT ASSIGNED	
13		CUT			CUT	CUT	CUT	CUT	Running Time	
14	CUT				CUT	CUT	CUT	CUT	LINE #6, MS w/horn	
15					CUT	CUT	CUT	CUT	LINE #8, MS w/horn	
16	CUT	CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
17		CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
18	CUT		CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
19			CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
20	CUT	CUT		CUT		CUT	CUT	CUT	NOT ASSIGNED	

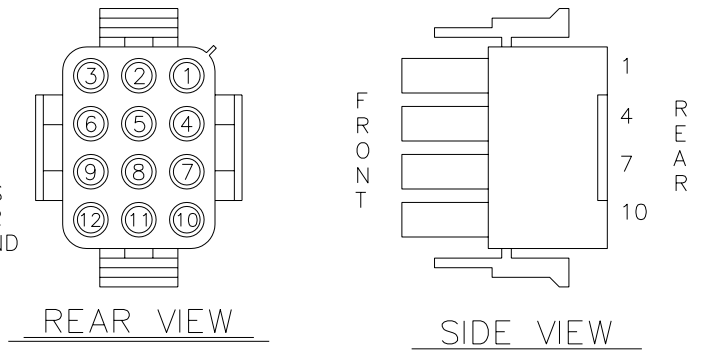
DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED SCOREBOARDS			
TITLE: OMNI 1000 LED DRIVER ADDRESS CONFIGURATION, 12 PIN			
DES. BY: JWARNE		DRAWN BY: HBONER	
		DATE: 21 JULY 99	
REVISION	APPR. BY: JWARNE	1153-R06A-118393	
	SCALE: NONE		

REV.	DATE	DESCRIPTION	BY	APPR.
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THE ADDRESS PLUG, P19, IS INSERTED INTO J19.

ALL WIRES ARE IN PLACE BEFORE INSTALLATION. DURING INSTALLATION, CUT THE APPROPRIATE WIRES IN THE ADDRESS PLUGS TO SET THE ADDRESS FOR EACH DRIVER, ACCORDING TO THE TABLE BELOW AND DISPLAY CONFIGURATION DRAWINGS.



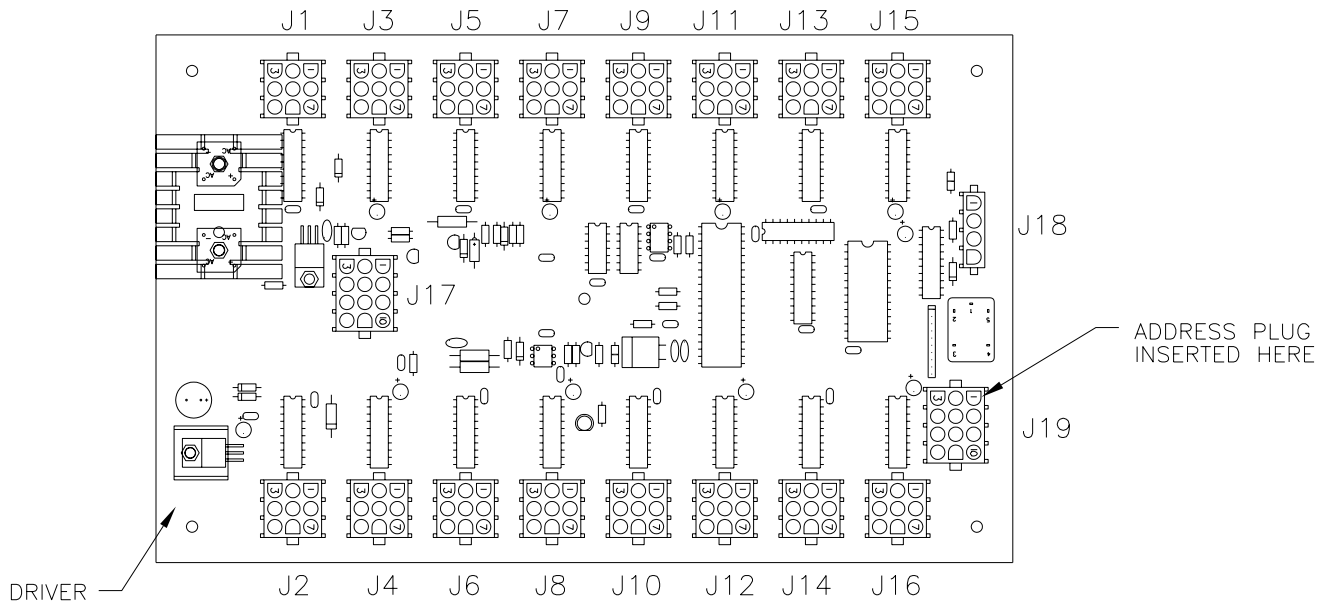
ADDRESS PLUG
USE 0A-1153-0032

ADDRESS SETTINGS AS USED WITH ALLSPORT

LED ADDRESSABLE DRIVER ADDRESS CONFIGURATION										
ADDR	PIN 2	PIN 3	PIN 5	PIN 6	PIN 8	PIN 9	PIN 11	PIN 12	FUNCTION	NOTES
0	CUT	CUT	CUT	CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	NO PLUG INSTALLED
1		CUT	CUT	CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
2	CUT		CUT	CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
3			CUT	CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
4	CUT	CUT		CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
5		CUT		CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
6	CUT			CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
7				CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
8	CUT	CUT	CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
9		CUT	CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
10	CUT		CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
11			CUT		CUT	CUT	CUT	CUT	EV/HT, Lengths, Record Time	OUTPUT 4
12	CUT	CUT			CUT	CUT	CUT	CUT	Home, Guest, Guest, Guest	OUTPUT 4
13		CUT			CUT	CUT	CUT	CUT	NOT ASSIGNED	
14	CUT				CUT	CUT	CUT	CUT	NOT ASSIGNED	
15					CUT	CUT	CUT	CUT	NOT ASSIGNED	
16	CUT	CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
17		CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
18	CUT		CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
19			CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
20	CUT	CUT		CUT		CUT	CUT	CUT	NOT ASSIGNED	

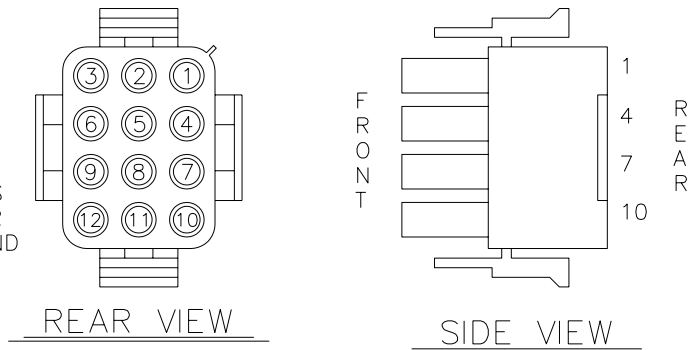
DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED SCOREBOARDS			
TITLE: A/S 4000, CODE 244, LED DR. ADDRESS CONFIG., 12 PIN			
DES. BY: JWARNE		DRAWN BY: HBONER	
		DATE: 21 JULY 99	
REVISION	APPR. BY: JWARNE	1153-R06A-118394	
	SCALE: NONE		

REV.	DATE	DESCRIPTION	BY	APPR.



THE ADDRESS PLUG, P19, IS INSERTED INTO J19.

ALL WIRES ARE IN PLACE BEFORE INSTALLATION. DURING INSTALLATION, CUT THE APPROPRIATE WIRES IN THE ADDRESS PLUGS TO SET THE ADDRESS FOR EACH DRIVER, ACCORDING TO THE TABLE BELOW AND DISPLAY CONFIGURATION DRAWINGS.



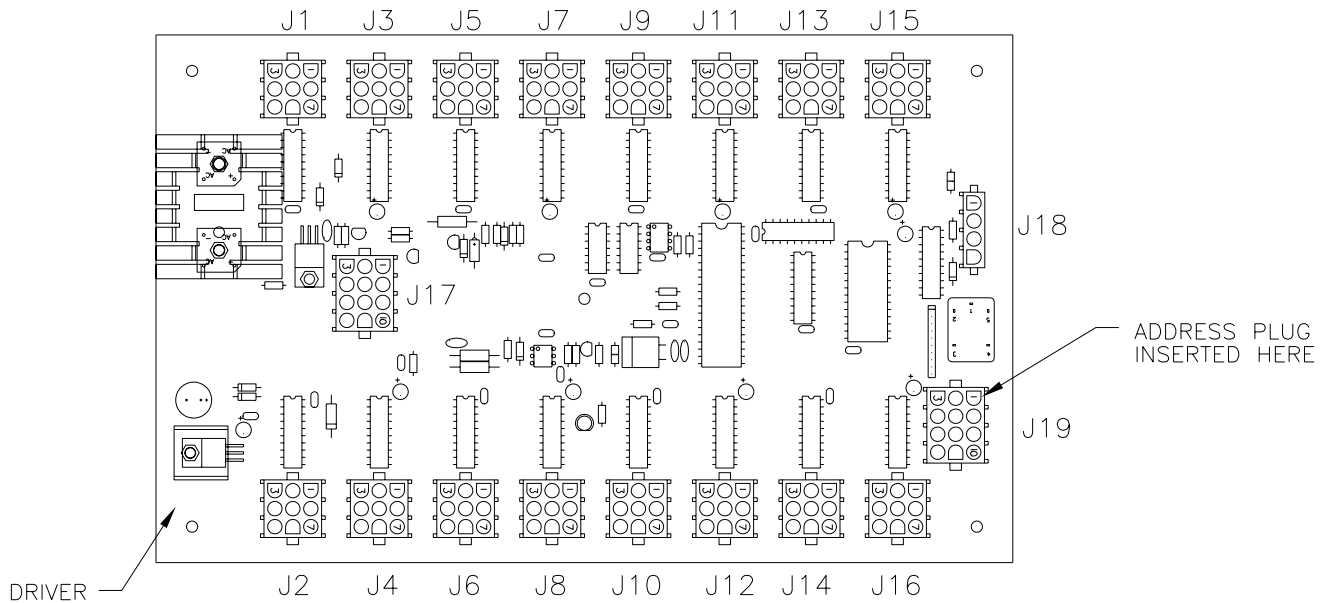
ADDRESS PLUG
USE 0A-1153-0032

ADDRESS SETTINGS AS USED WITH OSM6

LED ADDRESSABLE DRIVER ADDRESS CONFIGURATION										
ADDR	PIN 2	PIN 3	PIN 5	PIN 6	PIN 8	PIN 9	PIN 11	PIN 12	FUNCTION	NOTES
0	CUT	CUT	CUT	CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
1		CUT	CUT	CUT	CUT	CUT	CUT	CUT	LINE #1 & 2 MULTILINE	
2	CUT		CUT	CUT	CUT	CUT	CUT	CUT	LINE #2 & 3 MULTILINE	
3			CUT	CUT	CUT	CUT	CUT	CUT	LINE #3 & 4 MULTILINE	
4	CUT	CUT		CUT	CUT	CUT	CUT	CUT	LINE #4 & 5 MULTILINE	
5		CUT		CUT	CUT	CUT	CUT	CUT	LINE #5 & 6 MULTILINE	
6	CUT			CUT	CUT	CUT	CUT	CUT	LINE #6 & 7 MULTILINE	
7				CUT	CUT	CUT	CUT	CUT	LINE #7 & 8 MULTILINE	
8	CUT	CUT	CUT		CUT	CUT	CUT	CUT	LINE #8 & 9 MULTILINE	
9		CUT	CUT		CUT	CUT	CUT	CUT	LINE #9 & 10 MULTILINE	
10	CUT		CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
11			CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
12	CUT	CUT			CUT	CUT	CUT	CUT	NOT ASSIGNED	
13		CUT			CUT	CUT	CUT	CUT	NOT ASSIGNED	
14	CUT				CUT	CUT	CUT	CUT	NOT ASSIGNED	
15					CUT	CUT	CUT	CUT	NOT ASSIGNED	
16	CUT	CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
17		CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
18	CUT		CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
19			CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
20	CUT	CUT		CUT		CUT	CUT	CUT	NOT ASSIGNED	

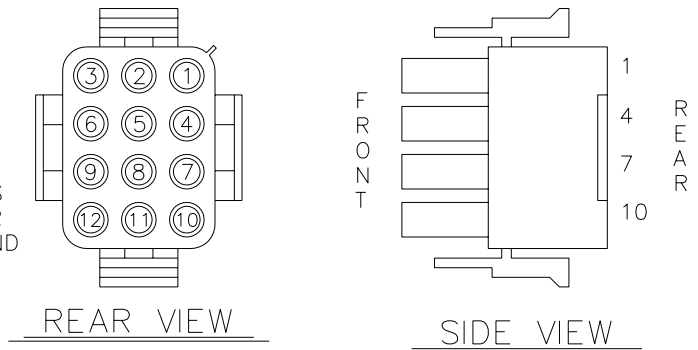
DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED SCOREBOARDS	
TITLE: OSM6 LED DRIVER ADDRESS CONFIGURATION, 12 PIN	
DES. BY: JWARNE	DATE: 21 JULY 99
REVISION	APPR. BY: JWARNE
	SCALE: NONE
1153-R06A-118396	

REV.	DATE	DESCRIPTION	BY	APPR.



THE ADDRESS PLUG, P19, IS INSERTED INTO J19.

ALL WIRES ARE IN PLACE BEFORE INSTALLATION. DURING INSTALLATION, CUT THE APPROPRIATE WIRES IN THE ADDRESS PLUGS TO SET THE ADDRESS FOR EACH DRIVER, ACCORDING TO THE TABLE BELOW AND DISPLAY CONFIGURATION DRAWINGS.



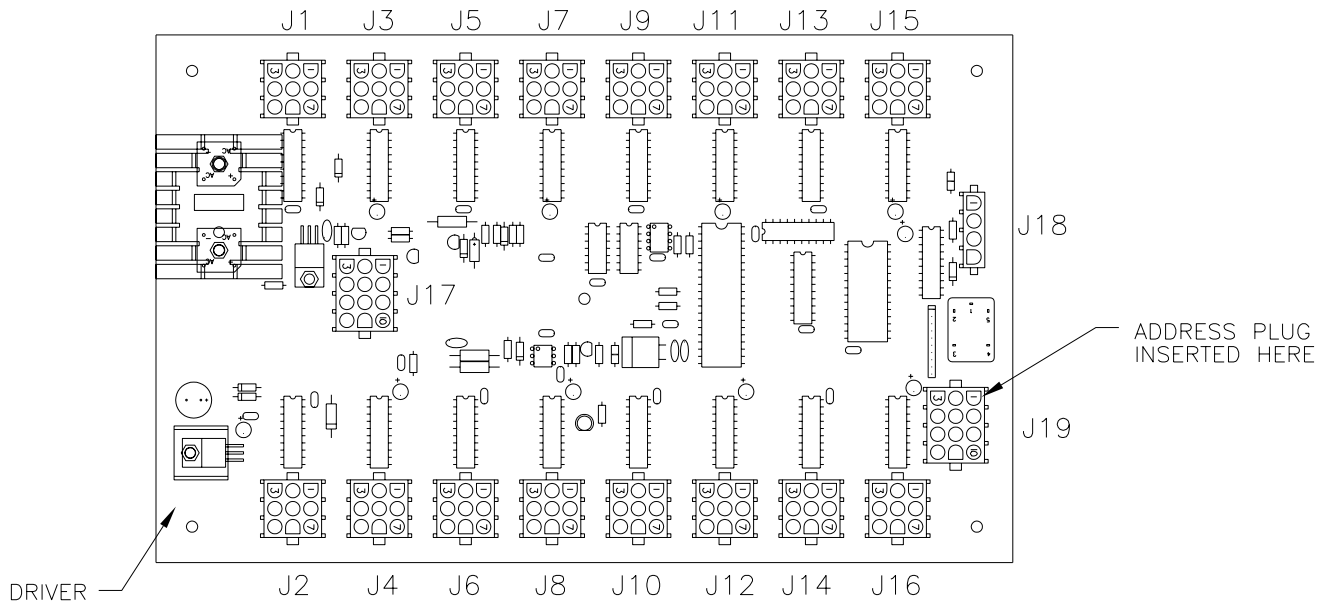
ADDRESS PLUG
USE 0A-1153-0032

ADDRESS SETTINGS AS USED WITH ARES

LED ADDRESSABLE DRIVER ADDRESS CONFIGURATION										
ADDR	PIN 2	PIN 3	PIN 5	PIN 6	PIN 8	PIN 9	PIN 11	PIN 12	FUNCTION	NOTES
0	CUT	CUT	CUT	CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	NO PLUG INSTALLED
1		CUT	CUT	CUT	CUT	CUT	CUT	CUT	LINE #1 & 2 MULTILINE	
2	CUT		CUT	CUT	CUT	CUT	CUT	CUT	LINE #2 & 3 MULTILINE	
3			CUT	CUT	CUT	CUT	CUT	CUT	LINE #3 & 4 MULTILINE	
4	CUT	CUT		CUT	CUT	CUT	CUT	CUT	LINE #4 & 5 MULTILINE	
5		CUT		CUT	CUT	CUT	CUT	CUT	LINE #5 & 6 MULTILINE	
6	CUT			CUT	CUT	CUT	CUT	CUT	LINE #6 & 7 MULTILINE	
7				CUT	CUT	CUT	CUT	CUT	LINE #7 & 8 MULTILINE	
8	CUT	CUT	CUT		CUT	CUT	CUT	CUT	LINE #8 & 9 MULTILINE	
9		CUT	CUT		CUT	CUT	CUT	CUT	LINE #9 & 10 MULTILINE	
10	CUT		CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
11			CUT		CUT	CUT	CUT	CUT	EV/HT, Lengths/Record Time	
12	CUT	CUT			CUT	CUT	CUT	CUT	Home, Guest, Guest, Guest	
13		CUT			CUT	CUT	CUT	CUT	Running Time	
14	CUT				CUT	CUT	CUT	CUT	NOT ASSIGNED	
15					CUT	CUT	CUT	CUT	NOT ASSIGNED	
16	CUT	CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
17		CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
18	CUT		CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
19			CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
20	CUT	CUT		CUT		CUT	CUT	CUT	NOT ASSIGNED	

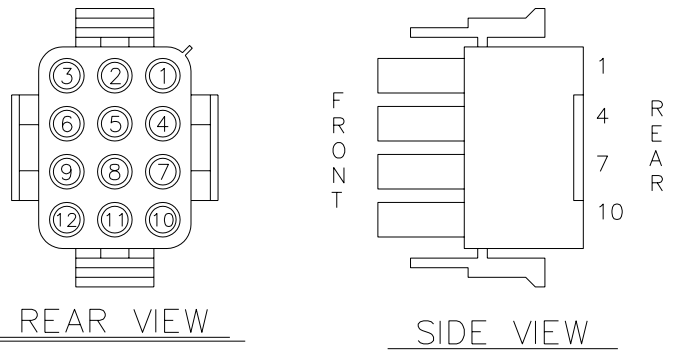
DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED SCOREBOARDS			
TITLE: ARES LED DRIVER ADDRESS CONFIGURATION, 12 PIN			
DES. BY: JWARNE		DRAWN BY: HBONER	
		DATE: 21 JULY 99	
REVISION	APPR. BY: JWAREN	1153-R06A-118397	
	SCALE: NONE		

REV.	DATE	DESCRIPTION	BY	APPR.



THE ADDRESS PLUG, P19, IS INSERTED INTO J19.

ALL WIRES ARE IN PLACE BEFORE INSTALLATION. DURING INSTALLATION, CUT THE APPROPRIATE WIRES IN THE ADDRESS PLUGS TO SET THE ADDRESS FOR EACH DRIVER, ACCORDING TO THE TABLE BELOW AND DISPLAY CONFIGURATION DRAWINGS.



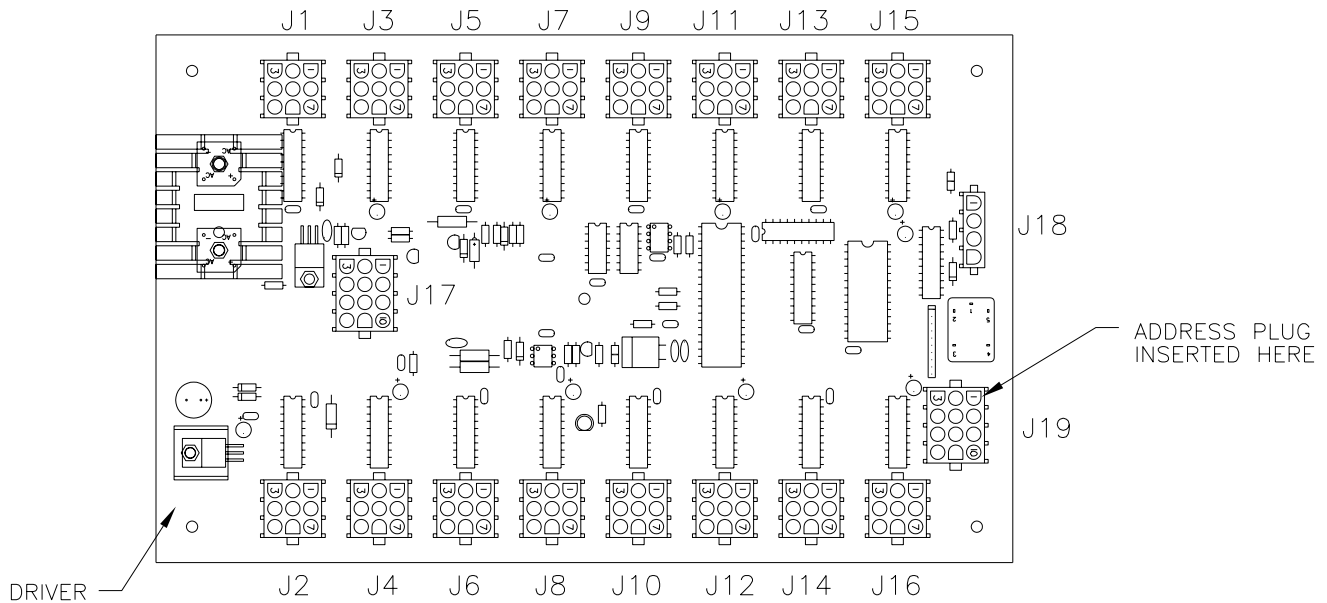
ADDRESS PLUG
USE 0A-1153-0032

ADDRESS SETTINGS AS USED WITH SCAN'O'VISION

LED ADDRESSABLE DRIVER ADDRESS CONFIGURATION										
ADDR	PIN 2	PIN 3	PIN 5	PIN 6	PIN 8	PIN 9	PIN 11	PIN 12	FUNCTION	NOTES
0	CUT	CUT	CUT	CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
1		CUT	CUT	CUT	CUT	CUT	CUT	CUT	LINE #1 & 2 MULTILINE	
2	CUT		CUT	CUT	CUT	CUT	CUT	CUT	LINE #2 & 3 MULTILINE	
3			CUT	CUT	CUT	CUT	CUT	CUT	LINE #3 & 4 MULTILINE	
4	CUT	CUT		CUT	CUT	CUT	CUT	CUT	LINE #4 & 5 MULTILINE	
5		CUT		CUT	CUT	CUT	CUT	CUT	LINE #5 & 6 MULTILINE	
6	CUT			CUT	CUT	CUT	CUT	CUT	LINE #6 & 7 MULTILINE	
7				CUT	CUT	CUT	CUT	CUT	LINE #7 & 8 MULTILINE	
8	CUT	CUT	CUT		CUT	CUT	CUT	CUT	LINE #8 & 9 MULTILINE	
9		CUT	CUT		CUT	CUT	CUT	CUT	LINE #9 & 10 MULTILINE	
10	CUT		CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
11			CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
12	CUT	CUT			CUT	CUT	CUT	CUT	NOT ASSIGNED	
13		CUT			CUT	CUT	CUT	CUT	NOT ASSIGNED	
14	CUT				CUT	CUT	CUT	CUT	NOT ASSIGNED	
15					CUT	CUT	CUT	CUT	NOT ASSIGNED	
16	CUT	CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
17		CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
18	CUT		CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
19			CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
20	CUT	CUT		CUT		CUT	CUT	CUT	NOT ASSIGNED	

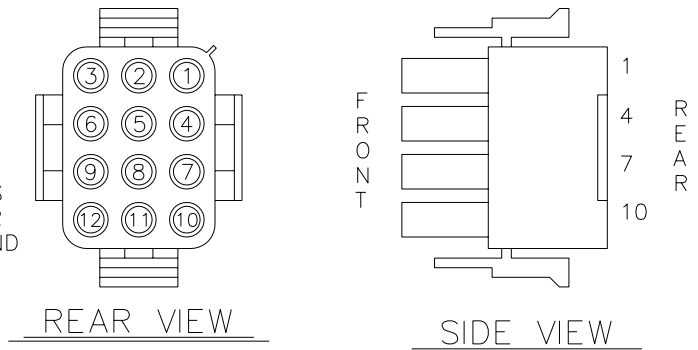
DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: LED SCOREBOARDS	
TITLE: SCAN'O'VISION LED DRIVER ADDRESS CONFIG., 12 PIN	
DES. BY: JWARNE	DATE: 21 JULY 99
REVISION	APPR. BY: JWARNE
	SCALE: NONE
1153-R06A-118398	

REV.	DATE	DESCRIPTION	BY	APPR.



THE ADDRESS PLUG, P19, IS INSERTED INTO J19.

ALL WIRES ARE IN PLACE BEFORE INSTALLATION. DURING INSTALLATION, CUT THE APPROPRIATE WIRES IN THE ADDRESS PLUGS TO SET THE ADDRESS FOR EACH DRIVER, ACCORDING TO THE TABLE BELOW AND DISPLAY CONFIGURATION DRAWINGS.



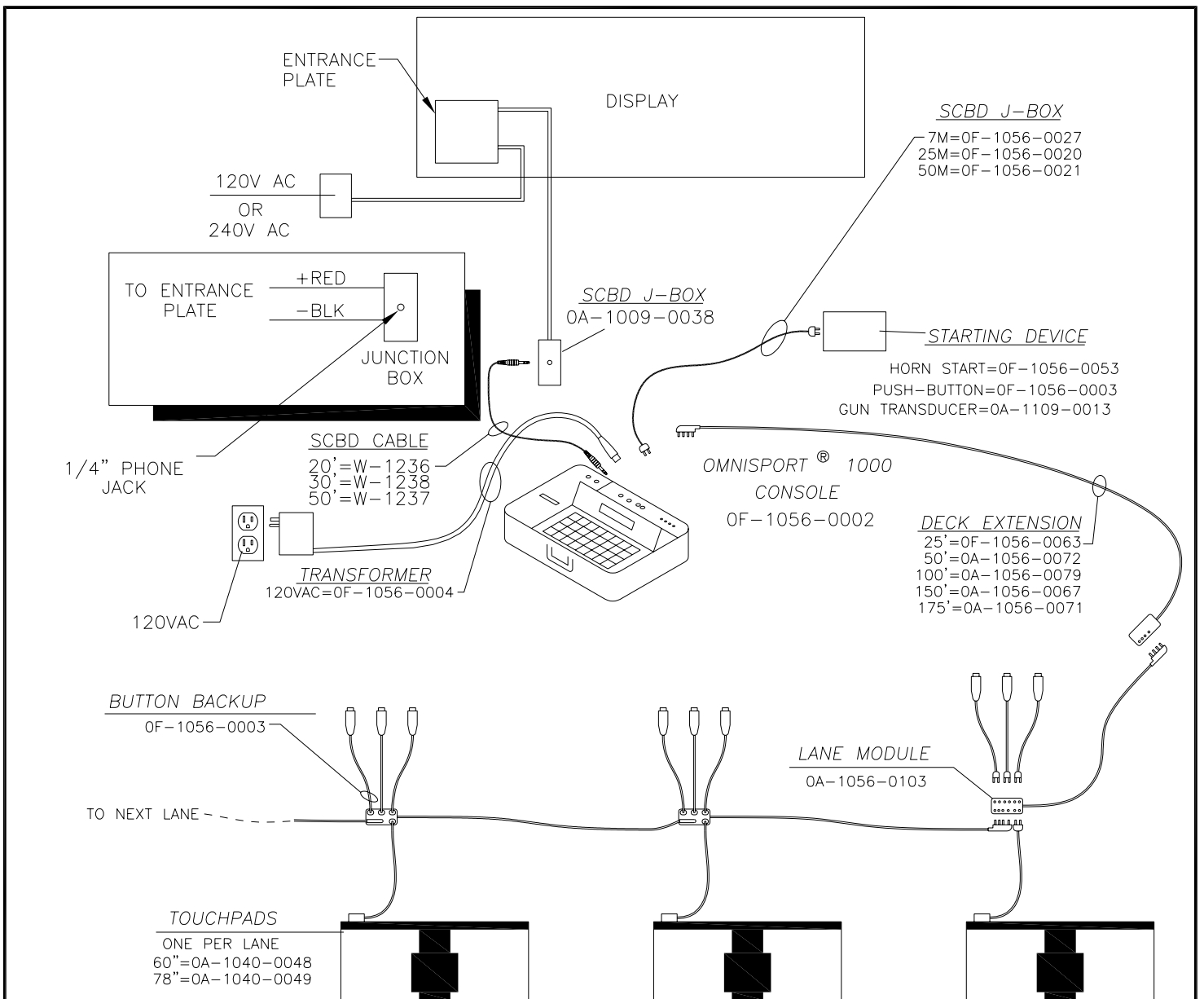
ADDRESS PLUG
USE 0A-1153-0032

ADDRESS SETTINGS AS USED WITH FINISH LYNX

LED ADDRESSABLE DRIVER ADDRESS CONFIGURATION										
ADDR	PIN 2	PIN 3	PIN 5	PIN 6	PIN 8	PIN 9	PIN 11	PIN 12	FUNCTION	NOTES
0	CUT	CUT	CUT	CUT	CUT	CUT	CUT	CUT	NOT ASSIGNED	
1		CUT	CUT	CUT	CUT	CUT	CUT	CUT	LINE #1 & 2 MULTILINE	
2	CUT		CUT	CUT	CUT	CUT	CUT	CUT	LINE #2 & 3 MULTILINE	
3			CUT	CUT	CUT	CUT	CUT	CUT	LINE #3 & 4 MULTILINE	
4	CUT	CUT		CUT	CUT	CUT	CUT	CUT	LINE #4 & 5 MULTILINE	
5		CUT		CUT	CUT	CUT	CUT	CUT	LINE #5 & 6 MULTILINE	
6	CUT			CUT	CUT	CUT	CUT	CUT	LINE #6 & 7 MULTILINE	
7				CUT	CUT	CUT	CUT	CUT	LINE #7 & 8 MULTILINE	
8	CUT	CUT	CUT		CUT	CUT	CUT	CUT	LINE #8 & 9 MULTILINE	
9		CUT	CUT		CUT	CUT	CUT	CUT	LINE #9 & 10 MULTILINE	
10	CUT		CUT		CUT	CUT	CUT	CUT	NOT ASSIGNED	
11			CUT		CUT	CUT	CUT	CUT	EV/HT	
12	CUT	CUT			CUT	CUT	CUT	CUT	NOT ASSIGNED	
13		CUT			CUT	CUT	CUT	CUT	Running Time	
14	CUT				CUT	CUT	CUT	CUT	NOT ASSIGNED	
15					CUT	CUT	CUT	CUT	NOT ASSIGNED	
16	CUT	CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
17		CUT	CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
18	CUT		CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
19			CUT	CUT		CUT	CUT	CUT	NOT ASSIGNED	
20	CUT	CUT		CUT		CUT	CUT	CUT	NOT ASSIGNED	

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED SCOREBOARDS			
TITLE: LYNX LED DRIVER ADDRESS CONFIGURATION, 12 PIN			
DES. BY: JWARNE		DRAWN BY: HBONER	
		DATE: 21 JULY 99	
REVISION	APPR. BY: JWARNE	1153-R06A-118399	
	SCALE: NONE		

REV.	DATE	DESCRIPTION	BY	APPR.



MODEL	OMNI 1000 SEE NOTE 1
SW-810L	SINGLE LINE
SW-4810L-V	MULTI-LINE
SW-4810L-H	MULTI-LINE
SW-6410L-V	MULTI-LINE
SW-6410L-H	MULTI-LINE
SW-8010L-V	MULTI-LINE
SW-8010L-H	MULTI-LINE
MS-1510L	SINGLE LINE
MS-4410L-V	MULTI-LINE
MS-4410L-H	MULTI-LINE
MS-6510L-V	MULTI-LINE
MS-6510L-H	MULTI-LINE
MS-8110L-V	MULTI-LINE
MS-8110L-H	MULTI-LINE
EH-510L	SEE NOTE 2&3
HG-610L-M	SEE NOTE 2&3
HG-610L-S	N/A SEE NOTE 3
RT-610L	MULTI-LINE
LRT-810L	N/A SEE NOTE

NOTES:

1. EITHER MULTI LINE OR SINGLE LINE. NOT BOTH.
2. THE OMNI1000 WILL DRIVE EITHER EH-510L OR HG-610L-M, NOT BOTH.
3. IF YOU HAVE AN EH-510L, HG-610L-M, HG-610L-S, OR LRT-810L DISPLAY, USE ALLSPORT 4000 CONTROLLER IN CODE 244.

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: LED AQUATICS DISPLAYS			
TITLE: AQUATICS LED, OMNI1000 LAYOUT DIAGRAM			
DES. BY:	DRAWN BY: HBONER	DATE: 05 AUG 99	
REVISION	APPR. BY:	1153-R03A-119454	
	SCALE: NONE		

REV.	DATE	DESCRIPTION	BY	APPR.

ENTRANCE PLATE

AUXILLIARY MODULES

120 VAC
OR
240 VAC

W-1077

16-PIN J-BOX
0A-1010-0026

SIGNAL CORD
0A-1065-0026

120V AC

J4

OUTPUT TABLE			
16-PIN J-BOX PIN#	WIRE COLOR	OUT- PUT #	SIGNAL TYPE
1	RED	1+	NO CONNECTION
2	BLACK	1-	NO CONNECTION
3	WHITE	2+	NO CONNECTION
4	GREEN	2-	NO CONNECTION
5	ORANGE	3+	NO CONNECTION
6	BLUE	3-	NO CONNECTION
7	WHT/BLK	4+	TO AUX. MODULES
8	RED/BLK	4-	TO AUX. MODULES

MODEL	A/S 4000, CODE 244 SEE NOTE 1
SW-810L	NOT AVAILABLE
SW-4810L-V	NOT AVAILABLE
SW-4810L-H	NOT AVAILABLE
SW-6410L-V	NOT AVAILABLE
SW-6410L-H	NOT AVAILABLE
SW-8010L-V	NOT AVAILABLE
SW-8010L-H	NOT AVAILABLE
MS-1510L	NOT AVAILABLE
MS-4410L-V	NOT AVAILABLE
MS-4410L-H	NOT AVAILABLE
MS-6510L-V	NOT AVAILABLE
MS-6510L-H	NOT AVAILABLE
MS-8110L-V	NOT AVAILABLE
MS-8110L-H	NOT AVAILABLE
EH-510L	OUTPUT 4
HG-610L-M	OUTPUT 4
HG-610L-S	OUTPUT 4
RT-610L	OUTPUT 4
LRT-810L	OUTPUT 4

NOTES:

1. WHEN THE AUXILLIARY MODULES ARE OPERATED FROM THE A/S 4000, CODE 244, A DEDICATED PAIR OF WIRES IS REQUIRED BETWEEN THE 16 PIN CIRCULAR J-BOX AND THE ENTRANCE PANEL IN THE BOTTOM MASTER AUX MODULE.

ALL SPORT 4000 SERIES CONSOLES
MODEL AND PART NUMBERS:

MODEL	PART NO.	DESCRIPTION
4100	0A-1166-0001	120V STANDARD
4120	0A-1166-0005	230V STANDARD

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: LED SCOREBOARDS

TITLE: A/S 4000, CODE 244 LAYOUT DIAGRAM

DES. BY:

DRAWN BY: JBOEVE

DATE: 29OCT99

REVISION

APPR. BY: JWARNE

SCALE: NONE

1153-R04A-123482

REV.	DATE	DESCRIPTION	BY	APPR.

