

**ST-23XY SERIES  
SCORER'S TABLES**

DISPLAY MANUAL

P1892

DD3460320  
Rev 03  
02 March 2021

## FCC Statement

### Supplier Declaration of Conformity (SDoC)

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

**Warning:** The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

## Industry Canada Regulatory Information

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

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# 1 Introduction


This manual explains the installation, maintenance, and troubleshooting of a Daktronics scorer's table system. For additional information regarding the safety, installation, operation, or service of this system, refer to the telephone numbers listed in **Section 5: Daktronics Exchange and Repair & Return Programs (p.24)**. This manual is not specific to a particular installation. Contract-specific information takes precedence over any other general information found in this manual.

## Important Safeguards

- **Read and understand all instructions before beginning the installation process.**
- **Disconnect the display power when not in use or when servicing.**
- **Disconnect the display power before servicing power supplies to avoid electrical shock. Power supplies run on high voltage and may cause physical injury if touched while powered.**
- **Do not modify the structure or attach any panels or coverings to the display without the express written consent of Daktronics.**
- **Do not disassemble control equipment or electronic controls of the display; failure to follow this safeguard will make the warranty null and void.**
- **Do not drop the control equipment or allow it to get wet.**

## Resources

**Figure 1** illustrates a Daktronics drawing label. This manual refers to drawings by listing the last set of digits. In the example, the drawing would be referred to as **DWG-1007804**. All references to drawing numbers, appendices, figures, or other manuals are presented in bold typeface. Any drawings referenced in a particular section are listed at the beginning of it as shown below:

		DAKTRONICS, INC.		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2010 DAKTRONICS, INC.	
BROOKINGS, SD 57006		DO NOT SCALE DRAWING			
PROJ: DAKTRONICS					
TITLE: SYSTEM RISER DIAGRAM					
DESIGN:		DRAWN: APAGE		DATE: 11 MAY 10	
SCALE: NONE					
SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	1007804	
200	02	C17581	F-01-D		

Drawing Number

**Figure 1:** Drawing Label

### Reference Drawing:

System Riser Diagram ..... **DWG-1007804**

Daktronics identifies manuals by the DD or ED number located on the cover page.

Listed below are drawing types commonly used by Daktronics, along with the information each is likely to provide. All drawings referenced in this manual are found in **Appendix A**.

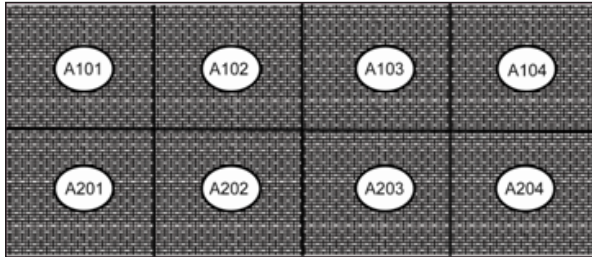
- **Schematic Drawings:** describe internal power and signal wiring as well as interconnections between display sections
- **Shop Drawings:** describe mounting methods to structural elements, access method (front or rear), and power and signal entrance points
- **System Riser Diagrams:** describe power/signal connections between components and the control location; may also include control room layout and schematic
- **Final Assembly Drawings:** describe internal display component locations and detailed product appearance with part numbers and quantities

Ensure all applicable materials have been gathered before beginning the installation. Contact a Daktronics sales coordinator or project manager.

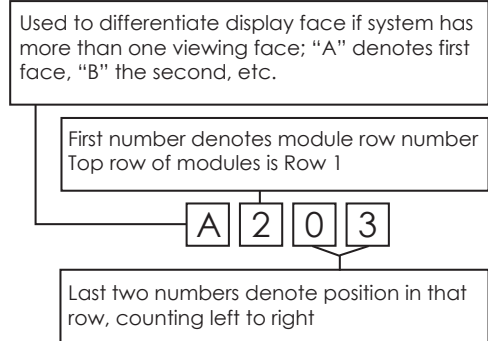
# Numbering Conventions

## Module Number

**Figure 2** illustrates how Daktronics numbers modules on a digital display, and **Figure 3** explains the module labeling method in more detail.



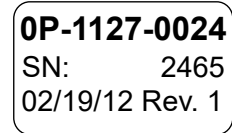
**Figure 2:** Module Numbering



**Figure 3:** Module Numbering Breakdown

## Part Number

Most display components have a white label that lists the part number (**Figure 4**). Part numbers will also appear on certain drawings. If a display component is not found in the **Replacement Parts (p.23)**, use the label to order a replacement. Refer to **Section 5: Daktronics Exchange and Repair & Return Programs (p.24)** if replacing or repairing any display component.



**Figure 4:** Part Label

Part Type	Part Example	Part Number
Assembly	Display interface board and the mounting plate or bracket	0A-XXXX-XXXX
Individual display interface board	ProLink Router (PLR)	0P-XXXX-XXXX
Wire or cable	SATA cable	W-XXXX

## Model Number

Each display system has a model number that explains the display specifications.

Please have the assembly number, model number, and the date manufactured on hand when calling Daktronics customer service to ensure the request is serviced as quickly as possible. Knowing the facility name and/or job number will also be helpful.

ST-23XY-6/10MN-HxW		
ST	=	Product series
23XY	=	Product generation
6/10MN	=	Pixel pitch & layout
H	=	Display height (pixels)
W	=	Display width (pixels)

## Light Strip Controllers

Daktronics scorer's tables equipped with optional End-of-Period (EOP) and/or Clock Stop light strips require an All Sport® 5000 series console to control them. Refer to the **All Sport 5000 Series Control Console Operation Manual (ED-11976)**, available online at [www.daktronics.com/manuals](http://www.daktronics.com/manuals), for operating instructions. Refer to **End-of-Period & Clock Stop Light Strip Kits (p.13)** for more information about installing optional light strips.

**Note:** Light strips on tables used in NBA facilities may be controlled by the Tissot Timing Interface. Refer to the manufacturer's documentation for operating instructions.

## 2 Mechanical Installation

All decisions regarding display setup must conform to the specifications and guidelines in this section. Read both the mechanical and electrical installation sections before beginning any installation procedures.

### Table Setup

#### Reference Drawings:

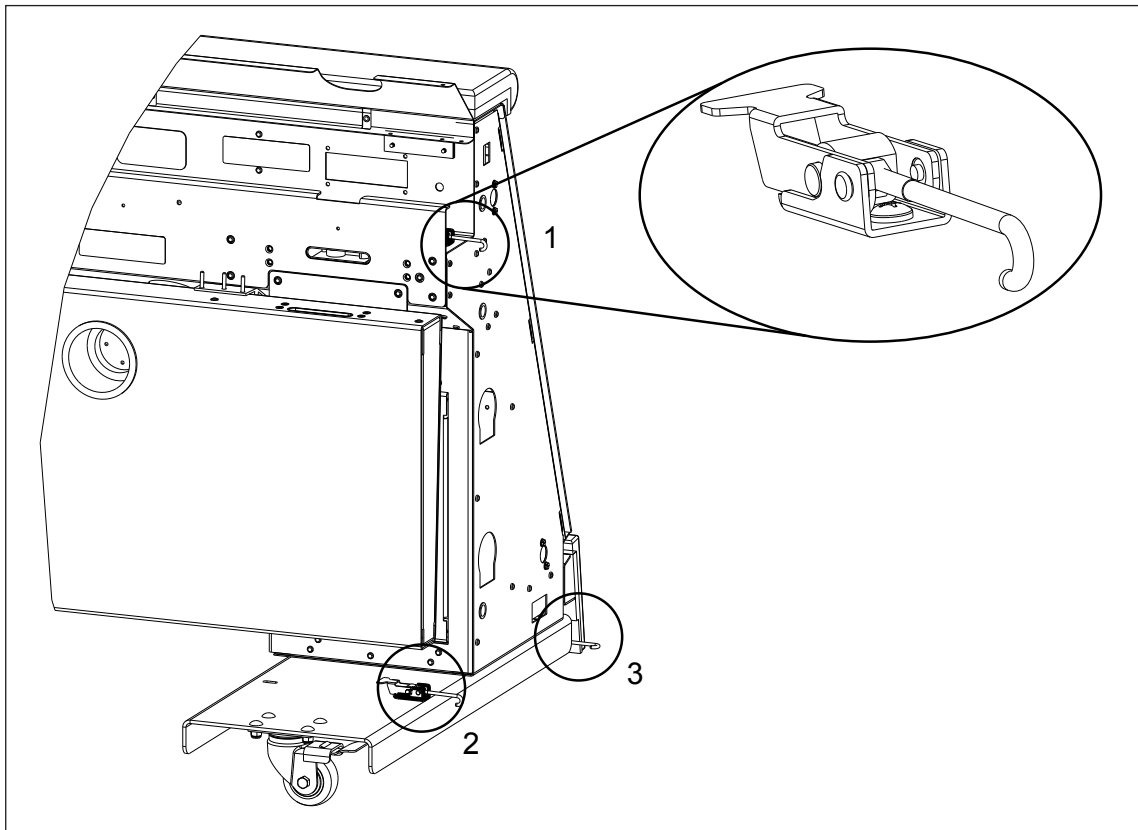
Shop; ST-23XY/ST-29XY, 64x288-10 / 96x432-6 .....	<b>DWG-3412819</b>
Shop; ST-23XY/ST-29XY, 64x576-10 / 96x864-6 .....	<b>DWG-3413038</b>
Shop; ST-23XY/ST-29XY, 64X864-10 / 96X1296-6 .....	<b>DWG-3421834</b>
Shop; ST-23XY/ST-29XY, 64X1152-10 / 96X1728-6 .....	<b>DWG-3421854</b>

Move the table(s) to the desired location. Depending on the power cord length, the table(s) should be within 25' (7.6 m), 50' (15.2 m), or 75' (22.9 m) of a power outlet.

- If there is only one table, skip ahead to **Tabletop Setup (p.6)**.
- If there is more than one table, first refer to **Multiple Table Connection (p.3)**.

### Multiple Table Connection

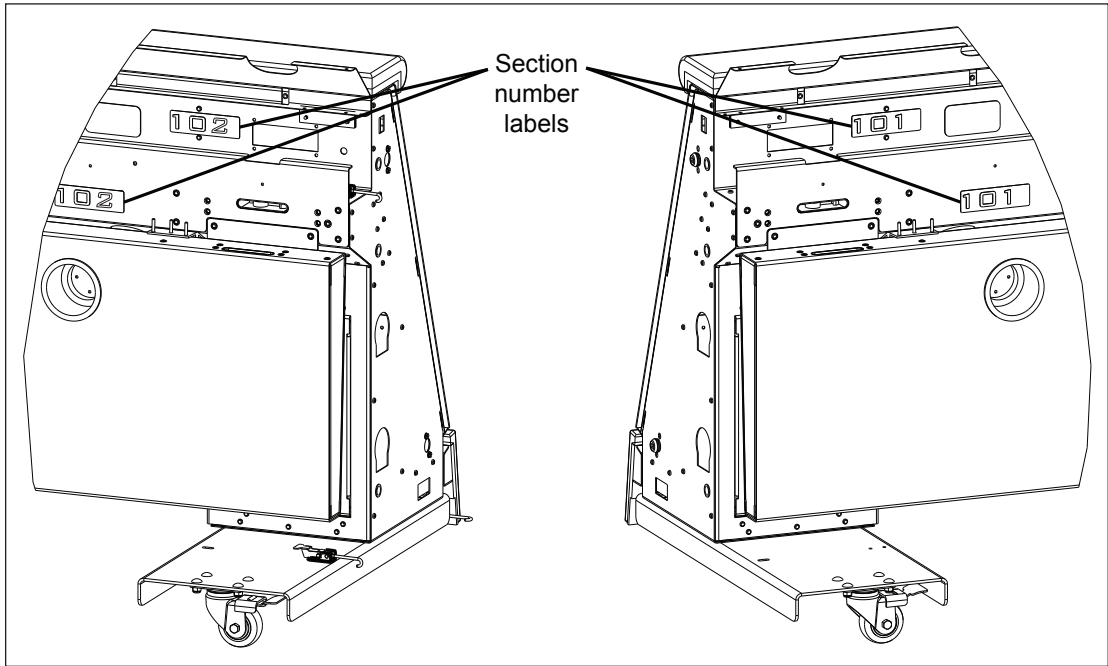
If more than one scorer's table is to be used as part of a single display face, they must be lined up in the appropriate arrangement and attached to each other. One table attaches to another using three latches on the right-hand side of the table (as viewed from the rear). There is one latch in the cable tray (1), one latch on the rear of the caster base (2), and one latch on the lower-front corner of the caster base (3). Refer to **Figure 5** for the location and detail of these latches.



**Figure 5:** Latch Locations & Detail

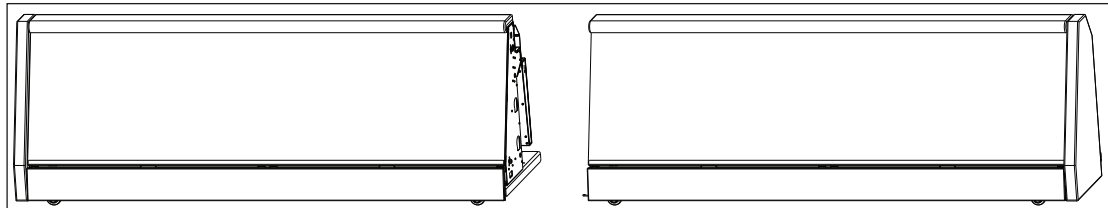
To attach the tables together, follow the steps below:

1. Look at the back side of the tables to determine the section numbering. Section numbers are applied to the back of each table at the locations shown in **Figure 6**. The farthest right table (when viewed from the rear) will typically be labeled "101", then the next table to its left will be "102", and so on.



**Figure 6:** Section Number Label Locations

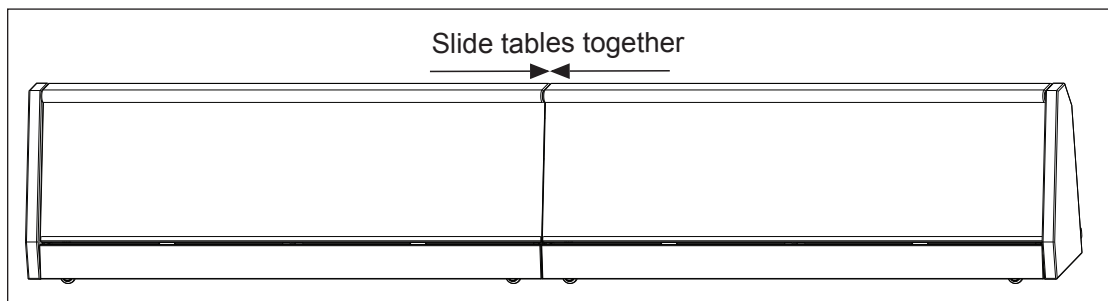
2. Position the two sections close together as shown in **Figure 7**.



**Figure 7:** Positioning Sections Together

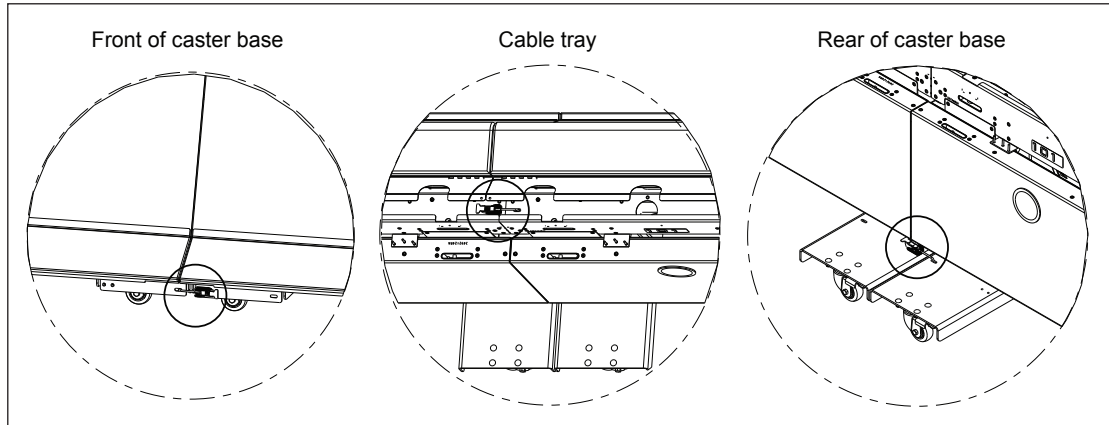
**Note:** At this point, ensure the flip latches are not sticking out the side of the tables prior to sliding the tables together, as this may damage the latches.

3. Slide the sections together as shown in **Figure 8**.



**Figure 8:** Sliding Sections Together

4. Latch all three latches on the left table to the right table (as viewed from the rear). Refer to **Figure 9** for illustrations of each latch properly connected.



**Figure 9:** Latching Sections Together

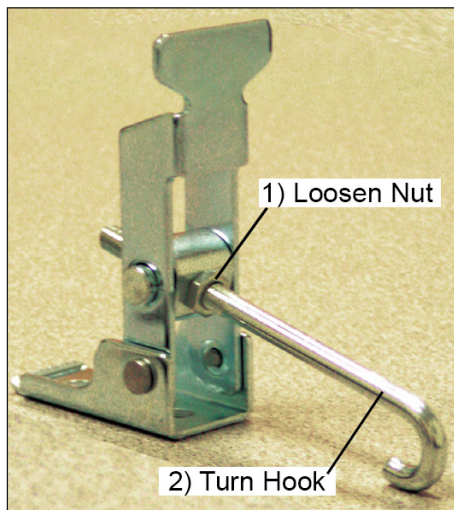
Flip the hook end of the latch into the receiving slot on the adjacent table. Ensure the tables are seated completely together to avoid over-pulling the latch and flip the latch down into the locked position.

5. Repeat **Steps 1–4** for all remaining tables.

### Adjusting Latch Tension

The tension of the latches is pre-set at the factory. When engaged, the latches should create a snug fit. If there is a noticeable gap between the tables or if it is difficult to clasp the latches shut, adjust the tension by following the steps below and referring to **Figure 10**.

1. Use a 5/16" wrench to loosen the nut holding the metal hook in place.
2. Turn the metal hook clockwise to tighten the latch or counterclockwise to loosen the latch.
3. Ensure the metal hook is pointing straight downward and then tighten the nut.



**Figure 10:** Adjusting Latch Tension

## Tabletop Setup

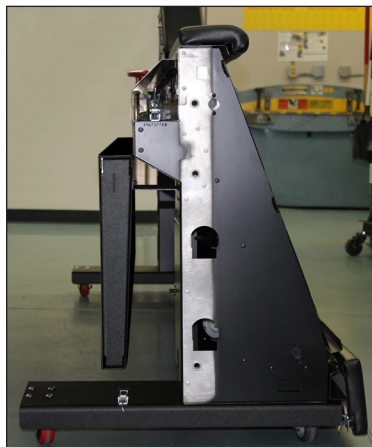
The tabletop should be upright only during games and events, and it should be in the dropped position when moving and storing the table. The following steps can be performed with one person but are easiest with two people. The tabletop capacity is rated at a maximum of **150 lb (68 kg)**.

To set up the tabletop:

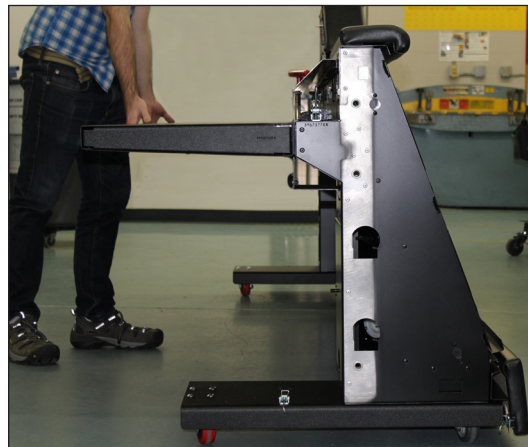
1. With the table(s) in their desired location (and latched together), move to the rear and depress both rear caster locking brakes **for each table**.

**Note:** Before moving the table(s), always ensure the rear caster brakes are in the unlocked position.

2. Starting with the tabletop in the dropped position as shown in **Figure 11**, stand in the middle of one table and lift the tabletop upward as shown in **Figure 12**.



**Figure 11:** Tabletop Dropped



**Figure 12:** Lifting Up & Holding Tabletop

3. While holding the tabletop in the upright position, insert a 5/16" T-handle wrench (Daktronics part # TH-1088) into the nearest of the four tabletop latch holes located in the bottom of the cable tray as shown in **Figure 13**.
4. Rotate the wrench clockwise to engage the latch. Refer to **Figure 13**. Move on to the next latch location until all four latches are engaged.

**Note:** The wrench must be rotated **285°** or a little over a 3/4 turn to fully engage the latch. All four latches must be used and fully engaged to support the rated load listed.



**Figure 13:** Rotating Wrench

5. Repeat **Steps 2–4** for all remaining tables.



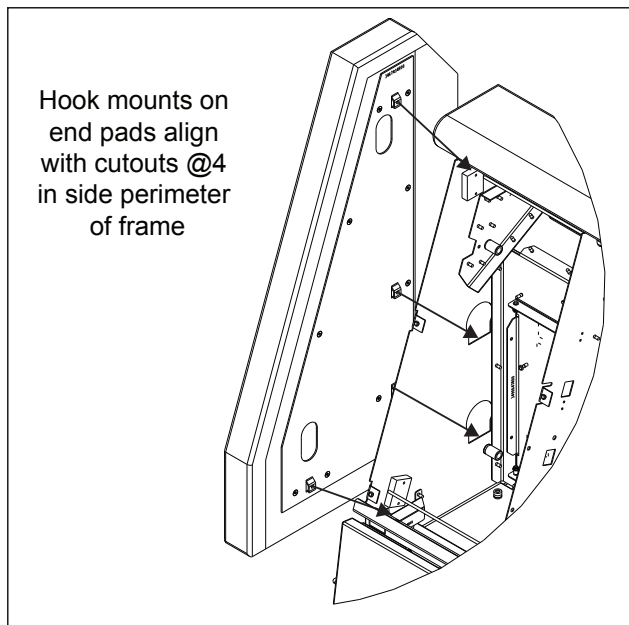
## End Pad Attachment

End pads protect the ends of the table displays and also provide a finished look. To keep the players safe, these pads **must be attached** any time the table is in use during games and events.

The left- and right-side end pads are identical in shape and attach in the same manner but mirror each other. The example shown in **Figure 14** is specific to left-side pads (as viewed from the front), but right-side pads will attach the same way. Note that the table face panel is removed for clarity.

To attach the end pads:

1. Position the end pad at the end of the section. Four hook mounts attached to each end pad align with cutouts in the table frame.
2. Lift the pad up so all four hook mounts may be inserted into the cutouts. It is critical that all four hook mounts are positioned properly so they hold the pad securely onto the end of the table.
3. Slide the pad downward in the angle of the frame after all four hook mounts are properly positioned in the cutouts. This hooks the end pad onto the table.
4. Verify all four brackets are hooked securely into the end of the table to prevent damage to the end pad or possible injury to a player.
5. Repeat steps **1–4** for the end pad at the opposite end of the table(s).



**Figure 14:** *Aligning Brackets with Cutouts*

### 3 Electrical Installation

This scorer's table system is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and/or other applicable local codes. This includes proper grounding and bonding of the sign. This display is suitable for dry locations only. Only qualified individuals should terminate power and signal cable and access the electrical components of this display and its associated equipment.

#### Power Summary

The power from the sectional termination panel routes to the Power In jack on the power supplies. From there, power routes to the individual modules. ProLink Routers (PLRs) are powered by the closest available module. Refer to the appropriate Riser Diagram for detailed power information. Refer to the tables below for power specifications. Note that powers include 10 A for convenience outlets.

ST-2302-6MN-WM ST-2302-10MN-WM				Bus: 120V~ -1P 60 Hz 2W + GND	Branch: 120V~ -1P 60 Hz 2W + GND
Section			Watts	L1 Amps	Total Amps
Mods	Pixels (6MN)	Pixels (10MN)			
2x7	96x336	64x224	1728	14.4	14.4
2x8	96x384	64x256	1800	15.0	15.0
2x9	96x432	64x288	2064	17.2	17.2

ST-2302-6MN-WN ST-2302-10MN-WN				Bus: 120V~ -1P 60 Hz 2W + GND	Branch: 120V~ -1P 60 Hz 2W + GND
Section			Watts	L1 Amps	Total Amps
Mods	Pixels (6MN)	Pixels (10MN)			
2x7	96x336	64x224	1644	13.7	13.7
2x8	96x384	64x256	1704	14.2	14.2
2x9	96x432	64x288	1956	16.3	16.3

ST-2304-6MN-WM ST-2304-10MN-WM				Bus: 120V~ -1P 60 Hz 2W + GND	Branch: 120V~ -1P 60 Hz 2W + GND
Section			Watts	L1 Amps	Total Amps
Mods	Pixels (6MN)	Pixels (10MN)			
2x7	96x336	64x224	1980	16.5	16.5
2x8	96x384	64x256	2064	17.2	17.2
2x9	96x432	64x288	2148	17.9	17.9

ST-2304-6MN-WM ST-2304-10MN-WM				Bus: 230V~ -1P 50 Hz 2W + GND	Branch: 230V~ -1P 50 Hz 2W + GND
Section			Watts	L1 Amps	Total Amps
Mods	Pixels (6MN)	Pixels (10MN)			
2x7	96x336	64x224	3048	13.3	13.3
2x8	96x384	64x256	3140	13.7	13.7
2x9	96x432	64x288	3209	14.0	14.0



## Signal Summary

Depending on display application and control room design, display data may route from the control room to the display by a number of different pieces of equipment. The most common are the ProLink6 control system, the A/B transmitter interface, and the Video Image Processor (VIP) video interface itself.

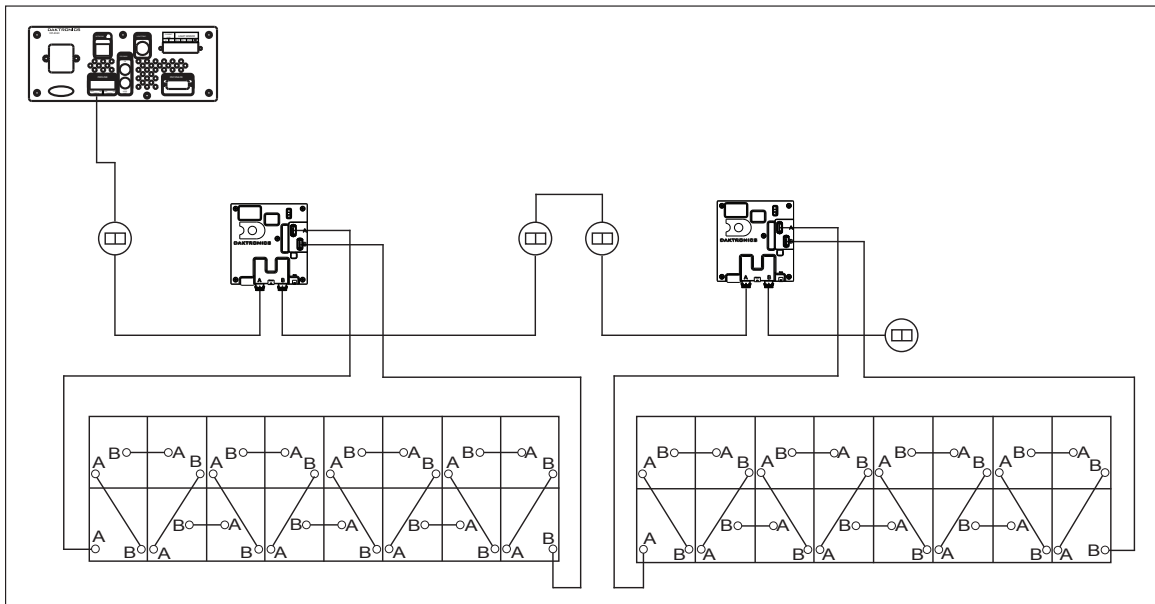
The Layout; Component Placement Drawings and Block Diagrams in **Appendix A** illustrate the signal layout of each section of the display. The Config Drawing and Riser Diagram illustrate the signal connections from the control room to ProLink Routers (PLRs) in the display or from section to section of the display.

Data from the control system routes via fiber-optic cable from Fiber Port A on the VIP to a PLR in the display. Refer to the **VIP-5X6X Operator's Manual (DD2773152)** for details. The VIP may be located inside the display or in the control room or other remote location. Refer to the appropriate Config Drawing and Riser Diagram for more routing information.

The Riser Diagram illustrates the fiber layout from section to section of the display.

The Layout; Component Placement Drawings and Block Diagrams in **Appendix A** illustrate how data passes from one PLR to the modules and depict power harnessing and component placement.

Each PLR sends data to the modules within the display. Refer to the Layout; Component Drawings and Block Diagrams in **Appendix A** for routing information. Signal exits via fiber-optic cable from Fiber Port B on the PLR and routes to Fiber Port A on the next PLR. **Figure 15** illustrates a typical signal routing layout. Refer to the appropriate Config Drawing and Riser Diagram for further information.



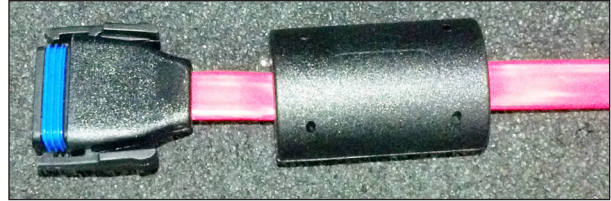
**Figure 15:** Signal Routing (Front View)

## Common Connectors

When pulling a connector from a plug, pull the jack itself, not the wire or cable. Pulling the wires may damage the connector. Not all of these connectors are found in every display.

### Water-Tight SATA Cable Connector

Daktronics uses a variety of SATA cables and SATA cable connectors. **Figure 16** illustrates one of the most commonly used SATA cable connectors. To disconnect the SATA cable connector, squeeze the side locking clips inward and pull the plug out of the jack.



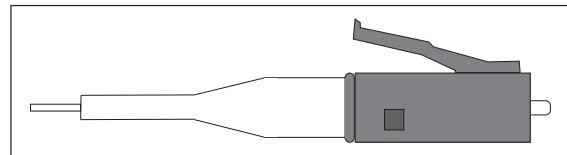
**Figure 16:** SATA Cable Connector

### Fiber-Optic Connector

LC connectors are square. To remove an LC connector, depress the small clip on the jack and gently remove. Refer to **Figure 17** and **Figure 18**.



**Figure 17:** LC Industrial Fiber-Optic Connector



**Figure 18:** LC Fiber-Optic Connector

## Control Cable

Refer to the appropriate Riser Diagram for specifications on signal and power cable runs. Refer to the **VIP-5X6X Operator's Manual (DD2773152)** for more information on the Video Image Processor (VIP).

The minimum bend radius for this fiber-optic cable is 15 times the outside diameter of the cable or 7" (178 mm). Refer to the appropriate Riser Diagram for the outside diameter of the cable in this system. All fiber-optic runs must be continuous except where noted on the Riser Diagram.

## Display Power

All display grounding, power routing, and termination must meet or exceed local codes and standards.

Correct power installation is imperative for display operation. These subsections give details on display power installation. Only qualified individuals should attempt the electrical installation; untrained personnel should not attempt to install displays or any of the electrical components. Improper installation could result in serious equipment damage and could be hazardous to personnel.

The socket outlet must be installed near the equipment in an easy-to-access location.

Ensure all external overcurrent protection meets all local and national electrical codes and is appropriately sized to the load of the sections it is terminating.

Refer to the contract-specific documentation to determine who is responsible for providing conduit and pulling cable through the conduit.

## Grounding

All components of a display system – including but not limited to displays, control equipment, and connected peripheral equipment – must be electrically grounded. Only qualified individuals may perform electrical work, including verification of ground resistance. Daktronics is not responsible for improper grounding or damage incurred as a result of improper grounding.

Grounding methods must meet the provisions of all applicable local and national codes. Inspect and verify all grounding methods meet the provisions of all applicable local and national codes.

Proper grounding is necessary for reliable equipment operation and general electrical safety. Failure to properly ground the display system may void the warranty, disrupt operation, damage equipment, and cause bodily harm or death.

## Power Installation

1. Connect the grounding electrode cable at the local disconnect, never at the display termination panel.
2. Use a disconnect that opens all ungrounded phase conductors.

## Main Disconnect

Refer to the appropriate Riser Diagram to determine who must supply a fused main distribution/disconnect and the necessary wiring for power distribution to multiple display termination panels.

The disconnect mechanism must be located in direct line of sight from the display it controls. This allows workers to keep the disconnect mechanism in view while performing display maintenance. Power disconnects capable of locking in the open position may be located in an out-of-sight location.

The customer or contractor is responsible for conduit and wire unless otherwise stated on contract-specific documentation.

## Convenience & USB Outlets

Scorer's tables are equipped with 6, 8, or 10 convenience outlets, depending on the table's width, for plugging in control equipment and other small electronic devices. A 10 Amp resettable breaker limits the total convenience outlet power draw. Tables also feature 8 USB outlets (2 outlets with 4 ports each) to power cellphones, tablets, and other equipment with USB chargers.

Refer to the Layout; Component Placement Drawings and Block Diagrams in **Appendix A** for outlet and resettable breaker locations.

**Note:** USB outlets are not available on international 240 V models.

## Power Termination at Termination Panel(s)

All power routing and termination must comply with local and national codes and standards. Display grounding must agree with local and national codes and standards.

When terminating power at the termination panel, the individual power phases must balance as evenly as possible. Current draw per line, as noted on the Riser Diagram, is stated as the high leg current draw.

## Display Wiring

### Power Cables

Each scorer's table is equipped with a NEMA® L5-20P flanged inlet (Hubbell® HBL2315).

The power cable (provided by Daktronics) is a 12 AWG SO cable (25', 50', or 75') with a NEMA® L5-20R connector (Hubbell® HBL2313) connected to the table and a NEMA® L5-20P plug (Hubbell® HBL2311) connected to a wall/floor box. Refer to the appropriate Riser Diagram for details on who is supplying the plug.

### Signal Cables

Route the fiber and SATA cables based on the appropriate Block Diagram, Config Drawing, and Riser Diagram in **Appendix A**.

### Interconnect Cables with Embedded Controller

Refer to the appropriate Riser Diagram, **Figure 19**, and **Figure 20** for connection details.



**Figure 19:** Left Connections (Rear View)



**Figure 20:** Right Connections (Rear View)

### Fiber Connections

- **VIP FIBER OUT** to **FIBER IN** on the same table using fiber jumper (part # W-1767) – only used on the first table in a row of tables
- **FIBER OUT** to **FIBER IN** between tables (if required)

### Network Connections

- **NETWORK IN** from control location; may also connect via **DAK NETWORK** convenience outlets
- **INTERNET IN** from modem; provides Internet access to the **DAK NETWORK** convenience outlets
- **NETWORK OUT** to **NETWORK IN** between tables (if required) – only used when multiple tables with embedded controllers are connected together

## Electrical Installation

## Interconnect Cables with External Controller

Refer to the appropriate Riser Diagram, **Figure 19**, and **Figure 20** for connection details.

### Fiber Connections

- **FIBER IN** from VIP at control location or local fiber J-box
- **FIBER OUT** to **FIBER IN** between tables (if required)

### Network Connections

- **INTERNET IN** from modem; provides Internet access to the **DAK NETWORK** convenience outlets

## End-of-Period & Clock Stop Light Strip Kits

### Reference Drawings:

Rear Clock Stop Assy, Manual DWG, ST A3.....**DWG-4630118**

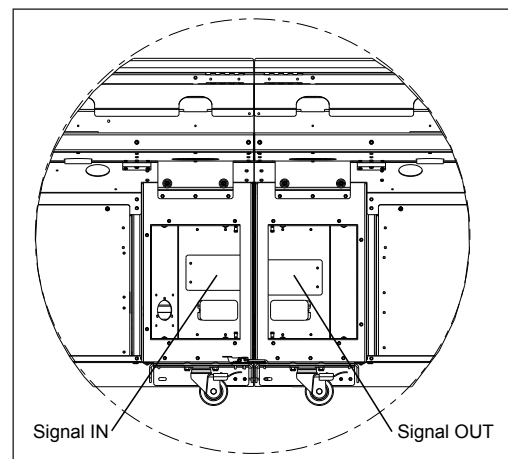
Daktronics scorer's tables may have optional End-of-Period (EOP) light strips running along the bottom front of the table that illuminate at the end of the period. Tables may also feature Clock Stop light strips along the rear cable tray. EOP light strips are typically factory installed, while rear Clock Stop light strips must be installed on site per **DWG-4630118**. Ensure the All Sport controller is connected and powered on as described below.

1. Set the All Sport control console on the tabletop and plug the power cord into one of the convenience outlets.
2. Connect the 10' (3 m) 1/4" phone signal cable (part # W-1340) from **J1**, **J2**, or **J3** on the control console to the SIGNAL IN jack located behind the lower-right rear access door of the primary table.
3. Power on the control console and enter the appropriate sport code found on the keyboard overlay and in the All Sport manual listed in **Light Strip Controllers (p.2)** to test the light strips.

For multiple tables with light strips, connect 5' (1.5 m) 3-pin XLR cables (part # 0A-1313-0114) between the tables. The XLR input and output jacks are located behind the left and right rear access doors. Refer to **Figure 21**.

### NBA Light Strip Kits

The light strip kits for use in NBA facilities may be controlled via Tissot Timing Interface rather than an All Sport control console. Instead of a 1/4" phone cable input on the primary table, there will be two XLR inputs. All connections between tables will remain the same as described above.



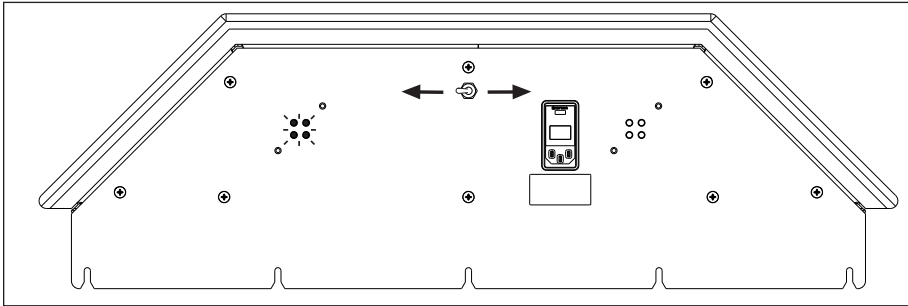
**Figure 21:** Light Strip Input/Output Jacks

## Possession Indicator

### Reference Drawings:

Poss Ind Attachment, Manual DWG; ST A3 ..... **DWG-3547653**

Daktronics scorer's tables may have an optional possession indicator that sits atop the table padding (**Figure 22**). These are designed so they can be positioned approximately every 6.25" (159 mm) to best align with the center of the table(s). **DWG-3547653** illustrates mounting and connection. Possession indicators mount to the rear of the top of the table using included #10-24 x 0.625" machine screws. Plug the power cord into the dedicated convenience outlet labeled **POSS. INDICATOR OUTLET ONLY**. To operate, simply flip the switch on the back of the unit toward the side of the court that has possession, and the LED indicators will illuminate on both the front and back of the unit.



**Figure 22:** Possession Indicator, Rear View

## Display Continuity Check

Before turning on power to the display, perform a continuity check to ensure no short circuits occurred due to shipping vibration.

**Caution: Before performing these steps, ensure all breakers are off.**

1. Remove the cover from the termination panel.
2. Use an ohmmeter and place one probe on the neutral terminal and one probe to each of the taps on the breaker wire terminal. Repeat the same test for each breaker.
3. Place one probe to earth ground and one to each of the breaker wire terminals and repeat for each breaker.

All tests should result in a reading of infinity or indicate an open circuit.

## Display Power Up

1. Turn on the main disconnect/plug in the power cord to power up the display.
2. Power up the control system to ensure it is fully operational before proceeding.
3. Run an initialization/power-up script or animation/logo on the display.



# Signal Redundancy

Each scorer's table is set up for module redundancy.

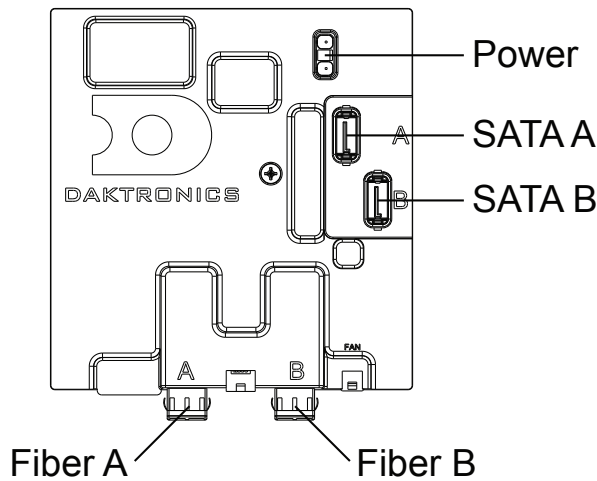
## Module Redundancy

Module redundancy provides a primary and redundant SATA connection throughout the entire display to protect the system from signal failure. If a module in the middle of a signal chain fails, the redundant signal path takes over and limits the signal failure to that single module.

## Module Redundancy Testing

To test the module redundancy wiring after the display has power and signal connected, locate the appropriate Block Diagram in **Appendix A** to verify where the ProLink routers (PLRs) are located. The display needs to be powered and running content. Disconnect the SATA cable from SATA Port A on each PLR individually and verify all modules still display content correctly; reconnect the SATA cable. Disconnect the SATA cable from SATA Port B on each PLR individually and verify all modules still display content correctly; reconnect the SATA cable. Refer to **Figure 23** for details on PLR ports.

If available, Intelligent Device Management (IDM) can also verify the system is working as intended. Refer to the **IDM User Manual (DD2097912)**.



**Figure 23:** PLR Connectors

## 4 Maintenance & Troubleshooting

Turn off power before performing any repair or maintenance work. Only qualified service personnel may access internal electronics.

Daktronics product managers' engineering staff must approve any changes that may affect the display's structural integrity. If any changes are made to the display, submit detailed drawings to Daktronics engineering staff for evaluation and approval, or the warranty will be null and void.

### Recommended Tools

When performing maintenance work on the display, Daktronics recommends using the following tools and placing them in a convenient, easy-to-use location.

Tool	Part Number	Use
#2 Phillips screwdriver	TH-1061	Opens rear access panels and removes front plex
5/16" T-handle wrench	TH-1088	Engages tabletop latches
5/16" nutdriver	TH-1156	Removes components
Ball detent T-handle	TH-1190	Removes modules
11/32" nutdriver	TH-1201	Removes power supplies

These tools are found in the toolkit (0A-1778-0001). The toolkit includes items in addition to those on the list above, and additional replacement tools may be ordered directly from Daktronics. Refer to **Daktronics Exchange and Repair & Return Programs (p.24)**.

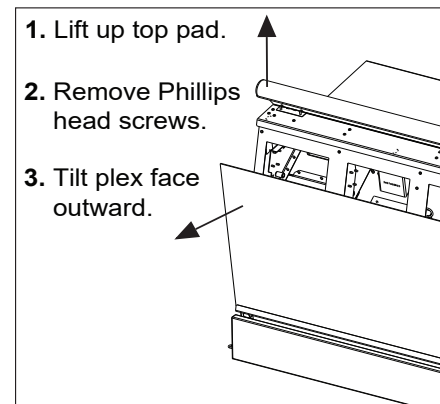
### Display Access & Component Removal

Scorer's tables are designed for either front or rear access, depending on site requirements and customer preference.

While components in front-access displays are simply removed from the front, access doors in rear-access displays must be removed to reach the internal display components.

#### Front Access

1. Locate the component to remove on the Layout; Component Placement Drawing in **Appendix A**.
2. Disconnect the power to the display.
3. To access the modules, lift up the top pad, remove the Phillips head screws along the top of the protective plex face panel, and tilt the face panel outward. Refer to **Figure 24**.



**Figure 24:** Front Access

**Note:** If a possession indicator is attached, it must be removed before the top pad can be lifted up. Alternately, an end pad may be removed to allow the front face panel to slide out sideways.

4. Locate the module or corresponding component behind it to be removed, and use a ball detent T-handle (Daktronics part # TH-1190) to pull the magnets away from the module mounting sheet.



- To use a ball detent T-handle, depress the plunger, insert the T-handle into the hole, then release the plunger. Carefully pull the module away from the display.
5. Disconnect all power and signal cables from the module.
  6. Remove the component:
    - **Module:** If the module was the component that needed to be replaced, simply connect the power and signal cables to a new module, and then insert it into the display, noting the rear markings for correct orientation. Skip ahead to **Step 10**.
    - **Power Supply:** Use an 1 1/32" nutdriver (part # TH-1201) to loosen the screws holding the power supply to the display. Remove the power supply from the mounting bracket.
    - **ProLink Router (PLR):** Use a #2 Phillips screwdriver (part # TH-1061) to loosen the screws holding the PLR to the display.
    - **Other components:** Use a 5/16" nutdriver (TH-1156) to loosen the nuts holding the component to the display and lift the keyhole cutouts over the nuts.
  7. Disconnect all cables from the component, and gently remove it from the display.
  8. Re-connect all cables to the new component, and then mount it inside the display using the hardware and tools described in **Step 6**.
  9. Re-connect the power and signal cables to the module that was removed to access the component, and then insert it into the display, noting the rear markings for correct orientation.
  10. Put the protective plex face panel back in place in front of the modules.
  11. Power on and test the display to verify the issue has been resolved.

## Rear Access

1. Locate the component to remove on the Layout; Component Placement Drawing in **Appendix A**.
2. Disconnect the power to the display.
3. Lift the tabletop upward and secure in place as described in **Table Setup (p.3)**.
4. Use a #2 Phillips screwdriver (part # TH-1061) to remove the two screws securing the access door.
5. Carefully allow the access door to rotate downward into the open position.
6. Remove the component:
  - **Power Supply:** Use an 1 1/32" nutdriver (part # TH-1201) to loosen the screws holding the power supply to the display. Remove the power supply from the mounting bracket.
  - **ProLink Router (PLR):** Use a #2 Phillips screwdriver (part # TH-1061) to loosen the screws holding the PLR to the display.
  - **Other components:** Use a 5/16" nutdriver (TH-1156) to loosen the nuts holding the component to the display and lift the keyhole cutouts over the nuts.
7. Disconnect all cables from the component, and gently remove it from the display.
8. Re-connect all cables to the new component, and then mount it inside the display using the hardware and tools described in step **5**.
9. Power on and test the display to verify the issue has been resolved.

# Components

## Line Filter

**Figure 25** illustrates a line filter. The line filter removes the electromagnetic noise that might otherwise interfere with local communication channels from the power system. The line filter mounts to the sectional termination panel.

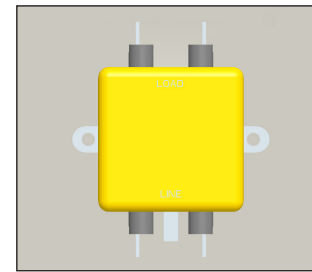


Figure 25: Line Filter

## Power Supply

**Figure 26** illustrates a typical power supply, also referred to as a power module. The power supply mounts to the display on a mounting plate. The power harnesses connected to the unit vary depending on power supply type and overall display application.



Figure 26: Power Supply

**Caution! Disconnect display power before servicing the power supplies to avoid electrical shock. The power supplies run on high voltage and may cause physical injury if touched.**

## ProLink Router

**Figure 27** illustrates a ProLink Router (PLR). The PLR is a display interface board that passes display data from the ProLink6 control system modules and other PLRs.

Refer to the **PLR 6X5X Installation & Maintenance Manual (DD1735784)** for further information.

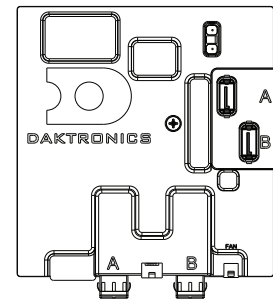


Figure 27: PLR

## Digital Media Player

**Figure 28** illustrates a Digital Media Player (DMP). The DMP is a device primarily intended to store or deliver content files to a display directly through an intermediate device, such as a processor or a signal converter. The DMP may be located inside the scorer's table or in a separate control location.



Figure 28: DMP

Refer to the **DMP-8000 Operator's Manual (DD2874530)** for further information.

## Video Image Processor

**Figure 29** illustrates a Video Image Processor (VIP). The VIP is an interface that drives content to the display while also dimming, providing gamma and color controls, and displaying test patterns. The VIP may be located inside the scorer's table or in a separate control location.



Figure 29: VIP

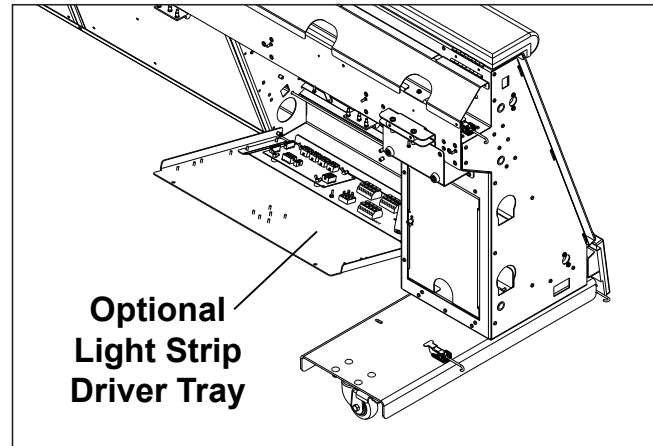
Refer to the **VIP-5X6X Operator's Manual (DD2773152)** for further information.

## LED Drivers

Scorer's tables with optional light strips will include an LED driver to control when the light strips turn on and off. Refer to **Figure 30** to view the location of light strip driver tray(s) in the scorer's table.

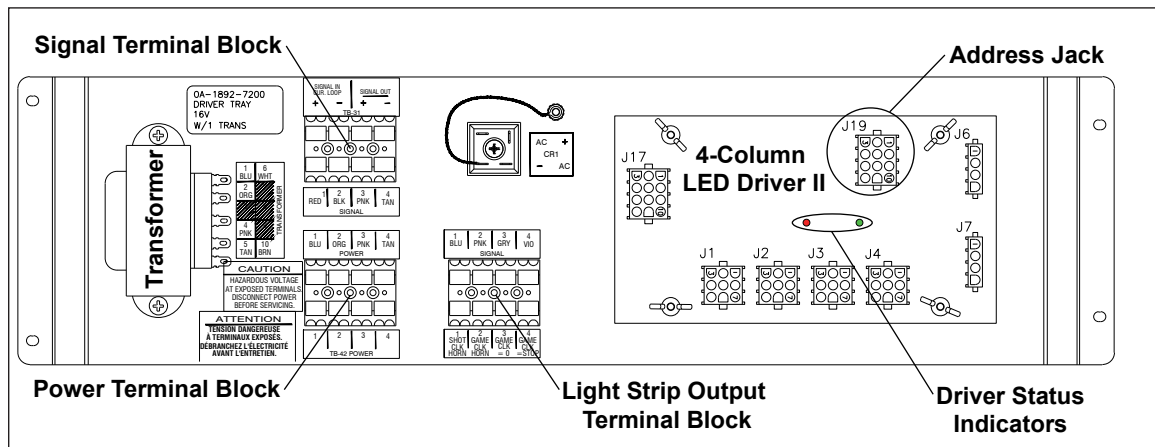
**Note:** Light strips on tables used in NBA facilities controlled by the Tissot interface will have no internal LED drivers.

**Note:** Scorer's tables built prior to September 2017 may have 2 LED drivers that control each light strip separately.



**Figure 30:** Driver Tray Location

Refer to **Figure 31** for the components of an optional light strip driver tray.



**Figure 31:** Light Strip Driver Tray Components

The light strip output terminal block determines when the light strips will illuminate. By default, end-of-period light strips are triggered when the game clock equals 0, and clock stopped light strips are triggered when the clock equals stopped. Either type of light strip may instead be set to illuminate when the shot clock horn or the game clock horn sounds. Move the gray wire to the appropriate terminal for the desired function.

When troubleshooting 4-column driver problems, two diagnostic LED indicators labeled **DS1** and **DS2** provide the following driver status information:

LED	Color	Function	Operation	Summary
DS1	Red	Signal RX	Steady on or blinking	<ul style="list-style-type: none"> <li>On or blinking when driver is receiving signal</li> <li>Off when there is no signal</li> </ul>
DS2	Green	Power	Steady on	<ul style="list-style-type: none"> <li>On and steady when driver is receiving power</li> </ul>

**Note:** While it is necessary to have the display powered on to check the LED status indicators, always disconnect power before servicing.

## Replacing a Driver

If the driver status indicators do not appear to be working correctly, it may be necessary to replace the driver.

1. Open the table from the rear as described in **Display Access & Component Removal (p.16)**.
2. Disconnect all plugs from the driver by squeezing together the locking tabs and pulling the connectors free. It may be helpful to label the cables to know which cable goes to which connector when attaching the new driver.
3. Remove the wing nuts securing the driver to the driver tray.
4. Carefully lift the driver from the display and place it on a clean, flat surface.
5. Position a new driver over the screws and tighten the nuts.
6. Reconnect all plugs to the driver. These are keyed connectors and will attach in one way only. Do not force the connections.
7. Ensure the new driver is set to the correct address. This will be the same address of the old driver being replaced. Refer to **Setting the Driver Address (p.20)**.
8. Close and secure the access panel, then power up and test the display to verify the issue has been resolved.

## Setting the Driver Address

For the light strip driver to receive signal and function properly, the driver must be set to the correct address.

### Optional light strip drivers use Address 1.

This address is set with jumper wires in a 12-pin plug which mates with jack **J19**, located in the upper-right corner of the driver (**Figure 31**). It may be possible to reuse the same address plug from the driver that was replaced. If not, order an **Address 1** plug (Daktronics part # 0A-1150-0122).

## Tabletop Possession Indicators

To replace an optional tabletop possession indicator arrow/colon:

1. Unplug the possession indicator from the designated convenience outlet.
2. Remove the screws securing the possession indicator cover.
3. Disconnect the power/signal cable from the malfunctioning indicator.
4. Use a 11/32" nut driver to remove the nuts securing the indicator, and then lift it off the stud inserts.
5. Position a new indicator over the studs (making sure the small plastic spacers are still in place), and then tighten the nuts.
6. Reconnect the power/signal cable, and replace all screws for the indicator cover.
7. Plug the possession indicator back into the designated convenience outlet, then power up and test the display to verify the issue has been resolved.

## Troubleshooting

The tables below list potential problems with the display and indicates possible corrective actions. The lists do not include every symptom that may be encountered, but they do present several of the most common situations that can occur.

### Display

Display Problem	Troubleshooting Steps
Module is blank or garbled	<ul style="list-style-type: none"> <li>• Check the power status LEDs on all power supplies and modules connected to the module.</li> <li>• Check the SATA cable input into the module and the output from the previous module or PLR.</li> <li>• Perform a module self-test. Refer to the <b>MOD.PL51.55PAV0K Module Manual (DD2095218)</b> for instructions.</li> </ul>
Section of display is blank	<ul style="list-style-type: none"> <li>• Ensure the section is receiving power and all breakers are turned on.</li> <li>• Ensure the power status LEDs on the modules, power supplies, and ProLink Routers (PLRs) in the blank section are on.</li> <li>• Ensure the connections to the PLR are secure. Change the connections with one another to test.</li> <li>• Ensure the fiber-optic signal is connected to the PLR or patch panel.</li> <li>• Perform a PLR loopback test to test the PLRs in the section. Refer to the <b>PLR 6X5X Installation &amp; Maintenance Manual (DD1735784)</b> for instructions.</li> </ul>
Entire display is blank	<ul style="list-style-type: none"> <li>• Ensure the display is receiving power and all breakers are turned on. When power is applied to the display, power supply LEDs should turn on.</li> <li>• Ensure the Video Image Processor (VIP) is not blank.</li> <li>• Ensure the fiber-optic signal cable is connected to the VIP. The input signal should be locked. If the input signal is not locked, check the fiber connections.</li> </ul>
Entire display is garbled or uncontrollable	<ul style="list-style-type: none"> <li>• Use the test patterns to check the VIP status LEDs and ensure the board is receiving power. Refer to the <b>VIP-5X6X Operator's Manual (DD2773152)</b> for instructions.</li> <li>• Verify the controller/content player configuration and restart the display service.</li> <li>• Ensure the fiber-optic signal cable is connected to the VIP. The input signal should be locked. If the input signal is not locked, check the fiber connections.</li> </ul>

## Light Strips

Problem	Possible Cause	Solution/Items to Check
Light strips do not light	No power to the control console	Ensure the console is plugged into a convenience outlet or 120 VAC power supply. Exchange the console with a working console and enter the correct sport code to test. Replace console if necessary.
	No wired signal from the console	Ensure a 1/4" phone signal cable is connected between <b>J1</b> , <b>J2</b> , or <b>J3</b> on the control console and the signal jack located behind the right rear access door.
	Improper connection between tables	Ensure 3-pin XLR cables are connected between all tables with light strips. The XLR input and output jacks are located behind the right and left rear access doors, respectively.
	Incorrect sport code	Ensure the correct sport code is being used. Refer to the console operation manual in <b>Light Strip Controllers (p.2)</b> .
	No signal to driver	Check that the red DS1 LED on the light strip driver lights up when sending commands from the control console. See <b>LED Drivers (p.19)</b> .
	No power to driver	Check that the green DS2 LED on the light strip driver remains lit up when the display is powered on. See <b>LED Drivers (p.19)</b> .
	Incorrect driver address or function	Check that the light strip driver is set to the correct address or function. See <b>LED Drivers (p.19)</b> .

## Replacement Parts

Part Description	Daktronics Part #
XLR Cable, M to F; 3' [Light Strips]	0A-1313-0114
ProLink Router (PLR)	0A-1487-6000
Video Image Processor (VIP)	0A-1603-5104
Power Cable, 25' (7.62 m)	0A-1697-7102
Power Cable, 50' (15.24 m)	0A-1697-7103
Power Cable, 75' (22.86 m)	0A-1697-7104
Power Cable, 25' (7.62 m), 250V	0A-1697-7105
Power Cable, 50' (15.24 m), 250V	0A-1697-7106
Power Cable, 75' (22.86 m), 250V	0A-1697-7107
Configured Router, 8-Port	0A-1778-7202
Digital Media Player (DMP)	0A-1778-7204
Toolkit	0A-1892-0001
LED Driver II, 4-Column [Light Strips]	0P-1150-0130
Red Arrow, 3" [Possession Indicator]	0P-1150-0185
Red Colon, 1" [Possession Indicator]	0P-1230-0070
Power Supply; 12V, 85-264VAC, 150W	A-2855
Network Switch, 10-Port	A-3488
Table Latch	HS-1669
Duplex LC Fiber Jack, with dust cap	J-1434
Duplex LC Fiber Jack, without dust cap	J-1512
Transformer, 115/230V; 6.25A [Light Strips, Possession Indicator]	T-1066
1/4" Phone Cable, 10' (3 m)	W-1340
Cat5e Cable, 3' (1 m)	W-1546
Fiber Optic Cable, 10' (3 m)	W-1658
Fiber Optic Cable, 3' (1 m)	W-1767
Fiber Optic Cable, 82' (25 m)	W-1768
Cat5e Cable, 30' (9 m)	W-1999
Fiber Optic Cable, 42' (13 m)	W-2003
Fiber Optic Cable, 26' (8 m)	W-2030
Fiber Optic Cable, 124.6' (38 m)	W-3221881
Fiber Optic Cable, 164' (50 m)	W-3221882
Fiber Optic Cable, 200' (61 m)	W-3221885
Fiber Optic Cable, 249.3' (76 m)	W-3221888
LED Module	Order-specific



## 5 Daktronics Exchange and Repair & Return Programs

### Exchange Program

The Daktronics Exchange Program is a service for quickly replacing key components in need of repair. If a component fails, Daktronics sends a replacement part to the customer who, in turn, returns the failed component to Daktronics. This decreases equipment downtime. Customers who follow the program guidelines explained below will receive this service.

Before contacting Daktronics, identify these important numbers:

**Display Serial Number:** \_\_\_\_\_

**Display Model Number:** \_\_\_\_\_

**Job/Contract Number:** \_\_\_\_\_

**Date Manufactured/Installed:** \_\_\_\_\_

**Daktronics Customer ID Number:** \_\_\_\_\_

To participate in the Exchange Program, follow these steps:

#### 1. Call Daktronics Customer Service.

Market Description	Customer Service Number
Schools (including community/junior colleges), religious organizations, municipal clubs, and community centers	877-605-1115 Fax: 605-697-4444
Universities and professional sporting events, live events for auditoriums, and arenas	866-343-6018 Fax: 605-697-4444

#### 2. When the new exchange part is received, mail the old part to Daktronics.

If the replacement part fixes the problem, send in the problem part being replaced.

- a. Package the old part in the same shipping materials in which the replacement part arrived.
- b. Fill out and attach the enclosed UPS shipping document.
- c. Ship the part to Daktronics.

#### 3. The defective or unused parts must be returned to Daktronics within 5 weeks of initial order shipment.

If any part is not returned within five (5) weeks, a non-refundable invoice will be presented to the customer for the costs of replenishing the exchange parts inventory with a new part. Daktronics reserves the right to refuse parts that have been damaged due to acts of nature or causes other than normal wear and tear.



## Repair & Return Program

For items not subject to exchange, Daktronics offers a Repair & Return Program. To send a part for repair, follow these steps:

**1. Call or fax Daktronics Customer Service.**

Refer to the appropriate number in the chart on the previous page.

**2. Receive a case number before shipping.**

This expedites repair of the part.

**3. Package and pad the item carefully to prevent damage during shipment.**

Electronic components, such as printed circuit boards, should be placed in an antistatic bag before boxing. Daktronics does not recommend using packing peanuts when shipping.

**4. Enclose:**

- name
- address
- phone number
- the case number
- a clear description of symptoms

**5. Ship to:**

Daktronics Customer Service  
[Case #]  
201 Daktronics Drive, Dock E  
Brookings, SD 57006

## Daktronics Warranty & Limitation of Liability

The Daktronics Warranty & Limitation of Liability is located at the end of this manual. The Warranty is independent of Extended Service agreements and is the authority in matters of service, repair, and display operation.

# Glossary

**Digital Media Player (DMP):** a device primarily intended to store or deliver content files to a display directly through an intermediate device, such as a processor or a signal converter.

**Lanyard Attachment Ring:** a ring found on the back of each module. The lanyard attaches to the ring to keep the module from falling to the ground.

**Latch Release:** a device that holds the module firmly to the display frame. There are two per module, one on the top and one on the bottom.

**Light Emitting Diode (LED):** a low energy, high intensity lighting unit.

**Line Filter:** a device that removes electromagnetic noise from the power system to avoid interference with local communications channels. Line filters sometimes mount on brackets with power supplies. Other times they may mount alone on a bracket.

**Louver:** a plastic shade positioned horizontally above each pixel row. Louvers increase the contrast level on the display face and direct LED light for easier viewing.

**Module:** a display board with LEDs, a driver board or logic card, a black plastic housing, and a module latch assembly. Each module is individually removable from either the front or the rear of the display.

**Module Latch:** an assembly using a rotating retainer bar to hold the module firmly to the display frame. There are two per module, one near the top and one near the bottom.

**Pixel:** the smallest single point of light on a display that can be turned on and off. For LED displays, a pixel is the smallest block of light-emitting devices that can generate all available colors.

**Power Supply:** a device that converts AC line voltage from the termination panel to low DC voltage from one or more module driver boards. One power supply may power multiple modules.

**ProLink Router (PLR):** a display interface board that passes display data from the ProLink6 control system modules and other PLRs. The ratio of PLRs to modules varies with display application.

**Termination Block:** an electrical point usually used to connect internal power and signal wires to wires of the same type coming into the display from an external source.

**Video Image Processor (VIP):** an interface that drives video to the display while also dimming, providing gamma and color controls, and displaying test patterns.

# A Reference Drawings

Refer to **Resources (p.1)** for information regarding how to read the drawing number. Any contract-specific drawings take precedence over the general drawings.

## Reference Drawings:

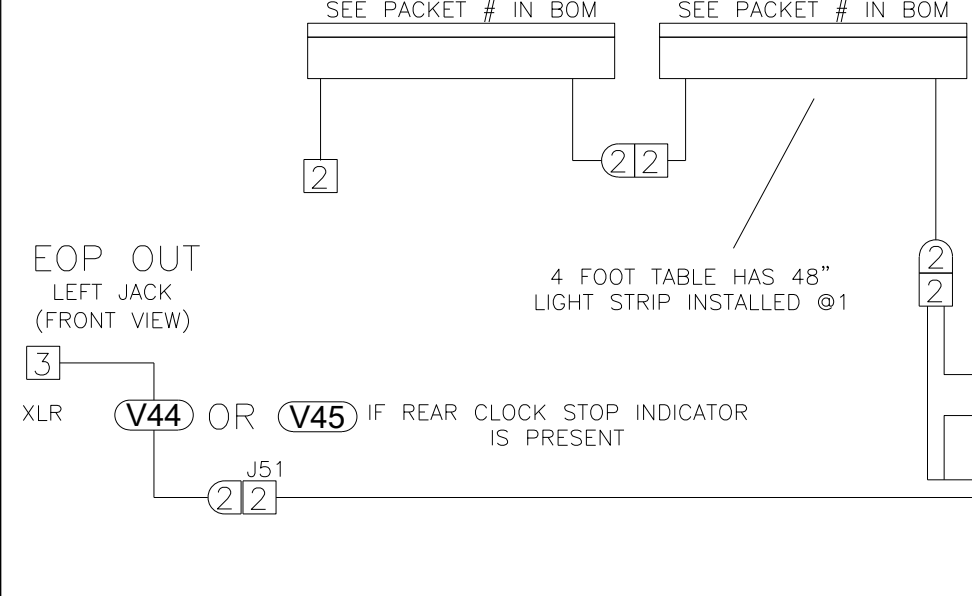
Schem; Table Top Poss. Indicator w/ Pwr Cord .....	DWG-3378521
Block Dgrm; 9,8,7,4-Wide, Light Strip Ctrl EOP .....	DWG-3381207
Block Dgrm; 9,8,7-Wide, Light Strip Ctrl, Clk Stop .....	DWG-3381215
Block Dgrm; 9,8,7,4-Wide, Lt Strip Ctrl Sec. Tbl .....	DWG-3381221
N B Block Diagram; Signal, ST A3, 2x9 .....	DWG-3386082
N B Block Diagram; Power, ST A3, 2x9 .....	DWG-3386129
Schematic; 4Col Drvr-16V Light Strip Control .....	DWG-3394094
Block Diagram; Control, ST A3.....	DWG-3397168
Layout; Component Placement, ST-23XY, 2x9 .....	DWG-3397951
N B Block Diagram; Signal, ST A3, 2x8.....	DWG-3398995
N B Block Diagram; Signal, ST A3, 2x7.....	DWG-3398996
N B Block Diagram; Power, ST A3, 2x8 .....	DWG-3399066
N B Block Diagram; Power, ST A3, 2x7 .....	DWG-3399067
Layout; Component Placement, ST-23XY, 2x8.....	DWG-3400909
Layout; Component Placement, ST-23XY, 2x7 .....	DWG-3400913
Mechanical Specs; ST-23XY/ST-29XY .....	DWG-3407212
Block Dgrm; 9,8,7,4-Wide,Light Strip Ctrl EOP Intl .....	DWG-3408332
Block Dgrm; 9,8,7-Wide,Lt Strip Ctrl, Clk Stop Intl .....	DWG-3408333
N B Block Diagram; Power, ST A3, 2x7 Intl .....	DWG-3409198
N B Block Diagram; Power, ST A3, 2x8 Intl.....	DWG-3409762
N B Block Diagram; Power, ST A3, 2x9 Intl.....	DWG-3409763
Shop; ST-23XY/ST-29XY, 64x288-10 / 96x432-6 .....	DWG-3412819
Shop; ST-23XY/ST-29XY, 64x576-10 / 96x864-6 .....	DWG-3413038
Component Placement, ST-23XY, 2X9 Intl .....	DWG-3413681
Component Placement, ST-23XY, 2X8 Intl .....	DWG-3414048
Component Placement, ST-23XY, 2X7 Intl .....	DWG-3414177
Block Diagram; Control, ST A3, Intl.....	DWG-3417617
Shop; ST-23XY/ST-29XY, 64X864-10 / 96X1296-6 .....	DWG-3421834
Shop; ST-23XY/ST-29XY, 64X1152-10 / 96X1728-6 .....	DWG-3421854
Block Diagram; Network Kit, Domestic .....	DWG-3439592
Block Diagram; Network Kit, International.....	DWG-3439681
Riser; ST-23XY-64X1152 / 96X1728-6 .....	DWG-3451356
Riser; ST-23XY-64X864 / 96X1296-6 .....	DWG-3460217
Riser; ST-23XY-64X576 / 96X864-6.....	DWG-3460218
Riser; ST-23XY-64X288 / 96X432-6.....	DWG-3460219
Block Diagram; NBA Prim, 9,8 & 7 Wide Light Strips .....	DWG-3523509
Poss Ind Attachment, Manual DWG; ST A3 .....	DWG-3547653
Schematic; 4Col Drvr-16V Clk Stop/EOP Control .....	DWG-3702158
Block Diagram; Clk Stop/EOP Light Strip Cntrl .....	DWG-3702317
Block Dgrm; Clk Stop/EOP Light Strip Cntrl Intl .....	DWG-3702322
ST A3 Light Strip Assembly .....	DWG-4625313
Rear Clock Stop Assy, Manual DWG, ST A3.....	DWG-4630118

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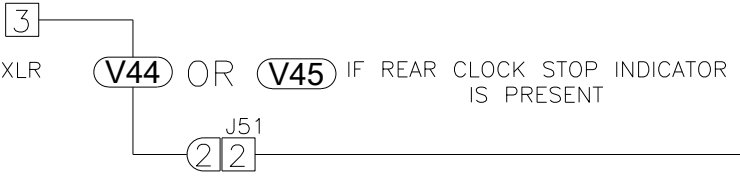


LIGHT STRIP SETUP WITH DRIVER  
TO TEST: USE A/S 5010 CODE 1103

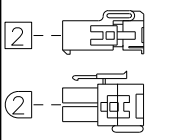
9-WIDE TABLE LENGTHS 56" FRONT LIGHT STRIP  
8-WIDE TABLE LENGTHS 49.5" FRONT LIGHT STRIP  
7-WIDE TABLE LENGTH --- SEE PACKET # IN BOM --- 87" FRONT LIGHT STRIP @ 1



EOP OUT  
LEFT JACK  
(FRONT VIEW)



REAR VIEW

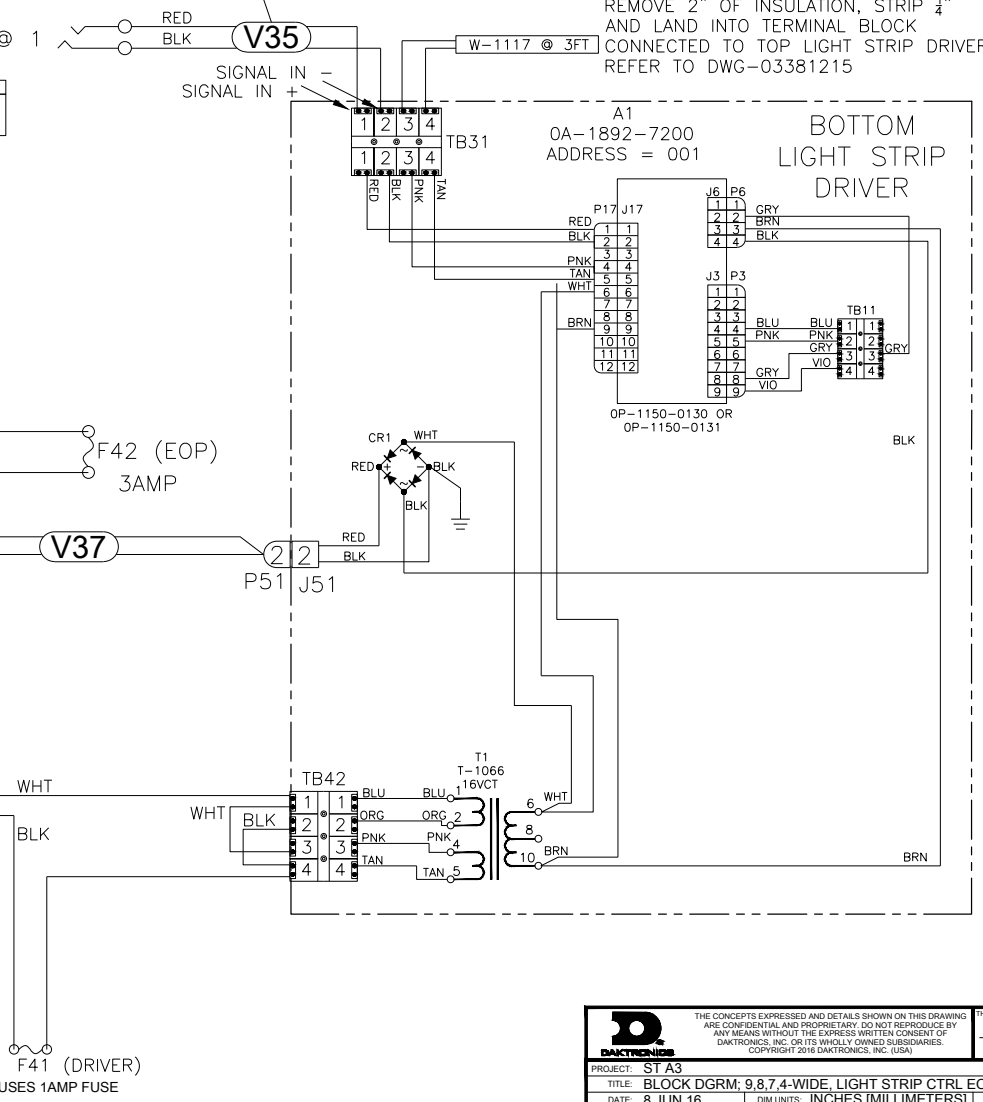


- 1 @ V35 OA-1150-0127 SIGNAL HARNESS, 1/4" PHONE JACK- SPADES 3'
- 1 @ V36 OA-1892-7008 HARNESS; ST-20XX, 3 PIN PWR TO PIGTAIL
- 1 @ V37 OA-1892-7012 HARNESS, 8 & 10FT TABLE, LIGHT STRIP Y & FUSE TERM
- 1 @ V44 OA-1892-7022 PLATE ASSY; PRIMARY LIGHT STRIP OUT (EOP), ST A3
- 1 @ V45 OA-1892-7024 PLATE ASSY; SECONDARY LIGHT STRIP OUT (EOP/CLK STOP), ST A3

CONNECT TO HARNESS  
COMING FROM TERM BLOCK.  
REFER TO DWG-03386129

NON-MATRIX TABLES  
CUT MATE-N-LOK END OFF  
SPLICE WITH E-1178 AT  
POWER ENTRANCE

CUT OFF LOCKING FORKS,  
STRIP 1/4"  
AND LAND INTO  
TERMINAL BLOCK



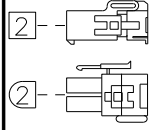
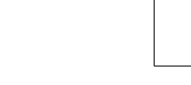
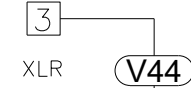
		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE OR ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)</small>			
PROJECT:	ST A3	TITLE:	BLOCK DGRM; 9,8,7,4-WIDE, LIGHT STRIP CTRL EOP	SHEET	REV
DATE:	8 JUN 16	DIM UNITS:	INCHES [MILLIMETERS]		
SCALE:	NTS	DO NOT SCALE DRAWING			
DESIGN:	ACAMPBE	JOB NO.:	P1778	FUNC - TYPE - SIZE:	F - 01 - B
DRAWN:	AHUNTER				3381207

LIGHT STRIP SETUP WITH DRIVER

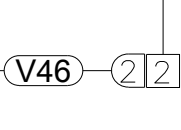
TO TEST: USE A/S 5010 CODE 1103

REMOVE 2" OF INSULATION, STRIP 1/4"  
AND LAND INTO TERMINAL BLOCK  
FROM TOP LIGHT STRIP DRIVER  
REFER TO DWG-03381207

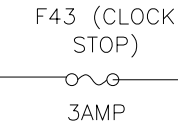
CLOCK STOP  
OUT  
RIGHT XLR JACK  
(FRONT VIEW)



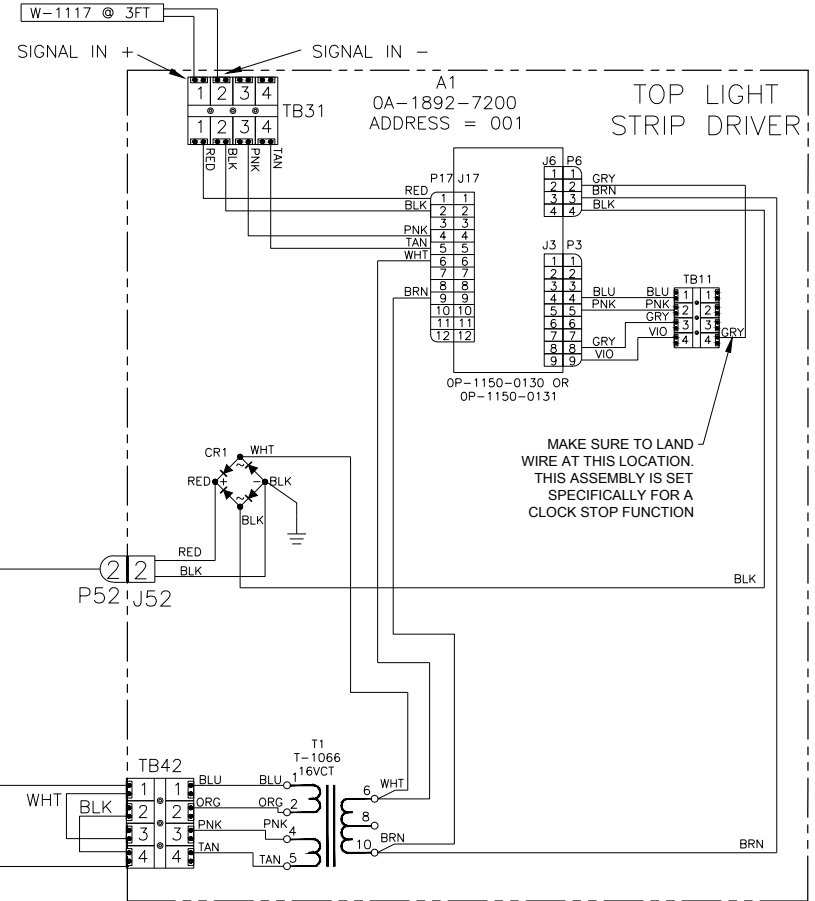
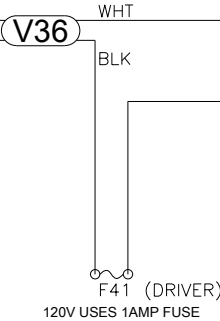
CABLE TRAY  
CLK STOP OUT



REAR VIEW



CONNECT TO HARNESS  
COMING FROM TERM BLOCK.  
REFER TO DWG-03386129



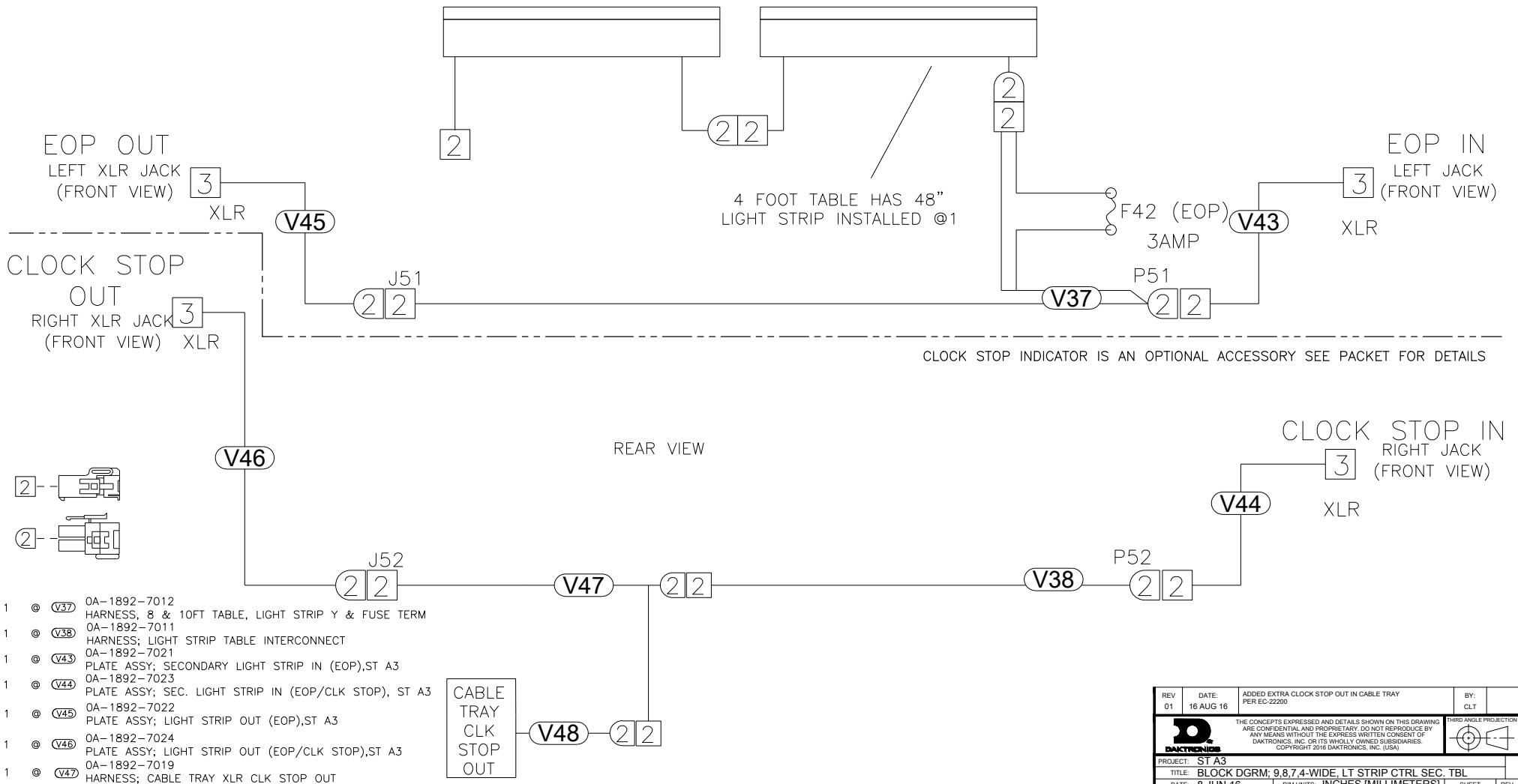
- 1 @ V38 0A-1892-7010 HARNESS; LIGHT STRIP FUSE CONNECTION
- 1 @ V44 0A-1892-7024 HARN; LIGHT STRIP OUTPUT, M F XLR TO MINI M-N-L
- 1 @ V36 0A-1892-7008 HARNESS; ST-20XX, 3 PIN PWR TO PIGTAIL
- 3FT @ W-1117 CABLE; 2 COND 18 AWG STRAND SHIELDED
- 1 @ V45 0A-1892-7019 HARNESS; CABLE TRAY XLR CLK STOP OUT
- 1 @ V46 0A-1697-7113 HARN; LIGHT STRIP OUTPUT, XLR TO 2P M MINI

REV 01	DATE 16 AUG 16	ADDED EXTRA CLOCK STOP OUT IN CABLE TRAY PER EC-22200	BY: CLT

PROJECT: ST A3	TITLE: BLOCK DGRM; 9,8,7-WIDE, LIGHT STRIP CTRL, CLK STOP		
DATE: 8 JUN 16	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE: NTS	DO NOT SCALE DRAWING		
DESIGN: ACAMPBE	JOB NO. P1778	FUNC - TYPE - SIZE F - 01 - B	3381215
DRAWN: AHUNTER			

LIGHT STRIP SETUP WITHOUT DRIVER

9-WIDE TABLE LENGTHS 56" FRONT LIGHT STRIP 56" FRONT LIGHT STRIP  
 8-WIDE TABLE LENGTHS 49.5" FRONT LIGHT STRIP 49.5" FRONT LIGHT STRIP  
 7-WIDE TABLE LENGTH ----- 87" FRONT LIGHT STRIP @ 1  
 SEE PACKET # IN BOM SEE PACKET # IN BOM



- 1 © (V37) 0A-1892-7012 HARNESS, 8 & 10FT TABLE, LIGHT STRIP Y & FUSE TERM
- 1 © (V38) 0A-1892-7011 HARNESS; LIGHT STRIP TABLE INTERCONNECT
- 1 © (V43) 0A-1892-7021 PLATE ASSY; SECONDARY LIGHT STRIP IN (EOP),ST A3
- 1 © (V44) 0A-1892-7023 PLATE ASSY; SEC. LIGHT STRIP IN (EOP/CLK STOP), ST A3
- 1 © (V45) 0A-1892-7022 PLATE ASSY; LIGHT STRIP OUT (EOP),ST A3
- 1 © (V46) 0A-1892-7024 PLATE ASSY; LIGHT STRIP OUT (EOP/CLK STOP),ST A3
- 1 © (V47) 0A-1892-7019 HARNESS; CABLE TRAY XLR CLK STOP OUT
- 1 © (V48) 0A-1697-7113 HARN; LIGHT STRIP OUTPUT, XLR TO 2P M MINI

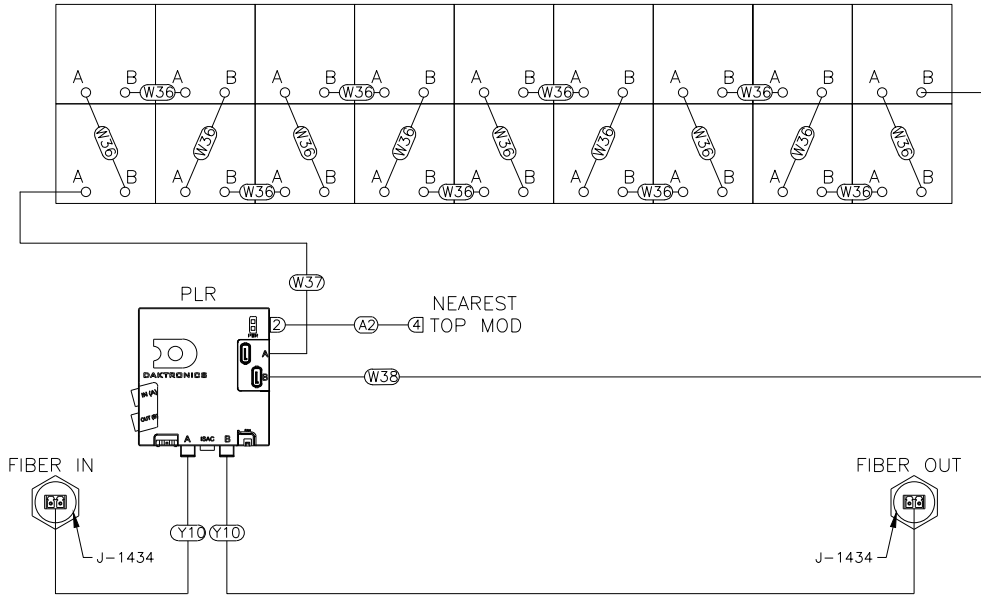
CABLE TRAY CLK STOP OUT

REV 01	DATE 16 AUG 16	ADDED EXTRA CLOCK STOP OUT IN CABLE TRAY PER EC-22200	BY: CLT
		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)	
PROJECT: ST A3			
TITLE: BLOCK DGRM; 9,8,7,4-WIDE, LT STRIP CTRL SEC. TBL			
DATE: 8 JUN 16	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE: NTS	DO NOT SCALE DRAWING		
DESIGN: ACAMPBE	JOB NO. P1778	FUNC - TYPE - SIZE F - 01 - B	3381221
DRAWN: AHUNTER			



# SIGNAL

FRONT VIEW



## EMBEDDED SECTIONS

REFER TO CONTROL PACKET 0A-1892-7302 OR DWG-03397168  
INTERNATIONAL 0A-1892-8302 OR DWG-03417617

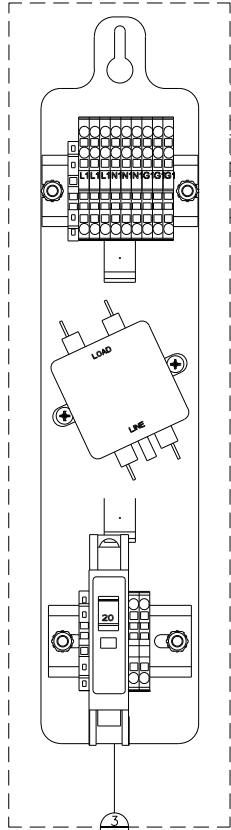
- 1 © (A2) W-2193  
CABLE; RTN PLR POWER, JST 4-PIN TO SLC 2-PIN
- 17 © (W36) W-2885  
CABLE, DAK SATA, M TO M, 28IN, BLK, XOVER, DRAINS CNCTD
- 1 © (W37) W-2889  
CABLE, DAK SATA, M TO M, 72IN, BLK, XOVER, DRAINS CNCTD
- 1 © (W38) W-2890  
CABLE, DAK SATA, M TO M, 12FT, BLK, XOVER, DRAINS CNCTD
- 2 © (Y10) W-2123  
FIBER; 5M 50UM LC-LC DUPLEX, CROSSOVER MM 10G
- 2 © (J-1434) J-1434  
JACK; DUPLEX LC FIBER BULKHEAD, FEMALE, INDUSTRIAL

		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)</small>		
		PROJECT: ST A3	TITLE: N B BLOCK DIAGRAM; SIGNAL, ST A3, 2X9	
DATE: 14 JUN 16	DIM UNITS: INCHES [MILLIMETERS]			01
SCALE: NTS	DO NOT SCALE DRAWING			
DESIGN: CLT	JOB NO. P1892	FUNC - TYPE - SIZE		
DRAWN: CTIESZEN		F - 03 - B	3386082	

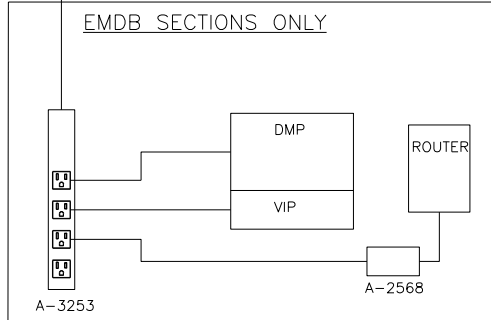
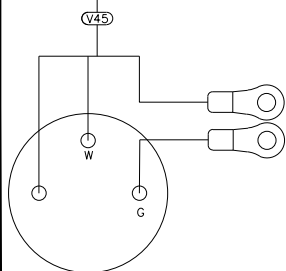
REV 01	DATE: 15 AUG 16	ADDED INTERNATIONAL ASSEMBLY AND DRAWING INFO PER EC-22200	BY: CLT
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# POWER

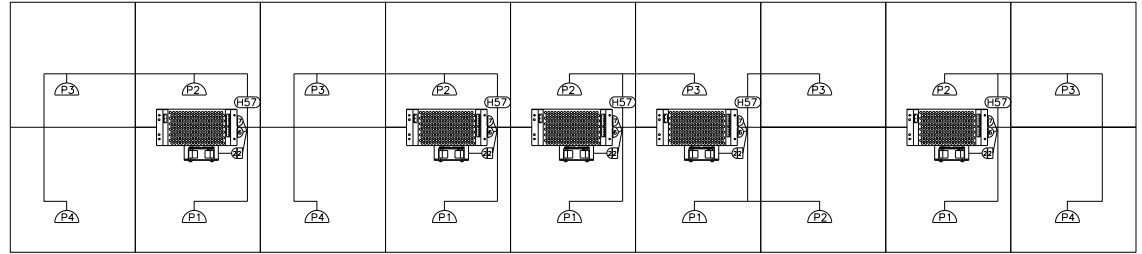
\*AC WIRING NOTES\*  
 (COLOR CORRESPONDS TO HARNESS)  
 BLACK=L1  
 WHITE=N1  
 GREEN=G1  
 INSERT CORRECT COLOR WIRE INTO ANY  
 AVAILABLE CORRESPONDING OPENING



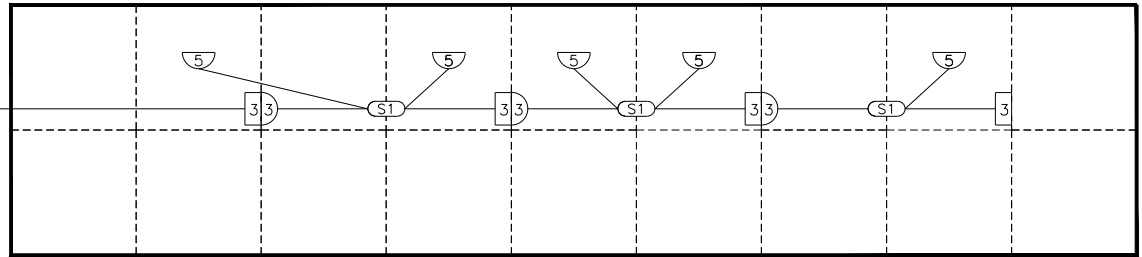
J-1041  
 INSTALLED  
 IN VERTICAL



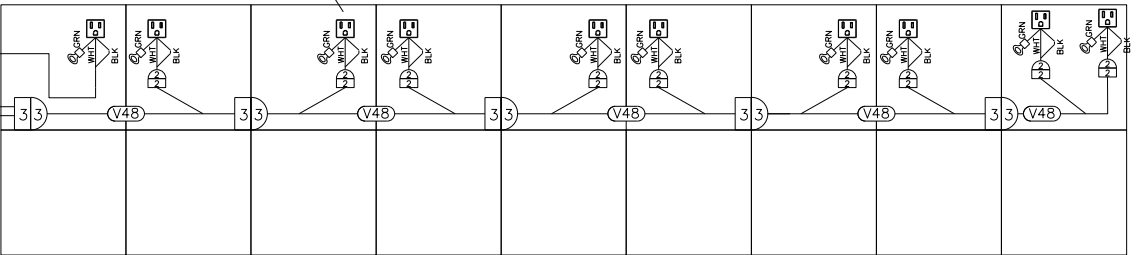
## POWER SUPPLY TO MOD (FRONT VIEW)



## TERM PANEL TO POWER SUPPLY (FRONT VIEW)



## OUTLETS (FRONT VIEW)



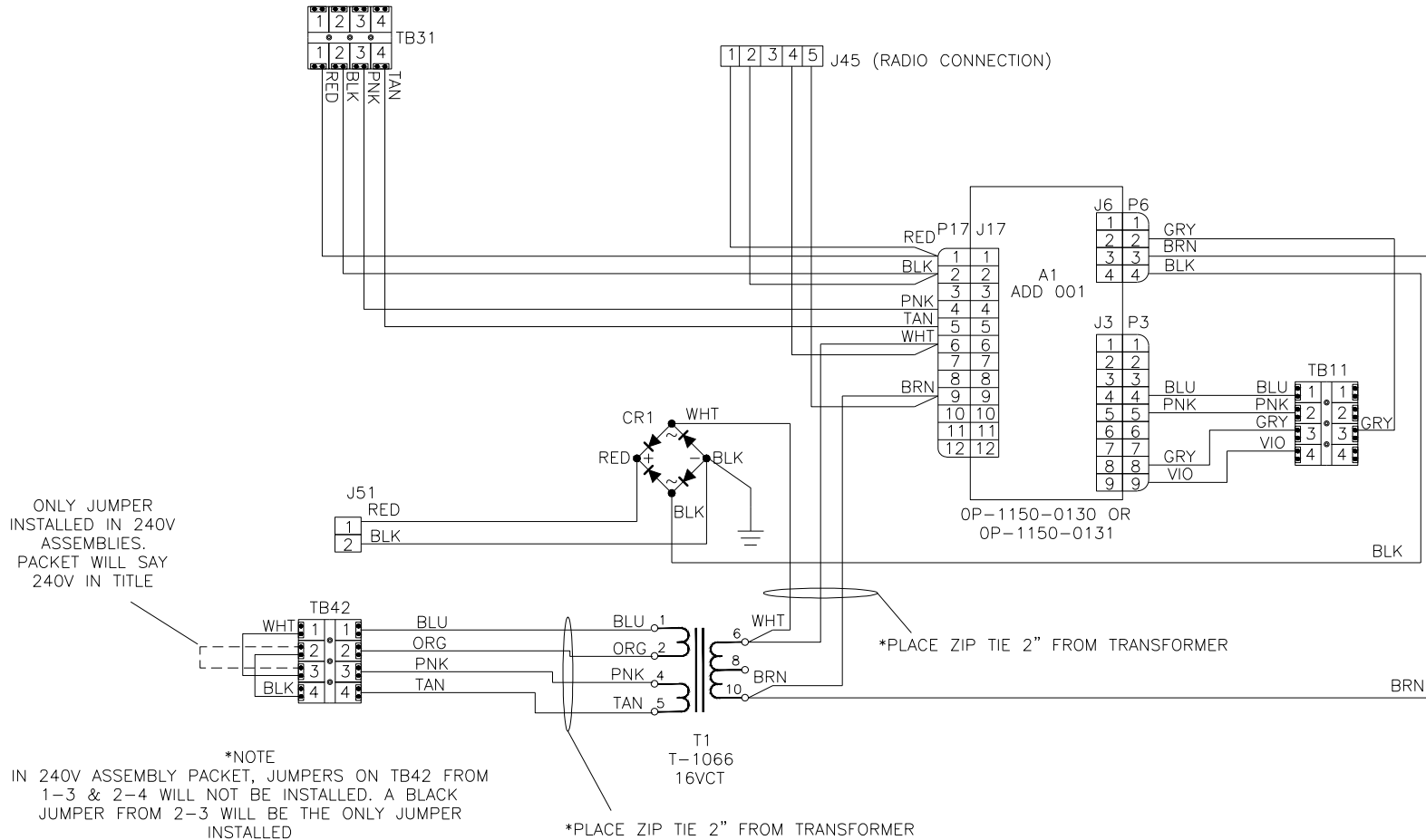
- |   |   |
|---|---|
| 2 @ (GO) W-1883 HARN; BARE TO FEMALE 3PIN, TB TO PS, 5'           | 1 @ (V45) OA-1778-7000 ASSY; HARN, IN PWR, 3P F MNL TO 2P 3W HBL W/ GND R |
| 5 @ (H57) W-2690 HARN; JST 6P/7P TO 4, 4P M MNL                   | 1 @ (V46) OA-1778-7001 HARN; E-1184 TO BARE W/ SPADE TERMINALS            |
| 3 @ (ST) OA-1487-5501 HARN; PWR, JST, 2PS, 24", CENTER TAP        | 5 @ (V48) OA-1892-7003 HARNNESS; CONVENIENCE OUTLET INTERCONNECT          |
| 1 @ (V49) OA-1892-7006 HARNNESS; POSSESSION INDICATOR OUTLET 120V | 1 @ (V47) OA-1892-7013 HARNNESS; USB OUTLET, ST A3                        |
| 9 @ (V50) OA-1892-7004 HARNNESS; OUTLET W/ WHIP 120V              |   |
| 1 @ (V51) OA-1892-7001 HARN; OUTLET POWER                         |   |

2 --- MALE    2 --- FEMALE    3 --- MALE    3 --- FEMALE

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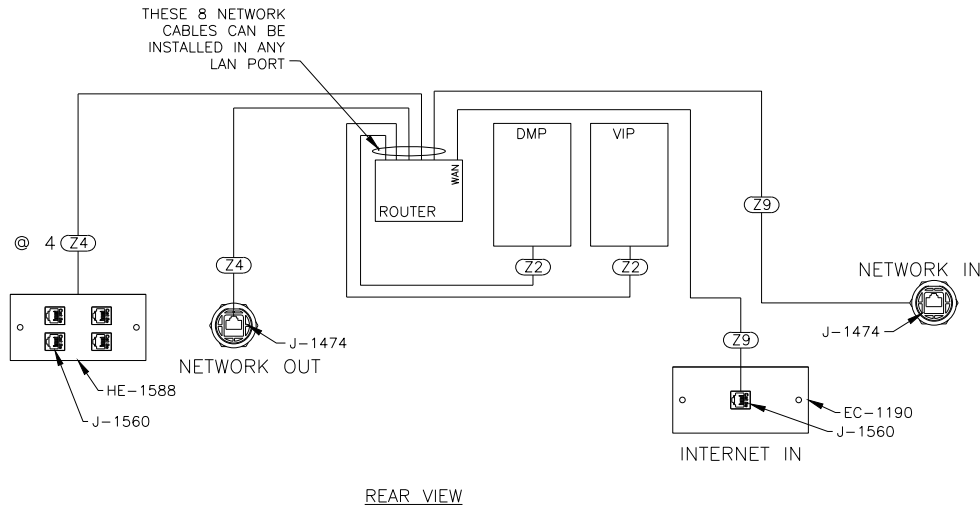
PROJECT: ST A3	TITLE: N B BLOCK DIAGRAM; POWER, ST A3, 2X9	DATE: 14 JUN 16	DIM UNITS: INCHES (MILLIMETERS)	SHEET	REV
SCALE: NTS	DO NOT SCALE DRAWING	DESIGN: CLT	JOB NO. P1892	FUNC - TYPE - SIZE F - 01 - B	3386129
DRAWN: CTIESZEN					

REV 02	DATE: 09 JAN 17	ADDED OA-1892-7001 HARNNESS PER EC-22200	BY: CLT
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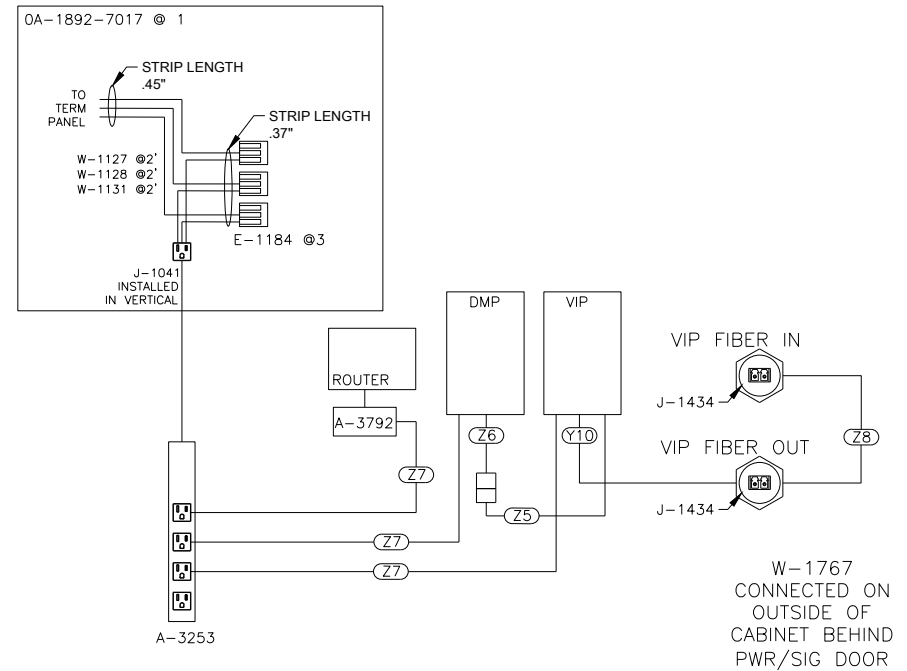


REV 02	DATE: 09 NOV 16	ADDED ZIP TIE LOCATIONS PER EC-22756	BY: CLT
REV 01	DATE: 16 AUG 16	ADDED RADIO CONNECTION PER EC-22200	BY: CLT
THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)			THIRD ANGLE PROJECTION
PROJECT: ST-23XY			
TITLE: SCHEMATIC; 4COL DRVR-16V LIGHT STRIP CONTROL			
DATE: 23 JUN 16	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV 02
SCALE: NTS	DO NOT SCALE DRAWING		
DESIGN: CLT	JOB NO. P1892	FUNC - TYPE - SIZE R - 03 - A	
DRAWN: CTIESZEN			<b>3394094</b>

EMDB SECTIONS ONLY



- 2 @ Z2 W-1732  
CABLE; CAT 5E BLACK RJ45-RJ45; 42"; 4 PAIR
- 5 @ Z4 W-1734  
CABLE; CAT 5E BLACK RJ45-RJ45; 93" 4 PAIR
- 2 @ Z9 W-1735  
CABLE; CAT 5E BLACK RJ45-RJ45; 120" 4 PAIR
- 5 @ J-1560  
JACK; 8 PIN, FEM, RJ45, CAT5E, IDC, KEYSTONE
- 2 @ J-1474  
JACK; 8 PIN FEM, RJ45, PANEL MOUNT ODVA, IP67
- 1 @ HE-1588  
FACEPLATE; VERSATAP, STAINLESS STEEL, 4 PORT
- 1 @ EC-1190  
WALL PLATE; SINGLE GANG, STAINLESS STEEL, QUICKPORT



- 1 @ Z5 W-1643  
CABLE; DVI-D MALE TO DVI-D MALE 14"
- 1 @ Z6 W-2351  
ADAPTER; MINI DISPLAY PORT(M) TO DVI-D(F) CABLE
- 2 @ Z7 W-1633  
POWER CORD; 5' N5-15 TO IEC C13
- 1 @ Y10 W-2123  
FIBER; 5M 50UM LC-LC DUPLEX, CROSSOVER MM 10G
- 1 @ Z8 W-1767  
CABLE; 3FT FIBER OPTIC, INDUSTRIAL LC-LC DUPLEX
- 1 @ J-1434  
JACK; DUPLEX LC FIBER BULKHEAD, FEMALE, INDUSTRIAL

REV	DATE	DESCRIPTION	BY
04	25 MAY 18	PER CN-5697; CHANGED CURRENT DMP-8302 TO DMP-8221 AND REPLACED W-2678 WITH W-2351	JGANGEL
03	21 DEC 17	PER CN-46886; REPLACED 2 W-1734 CABLES WITH W-1735	KCS
02	09 NOV 16	REMOVED W-2746, CHANGED QNTY OF W-1633 FROM 1 TO 2 PER EC-22756	CLT
01	15 AUG 16	CORRECTED ROUTER PS TO A-3792 PER EC-22200	CLT

REV 05	DATE: 25 FEB 19	CNF2232 REPLACED W-2251 WITH W-1643	BY: JSF
PROJECT: ST A3 TITLE: BLOCK DIAGRAM; CONTROL, ST A3 DATE: 30 JUN 16 DIM UNITS: INCHES [MILLIMETERS] SCALE: NTS DESIGN: CTIESZEN DRAWN: CLT			
DO NOT SCALE DRAWING		SHEET	REV 05
JOB NO. P1892		3397168	
FUNG - TYPE - SIZE F-03-B			

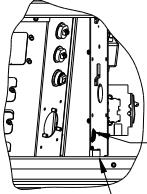
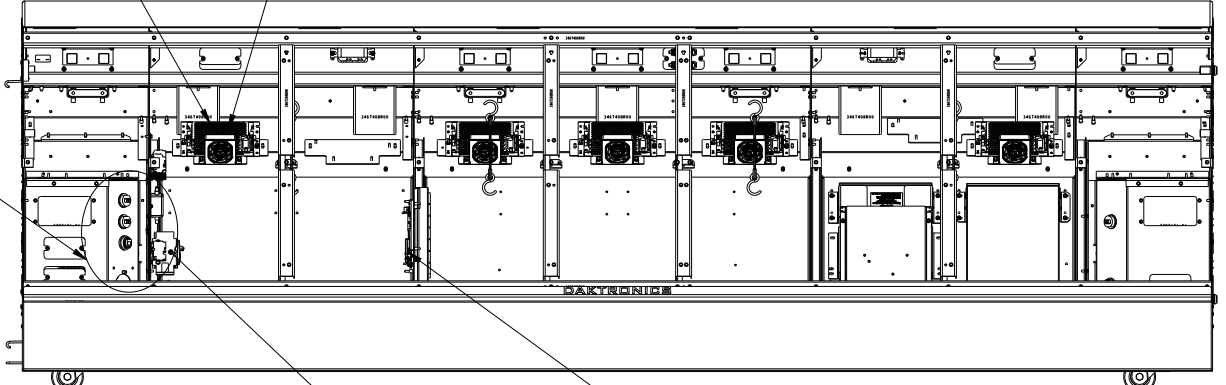
**0A-1892-5329**

SEE DETAIL 1  
ON DWG-3437970

A-2855 @ 5, HC-1354 @ 25, MP-1385 @ 5, B-1103 @ 5  
INSTALL PS USING HC-1354 @ 2 PER PS (10 IN-LBS)  
ATTACH GROUND RING OF DC HARNESS USING HC-1354 @ 1 (10 IN-LBS)  
INSTALL B-1103 INTO MP-1385 W/ LABEL OF FAN TOWARDS PS &  
HARNESS OF FAN TOWARDS SECONDARY HARNESS SIDE OF PS  
INSTALL MP-1385 USING HC-1354 @ 2 (10 IN-LBS)

**DETAIL A**

**DETAIL A**



J-1563 @ 1  
INSTALL W/ HARDWARE PROVIDED (10 IN-LBS)  
GROUNDING FOR 0A-1778-7000 HARNESS  
HC-1554 @ 2 (10 IN-LBS)  
LL-2812 @ 1  
INSTALL J-1041 @ 1 FOR CONTROL  
POWER STRIP HERE

SEE DETAIL 6 ON DWG-03437970  
FOR EMBD CNTRL TABLE  
REMOVE EC-1022  
INSTALL EC-1190 @ 1  
W/ HARDWARE PROVIDE  
J-1560 @ 4

HS-3497305 @ 1  
INSTALLED WHEN REAR LIGHT STRIP KIT  
IS NOT PRESENT, INSERT PLUG BY HAND, A FLAT  
EDGED TOOL MAY BE REQUIRED TO PUSH PLUG  
FULLY INTO POSITION

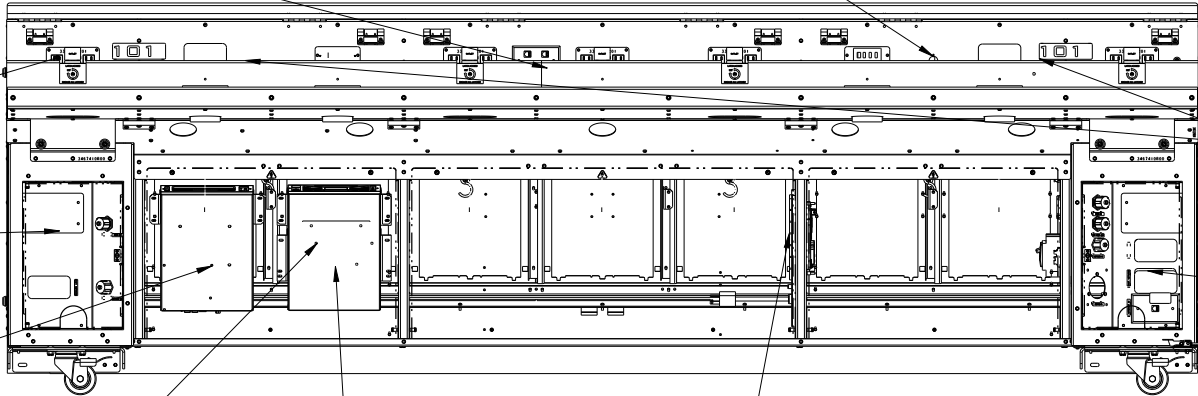
0A-1487-6797 @ 1  
HC-1763 @ 1 (25 IN-LBS)

PLR  
0P-1525-0004 @ 1  
HC-1141 @ 4

SEE DETAIL 5 ON DWG-03437970  
USB OUTLET ASSEMBLIES  
HC-1141 @ 4, HC-1238 @ 4  
(20 IN-LBS)

J-1041 @ 10  
0S-3384499 @ 5  
HC-1354 @ 20 (10 IN-LBS)

SEE DETAIL 2  
ON DWG-03437970



SEE DETAIL 6 ON DWG-03437970  
FOR CUSTOMER NETWORK  
REMOVE EC-1022  
INSTALL EC-1190 @ 2  
W/ HARDWARE PROVIDED  
J-1560 @ 8

SEE DETAIL 3  
ON DWG-03437970

CONFIGURED VIP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO VIP USING HC-1014 @ 6 (10 IN-LBS)

A-3523 @ 1  
INSTALL POWER STRIP BRACKET  
ON VERTICAL USING HC-1024 @ 2  
PROVIDED, SNAP POWER STRIP INTO  
BRACKET W/ CORD TOWARDS BOTTOM

CONFIGURED DMP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO DMP USING HC-1014 @ 6 (10 IN-LBS)

CONFIGURED ROUTER  
EN-2516, A-3792  
INSTALL CONFIGURED ROUTER AND A-3792  
INTO EN-2516, MOUNT EN-2516 TO TABLE  
USING HC-1238 @ 4 (10 IN-LBS)

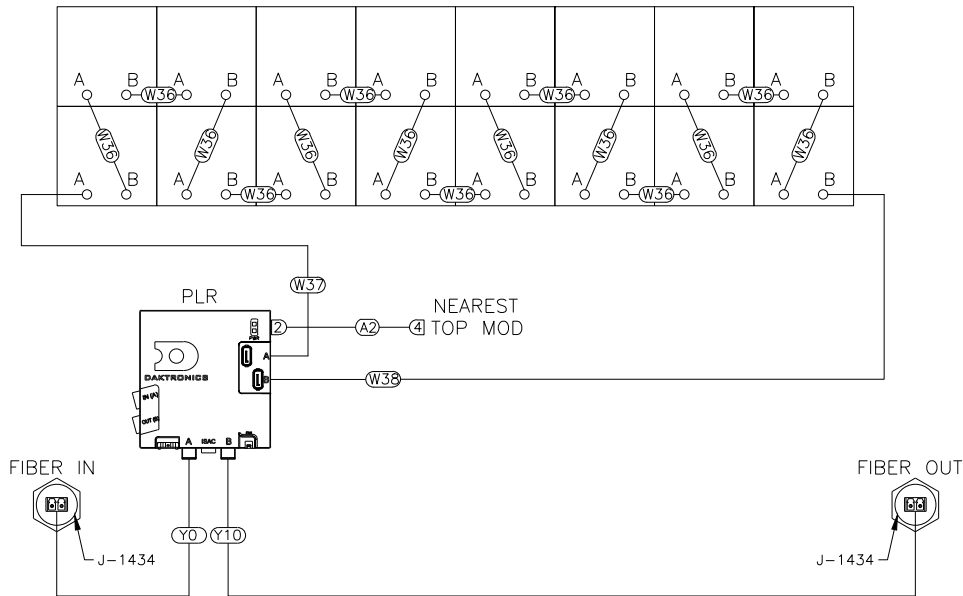
05	05 JUN 18	PER CN-57408, UPDATED ROUTER LOCATION	CDO 19858
03	13 JAN 17	ADDED INSTALLATION NOTES OF HS-3497305 AND ADDED PLR NOTE TO PART LEADER PER EC-23310	CLT
02	11 NOV 16	UPDATES TO DRAWINGS FROM UPDATED MODEL ADDED LEADERS WHERE NEEDED PER EC-22756	CLT
REV	DATE:		BY:
<p>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)</p>			<p>THIRD ANGLE PROJECTION</p>
PROJECT: ST A3			
TITLE: LAYOUT: COMPONENT PLACEMENT, ST-23XY, 2X9			
DATE: 01-JUN-18	DIM UNITS: INCHES (MILLIMETERS)	SHEET	REV
SCALE: 1/36	DO NOT SCALE DRAWING	1 OF 1	04
DESIGN: ACAMPBE	JOB NO. P1892	FUNC - TYPE - SIZE	3397951
DRAWN: ACAMPBE	E - 07 - B		

# SIGNAL

FRONT VIEW

## EMBEDDED SECTIONS

REFER TO CONTROL PACKET 0A-1892-7302 OR DWG-03397168  
INTERNATIONAL 0A-1892-8302 OR DWG-03417617



- 1 © (A2) W-2193  
CABLE; RTN PLR POWER, JST 4-PIN TO SLC 2-PIN
- 15 © (W36) W-2885  
CABLE, DAK SATA, M TO M, 28IN, BLK, XOVER, DRAINS CNCTD
- 1 © (W37) W-2889  
CABLE, DAK SATA, M TO M, 72IN, BLK, XOVER, DRAINS CNCTD
- 1 © (W38) W-2890  
CABLE, DAK SATA, M TO M, 12FT, BLK, XOVER, DRAINS CNCTD
- 2 © (Y10) W-2123  
FIBER; 5M 50UM LC-LC DUPLEX, CROSSOVER MM 10G
- 2 © (J-1434) J-1434  
JACK; DUPLEX LC FIBER BULKHEAD, FEMALE, INDUSTRIAL

		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)</small>			
PROJECT: ST A3					
TITLE: N B BLOCK DIAGRAM; SIGNAL, ST A3 2X8					
DATE: 29 JUN 16		DIM UNITS: INCHES [MILLIMETERS]		SHEET: 01	
SCALE: NTS		DO NOT SCALE DRAWING			
DESIGN: CTIESZEN		JOB NO. P1892		FUNC - TYPE - SIZE F - 03 - B	
DRAWN: CLT		3398995			

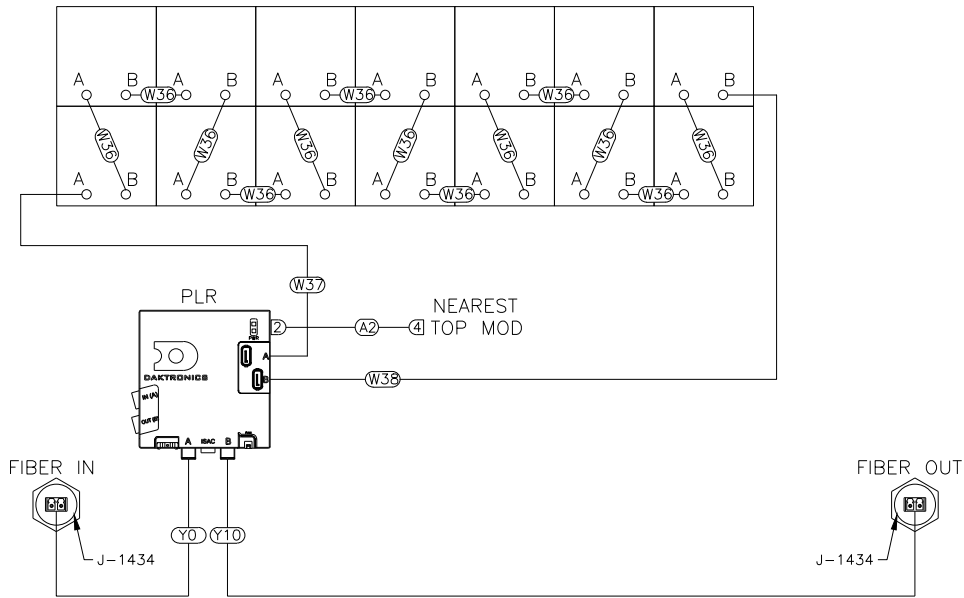
REV 01	DATE: 15 AUG 16	ADDED INTERNATIONAL ASSEMBLY AND DRAWING INFO PER EC-22200	BY: CLT
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# SIGNAL

FRONT VIEW

EMBEDDED SECTIONS

REFER TO CONTROL PACKET 0A-1892-7302 OR DWG-03397168



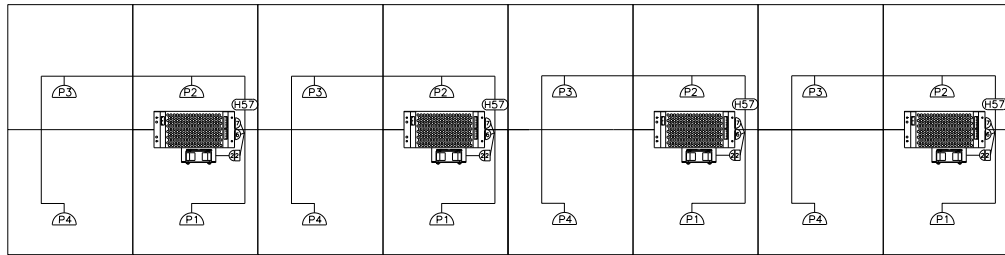
- 1 © (A2) W-2193  
CABLE; RTN PLR POWER, JST 4-PIN TO SLC 2-PIN
- 13 © (W36) W-2885  
CABLE, DAK SATA, M TO M, 28IN, BLK, XOVER, DRAINS CNCTD
- 1 © (W37) W-2889  
CABLE, DAK SATA, M TO M, 72IN, BLK, XOVER, DRAINS CNCTD
- 1 © (W38) W-2890  
CABLE, DAK SATA, M TO M, 12FT, BLK, XOVER, DRAINS CNCTD
- 2 © (Y10) W-2123  
FIBER; SM 50UM LC-LC DUPLEX, CROSSOVER MM 10G
- 2 © (J-1434) J-1434  
JACK; DUPLEX LC FIBER BULKHEAD, FEMALE, INDUSTRIAL

		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)</small>			
DATE: 29 JUN 16	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV		
SCALE: NTS	DO NOT SCALE DRAWING				
DESIGN: CTIESZEN	JOB NO. P1892	FUNC - TYPE - SIZE F - 03 - B	<b>3398996</b>		
DRAWN: CLT					

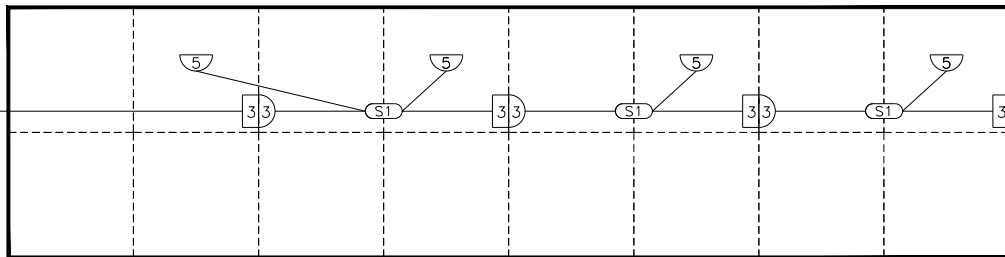
# POWER

**\*AC WIRING NOTES\***  
 (COLOR CORRESPONDS TO HARNESS)  
 BLACK=L1  
 WHITE=N1  
 GREEN=G1  
 INSERT CORRECT COLOR WIRE INTO ANY AVAILABLE CORRESPONDING OPENING

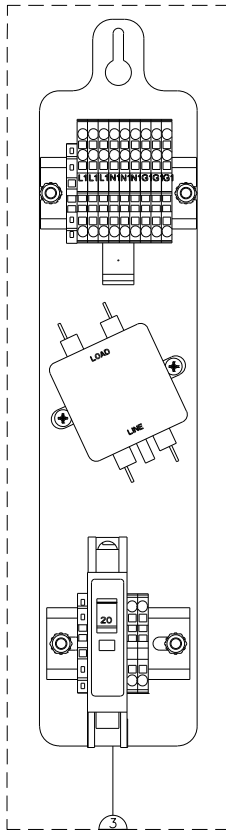
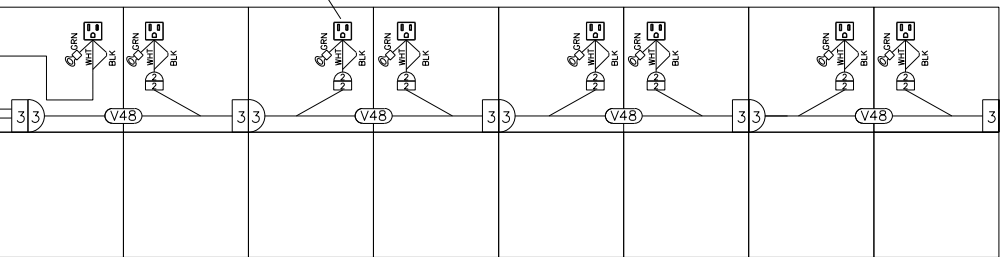
## POWER SUPPLY TO MOD (FRONT VIEW)



## TERM PANEL TO POWER SUPPLY (FRONT VIEW)



## OUTLETS (FRONT VIEW)



J-1041  
 INSTALLED  
 IN VERTICAL

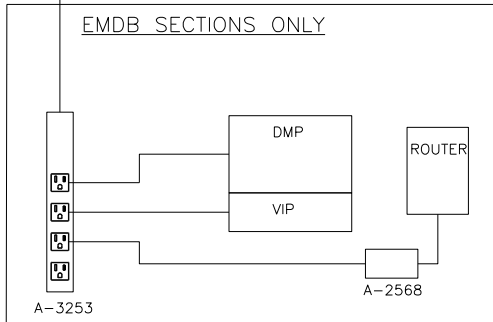
V49 HARNESS IS RUN  
 INDEPENDENTLY FOR  
 POSSESSION INDICATOR

CONNECT HARNESS  
 TO S-1203 W/  
 PRETERMINATED  
 SPADE JACKS

TO LIGHT STRIP  
 DRIVER AC IN  
 (PRIMARY TABLE  
 ONLY) (OPTIONAL)

TO CLOCK STOP  
 DRIVER AC IN  
 (PRIMARY TABLE  
 ONLY) (OPTIONAL)

## EMDB SECTIONS ONLY



QTY	REF	DESCRIPTION	QTY	REF	DESCRIPTION
2	⊙ G0	W-1883 HARN; BARE TO FEMALE 3PIN, TB TO PS, 5'	1	⊙ V45	OA-1778-7000 ASSY; HARN, IN PWR, 3P F MNL TO 2P 3W HBL W/ GND R
4	⊙ H57	W-2690 HARN; JST 6P/7P TO 4, 4P M MNL	1	⊙ V46	OA-1778-7001 HARN; E-1184 TO BARE W/ SPADE TERMINALS
3	⊙ S1	OA-1487-5501 HARN; PWR, JST, 2PS, 24", CENTER TAP	4	⊙ V48	OA-1892-7003 HARNNESS; CONVENIENCE OUTLET INTERCONNECT
1	⊙ V49	OA-1892-7006 HARNNESS; POSSESSION INDICATOR OUTLET 120V	1	⊙ V47	OA-1892-7013 HARNNESS; USB OUTLET, ST A3
7	⊙ V50	OA-1892-7004 HARNNESS; OUTLET W/ WHIP 120V			
1	⊙ V51	OA-1892-7001 HARN; OUTLET POWER			

⊙ --- MALE    ⊚ --- FEMALE    ⊓ --- MALE    ⊔ --- FEMALE

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PROJECT: ST A3	TITLE: N B BLOCK DIAGRAM; POWER, ST A3, 2X8	DATE: 29 JUN 16	DIM UNITS: INCHES [MILLIMETERS]	SHEET: 02	REV: 06
SCALE: NTS	DO NOT SCALE DRAWING	DESIGN: CTIESZEN	JOB NO. P1892	FUNC - TYPE - SIZE F - 03 - B	3399066
DRAWN: CLT					

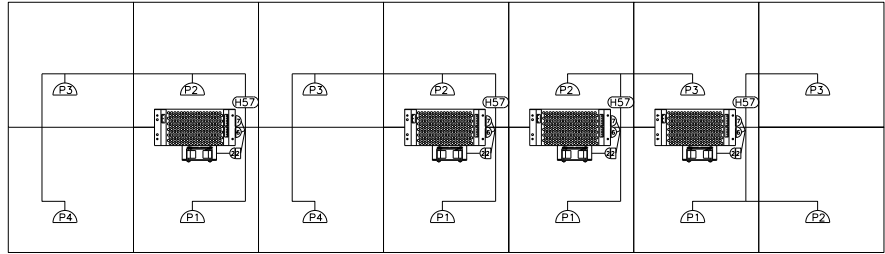
REV 02	DATE: 09 JAN 16	UNNECESSARY REVISION PER EC-23310	BY: CLT
REV 01	DATE: 18 AUG 16	ADDED OA-1892-7001 HARNESS PER EC-22200	BY: CLT



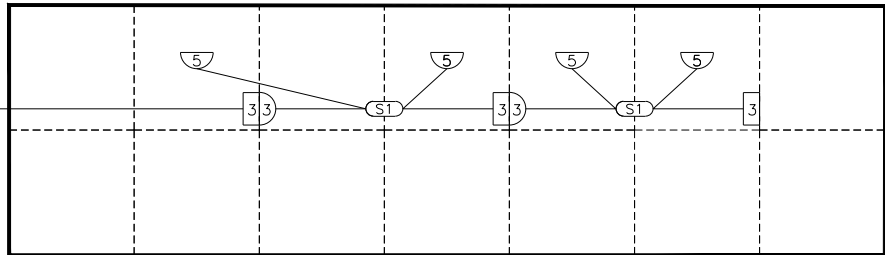
# POWER

**\*AC WIRING NOTES\***  
 (COLOR CORRESPONDS TO HARNESS)  
 BLACK=L1  
 WHITE=N1  
 GREEN=G1  
 INSERT CORRECT COLOR WIRE INTO ANY AVAILABLE CORRESPONDING OPENING

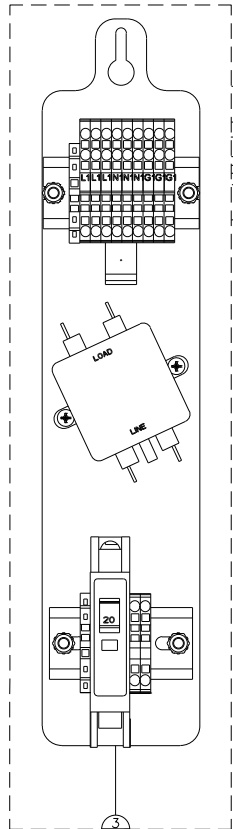
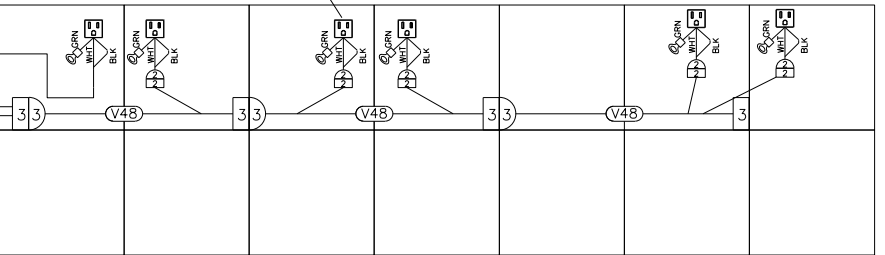
## POWER SUPPLY TO MOD (FRONT VIEW)



## TERM PANEL TO POWER SUPPLY (FRONT VIEW)



## OUTLETS (FRONT VIEW)



J-1041  
 INSTALLED  
 IN VERTICAL

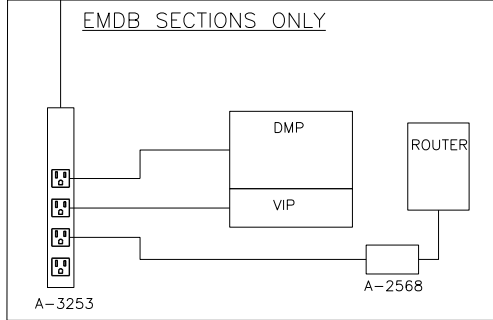
V49 HARNESS IS RUN  
 INDEPENDENTLY FOR  
 POSSESSION INDICATOR

CONNECT HARNESS  
 TO S-1203 W/  
 PRETERMINATED  
 SPADE JACKS

TO LIGHT STRIP  
 DRIVER AC IN  
 (PRIMARY TABLE  
 ONLY) (OPTIONAL)

TO CLOCK STOP  
 DRIVER AC IN  
 (PRIMARY TABLE  
 ONLY) (OPTIONAL)

### EMDB SECTIONS ONLY



2 @ (GO)	W-1883 HARN; BARE TO FEMALE 3PIN, TB TO PS, 5'	1 @ (V45)	OA-1778-7000 ASSY; HARN, IN PWR, 3P F MNL TO 2P 3W HBL W/ GND R
4 @ (H57)	W-2690 HARN; JST 6P/7P TO 4, 4P M MNL	1 @ (V46)	OA-1778-7001 HARN; E-1184 TO BARE W/ SPADE TERMINALS
2 @ (S1)	OA-1487-5501 HARN; PWR, JST, 2PS, 24", CENTER TAP	3 @ (V48)	OA-1892-7003 HARN; CONVENIENCE OUTLET INTERCONNECT
1 @ (V49)	OA-1892-7006 HARN; POSSESSION INDICATOR OUTLET 120V	1 @ (V47)	OA-1892-7013 HARN; USB OUTLET, ST A3
5 @ (V50)	OA-1892-7004 HARN; OUTLET W/ WHIP 120V		
1 @ (V51)	OA-1892-7001 HARN; OUTLET POWER		

②--- MALE    ②--- FEMALE    ③--- MALE    ③--- FEMALE

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 COPYRIGHT 2016 DAKTRONICS, INC. (USA)



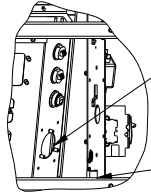
PROJECT:	ST A3
TITLE:	N B BLOCK DIAGRAM; POWER, ST A3, 2X7
DATE:	29 JUN 16
SCALE:	NTS
DESIGN:	CTIESZEN
DRAWN:	CLT

REV 02	DATE: 09 JAN 17	UNNECESSARY REVISION PER EC-23310	BY: CLT
REV 01	DATE: 18 AUG 16	ADDED OA-1892-7001 HARNESS PER EC-22200	BY: CLT

3399067

**0A-1892-5328**

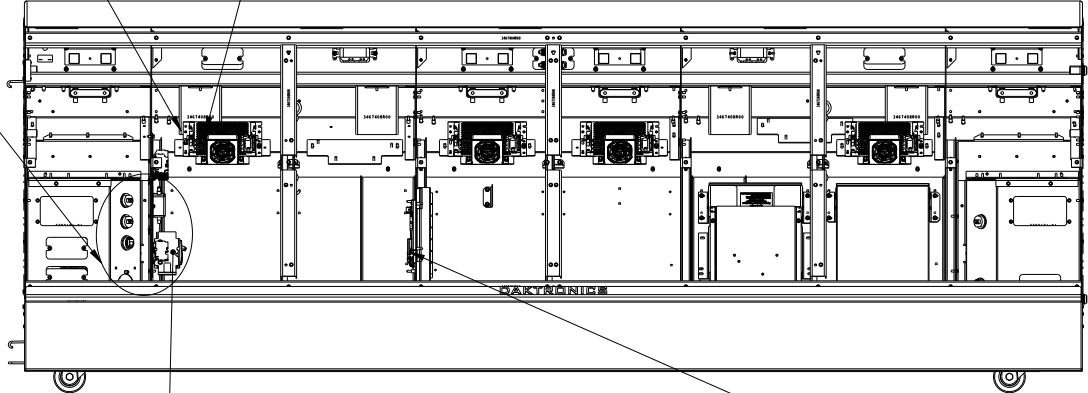
**DETAIL A**



J-1563 @ 1  
INSTALL W/ HARDWARE PROVIDED (10 IN-LBS)  
GROUNDING FOR 0A-1778-7000 HARNESS  
HC-1554 @ 2 (10 IN-LBS)  
LL-2812 @ 1

INSTALL J-1041 @ 1 FOR CONTROL  
POWER STRIP HERE

**DETAIL A**



SEE DETAIL 1  
ON DWG-3437970

A-2855 @ 4, HC-1354 @ 20, MP-1385 @ 4, B-1103 @ 4  
INSTALL PS USING HC-1354 @ 2 PER PS (10 IN-LBS)  
ATTACH GROUND RING OF DC HARNESS USING HC-1354 @ 1 (10 IN-LBS)  
INSTALL B-1103 INTO MP-1385 W/ LABEL OF FAN TOWARDS PS &  
HARNESS OF FAN TOWARDS SECONDARY HARNESS SIDE OF PS  
INSTALL MP-1385 USING HC-1354 @ 2 (10 IN-LBS)

SEE DETAIL 6 ON DWG-03437970  
FOR EMBD CNTRL TABLE  
REMOVE EC-1022  
INSTALL EC-1190 @ 1  
W/ HARDWARE PROVIDE  
J-1560 @ 4

0A-1487-6797 @ 1  
HC-1763 @ 1 (25 IN-LBS)

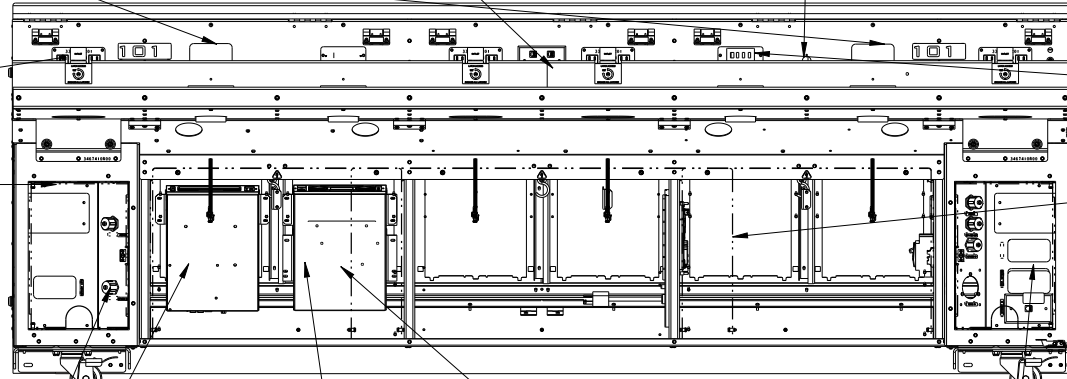
HS-3497305 @ 1  
INSTALLED WHEN REAR LIGHT STRIP KIT  
IS NOT PRESENT, INSERT PLUG BY HAND,  
A FLAT EDGED TOOL MAY BE REQUIRED TO  
PUSH PLUG FULLY INTO POSITION

PLR  
0P-1525-0004 @ 1  
HC-1141 @ 4

SEE DETAIL 6 ON DWG-03437970  
FOR CUSTOMER NETWORK  
REMOVE EC-1022  
INSTALL EC-1190 @ 2  
W/ HARDWARE PROVIDED  
J-1560 @ 8

J-1041 @ 8  
0S-3384499 @ 4  
HC-1354 @ 16 (10 IN-LBS)

SEE DETAIL 2  
ON DWG-03437970



SEE DETAIL 5 ON DWG-03437970  
USB OUTLET ASSEMBLIES  
HC-1141 @ 4, HC-1238 @ 4  
(20 IN-LBS)

A-3523 @ 1  
INSTALL POWER STRIP BRACKET  
ON VERTICAL USING HARDWARE  
PROVIDED, SNAP POWER STRIP INTO  
BRACKET W/ CORD TOWARDS BOTTOM

HE-1439 @ 1, HE-1131 @ 1  
REMOVED/UNUSED FOR EMBD CNTRL TABLE  
FOR EMBD CNTRL TABLE  
INSTALL J-1474 @ 1 (20 IN-LBS)

CONFIGURED VIP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO VIP USING HC-1014 @ 6 (10 IN-LBS)

CONFIGURED ROUTER  
EN-2516, A-3792  
INSTALL CONFIGURED ROUTER AND A-3792  
INTO EN-2516, MOUNT EN-2516 TO TABLE  
USING HC-1238 @ 4 (10 IN-LBS)

CONFIGURED DMP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO DMP USING HC-1014 @ 6 (10 IN-LBS)

SEE DETAIL 3  
ON DWG-03437970

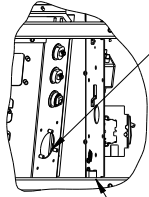
05	05 JUN 18	PER CN-57408, UPDATED ROUTER LOCATION	CDO 19058
03	13 JAN 17	ADDED INSTALLATION NOTES FOR HS-3497305 ADDED PLR TO ITS LEADER NOTE PER EC-23310	CLT
02	11 NOV 16	UPDATES TO DRAWINGS FROM UPDATED MODEL ADDED LEADER NOTER PER EC-22756	CLT
REV	DATE:		BY:

		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)</small>		
PROJECT:	ST A3			
TITLE:	LAYOUT: COMPONENT PLACEMENT, ST-23XY, 2X8			
DATE:	01-JUN-18	DIM UNITS:	INCHES (MILLIMETERS)	SHEET
SCALE:	1/36	DO NOT SCALE DRAWING		1 OF 1
DESIGN:	ACAMPBE	JOB NO.:	P1892	REV
DRAWN:	ACAMPBE	FUNC - TYPE - SIZE:	E - 07 - B	04
				<b>3400909</b>

0A-1892-5327

DETAIL A

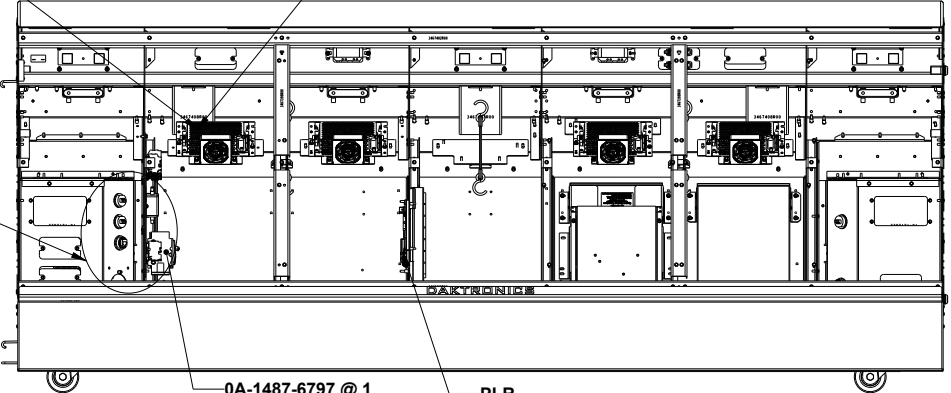


J-1563 @ 1  
INSTALL W/ HARDWARE PROVIDED (10 IN-LBS)  
GROUNDING FOR 0A-1778-7000 HARNESS  
HC-1554 @ 2 (10 IN-LBS)  
LL-2812 @ 1

INSTALL J-1041 @ 1 FOR CONTROL  
POWER STRIP HERE

SEE DETAIL 1  
ON DWG-03437970

DETAIL A



A-2855 @ 5, HC-1354 @ 25, MP-1385 @ 5, B-1103 @ 5  
INSTALL PS USING HC-1354 @ 2 PER PS (10 IN-LBS)  
ATTACH GROUND RING OF DC HARNESS USING HC-1354 @ 1 (10 IN-LBS)  
INSTALL B-1103 INTO MP-1385 W/ LABEL OF FAN TOWARDS PS &  
HARNESS OF FAN TOWARDS SECONDARY SIDE OF PS  
INSTALL MP-1385 USING HC-1354 @ 2 (10 IN-LBS)

SEE DETAIL 6 ON DWG-03437970  
FOR EMBD CNTRL TABLE  
REMOVE EC-1022  
INSTALL EC-1190 @ 1  
W/ HARDWARE PROVIDE  
J-1560 @ 4

SEE DETAIL 5 ON DWG-03437970  
USB OUTLET ASSEMBLIES  
HC-1141 @ 4, HC-1238 @ 4  
(20 IN-LBS)

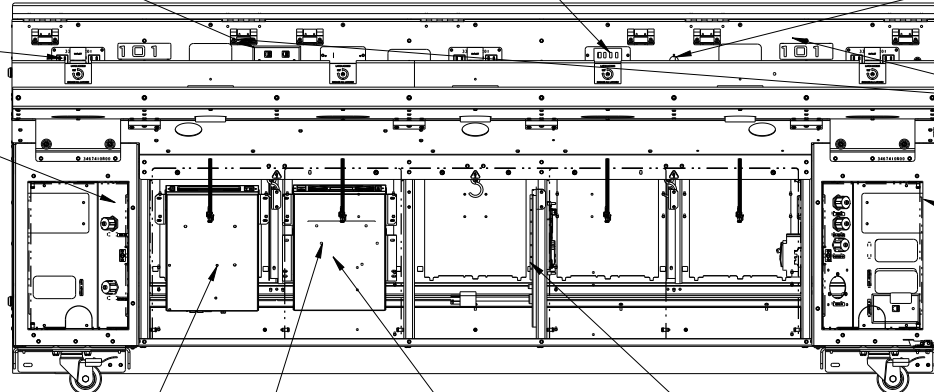
0A-1487-6797 @ 1  
HC-1763 @ 1 (25 IN-LBS)

PLR  
0P-1525-0004 @ 1  
HC-1141 @ 4

HS-3497305 @ 1  
INSTALLED WHEN REAR LIGHT STRIP KIT  
IS NOT PRESENT, INSERT PLUG BY HAND, A FLAT  
EDGED TOOL MAY BE REQUIRED TO PUSH PLUG  
FULLY INTO POSITION

J-1041 @ 6  
0S-3384499 @ 3  
HC-1354 @ 12 (10 IN-LBS)

SEE DETAIL 2  
ON DWG-03437970



SEE DETAIL 6 ON DWG-03437970  
FOR CUSTOMER NETWORK  
REMOVE EC-1022  
INSTALL EC-1190 @ 2  
W/ HARDWARE PROVIDED  
J-1560 @ 8

SEE DETAIL 3  
ON DWG-03437970

CONFIGURED VIP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO VIP USING HC-1014 @ 6 (10 IN-LBS)

CONFIGURED DMP  
0M-3393291 @ 2

CONFIGURED DMP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO DMP USING HC-1014 @ 6 (10 IN-LBS)

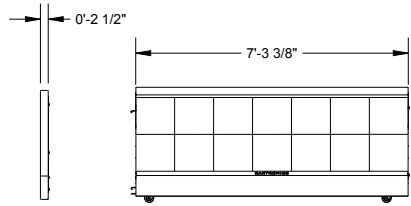
A-3523 @ 1  
INSTALL POWER STRIP BRACKET  
ON VERTICAL USING HC-1024 @ 2  
PROVIDED, SNAP POWER STRIP INTO  
BRACKET W/ CORD TOWARDS BOTTOM

CONFIGURED ROUTER  
EN-2516, A-3792  
INSTALL CONFIGURED ROUTER AND A-3792  
INTO EN-2516, MOUNT EN-2516 TO TABLE  
USING HC-1238 @ 4 (10 IN-LBS)

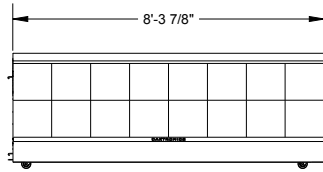
05	05 JUN 18	PER CN-57408, UPDATED ROUTER LOCATION	CDO 1985B
03	20 JAN 17	ADDED PLR NOTE FOR CLARIFICATION ADDED HS-3497305 AND INSTALL INSTRUCTIONS PER EC-23310	CLT
02	10 NOV 16	UPDATED VIEWS AND ADJUSTED TEXT, ADDED LEADERS WHERE NEEDED PER EC-22756	CLT
REV	DATE:		BY:

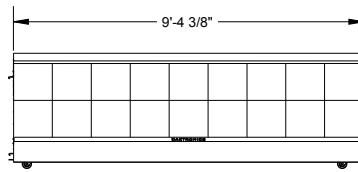
		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)</small>			
PROJECT:	ST A3	TITLE:	LAYOUT: COMPONENT PLACEMENT, ST-23XY, 2X7	SHEET	REV
DATE:	01-JUN-18	DIM UNITS:	INCHES (MILLIMETERS)	1 OF 1	04
SCALE:	1/36	DO NOT SCALE DRAWING			
DESIGN:	ACAMPBE	JOB NO.:	P1892	FUNC - TYPE - SIZE:	E - 07 - B
DRAWN:	ACAMPBE			3400913	



**FRONT VIEW**  
2X7 COURTSIDE TABLE  
ACTIVE AREA IS 24.96" X 87.36"  
APPROX. WEIGHT: 260LBS

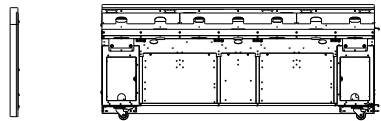


**FRONT VIEW**  
2X8 COURTSIDE TABLE  
ACTIVE AREA IS 24.96" X 99.84"  
APPROX. WEIGHT: 300LBS

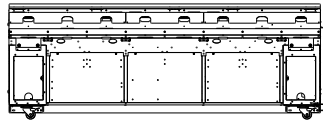


**FRONT VIEW**  
2X9 COURTSIDE TABLE  
ACTIVE AREA IS 24.96" X 112.32"  
APPROX. WEIGHT: 340LBS

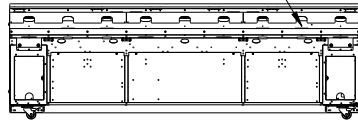
OPTIONAL SCORER'S "CLOCK STOP"  
LIGHTSTRIP AND POSSESSION INDICATOR  
ATTACH TO BACKSHEET



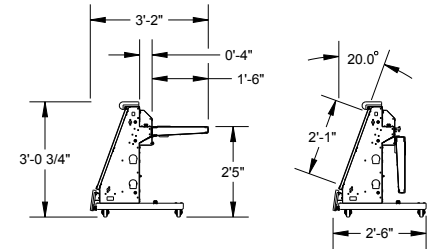
**REAR VIEW**



**REAR VIEW**



**REAR VIEW**



**SIDE VIEWS**  
SHOWN WITH TABLE IN RAISED  
AND LOWERED POSITIONS  
AT THE STANDARD 20° FACE ANGLE



**SIDE VIEW**  
STANDARD 2.5" PAD

**1.0 REFERENCE**

- 1.1 REFER TO DAKTRONICS PROPOSAL DRAWING FOR DISPLAY COMPONENT SPECIFICATIONS
- 1.2 REFER TO DAKTRONICS SYSTEM RISER DRAWING FOR POWER AND SIGNAL SPECIFICATIONS

**2.0 GENERAL NOTES**

- 2.1 ALL DIMENSIONS ARE IN FEET AND INCHES
- 2.2 PAINT PLAN:  
DISPLAY CABINETS: FLAT BLACK / TBD
- 2.3 REFER TO INSTALLATION AND MAINTENANCE MANUAL FOR COMPLETE INSTALLATION INSTRUCTIONS

**3.0 DISPLAY NOTES**

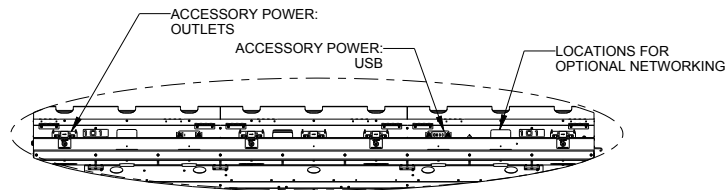
- 3.1 DAKTRONICS DISPLAYS ARE ALL ALUMINUM CONSTRUCTION
- 3.2 DAKTRONICS SCORE TABLES ARE FRONT AND REAR SERVICE
- 3.3 SIGNAL DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE
- 3.4 POWER DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE

**4.0 STRUCTURAL NOTES**

- 4.1 ESTIMATED WEIGHT - TBD
- 4.2 ANY NON-DAKTRONICS SUPPLIED EQUIPMENT SPECIFICATIONS MUST BE SUBMITTED TO DAKTRONICS PRIOR TO DISPLAY FINAL DESIGN
- 4.3 ALL SCORE TABLE ASSEMBLY HARDWARE SHALL BE PROVIDED BY DAKTRONICS

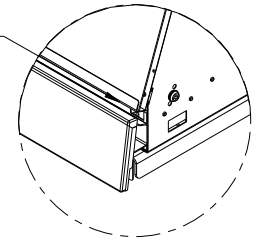
**5.0 PROJECT RESPONSIBILITIES**

- 5.1 ALL ON-SITE WORK TO BE DONE IN ACCORDANCE WITH OSHA AND ALL LOCAL CODES THAT APPLY
- 5.2 DAKTRONICS SUBCONTRACTORS ARE RESPONSIBLE FOR JOBSITE SAFETY

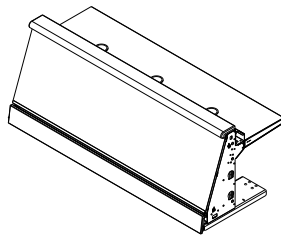


**CABLE TRAY INPUTS/OUTPUTS**  
REAR VIEW  
SCALE 1/25

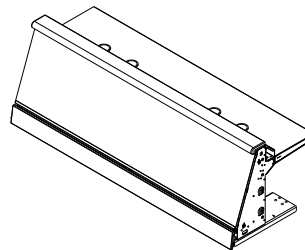
"END OF PERIOD" LED LIGHTSTRIP IS EMBEDDED ABOVE FRONT PAD IN LOCATION SHOWN



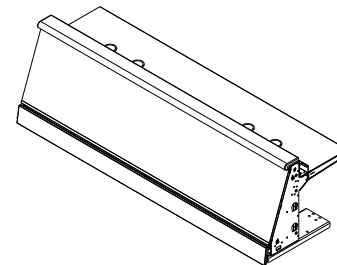
**ROTATED FRONT VIEW**  
EMBEDDED LIGHTSTRIP LOCATION  
SCALE 1/10



**ROTATED FRONT VIEW**



**ROTATED FRONT VIEW**

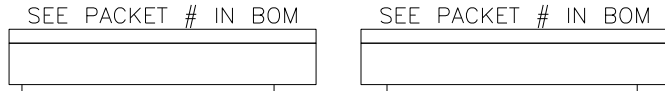


**ROTATED FRONT VIEW**

REV	DATE:	BY:	THIRD ANGLE PROJECTION
PROJECT: COURTSIDE LED DISPLAYS TITLE: MECHANICAL SPECS: ST-23XY/ST-29XY DATE: 19-SEP-16 DIM UNITS: INCHES [MILLIMETERS] SHEET 1 OF 1 REV 00 SCALE: 1/40 DO NOT SCALE DRAWING DESIGN: BNYBO JOB NO. P1892 FUNC. TYPE - SIZE E - 07 - B DRAWN: BNYBO			
			<b>3407212</b>

LIGHT STRIP SETUP WITH DRIVER  
TO TEST: USE A/S 5010 CODE 1103

9-WIDE TABLE LENGTHS 56" FRONT LIGHT STRIP  
8-WIDE TABLE LENGTHS 49.5" FRONT LIGHT STRIP  
7-WIDE TABLE LENGTH ----- 87" FRONT LIGHT STRIP @ 1



CUT OFF LOCKING FORKS,  
STRIP 1/4"  
ALL SPORT SIGNAL IN  
CONNECTED TO  
0A-1892-7020  
AND LAND INTO  
TERMINAL BLOCK

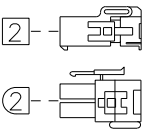
REMOVE 2" OF INSULATION, STRIP 1/4"  
AND LAND INTO TERMINAL BLOCK  
CONNECTED TO TOP LIGHT STRIP DRIVER  
REFER TO DWG-03381215

EOP OUT  
LEFT JACK  
(FRONT VIEW)



4 FOOT TABLE HAS 48"  
LIGHT STRIP INSTALLED @ 1

REAR VIEW

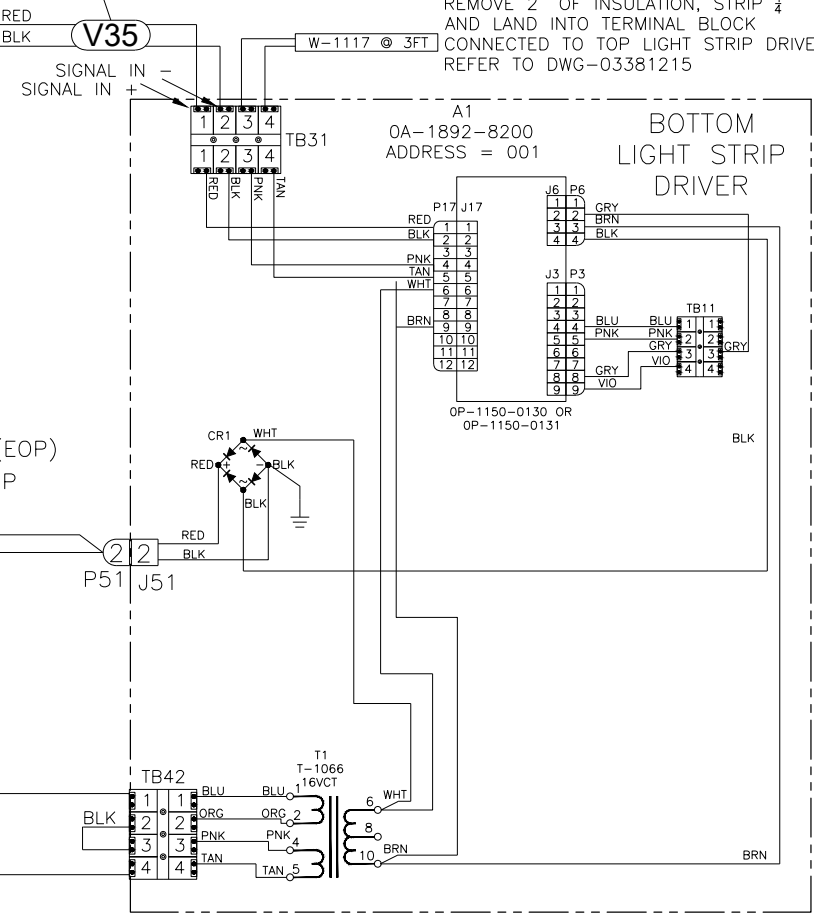


CONNECT TO HARNESS  
COMING FROM TERM BLOCK.  
REFER TO DWG-03386129

NON-MATRIX TABLES  
CUT MATE-N-LOK END OF  
SPLICE WITH E-1178 AT  
POWER ENTRANCE

- 1 @ (V35) 0A-1150-0127  
SIGNAL HARNESS, 1/4" PHONE JACK- SPADES 3'
- 1 @ (V36) 0A-1892-7009  
HARNESS; ST-20XX, 3 PIN PWR TO PIGTAIL 240V
- 1 @ (V37) 0A-1892-7012  
HARNESS, 8 & 10FT TABLE, LIGHT STRIP Y & FUSE TERM
- 1 @ (V44) 0A-1892-7022  
PLATE ASSY; PRIMARY LIGHT STRIP OUT (EOP), ST A3
- 1 @ (V45) 0A-1892-7024  
PLATE ASSY; SECONDARY LIGHT STRIP OUT (EOP/CLK STOP), ST A3

F41 (DRIVER)  
240V USES .5 AMP FUSE



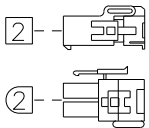
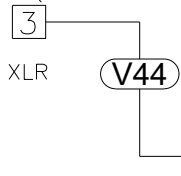
		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)</small>		
		PROJECT: ST A3	TITLE: BLOCK DGRM; 9,8,7,4-WIDE, LIGHT STRIP CTRL EOP INTL	
DATE: 12 JUL 16	DIM UNITS: INCHES (MILLIMETERS)	DO NOT SCALE DRAWING		
SCALE: NTS	JOB NO: P1892	FUNC - TYPE - SIZE: F - 03 - B	3408332	
DESIGN: CTIESZEN	DRAWN: CLT			

LIGHT STRIP SETUP WITH DRIVER

TO TEST: USE A/S 5010 CODE 1103

REMOVE 2" OF INSULATION, STRIP 1/4"  
AND LAND INTO TERMINAL BLOCK  
FROM TOP LIGHT STRIP DRIVER  
REFER TO DWG-03381207

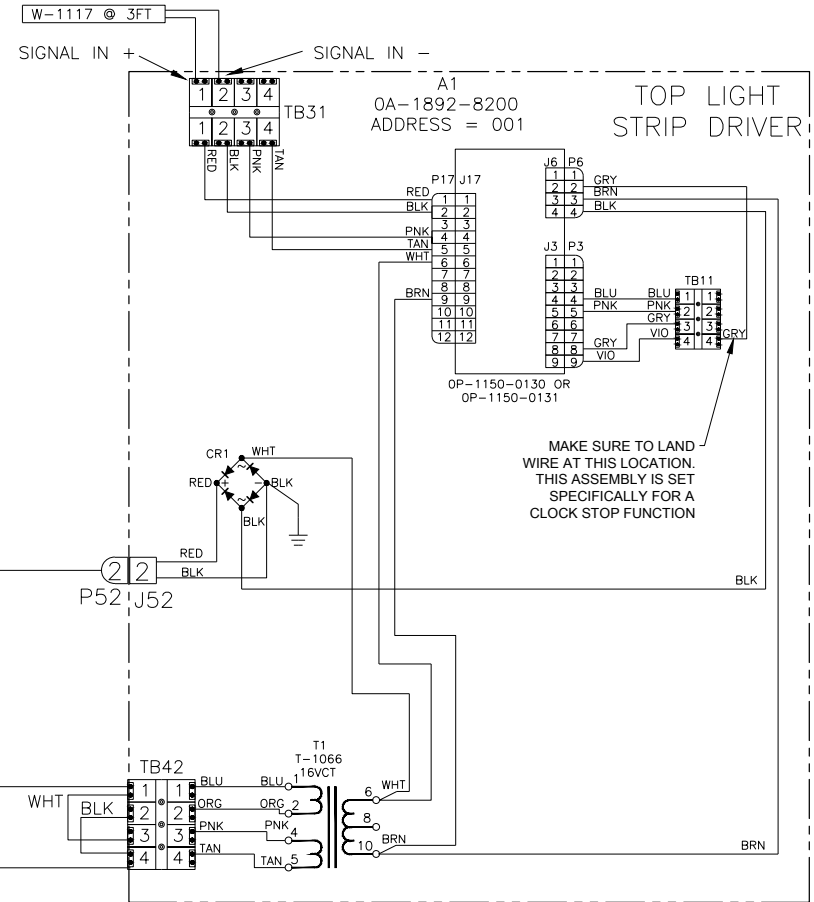
CLOCK STOP  
OUT  
RIGHT XLR JACK  
(FRONT VIEW)



REAR VIEW

CONNECT TO HARNESS  
COMING FROM TERM BLOCK.  
REFER TO DWG-03386129

- 1 © V38 0A-1892-7010 HARNESS; LIGHT STRIP FUSE CONNECTION
- 1 © V44 0A-1892-7024 HARN; LIGHT STRIP OUTPUT, M F XLR TO MINI M-N-L
- 1 © V36 0A-1892-7009 HARNESS; ST-20XX, 3 PIN PWR TO PIGTAIL 240V W-1117
- 3FT © CABLE; 2 COND 18 AWG STRAND SHIELDED



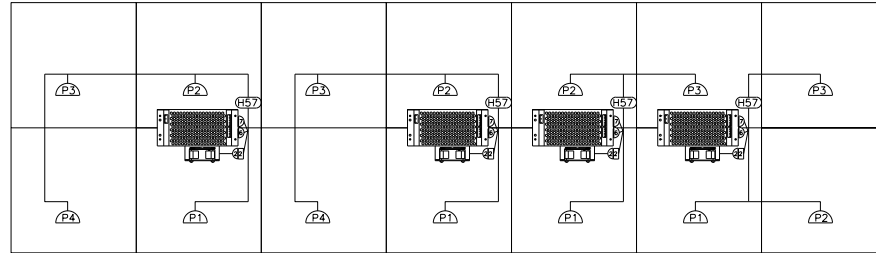
MAKE SURE TO LAND WIRE AT THIS LOCATION. THIS ASSEMBLY IS SET SPECIFICALLY FOR A CLOCK STOP FUNCTION

		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)</small>			
		PROJECT: ST A3	TITLE: BLOCK DGRM; 9,8,7-WIDE,LT STRIP CTRL,CLK STOP INTL		SHEET:
DATE: 12 JUL 16	DIM UNITS: INCHES (MILLIMETERS)	SCALE: NTS	DO NOT SCALE DRAWING	SHEET:	REV: A
DESIGN: CTIESZEN	JOB NO. P1892	FUNC - TYPE - SIZE: F - 03 - B	DRAWN: CLT	SHEET:	REV: A
<b>3408333</b>					

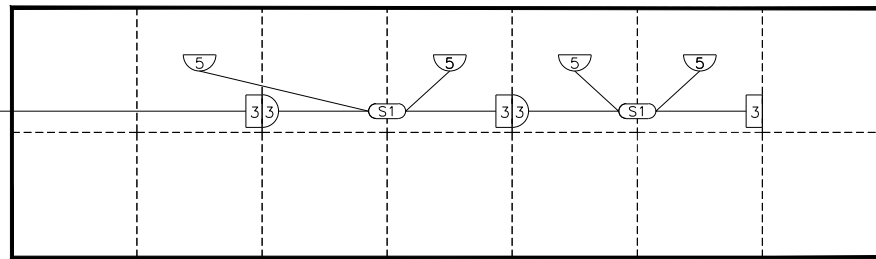
# POWER

**\*AC WIRING NOTES\***  
 (COLOR CORRESPONDS TO HARNESS)  
 BLACK=L1  
 WHITE=N1  
 GREEN=G1  
 INSERT CORRECT COLOR WIRE INTO ANY  
 AVAILABLE CORRESPONDING OPENING

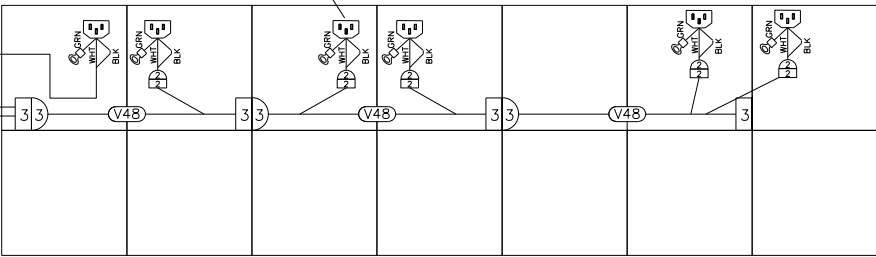
## POWER SUPPLY TO MOD (FRONT VIEW)



## TERM PANEL TO POWER SUPPLY (FRONT VIEW)

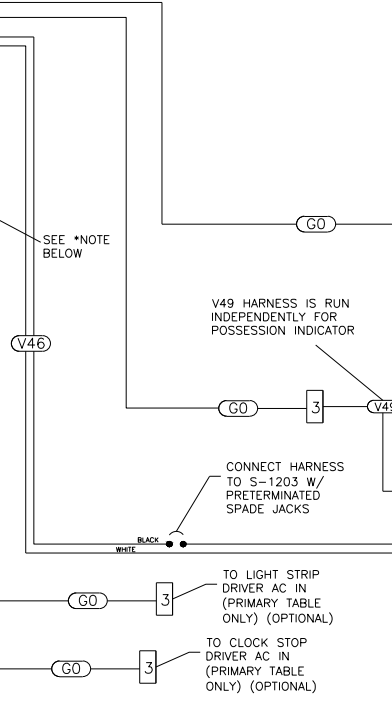
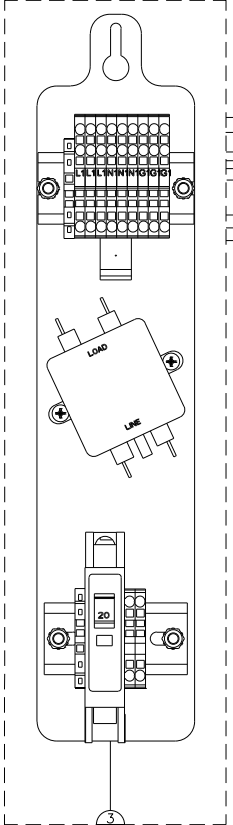


## OUTLETS (FRONT VIEW)

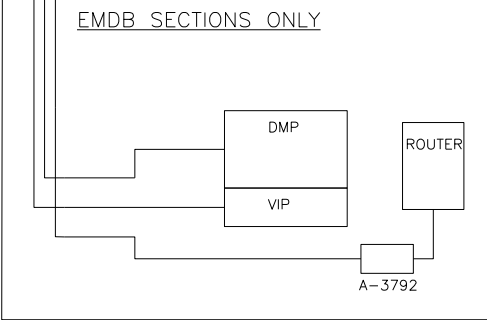


TIE UP UNUSED WHIP

② --- MALE    ② --- FEMALE    ③ --- MALE    ③ --- FEMALE



## EMDB SECTIONS ONLY



2	⑥ G0	W-1883 HARN; BARE TO FEMALE 3PIN, TB TO PS, 5'	1	④ V45	OA-1892-7018 ASSY; HARN, IN PWR, 3P F MNL TO 2P 3W HBL 250V
4	④ H57	W-2690 HARN; JST 6P/7P TO 4, 4P M MNL OA-1487-5501	1	④ V46	OA-1778-7001 HARN; E-1184 TO BARE W/ SPADE TERMINALS
2	⑥ S1	HARN; PWR, JST, 2PS, 24", CENTER TAP	3	④ V48	OA-1892-7003 HARN; CONVENIENCE OUTLET INTERCONNECT
1	④ V49	OA-1892-7007 HARN; POSSESSION INDICATOR OUTLET 240V			
5	④ V50	OA-1892-7005 HARN; OUTLET W/ WHIP 240V			

### \*NOTE

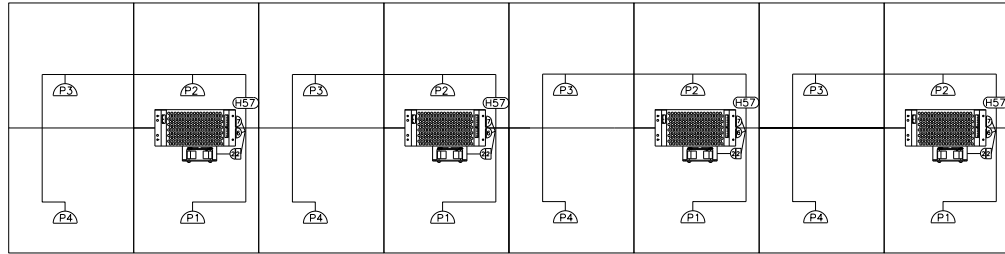
CUT 3P MALE END  
 OFF OF CABLE. STRIP 3" OF INSULATION OFF  
 OF CABLE, THEN STRIP .25" OFF EACH WIRE  
 AND TERMINATE TO PT PANEL

		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)</small>		
PROJECT: ST A3				
TITLE: N B BLOCK DIAGRAM; POWER, ST A3, 2X7 INTL.				
DATE: 13 JUL 16	DIM UNITS: INCHES (MILLIMETERS)		SHEET	REV
SCALE: NTS	DO NOT SCALE DRAWING			00
DESIGN: CTIESZEN	JOB NO. P1892	FUNC - TYPE - SIZE F - 03 - B	3409198	
DRAWN: CLT				

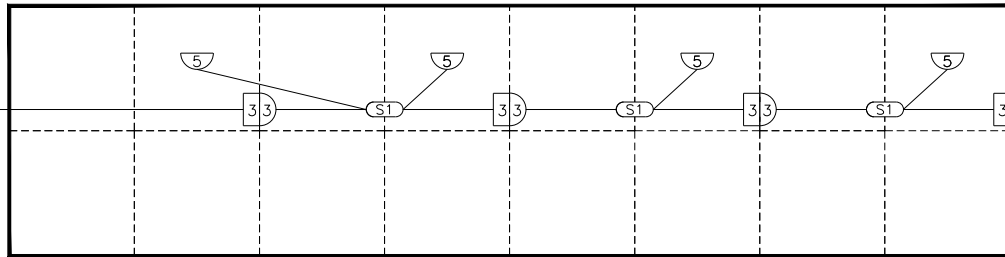
# POWER

**\*AC WIRING NOTES\***  
 (COLOR CORRESPONDS TO HARNESS)  
 BLACK=L1  
 WHITE=N1  
 GREEN=G1  
 INSERT CORRECT COLOR WIRE INTO ANY  
 AVAILABLE CORRESPONDING OPENING

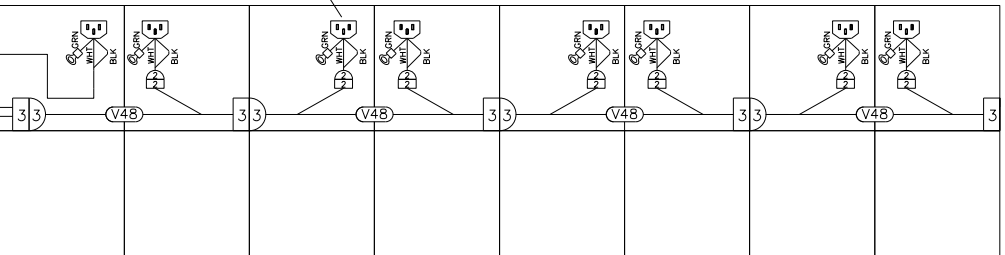
## POWER SUPPLY TO MOD (FRONT VIEW)



## TERM PANEL TO POWER SUPPLY (FRONT VIEW)



## OUTLETS (FRONT VIEW)

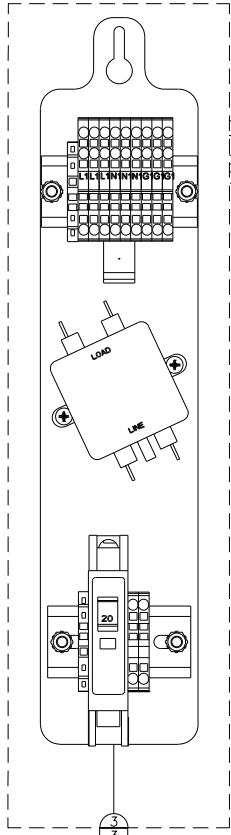


② --- MALE    ② --- FEMALE    ③ --- MALE    ③ --- FEMALE

2	⊙	G0	W-1883 HARN; BARE TO FEMALE 3PIN, TB TO PS, 5'	1	⊙	V45	OA-1892-7018 ASSY; HARN, IN PWR, 3P F MNL TO 2P 3W HBL 250V
4	⊙	H57	W-2690 HARN; JST 6P/7P TO 4, 4P M MNL	1	⊙	V46	OA-1778-7001 HARN; E-1184 TO BARE W/ SPADE TERMINALS
3	⊙	S1	OA-1487-5501 HARN; PWR, JST, 2PS, 24", CENTER TAP	4	⊙	V48	OA-1892-7003 HARN; CONVENIENCE OUTLET INTERCONNECT
1	⊙	V49	OA-1892-7007 HARN; POSSESSION INDICATOR OUTLET 240V				
7	⊙	V50	OA-1892-7005 HARN; OUTLET W/ WHIP 240V				

### \*NOTE

CUT 3P MALE END  
 OFF OF CABLE. STRIP 3" OF INSULATION OFF  
 OF CABLE, THEN STRIP .25" OFF EACH WIRE  
 AND TERMINATE TO PT PANEL



SEE \*NOTE  
 BELOW

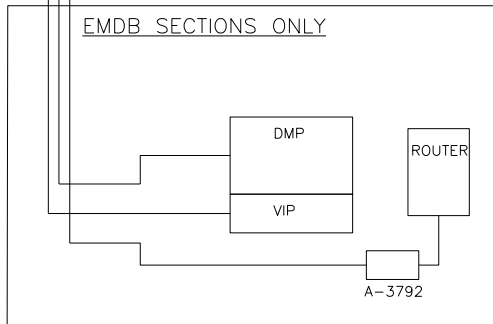
V49 HARNESS IS RUN  
 INDEPENDENTLY FOR  
 POSSESSION INDICATOR

CONNECT HARNESS  
 TO S-1203 W/  
 PRETERMINATED  
 SPADE JACKS

TO LIGHT STRIP  
 DRIVER AC IN  
 (PRIMARY TABLE  
 ONLY) (OPTIONAL)

TO CLOCK STOP  
 DRIVER AC IN  
 (PRIMARY TABLE  
 ONLY) (OPTIONAL)

## EMDB SECTIONS ONLY



A-3792

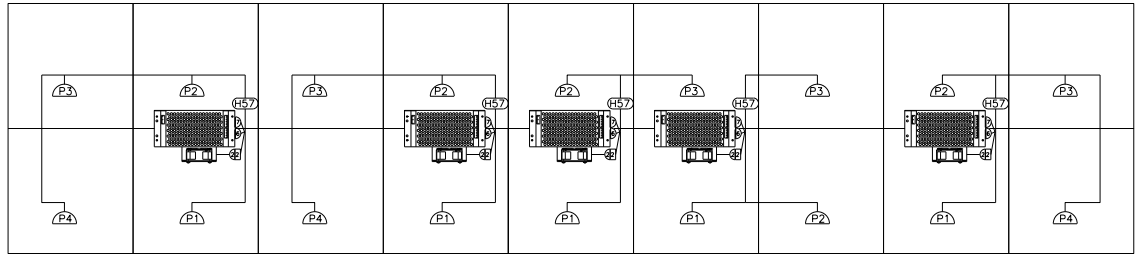
		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)			
PROJECT:	ST A3	TITLE:	N B BLOCK DIAGRAM; POWER, ST A3, 2X8 INTL.	SHEET:	REV:
DATE:	13 JUL 16	DIM UNITS:	INCHES (MILLIMETERS)		A
SCALE:	NTS	DO NOT SCALE DRAWING			
DESIGN:	CTIESZEN	JOB NO.:	P1892	FUNC - TYPE - SIZE:	F - 03 - B
DRAWN:	CLT				3409762



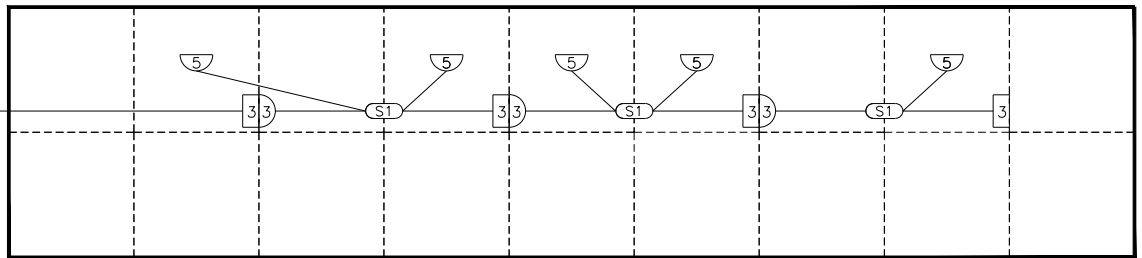
# POWER

**\*AC WIRING NOTES\***  
 (COLOR CORRESPONDS TO HARNESS)  
 BLACK=L1  
 WHITE=N1  
 GREEN=G1  
 INSERT CORRECT COLOR WIRE INTO ANY  
 AVAILABLE CORRESPONDING OPENING

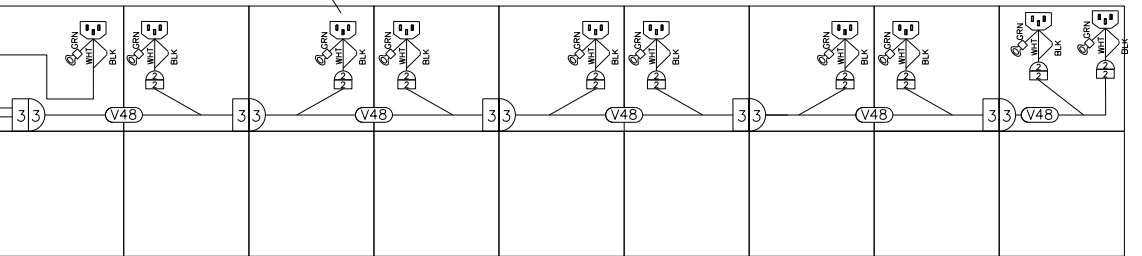
## POWER SUPPLY TO MOD (FRONT VIEW)



## TERM PANEL TO POWER SUPPLY (FRONT VIEW)



## OUTLETS (FRONT VIEW)

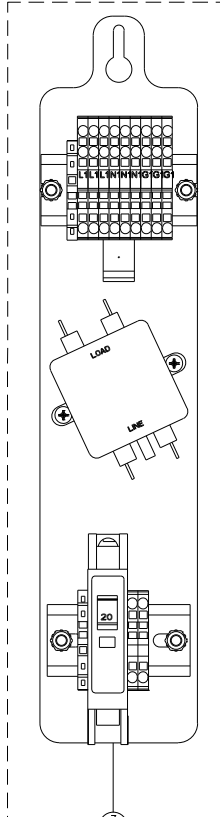


2 --- MALE    2 --- FEMALE    3 --- MALE    3 --- FEMALE

- |           |  |           |  |
|-----------|--|-----------|--|
| 2 @ (G0)  | W-1883<br>HARN; BARE TO FEMALE 3PIN, TB TO PS, 5'        | 1 @ (V45) | OA-1892-7018<br>ASSY; HARN, IN PWR, 3P F MNL TO 2P 3W HBL 250V |
| 5 @ (H57) | W-2690<br>HARN; JST 6P/7P TO 4, 4P M MNL                 | 1 @ (V46) | OA-1778-7001<br>HARN; E-1184 TO BARE W/ SPADE TERMINALS        |
| 3 @ (S1)  | OA-1487-5501<br>HARN; PWR, JST, 2PS, 24", CENTER TAP     | 5 @ (V48) | OA-1892-7003<br>HARNSS; CONVENIENCE OUTLET INTERCONNECT        |
| 1 @ (V49) | OA-1892-7007<br>HARNSS; POSSESSION INDICATOR OUTLET 240V |           |  |
| 9 @ (V50) | OA-1892-7005<br>HARNSS; OUTLET W/ WHIP 240V              |           |  |

### \*NOTE

CUT 3P MALE END  
 OFF OF CABLE, STRIP 3" OF INSULATION OFF  
 OF CABLE, THEN STRIP .25" OFF EACH WIRE  
 AND TERMINATE TO PT PANEL



SEE \*NOTE  
 BELOW

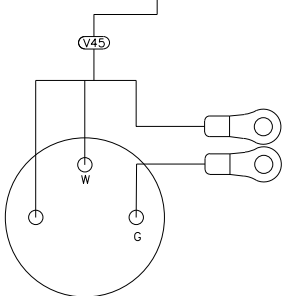
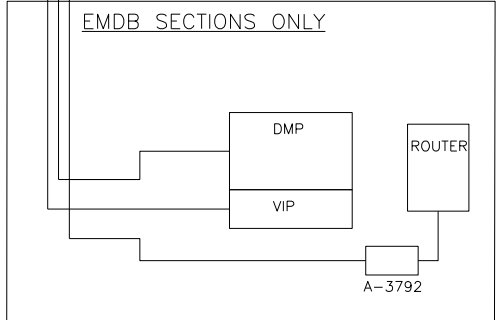
V49 HARNESS IS RUN  
 INDEPENDENTLY FOR  
 POSSESSION INDICATOR

CONNECT HARNESS  
 TO S-1203 W/  
 PRETERMINATED  
 SPADE JACKS

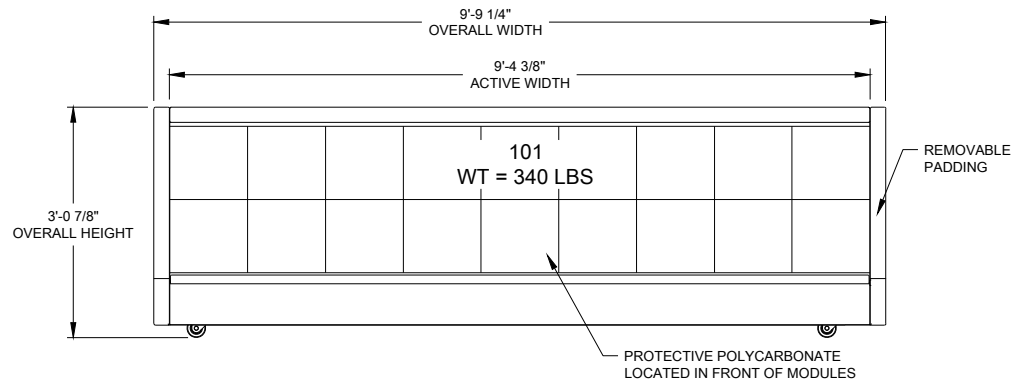
TO LIGHT STRIP  
 DRIVER AC IN  
 (PRIMARY TABLE  
 ONLY) (OPTIONAL)

TO CLOCK STOP  
 DRIVER AC IN  
 (PRIMARY TABLE  
 ONLY) (OPTIONAL)

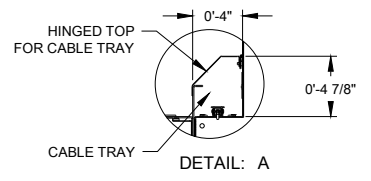
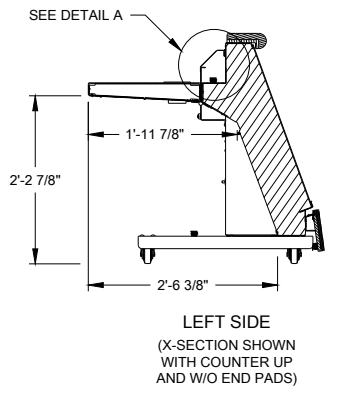
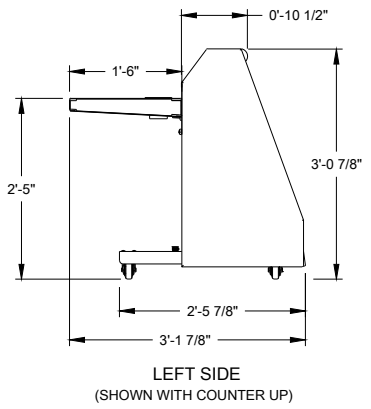
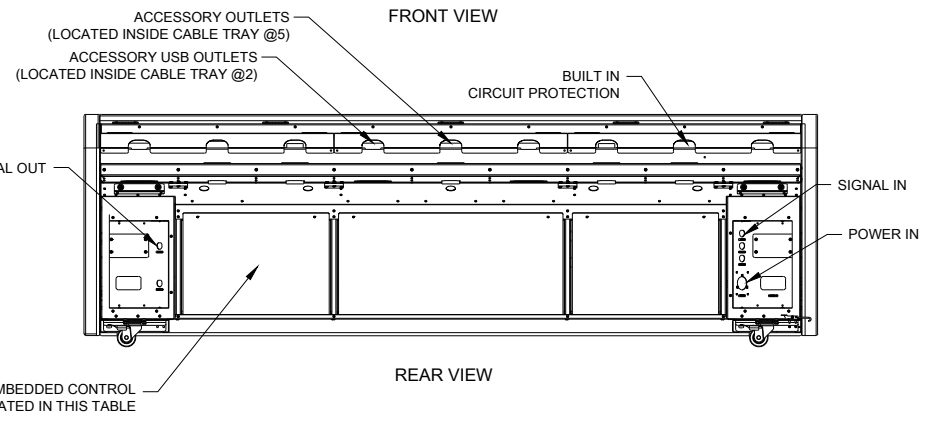
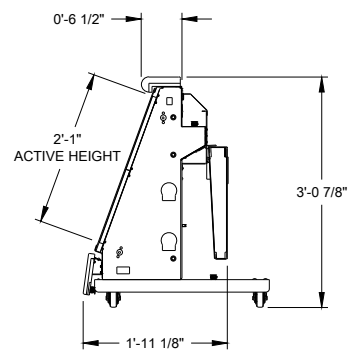
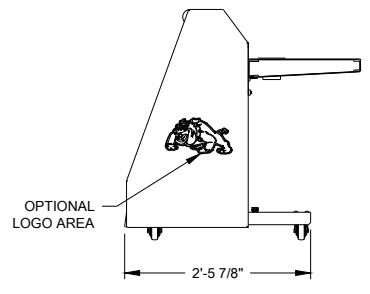
## EMDB SECTIONS ONLY



<b>DAKTRONICS</b>		THIRD ANGLE PROJECTION	
PROJECT: ST A3			
TITLE: N B BLOCK DIAGRAM; POWER, ST A3, 2X9 INTL.			
DATE: 13 JUL 16	DIM UNITS: INCHES (MILLIMETERS)	SHEET	REV
SCALE: NTS	DO NOT SCALE DRAWING		00
DESIGN: CTIESZEN	JOB NO. P1892	FUNC - TYPE - SIZE	
DRAWN: CLT		F - 03 - B	
			<b>3409763</b>



OVERALL DISPLAY  
64X288-10MM / 96X432-6MM  
ACTIVE AREA: 2'-1" X 9'-4 3/8"  
APPROXIMATE WEIGHT: 340 LBS



1.0 REFERENCE

- 1.1 REFER TO DAKTRONICS PROPOSAL DRAWING FOR DISPLAY COMPONENT SPECIFICATIONS.
- 1.2 REFER TO DAKTRONICS SYSTEM RISER DRAWING FOR POWER AND SIGNAL SPECIFICATIONS.

2.0 GENERAL NOTES

- 2.1 ALL DIMENSIONS IN FEET AND INCHES.
- 2.2 PAINT PLAN:  
DISPLAY CABINETS: FLAT BLACK
- 2.3 REFER TO INSTALLATION AND MAINTENANCE MANUAL FOR COMPLETE INSTALLATION INSTRUCTIONS.

3.0 DISPLAY NOTES

- 3.1 DAKTRONICS DISPLAYS ARE ALL ALUMINUM CONSTRUCTION.
- 3.2 DAKTRONICS SCORE TABLES ARE FRONT AND REAR SERVICE.
- 3.3 SIGNAL DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE.
- 3.4 POWER DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE.

4.0 STRUCTURAL NOTES

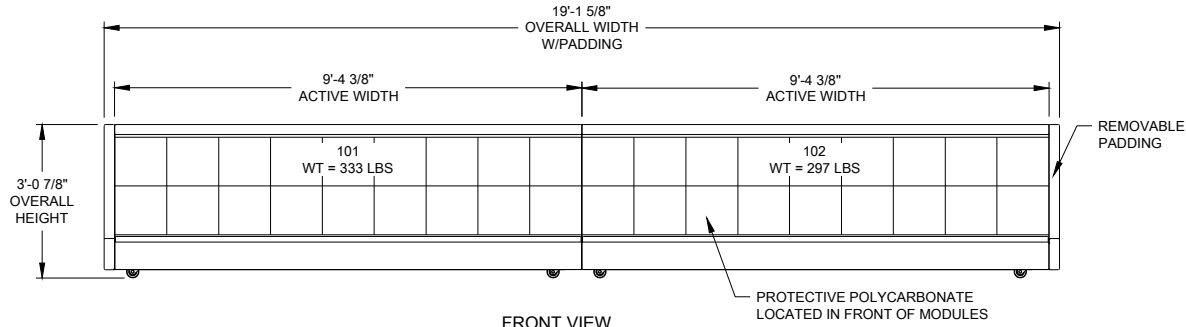
- 4.1 ESTIMATED WEIGHT- 290 LBS FOR 9'-4 3/8" SECTION  
AN ADDITIONAL 35 LBS FOR EACH SECTION WITH EMBEDDED CONTROL  
AN ADDITIONAL 15 LBS FOR EACH SET OF 2 END PADS
- 4.2 ANY NON-DAKTRONICS SUPPLIED EQUIPMENT SPECIFICATIONS MUST BE SUBMITTED TO DAKTRONICS PRIOR TO DISPLAY FINAL DESIGN.
- 4.3 ALL SCORETABLE ASSEMBLY HARDWARE SHALL BE PROVIDED BY DAKTRONICS.

5.0 PROJECT RESPONSIBILITIES

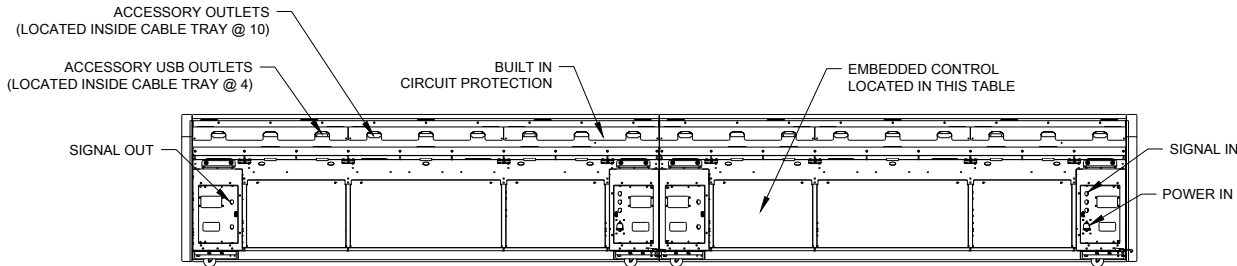
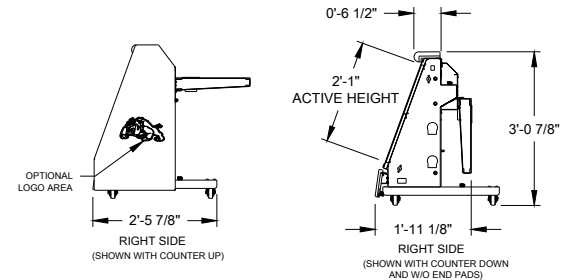
- 5.1 ALL ON-SITE WORK TO BE DONE IN ACCORDANCE WITH OSHA AND ALL LOCAL CODES THAT APPLY.
- 5.2 DAKTRONICS SUBCONTRACTORS RESPONSIBLE FOR JOBSITE SAFETY.

		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2017 DAKTRONICS, INC. (USA)</small>			
PROJECT: ST A3					
TITLE: SHOP; ST-23XY/ST-29XY, 64X288-10/96X432-6					
DATE: 18 JUL 16		DIM UNITS: INCHES [MILLIMETERS]		SHEET	
SCALE: 1/20		DO NOT SCALE DRAWING		REV 00	
DESIGN: BNYBO		JOB NO. P1892		FUNC - TYPE - SIZE	
DRAWN: BNYBO				E - 10 - B	
				3412819	

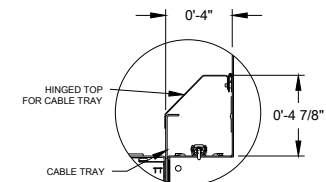
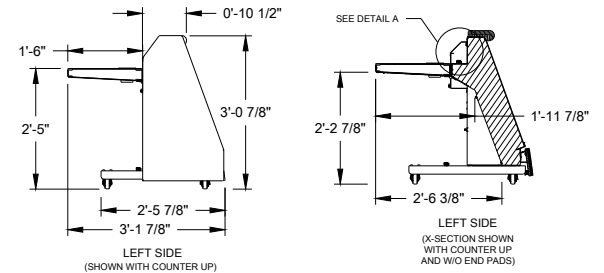
**OVERALL DISPLAY**  
**64X576-10MM / 96X864-6MM**  
**ACTIVE AREA: 2'-1" X 18'-8 5/8"**  
**APPROXIMATE WEIGHT: 630 LBS**



FRONT VIEW



REAR VIEW



DETAIL: A

1.0 REFERENCE

- 1.1 REFER TO DAKTRONICS PROPOSAL DRAWING FOR DISPLAY COMPONENT SPECIFICATIONS.
- 1.2 REFER TO DAKTRONICS SYSTEM RISER DRAWING FOR POWER AND SIGNAL SPECIFICATIONS.

2.0 GENERAL NOTES

- 2.1 ALL DIMENSIONS IN FEET AND INCHES.
- 2.2 PAINT PLAN:  
DISPLAY CABINETS: FLAT BLACK
- 2.3 REFER TO INSTALLATION AND MAINTENANCE MANUAL FOR COMPLETE INSTALLATION INSTRUCTIONS.

3.0 DISPLAY NOTES

- 3.1 DAKTRONICS DISPLAYS ARE ALL ALUMINUM CONSTRUCTION.
- 3.2 DAKTRONICS SCORE TABLES ARE FRONT AND REAR SERVICE.
- 3.3 SIGNAL DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE.
- 3.4 POWER DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE.

4.0 STRUCTURAL NOTES

- 4.1 ESTIMATED WEIGHT— 290 LBS FOR 9'-4 3/8" SECTIONS  
AN ADDITIONAL 35 LBS FOR EACH SECTION WITH EMBEDDED CONTROL  
AN ADDITIONAL 15 LBS FOR EACH SET OF 2 END PADS
- 4.2 ANY NON-DAKTRONICS SUPPLIED EQUIPMENT SPECIFICATIONS MUST BE SUBMITTED TO DAKTRONICS PRIOR TO DISPLAY FINAL DESIGN.
- 4.3 ALL SCORETABLE ASSEMBLY HARDWARE SHALL BE PROVIDED BY DAKTRONICS.

5.0 PROJECT RESPONSIBILITIES

- 5.1 ALL ON-SITE WORK TO BE DONE IN ACCORDANCE WITH OSHA AND ALL LOCAL CODES THAT APPLY.
- 5.2 DAKTRONICS SUBCONTRACTORS RESPONSIBLE FOR JOBSITE SAFETY.

		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2017 DAKTRONICS, INC. (USA)			
PROJECT: ST A3					
TITLE: SHOP; ST-23XY/ST-29XY, 64X576-10/96X864-6					
DATE: 18 JUL 16	DIM UNITS: INCHES (MILLIMETERS)			SHEET	REV
SCALE: 1/30	DO NOT SCALE DRAWING				
DESIGN: BNYBO	JOB NO. P1892	FUNC - TYPE - SIZE E - 10 - B		3413038	
DRAWN: BNYBO					

Last Modified By - doppelt

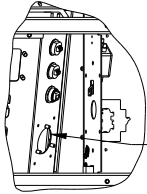
Last Modified - 2018-08-12

**0A-1892-8329**

**DETAIL A**

SEE DETAIL 1  
ON DWG-343790

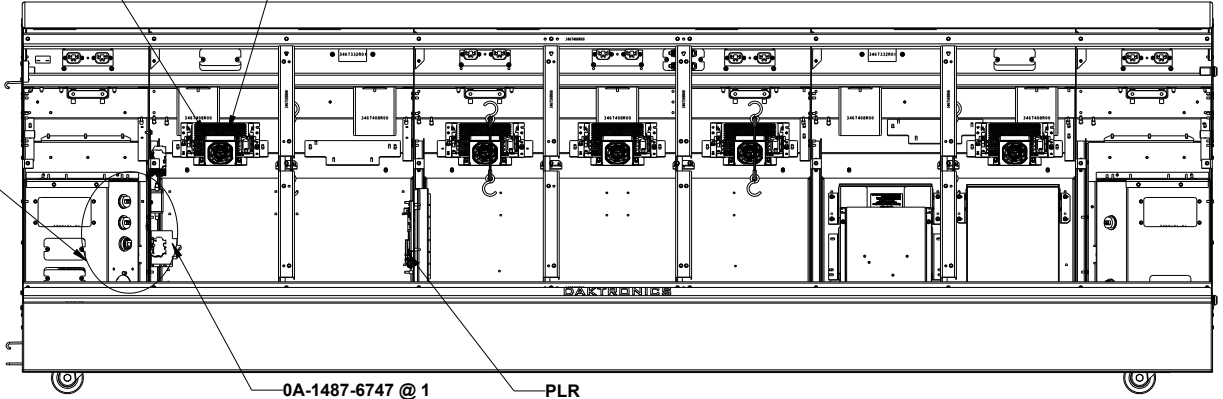
A-2855 @ 5, HC-1354 @ 25, MP-1385 @ 5, B-1103 @ 5  
INSTALL PS USING HC-1354 @ 2 PER PS (10 IN-LBS)  
ATTACH GROUND RING OF DC HARNESS USING HC-1354 @ 1 (10 IN-LBS)  
INSTALL B-1103 INTO MP-1385 W/ LABEL OF FAN TOWARDS PS &  
HARNESS OF FAN TOWARDS SECONDARY HARNESS SIDE OF PS  
INSTALL MP-1385 USING HC-1354 @ 2 (10 IN-LBS)



J-1596 @ 1  
INSTALL W/ HARDWARE PROVIDED (10 IN-LBS)  
GROUNDING FOR 0A-1892-7018 HARNESS  
HC-1554 @ 2 (10 IN-LBS)  
LL-2812 @ 1

**DETAIL A**

SEE DETAIL 6 ON DWG-0343790  
FOR EMBD CNTRL TABLE  
REMOVE EC-1022  
INSTALL EC-1190 @ 1  
W/ HARDWARE PROVIDE  
J-1560 @ 4



0A-1487-6747 @ 1  
HC-1763 @ 1 (25 IN-LBS)

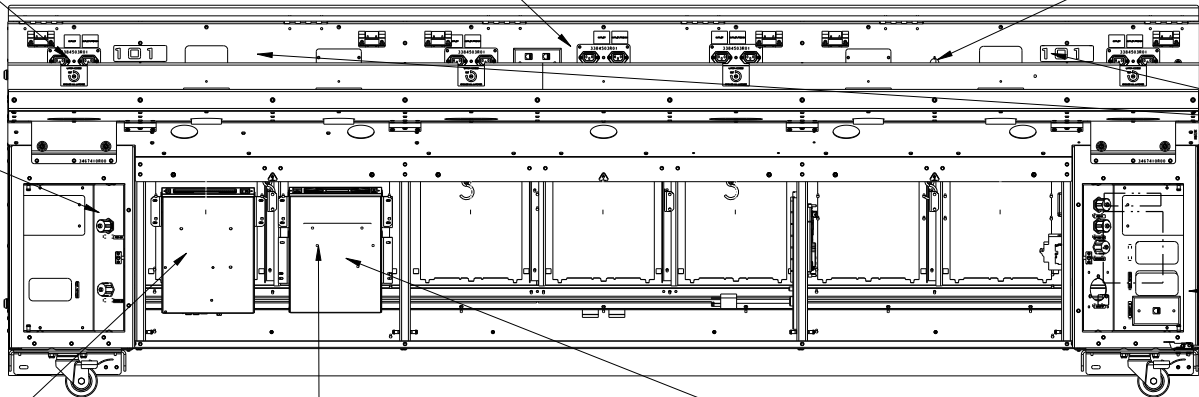
PLR  
0P-1525-0004 @ 1  
HC-1141 @ 4

HS-3497305 @ 1  
INSTALLED WHEN REAR LIGHT STRIP IS  
NOT PRESENT, INSERT PLUG BY HAND,  
A FLAT EDGED TOOL MAY BE REQUIRED  
TO PUSH PLUG FULLY INTO POSITION

J-3373731 @ 10  
OS-3384502 @ 5  
HC-1354 @ 20 (10 IN-LBS)  
HC-1014 @ 20  
HC-1238 @ 20

SEE DETAIL 2  
ON DWG-0343790

SEE DETAIL 6 ON DWG-0343790  
FOR CUSTOMER NETWORK  
REMOVE EC-1022  
INSTALL EC-1190 @ 2  
W/ HARDWARE PROVIDED  
J-1560 @ 8



SEE DETAIL 3  
ON DWG-0343790

CONFIGURED VIP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO VIP USING HC-1014 @ 6 (10 IN-LBS)

CONFIGURED DMP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO DMP USING HC-1014 @ 6 (10 IN-LBS)

CONFIGURED ROUTER  
EN-2516, A-3792  
INSTALL CONFIGURED ROUTER AND A-3792  
INTO EN-2516, MOUNT EN-2516 TO TABLE  
USING HC-1238 @ 4 (10 IN-LBS)

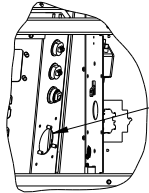
05	05 JUN 18	PER CN-57408, UPDATED ROUTER LOCATION	CDO 19058
03	22 SEP 17	CHANGED J-1593 TO J-1596 TO MATCH BOM PER EC-41840	CLT
02	20 JAN 17	CORRECTED VIEWS FOR BETTER VISIBILITY ADDED NOTE FOR HS-3497305 PER EC-23310	CLT
REV	DATE:		BY:

		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)</small>		
PROJECT:	ST A3			
TITLE:	LAYOUT: COMPONENT PLACEMENT, ST-23XY, 2X9 INTL			
DATE:	01-JUN-18	DIM UNITS: INCHES (MILLIMETERS)	SHEET	REV
SCALE:	1/36	DO NOT SCALE DRAWING	1 OF 1	05
DESIGN:	ACAMPBE	JOB NO. P1892	FUNC - TYPE - SIZE E - 07 - B	3413681
DRAWN:	ACAMPBE			

# 0A-1892-8328

## DETAIL A

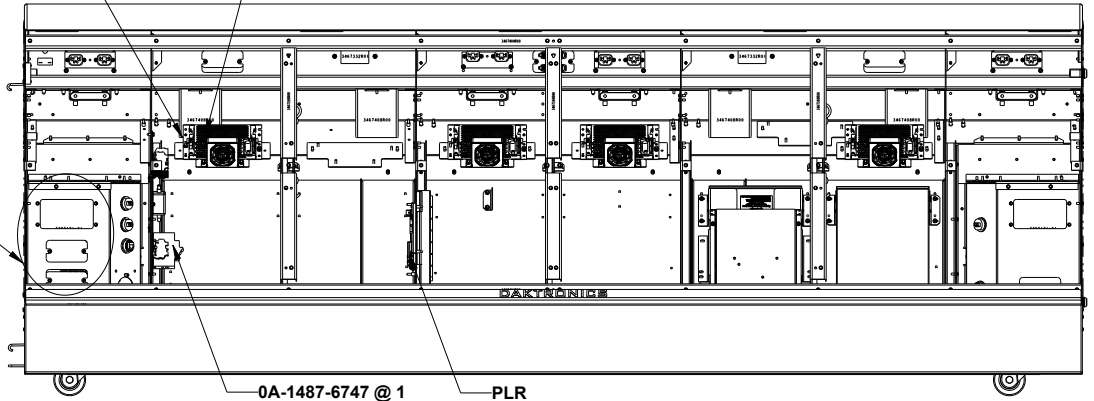


J-1596 @ 1  
 INSTALL W/ HARDWARE PROVIDED (10 IN-LBS)  
 GROUNDING FOR 0A-1892-7018 HARNESS  
 HC-1554 @ 2 (10 IN-LBS)  
 LL-2812 @ 1

## DETAIL A

SEE DETAIL 1  
 ON DWG-3437970

A-2855 @ 4, HC-1354 @ 20, MP-1385 @ 4, B-1103 @ 4  
 INSTALL PS USING HC-1354 @ 2 PER PS (10 IN-LBS)  
 ATTACH GROUND RING OF DC HARNESS USING HC-1354 @ 1 (10 IN-LBS)  
 INSTALL B-1103 INTO MP-1385 W/ LABEL OF FAN TOWARDS PS &  
 HARNESS OF FAN TOWARDS SECONDARY HARNESS SIDE OF PS  
 INSTALL MP-1385 USING HC-1354 @ 2 (10 IN-LBS)



SEE DETAIL 6 ON DWG-03437970  
 FOR EMBD CNTRL TABLE  
 REMOVE EC-1022  
 INSTALL EC-1190 @ 1  
 W/ HARDWARE PROVIDE  
 J-1560 @ 4

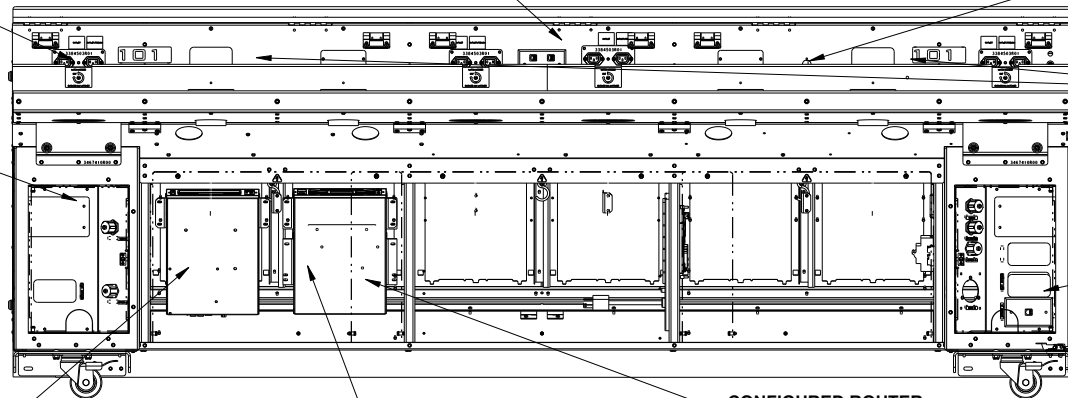
0A-1487-6747 @ 1  
 HC-1763 @ 1 (25 IN-LBS)  
 PLR  
 0P-1525-0004 @ 1  
 HC-1141 @ 4

HS-3497305 @ 1  
 INSTALLED WHEN REAR LIGHT  
 STRIPS ARE NOT PRESENT, INSERT  
 PLUG BY HAND, A FLAT EDGED TOOL  
 MAY BE REQUIRED TO PUSH PLUG FULLY  
 INTO POSITION

J-3373731 @ 8  
 OS-3384502 @ 4  
 HC-1354 @ 16 (10 IN-LBS)  
 HC-1014 @ 16  
 HC-1238 @ 16

SEE DETAIL 6 ON DWG-03437970  
 FOR CUSTOMER NETWORK  
 REMOVE EC-1022  
 INSTALL EC-1190 @2  
 W/ HARDWARE PROVIDED  
 J-1560 @ 8

SEE DETAIL 2  
 ON DWG-03437970



SEE DETAIL 3  
 ON DWG-03437970

CONFIGURED VIP  
 0M-3393291 @ 2  
 MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
 MOUNT TO VIP USING HC-1014 @ 6 (10 IN-LBS)

CONFIGURED DMP  
 0M-3393291 @ 2  
 MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
 MOUNT TO DMP USING HC-1014 @ 6 (10 IN-LBS)

CONFIGURED ROUTER  
 EN-2516, A-3792  
 INSTALL CONFIGURED ROUTER AND A-3792  
 INTO EN-2516, MOUNT EN-2516 TO TABLE  
 USING HC-1238 @ 4 (10 IN-LBS)

05	05 JUN 18	PER CN-67408, UPDATED ROUTER LOCATION	CDG	19556
03	22 SEP 17	CHANGED J-1563 TO J-1596 TO MATCH BOM PER EC-41940	CLT	
02	13 JAN 17	ADDED PLR TO LEADER NOTE, ADDED INSTALL NOTES TO HS-3497305 PER EC-23310	CLT	
01	11 NOV 16	UPDATED MODEL VIEWS AND ADDED LEADERS WHERE NEEDED PER EC-22756	CLT	
REV	DATE:		BY:	

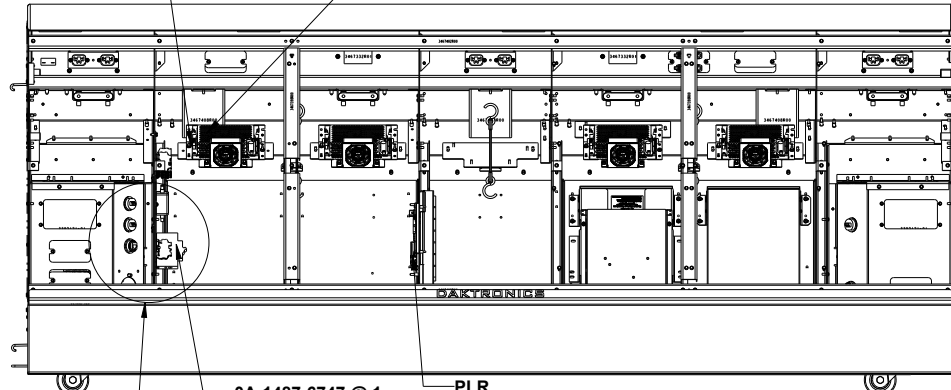
  

		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)		THIRD ANGLE PROJECTION 
PROJECT:	ST A3			
TITLE:	LAYOUT: COMPONENT PLACEMENT, ST-23XY 2X8 INTL			
DATE:	01-JUN-18	DIM UNITS:	INCHES (MILLIMETERS)	SHEET
SCALE:	1/36	DO NOT SCALE DRAWING		1 OF 1
DESIGN:	ACAMPBE	JOB NO.:	P1892	REV
DRAWN:	ACAMPBE	FUNC. - TYPE - SIZE:	E - 07 - B	05
				3414048

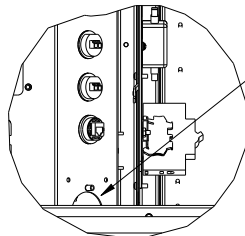
# 0A-1892-8327

SEE DETAIL 1  
ON DWG-3437970

A-2855 @ 5, HC-1354 @ 25, MP-1385 @ 5, B-1103 @ 5  
INSTALL PS USING HC-1354 @ 2 PER PS (10 IN-LBS)  
ATTACH GROUND RING OF DC HARNESS USING HC-1354 @ 1 (10 IN-LBS)  
INSTALL B-1103 INTO MP-1385 W/ LABEL OF FAN TOWARDS PS &  
HARNESS OF FAN TOWARDS SECONDARY HARNESS SIDE OF PS  
INSTALL MP-1385 USING HC-1354 @ 2 (10 IN-LBS)



J-1596 @ 1  
INSTALL W/ HARDWARE PROVIDED (10 IN-LBS)  
GROUNDING FOR 0A-1778-7000 HARNESS  
HC-1554 @ 2 (10 IN-LBS)  
LL-2812 @ 1



DETAIL A  
SCALE 17/100

SEE DETAIL 6 ON DWG-03437970  
FOR EMBD CNTRL TABLE  
REMOVE EC-1022  
INSTALL EC-1190 @ 1  
W/ HARDWARE PROVIDE  
J-1560 @ 4

0A-1487-6747 @ 1  
HC-1763 @ 1 (25 IN-LBS)  
PLR  
0P-1525-0004 @ 1  
HC-1141 @ 4

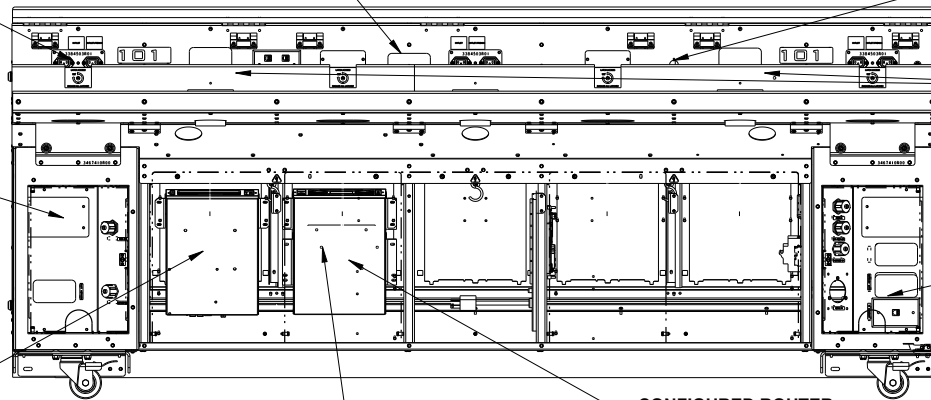
SEE DETAIL A

HS-3497305 @ 1  
INSTALLED WHEN REAR LIGHT STRIP KIT  
IS NOT PRESENT, INSERT PLUG BY HAND,  
A FLAT EDGED TOOL MAY BE REQUIRED TO  
PUSH PLUG FULLY INTO POSITION

SEE DETAIL 6 ON DWG-03437970  
FOR CUSTOMER NETWORK  
REMOVE EC-1022  
INSTALL EC-1190 @ 2  
W/ HARDWARE PROVIDED  
J-1560 @ 8

J-3373731 @ 6  
0S-3384502 @ 3  
HC-1354 @ 12 (10 IN-LBS)  
HC-1014 @ 12  
HC-1238 @ 12

SEE DETAIL 2  
ON DWG-03437970



SEE DETAIL 3  
ON DWG-03437970

CONFIGURED VIP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO VIP USING HC-1014 @ 6 (10 IN-LBS)

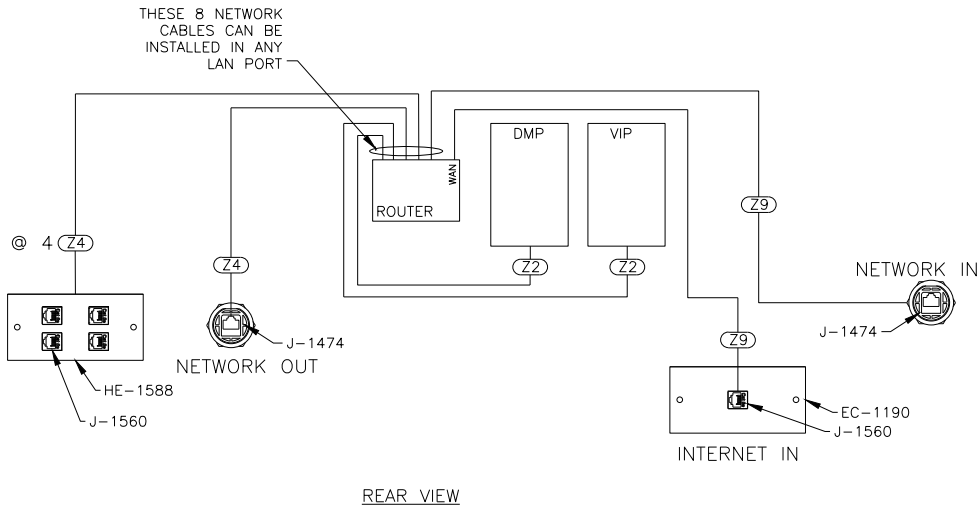
CONFIGURED ROUTER  
EN-2516, A-3792  
INSTALL CONFIGURED ROUTER AND A-3792  
INTO EN-2516, MOUNT EN-2516 TO TABLE  
USING HC-1238 @ 4 (10 IN-LBS)

CONFIGURED DMP  
0M-3393291 @ 2  
MOUNT TO TABLE USING HC-1238 @ 4 (10 IN-LBS)  
MOUNT TO DMP USING HC-1014 @ 6 (10 IN-LBS)

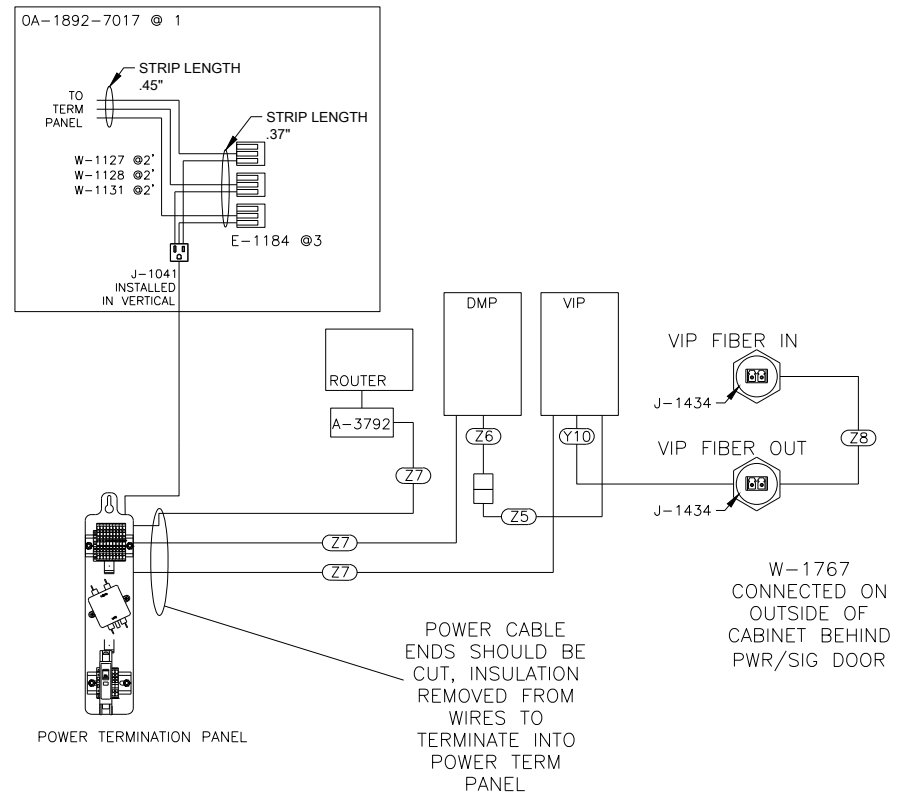
05	05 JUN 18	PER CN-67408, UPDATED ROUTER LOCATION	CDG 19556
03	22 SEP 17	CHANGED J-1596 TO J-1596 TO MATCH BOM PER EC-41940	CLT
02	13 JAN 17	ADDED INSTALL NOTES FOR HS-3497305 AND ADDED PLR NOTE TO LEADER PER EC-23310	CLT
01	11 NOV 16	UPDATED DRAWING WITH MODEL UPDATES ADDED LEADERS WHERE NEEDED PER EC-22756	CLT
REV	DATE:		BY:

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PROJECT: ST A3				
TITLE: LAYOUT: COMPONENT PLACEMENT, ST-23XY 2X7 INTL				
DATE: 01-JUN-18	DIM UNITS: INCHES (MILLIMETERS)		SHEET	REV
SCALE: 1/36	DO NOT SCALE DRAWING		1 OF 1	05
DESIGN: ACAMPBE	JOB NO. P1892	FUNC. TYPE - SIZE	3414177	
DRAWN: ACAMPBE		E - 07 - B		

EMDB SECTIONS ONLY



- 2 @ (Z2) W-1732 CABLE; CAT 5E BLACK RJ45-RJ45; 42"; 4 PAIR
- 5 @ (Z4) W-1734 CABLE; CAT 5E BLACK RJ45-RJ45; 93" 4 PAIR
- 2 @ (Z9) W-1735 CABLE; CAT 5E BLACK RJ45-RJ45; 120" 4 PAIR
- 5 @ J-1560 JACK; 8 PIN, FEM, RJ45, CAT5E, IDC, KEYSTONE
- 2 @ J-1474 JACK; 8 PIN FEM, RJ45, PANEL MOUNT ODVA, IP67
- 1 @ HE-1588 FACEPLATE; VERSATAP, STAINLESS STEEL, 4 PORT
- 1 @ EC-1190 WALL PLATE; SINGLE GANG, STAINLESS STEEL, QUICKPORT



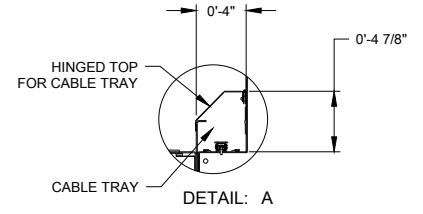
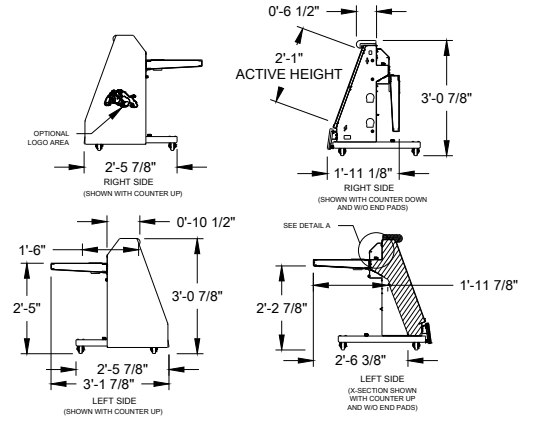
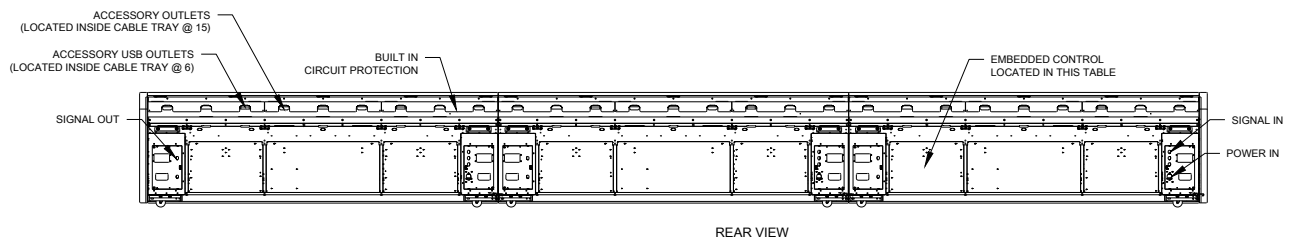
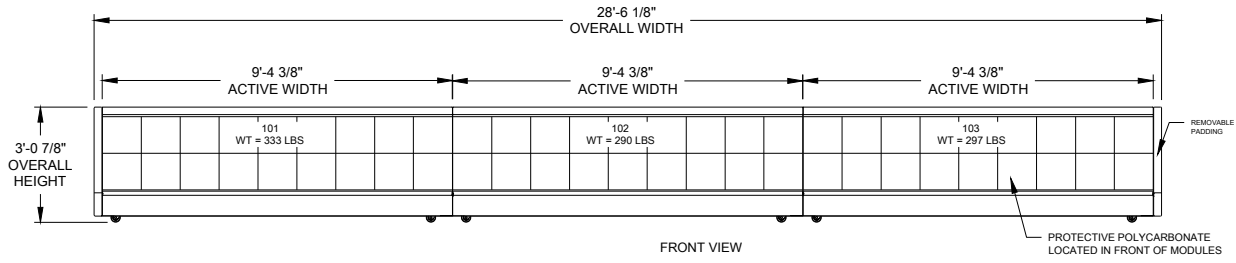
- 1 @ (Z5) W-1643 CABLE; DVI-D MALE TO DVI-D MALE 14"
- 1 @ (Z6) W-2351 ADAPTER; MINI DISPLAY PORT(M) TO DVI-D(F) CABLE
- 3 @ (Z7) W-2322 POWER CORD; 10' N5-15 TO IEC C13, 14WAG
- 1 @ (Y10) W-2123 FIBER; 5M 50UM LC-LC DUPLEX, CROSSOVER MM 10G
- 1 @ (Z8) W-1767 CABLE; 3FT FIBER OPTIC, INDUSTRIAL LC-LC DUPLEX
- 1 @ J-1434 JACK; DUPLEX LC FIBER BULKHEAD, FEMALE, INDUSTRIAL

REV	DATE	DESCRIPTION	BY	CHKD
04	25 FEB 19	CN7232 REPLACED W-2251 WITH W-1643	JSF	
03	25 MAY 18	PER CN-56997, CHANGED CURRENT DMP-8302 TO DMP-8221 AND REPLACED W-2678 WITH W-2351	JGANGEL	
02	21 DEC 17	PER CN-48886, REPLACED 2 W-1734 CABLES WITH W-1735	KCS	
01	09 NOV 16	REMOVED W-2746, CHANGED QNTY OF W-1633 FROM 1 TO 2 PER EC-22756	CLT	

		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)		
PROJECT: ST A3				
TITLE: BLOCK DIAGRAM, CONTROL, ST A3, INTL				
DATE: 22 JUL 16		DIM UNITS: INCHES (MILLIMETERS)		SHEET
SCALE: NTS		DO NOT SCALE DRAWING		REV
DESIGN: CTIESZEN		JOB NO. P1892		04
DRAWN: CLT		FUNC - TYPE - SIZE F - 03 - B		

OVERALL DISPLAY  
 64X864-10MM / 96X1296-6MM  
 ACTIVE AREA: 2'-1" X 28'-1 1/8"  
 APPROXIMATE WEIGHT: 920 LBS



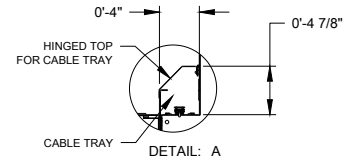
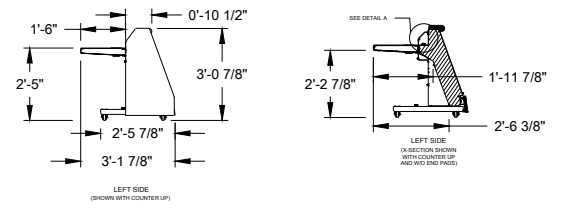
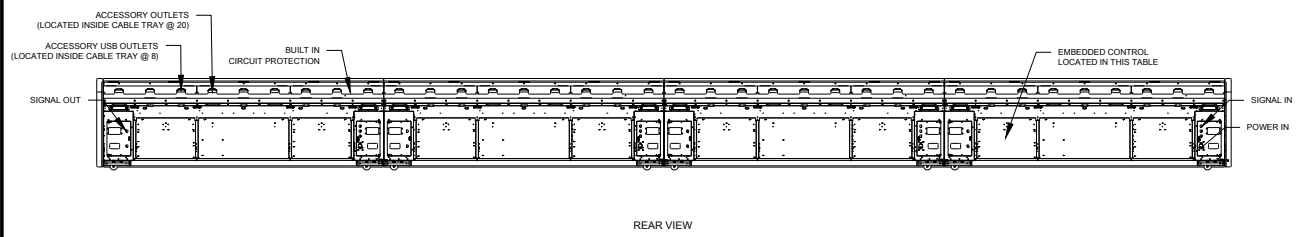
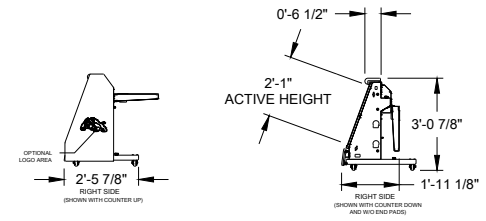
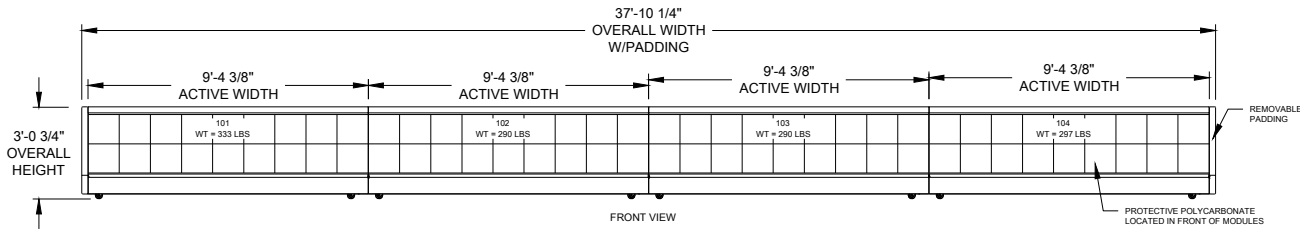
- 1.0 REFERENCE
- 1.1 REFER TO DAKTRONICS PROPOSAL DRAWING FOR DISPLAY COMPONENT SPECIFICATIONS.
  - 1.2 REFER TO DAKTRONICS SYSTEM RISER DRAWING FOR POWER AND SIGNAL SPECIFICATIONS.
- 2.0 GENERAL NOTES
- 2.1 ALL DIMENSIONS IN FEET AND INCHES.
  - 2.2 PAINT PLAN:  
DISPLAY CABINETS: FLAT BLACK
  - 2.3 REFER TO INSTALLATION AND MAINTENANCE MANUAL FOR COMPLETE INSTALLATION INSTRUCTIONS.
- 3.0 DISPLAY NOTES
- 3.1 DAKTRONICS DISPLAYS ARE ALL ALUMINUM CONSTRUCTION.
  - 3.2 DAKTRONICS SCORE TABLES ARE FRONT AND REAR SERVICE.
  - 3.3 SIGNAL DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE.
  - 3.4 POWER DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE.

- 4.0 STRUCTURAL NOTES
- 4.1 ESTIMATED WEIGHT - 290 LBS FOR 9'-4 3/8" SECTIONS AN ADDITIONAL 35 LBS FOR EACH SECTION WITH EMBEDDED CONTROL AN ADDITIONAL 15 LBS FOR EACH SET OF 2 END PADS
  - 4.2 ANY NON-DAKTRONICS SUPPLIED EQUIPMENT SPECIFICATIONS MUST BE SUBMITTED TO DAKTRONICS PRIOR TO DISPLAY FINAL DESIGN.
  - 4.3 ALL SCORETABLE ASSEMBLY HARDWARE SHALL BE PROVIDED BY DAKTRONICS.
- 5.0 PROJECT RESPONSIBILITIES
- 5.1 ALL ON-SITE WORK TO BE DONE IN ACCORDANCE WITH OSHA AND ALL LOCAL CODES THAT APPLY.
  - 5.2 DAKTRONICS SUBCONTRACTORS RESPONSIBLE FOR JOBSITE SAFETY.

		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)		
PROJECT: ST A3				
TITLE: SHOP, ST-23XY/ST-29XY, 64X864-10/96X1296-6				
DATE:	DIM UNITS:	INCHES (MILLIMETERS)	SHEET	REV
SCALE: 1 = 30	DO NOT SCALE DRAWING			
DESIGN: BNYBO	JOB NO. P1892	FUNC - TYPE - SIZE E - 10 - B	3421834	
DRAWN: BNYBO				



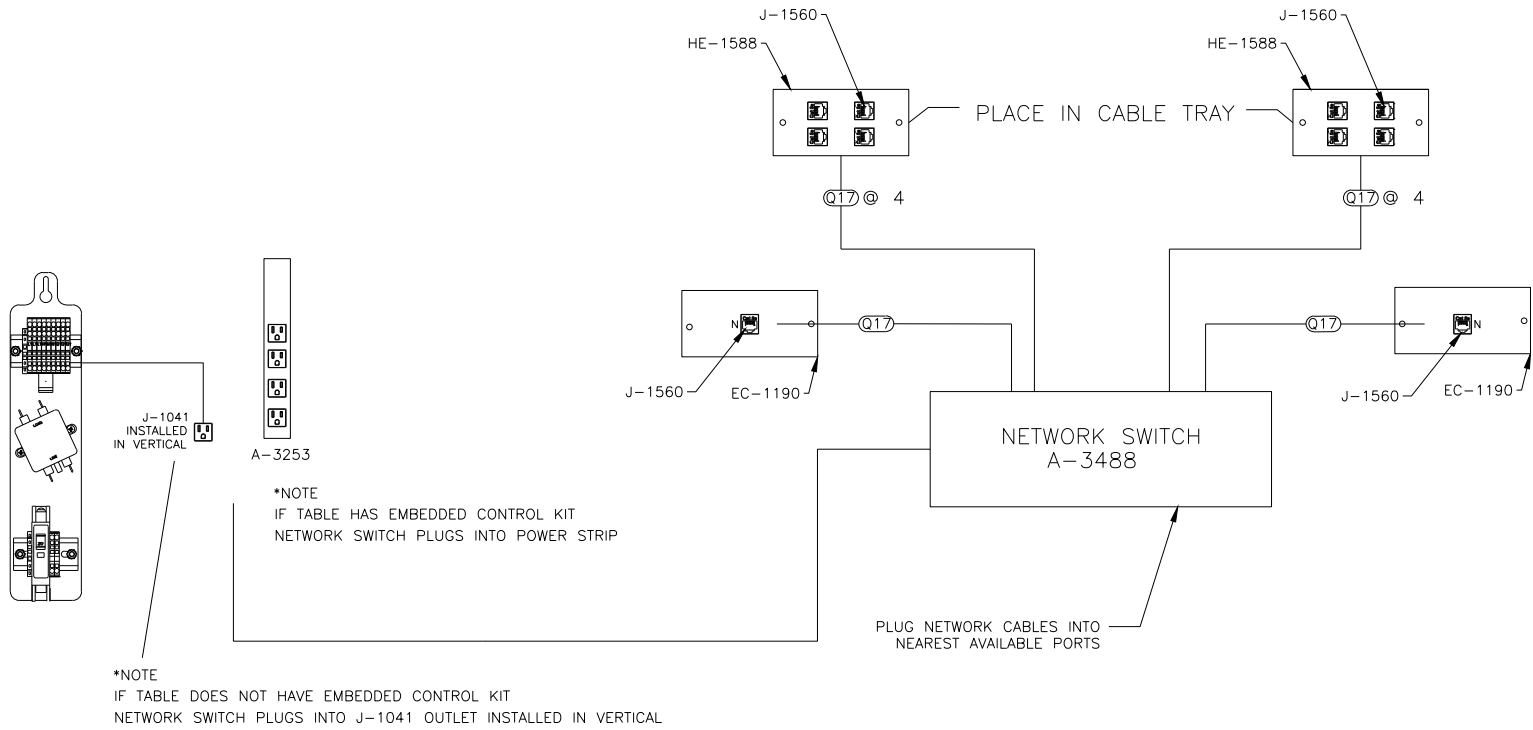
OVERALL DISPLAY  
 64X1152-10MM / 96X1728-6MM  
 ACTIVE AREA: 2'-1" X 37'- 5 1/4"  
 APPROXIMATE WEIGHT: 1210 LBS



- 1.0 REFERENCE
- 1.1 REFER TO DAKTRONICS PROPOSAL DRAWING FOR DISPLAY COMPONENT SPECIFICATIONS.
  - 1.2 REFER TO DAKTRONICS SYSTEM RISER DRAWING FOR POWER AND SIGNAL SPECIFICATIONS.
- 2.0 GENERAL NOTES
- 2.1 ALL DIMENSIONS IN FEET AND INCHES.
  - 2.2 PAINT PLAN: DISPLAY CABINETS: FLAT BLACK
  - 2.3 REFER TO INSTALLATION AND MAINTENANCE MANUAL FOR COMPLETE INSTALLATION INSTRUCTIONS.
- 3.0 DISPLAY NOTES
- 3.1 DAKTRONICS DISPLAYS ARE ALL ALUMINUM CONSTRUCTION.
  - 3.2 DAKTRONICS SCORE TABLES ARE FRONT AND REAR SERVICE.
  - 3.3 SIGNAL DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE.
  - 3.4 POWER DISTRIBUTION IS LOCATED IN THE REAR OF THE TABLE.
- 4.0 STRUCTURAL NOTES
- 4.1 ESTIMATED WEIGHT - 290 LBS FOR 9'-4 3/8" SECTIONS AN ADDITIONAL 35 LBS FOR EACH SECTION WITH EMBEDDED CONTROL AN ADDITIONAL 15 LBS FOR EACH SET OF 2 END PADS
  - 4.2 ANY NON-DAKTRONICS SUPPLIED EQUIPMENT SPECIFICATIONS MUST BE SUBMITTED TO DAKTRONICS PRIOR TO DISPLAY FINAL DESIGN.
  - 4.3 ALL SCORETABLE ASSEMBLY HARDWARE SHALL BE PROVIDED BY DAKTRONICS.
- 5.0 PROJECT RESPONSIBILITIES
- 5.1 ALL ON-SITE WORK TO BE DONE IN ACCORDANCE WITH OSHA AND ALL LOCAL CODES THAT APPLY.
  - 5.2 DAKTRONICS SUBCONTRACTORS RESPONSIBLE FOR JOBSITE SAFETY.

		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)			
PROJECT:	ST A3	TITLE:	SHOP: ST-23XY/ST-29XY, 64X1152-10/96X1728-6	SHEET	REV
DATE:		DIM UNITS:	INCHES [MILLIMETERS]		
SCALE:	1 = 30	DO NOT SCALE DRAWING			
DESIGN:	BNYBO	JOB NO.:	P1892	FUNC - TYPE - SIZE	E - 10 - B
DRAWN:	BNYBO				3421854

REAR VIEW



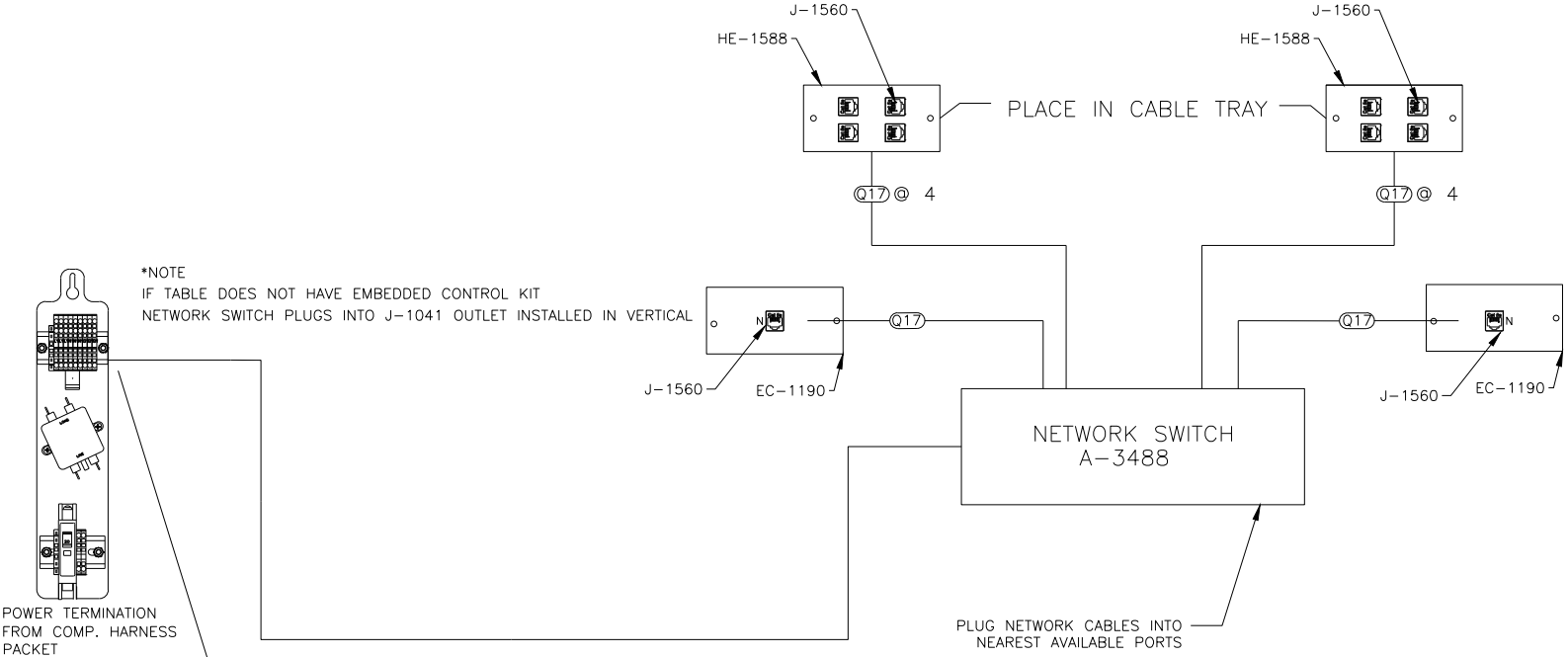
- 10 © J-1560  
JACK; 8 PIN, FEM, RJ45, CAT5E, IDC, KEYSTONE
- 2 © EC-1190  
WALL PLATE; SINGLE GANG, STAINLESS STEEL, QUICKPORT
- 2 © HE-1588  
FACEPLATE; VERSATAP, STAINLESS STEEL, 4 PORT
- 10 © W-1734  
CABLE; CAT 5E BLACK RJ45-RJ45; 93" 4 PAIR
- 1 © A-3488  
NETWORK SWITCH; 10-PORT, GIGABIT, MANAGED, 1RU

REV	DATE	DESCRIPTION	BY
04	8 OCT 20	CN110624 REMOVED W-1733 AND WILL ONLY USE W-1734	JSF
03	27 JUNE 18	REMOVED A-2960, W-1506, W-1732, W-1735, ADDED A-3488 @1, W-1734 @4 (8 TOTAL) W-1733 @2	JSF
02	22 SEP 17	ADDED CLARIFICATION FOR INSTALLATION OF NETWORK PLATES BY: AS WELL AS NETWORK CABLE INSTALLATION PER EC-41840	CLT
01	24 MAY 17	REMOVED W-1733 REPLACED WITH W-1734 ADDED W-1735 @99R ENTRANCE NETWORK PLATE TO SWITCH PER EC-36779	CLT

THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)

PROJECT: ST A3  
 TITLE: BLOCK DIAGRAM; NETWORK KIT, DOMESTIC  
 DATE: 18 AUG 16 DIM UNITS: INCHES | MILLIMETERS SHEET REV  
 SCALE: NTS DO NOT SCALE DRAWING 04  
 DESIGN: CLT JOB NO. FUNC - TYPE - SIZE  
 DRAWN: CTIESZEN P1892 F-03-B 3439592

REAR VIEW



\*NOTE  
IF TABLE DOES NOT HAVE EMBEDDED CONTROL KIT  
NETWORK SWITCH PLUGS INTO J-1041 OUTLET INSTALLED IN VERTICAL

POWER TERMINATION  
FROM COMP. HARNESS  
PACKET

CUT MALE END OF POWER CABLE OFF  
STRIP 4" OF INSULATION OFF OF CABLE  
STRIP .25" OFF EACH WIRE AND TERMINATE TO POWER TERMINATION PANEL  
IF ALL TERMINALS ARE FULL, USE 12" WIRES W-1078, W-1079, W-1080  
AND WAGO LEVER NUTS (E-1184 @ 3) TO SHARE TERMINAL ON POWER RAIL  
WITH ROUTER POWER SUPPLY A-3792

PLUG NETWORK CABLES INTO  
NEAREST AVAILABLE PORTS

- 10 © J-1560  
JACK; 8 PIN, FEM, RJ45, CAT5E, IDC, KEYSTONE
- 2 © EC-1190  
WALL PLATE; SINGLE GANG, STAINLESS STEEL, QUICKPORT
- 2 © HE-1588  
FACEPLATE; VERSATAP, STAINLESS STEEL, 4 PORT
- 10 © W-1734  
CABLE; CAT 5E BLACK RJ45-RJ45; 93" 4 PAIR
- 1 © A-3488  
NETWORK SWITCH; 10-PORT, GIGABIT, MANAGED, 1RU

REV 04	DATE: 8 OCT 20	CN110624 REMOVED W-1733 AND WILL ONLY USE W-1734	BY: JSF
REV 03	DATE: 27 JUNE 18	REMOVED A-2960, W-1506, W-1732, W-1735, ADDED A-3488 @1, W-1734 @4 (6 TOTAL) W-1733 @2	BY: JSF
REV 02	DATE: 22 SEP 17	ADDED CLARIFICATION FOR INSTALLATION OF NETWORK PLATES AS WELL AS NETWORK CABLE INSTALLATION PER EC-4184	BY: CLT
REV 01	DATE: 24 MAY 17	REMOVED W-1733 REPLACED WITH W-1734 ADDED W-1735 FOR ENTRANCE NETWORK PLATE TO SWITCH PER EC-36779	BY: CLT

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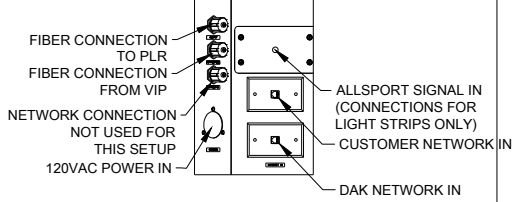
PROJECT: ST A3  
TITLE: BLOCK DIAGRAM; NETWORK KIT, INTERNATIONAL  
DATE: 18 AUG 16 DIM UNITS: INCHES | MILLIMETERS SHEET  
SCALE: NTS DO NOT SCALE DRAWING  
DESIGN: CTIESZEN JOB NO. P/INC - TYPE - SIZE 71 70 R

ST-2333-10MN-WM-MA-64X1152-120BR-LT-MR-EMBEDDED  
 ST-2333-6MN-WM-MA-96X1728-120BR-LT-MR-EMBEDDED  
 ST-2334-10MN-WM-MA-64X1152-120BR-LT-MR-EMBEDDED  
 ST-2334-6MN-WM-MA-96X1728-120BR-LT-MR-EMBEDDED

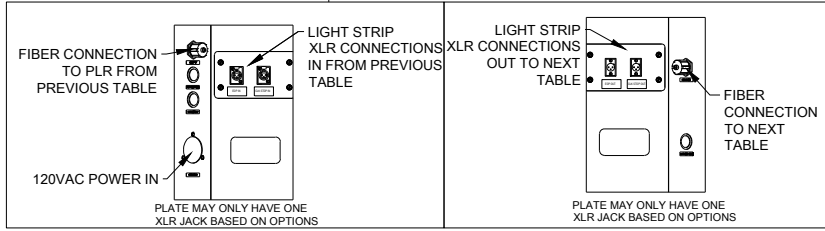
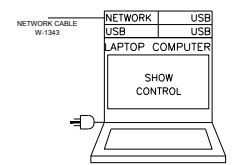
\*\*EACH TABLE REQUIRES A 20A DEDICATED CIRCUIT\*\*

DISPLAY POWER REQUIREMENTS				
PIXEL PITCH	DISPLAY SIZE	EACH TABLE		VOLTAGE
		WATTS	AMPS	
ST-2333-10MN-WM	64X288	864	7.2	120V
OUTLETS		1,200	10	120V
ST-2333-6MN-WM	96X432	864	7.2	120V
OUTLETS		1,200	10	120V
ST-2334-10MN-WM	64X288	948	7.9	120V
OUTLETS		1,200	10	120V
ST-2334-6MN-WM	96X432	948	7.9	120V
OUTLETS		1,200	10	120V

NOTE: POWER REQUIREMENTS SHOWN ARE FOR THE DISPLAY. PLUS 1,200 WATTS OF RECEPTACLE LOAD.

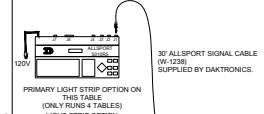


REAR VIEW



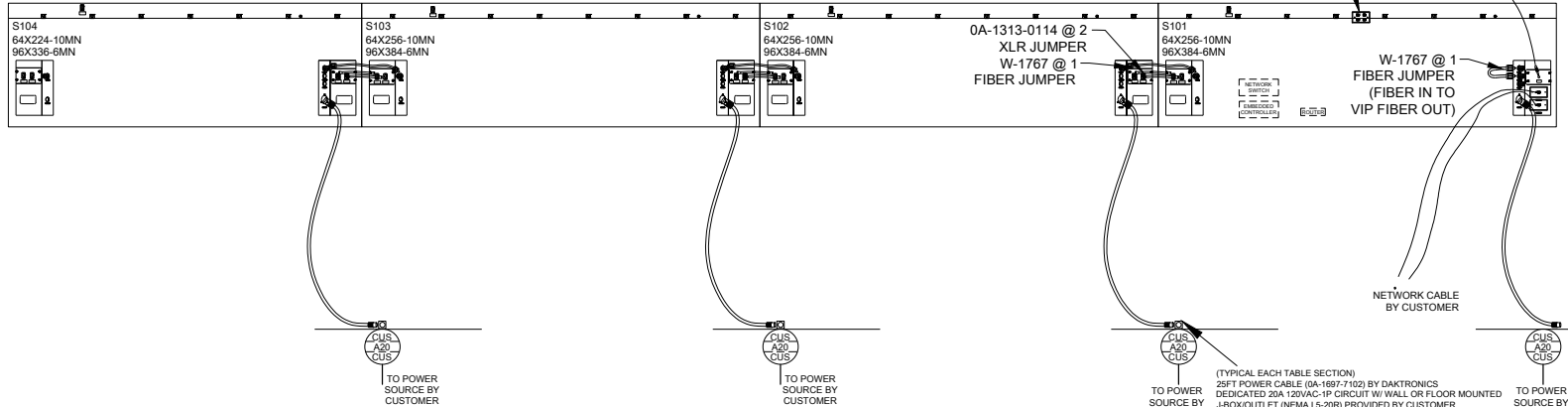
\* NOTE  
 LIGHT STRIPS DO NOT COME AS STANDARD  
 THEY ARE OPTIONAL EQUIPMENT

LIGHT STRIP SETUP ONLY



4 DAKTRONICS NETWORK PORTS (SHOW CONTROL, ALLSPORT DAK STATS/STAT CREW, ETC...)

CONVENIENCE OUTLETS (LOCATED INSIDE CABLE TRAY @9)



POWER DISTRIBUTION SYSTEM LEGEND

FEEDER TABLE - 2 CONDUCTORS+GND (SEE SPECIFICATIONS FOR INSULATION TYPE)				
OVER CURRENT PROTECTION AMPACITY	2 WIRES			
	FDR REF	COPPER WIRE AWG-KCMIL	COPPER GND WIRE AWG	MIN. CONDUIT SIZE
20	A20	(2)12	12	1/2"

NOTES:  
 A. CONDUIT SIZES ARE MINIMUM. INCREASE FOR LONG OR DIFFICULT RUNS.  
 B. ABOVE 86 F AMBIENT INCREASE WIRE SIZE PER NEC.  
 CONDUIT AND CONDUCTOR SIZES ARE BASED ON 90° TYPE THIN COPPER CURRENT CARRYING CONDUCTORS IN SCH. 40 PVC CONDUIT, TERMINATING TO 75°C TERMINALS. CONDUIT AND CONDUCTOR SIZES MAY NEED TO BE INCREASED PER LOCAL AND NATIONAL ELECTRIC CODES IF OTHER CONDUCTOR OR CONDUIT TYPES ARE USED.  
 IF WIRE OR CONDUIT SIZES OTHER THAN THOSE SHOWN IN THESE CHARTS ARE TO BE USED, CONTACT A DAKTRONICS ELECTRICAL ENGINEERING REPRESENTATIVE.

NOTES:  
 THE FOLLOWING 200 SERIES ARE NOT SCALED DRAWINGS AND SHOULD BE USED FOR POWER AND SIGNAL REQUIREMENTS ONLY.  
 IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL ELECTRICAL WORK PERFORMED ON SITE MEETS OR EXCEEDS ALL LOCAL AND NATIONAL ELECTRICAL CODES.  
 ALL SIGNAL CABLE RUNS SHOULD BE LABELED WITH THEIR ORIGIN AND DESTINATION ON EACH END.  
 FIBER OPTIC CABLE RUNS MUST BE CONTINUOUS WITH A MINIMUM BEND RADIUS OF 15XO.D. OF THE FIBER CABLE.  
 IF A SHIELDED SIGNAL CABLE IS UTILIZED IN YOUR SYSTEM, ENSURE THAT THE CABLES SHIELD IS GROUNDED ON THE DISPLAY END ONLY, AND TO THE SHIELD TERMINAL AT THE SIGNAL CABLE SURGE ARRESTER CARD WHEN AVAILABLE.  
 ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE NATIONAL ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.  
 THE OVER CURRENT PROTECTION DEVICE MUST BE MATCHED TO THE FAULT CURRENT THAT IS AVAILABLE IN THE POWER DELIVERY CIRCUIT. TO DETERMINE THE AVAILABLE FAULT CURRENT OF A SITE, AN ONSITE FAULT CURRENT SURVEY MAY NEED TO BE PERFORMED BY QUALIFIED PERSONNEL. IF THE AVAILABLE FAULT CURRENT IN THE ELECTRICAL SYSTEM EXCEEDS 10,000 AMPS, A DAKTRONICS REPRESENTATIVE SHOULD BE CONTACTED.  
 DUE TO THE INRUSH CURRENT (MOMENTARY SURGE) CREATED BY THE DISPLAY EQUIPMENT ON STARTUP, THE OVER CURRENT PROTECTION DEVICE(S) MAY HAVE TO BE OVERSIZED.  
 DAKTRONICS UTILIZES BOTH STANDARD AND SUPPLEMENTARY CIRCUIT BREAKERS IN THE DISPLAY ASSEMBLY PROCESS. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL PRIMARY FEEDER CIRCUIT BREAKERS TO EACH DISPLAY/DISPLAY SECTION ARE UL 489 LISTED.  
 DAKTRONICS IS NOT RESPONSIBLE FOR THE QUALITY OF THE POWER DELIVERY SYSTEM TO THE DISPLAY SYSTEM.  
 BECAUSE EACH INSTALLATION IS UNIQUE, DAKTRONICS OFFERS THESE INSTRUCTIONS AS GUIDELINES ONLY. DAKTRONICS, INC. ASSUMES NO LIABILITY IF INSTALLATION STEPS HAVE BEEN OMITTED OR OTHER NECESSARY PROCEDURES ARE NOT INCLUDED IN THIS SYSTEM RISER DIAGRAM.  
 POWER AND SIGNAL REQUIREMENTS ARE SPECIFIED TO THE EQUIPMENT AND SETUP SHOWN. ANY CHANGES MADE TO EQUIPMENT OR THEIR SETUP SHOULD BE DISCUSSED WITH DAKTRONICS DESIGN PERSONNEL AND WILL REQUIRE AN UPDATED RISER DIAGRAM DRAWING.  
 THE CONTRACTUAL AGREEMENT WILL DETERMINE THE PARTY OR PARTIES RESPONSIBLE FOR ITEMS LISTED AS FIELD INSTALLED. THIS DRAWING IS NOT INTENDED TO DETERMINE RESPONSIBILITIES AND SHOULD BE USED FOR REFERENCES ONLY.  
 ACTUAL PLACEMENT OF ELECTRICAL COMPONENTS, SUCH AS PANEL BOARDS, A/C'S, AND SPLICE PANELS, MAY VARY. PLEASE REFERENCE THE SYSTEM SHOP DRAWING FOR THIS DETAIL. THIS DRAWING REPRESENTS A GENERAL MOUNTING LOCATION ONLY.  
 EXTERNALLY MOUNTED HARDWARE  
 INTERNALLY MOUNTED HARDWARE

REV	DATE	DESCRIPTION	BY
03	03 MAY 18	PER CN-55363, UPDATED ST-2334 POWER REQUIREMENTS	DRO
02	15 MAR 18	PER CN-51429, ADDED ST-2334 TABLES TO TOP LEFT AND TO POWER REQUIREMENTS TABLE	DRO
01	09 JAN 17	REMOVED FAR LEFT DETAIL, SHOWING 5TH TABLE CONNECTION, ADDED LIGHT STRIP NOTE PER EC-23310	CLT

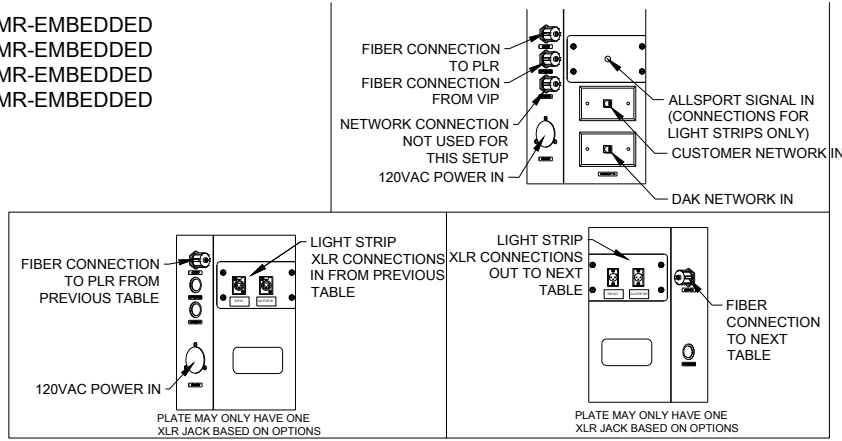
PROJECT: ST A3  
 TITLE: RISER; ST-23XY-64X1152 / 96X1728-6  
 DATE: 01 SEPT 16 DIM UNITS: INCHES (MILLIMETERS) SHEET REV  
 SCALE: NTS DO NOT SCALE DRAWING 03  
 DESIGN: CLT JOB NO. P1892 FUNC - TYPE - SIZE  
 DRAWN: CTIESZEN F - 03 - B 3451356

ST-2333-10MN-WM-MA-64X864-120BR-LT-MR-EMBEDDED  
 ST-2333-6MN-WM-MA-96X1296-120BR-LT-MR-EMBEDDED  
 ST-2334-10MN-WM-MA-64X864-120BR-LT-MR-EMBEDDED  
 ST-2334-6MN-WM-MA-96X1296-120BR-LT-MR-EMBEDDED

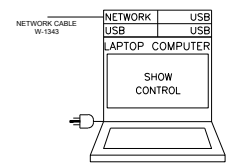
\*\*EACH TABLE REQUIRES A 20A DEDICATED CIRCUIT\*\*

DISPLAY POWER REQUIREMENTS				
		EACH TABLE		
PIXEL PITCH	DISPLAY SIZE	WATTS	AMPS	VOLTAGE
ST-2333-10MN-WM	64X288	864	7.2	120V
OUTLETS		1,200	10	120V
ST-2333-6MN-WM	96X432	864	7.2	120V
OUTLETS		1,200	10	120V
ST-2334-10MN-WM	64X288	848	7.9	120V
OUTLETS		1,200	10	120V
ST-2334-6MN-WM	96X432	848	7.9	120V
OUTLETS		1,200	10	120V

NOTE: POWER REQUIREMENTS SHOWN ARE FOR THE DISPLAY, PLUS 1,200 WATTS OF RECEPTACLE LOAD.

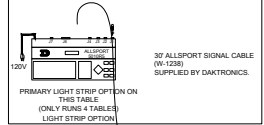


REAR VIEW

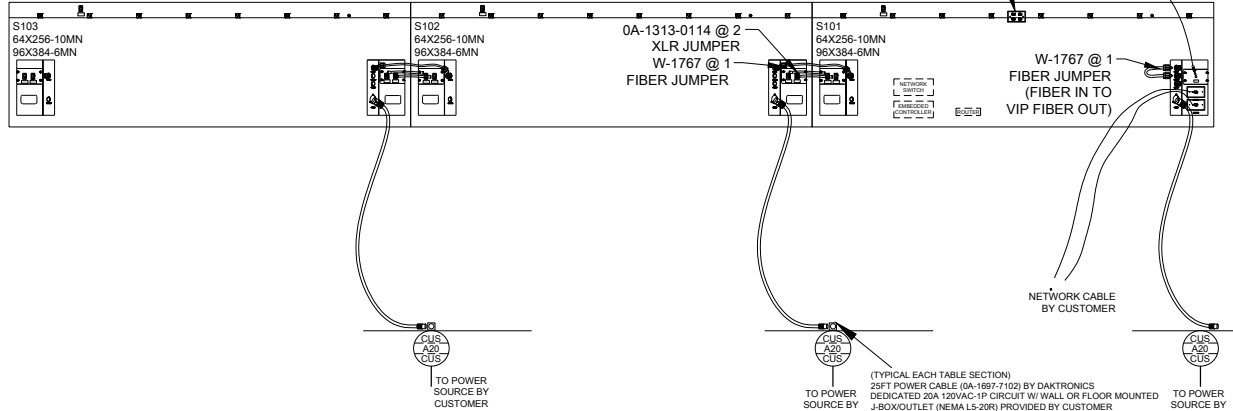


\* NOTE  
 LIGHT STRIPS DO NOT COME AS STANDARD  
 THEY ARE OPTIONAL EQUIPMENT

LIGHT STRIP SETUP ONLY



4 DAKTRONICS NETWORK PORTS  
 (SHOW CONTROL, ALLSPORT DAK STATS/STAT CREW, ETC...)  
 CONVENIENCE OUTLETS  
 (LOCATED INSIDE CABLE TRAY @9)



**POWER DISTRIBUTION SYSTEM LEGEND**

FEEDER TABLE - 2 CONDUCTORS+GND  
 (SEE SPECIFICATIONS FOR INSULATION TYPE)

OVER CURRENT PROTECTION AMPACITY	2 WIRES			
	FDR REF	COPPER WIRE AWG-KCMIL	COPPER GND WIRE AWG	MIN. CONDUIT SIZE
20	A20	(2)12	12	1/2"

**NOTES:**

A. CONDUIT SIZES ARE MINIMUM; INCREASE FOR LONG OR DIFFICULT RUNS.

B. ABOVE 86 F AMBIENT INCREASE WIRE SIZE PER NEC.

C. TYPE THIN COPPER CURRENT CARRYING CONDUCTORS IN SCH. 40 PVC CONDUIT, TERMINATING TO 75°C TERMINALS. CONDUIT AND CONDUCTOR SIZES MAY NEED TO BE INCREASED PER LOCAL AND NATIONAL ELECTRIC CODES IF OTHER CONDUCTOR OR CONDUIT TYPES ARE USED.

D. IF WIRE OR CONDUIT SIZES OTHER THAN THOSE SHOWN IN THESE CHARTS ARE TO BE USED, CONTACT A DAKTRONICS ELECTRICAL ENGINEERING REPRESENTATIVE.

NOTES:

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IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL ELECTRICAL WORK PERFORMED ON SITE MEETS OR EXCEEDS ALL LOCAL AND NATIONAL ELECTRICAL CODES.

ALL SIGNAL CABLE RUNS SHOULD BE LABELED WITH THEIR ORIGIN AND DESTINATION ON EACH END.

FIBER OPTIC CABLE RUNS MUST BE CONTINUOUS WITH A MINIMUM BEND RADIUS OF 15X O.D. OF THE FIBER CABLE.

IF A SHIELDED SIGNAL CABLE IS UTILIZED IN YOUR SYSTEM, ENSURE THAT THE CABLES SHIELD IS GROUNDED ON THE DISPLAY END ONLY, AND TO THE SHIELD TERMINAL AT THE SIGNAL CABLE SURGE ARRESTER CARD WHEN AVAILABLE.

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE NATIONAL ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

THE OVER CURRENT PROTECTION DEVICE MUST BE MATCHED TO THE FAULT CURRENT THAT IS AVAILABLE IN THE POWER DELIVERY CIRCUIT. TO DETERMINE THE AVAILABLE FAULT CURRENT OF A SITE, AN ONSITE FAULT CURRENT SURVEY MAY NEED TO BE PERFORMED BY QUALIFIED PERSONNEL. IF THE AVAILABLE FAULT CURRENT IN THE ELECTRICAL SYSTEM EXCEEDS 10,000 AMPS, A DAKTRONICS REPRESENTATIVE SHOULD BE CONTACTED.

DUE TO THE INRUSH CURRENT (MOMENTARY SURGE) CREATED BY THE DISPLAY EQUIPMENT ON STARTUP, THE OVER CURRENT PROTECTION DEVICE(S) MAY HAVE TO BE OVERSIZED.

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THE CONTRACTUAL AGREEMENT WILL DETERMINE THE PARTY OR PARTIES RESPONSIBLE FOR ITEMS LISTED AS FIELD INSTALLED. THIS DRAWING IS NOT INTENDED TO DETERMINE RESPONSIBILITIES AND SHOULD BE USED FOR REFERENCES ONLY.

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EXTERNALLY MOUNTED HARDWARE  
 INTERNALLY MOUNTED HARDWARE

REV 03	DATE: 03 MAY 18	PER CN-55363, UPDATED ST-2334 POWER REQUIREMENTS	BY: DRO
REV 02	DATE: 15 MAR 18	PER CN-51429, ADDED ST-2334 TABLES TO TOP-LEFT AND TO POWER REQUIREMENTS TABLE	BY: DRO
REV 01	DATE: 09 JAN 17	REMOVED FAR LEFT DETAIL, SHOWING 5TH TABLE CONNECTION, ADDED LIGHT STRIP NOTE PER EC-23310	BY: CLT

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THIRD ANGLE PROJECTION

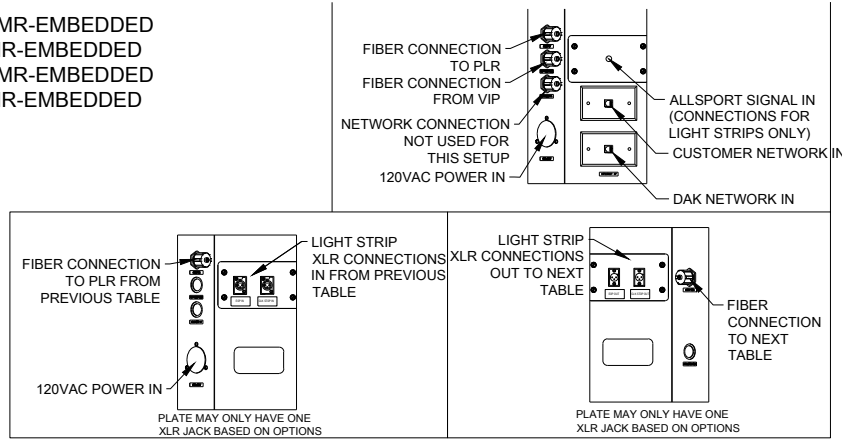
PROJECT: ST A3  
 TITLE: RISER; ST-23XY-64X864 / 96X1296-6  
 DATE: 15 SEP 16 DIM UNITS: INCHES [MILLIMETERS] SHEET REV  
 SCALE: NTS DO NOT SCALE DRAWING 03  
 DESIGN: CLT JOB NO. P1892 FUNC. TYPE - SIZE  
 DRAWN: CTIESZEN F - 03 - B 3460217

ST-2333-10MN-WM-MA-64X576-120BR-LT-MR-EMBEDDED  
 ST-2333-6MN-WM-MA-96X864-120BR-LT-MR-EMBEDDED  
 ST-2334-10MN-WM-MA-64X576-120BR-LT-MR-EMBEDDED  
 ST-2334-6MN-WM-MA-96X864-120BR-LT-MR-EMBEDDED

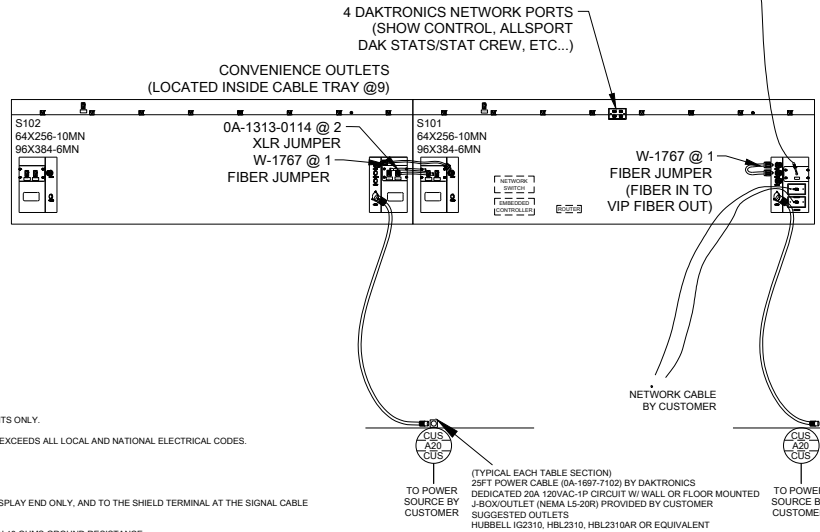
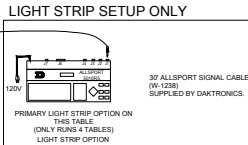
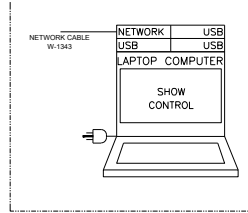
\*\*EACH TABLE REQUIRES A 20A DEDICATED CIRCUIT\*\*

DISPLAY POWER REQUIREMENTS				
		EACH TABLE		
PIXEL PITCH	DISPLAY SIZE	WATTS	AMP'S	VOLTAGE
ST-2333-10MN-WM	64X288	864	7.2	120V
OUTLETS		1,200	10	120V
ST-2333-6MN-WM	96X432	864	7.2	120V
OUTLETS		1,200	10	120V
ST-2334-10MN-WM	64X288	948	7.9	120V
OUTLETS		1,200	10	120V
ST-2334-6MN-WM	96X432	948	7.9	120V
OUTLETS		1,200	10	120V

NOTE: POWER REQUIREMENTS SHOWN ARE FOR THE DISPLAY, PLUS 1,200 WATTS OF RECEPTACLE LOAD.



\* NOTE  
 LIGHT STRIPS DO NOT COME AS STANDARD  
 THEY ARE OPTIONAL EQUIPMENT



**POWER DISTRIBUTION SYSTEM LEGEND**

FEEDER TABLE - 2 CONDUCTORS+GND (SEE SPECIFICATIONS FOR INSULATION TYPE)

OVER CURRENT PROTECTION AMPACITY	2 WIRES			
	FDR REF	COPPER WIRE AWG-KCML	COPPER GND WIRE AWG	MIN. CONDUIT SIZE
20	A20	(2)12	12	1/2"

- NOTES:**
- A. CONDUIT SIZES ARE MINIMUM; INCREASE FOR LONG OR DIFFICULT RUNS.
  - B. ABOVE 86 F AMBIENT INCREASE WIRE SIZE PER NEC.
  - C. TYPE THHN COPPER CURRENT CARRYING CONDUCTORS IN SCH. 40 PVC CONDUIT, TERMINATING TO 75°C TERMINALS; CONDUIT AND CONDUCTOR SIZES MAY NEED TO BE INCREASED PER LOCAL AND NATIONAL ELECTRIC CODES IF OTHER CONDUCTOR OR CONDUIT TYPES ARE USED.
  - D. IF WIRE OR CONDUIT SIZES OTHER THAN THOSE SHOWN IN THESE CHARTS ARE TO BE USED, CONTACT A DAKTRONICS ELECTRICAL ENGINEERING REPRESENTATIVE.

NOTES:

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ALL SIGNAL CABLE RUNS SHOULD BE LABELED WITH THEIR ORIGIN AND DESTINATION ON EACH END.

FIBER OPTIC CABLE RUNS MUST BE CONTINUOUS WITH A MINIMUM BEND RADIUS OF 15X D. OF THE FIBER CABLE.

IF A SHIELDED SIGNAL CABLE IS UTILIZED IN YOUR SYSTEM, ENSURE THAT THE CABLES SHIELD IS GROUNDED ON THE DISPLAY END ONLY, AND TO THE SHIELD TERMINAL AT THE SIGNAL CABLE SURGE ARRESTER CARD WHEN AVAILABLE.

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE NATIONAL ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

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DUE TO THE INRUSH CURRENT (MOMENTARY SURGE) CREATED BY THE DISPLAY EQUIPMENT ON STARTUP, THE OVER CURRENT PROTECTION DEVICE(S) MAY HAVE TO BE OVERSIZED.

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POWER AND SIGNAL REQUIREMENTS ARE SPECIFIED TO THE EQUIPMENT AND SETUP. ANY CHANGES MADE TO EQUIPMENT OR THEIR SETUP SHOULD BE DISCUSSED WITH DAKTRONICS DESIGN PERSONNEL AND WILL REQUIRE AN UPDATED RISER DIAGRAM DRAWING.

THE CONTRACTUAL AGREEMENT WILL DETERMINE THE PARTY OR PARTIES RESPONSIBLE FOR ITEMS LISTED AS FIELD INSTALLED. THIS DRAWING IS NOT INTENDED TO DETERMINE RESPONSIBILITIES AND SHOULD BE USED FOR REFERENCES ONLY.

ACTUAL PLACEMENT OF ELECTRICAL COMPONENTS, SUCH AS PANEL BOARDS, A/C'S, AND SPLICE PANELS, MAY VARY. PLEASE REFERENCE THE SYSTEM SHOP DRAWING FOR THIS DETAIL. THIS DRAWING REPRESENTS A GENERAL MOUNTING LOCATION ONLY.

EXTERNALLY MOUNTED HARDWARE  
 INTERNALLY MOUNTED HARDWARE

REV	DATE	DESCRIPTION	BY	CHK
03	03 MAY 18	PER CN-55363, UPDATED ST-2334 POWER REQUIREMENTS	DRO	
02	15 MAR 18	PER CN-51429, ADDED ST-2334 TABLES TO TOP-LEFT AND TO POWER REQUIREMENTS TABLE	DRO	
01	09 JAN 17	ADDED LIGHT STRIP NOTE PER EC-23310	CLT	

THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)

THIRD ANGLE PROJECTION

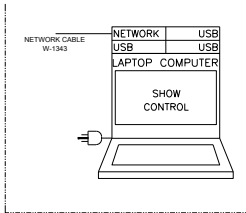
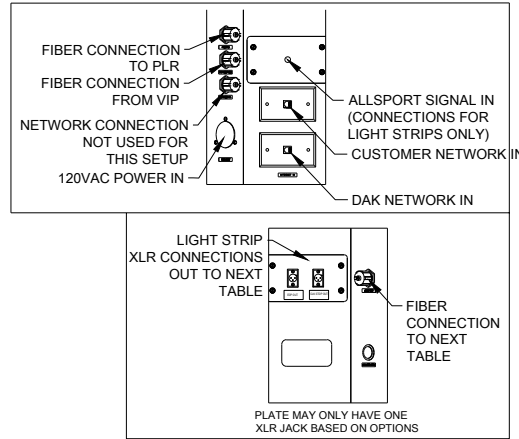
PROJECT: ST A3  
 TITLE: RISER; ST-23XY-64X576 / 96X864-6  
 DATE: 15 SEP 16 DIM UNITS: INCHES (MILLIMETERS) SHEET REV  
 SCALE: NTS DO NOT SCALE DRAWING 03  
 DESIGN: CLT  
 DRAWN: CTIESZEN P1892 F - 03 - B 3460218

ST-2333-10MN-WM-MA-64X288-120BR-LT-MR-EMBEDDED  
 ST-2333-6MN-WM-MA-96X432-120BR-LT-MR-EMBEDDED  
 ST-2334-10MN-WM-MA-64X288-120BR-LT-MR-EMBEDDED  
 ST-2334-6MN-WM-MA-96X432-120BR-LT-MR-EMBEDDED

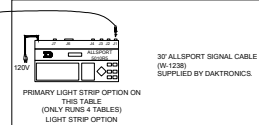
\*\*EACH TABLE REQUIRES A 20A DEDICATED CIRCUIT\*\*

DISPLAY POWER REQUIREMENTS				
PIXEL PITCH	DISPLAY SIZE	EACH TABLE		VOLTAGE
		WATTS	AMPS	
ST-2333-10MN-WM	64X288	864	7.2	120V
OUTLETS		1,200	10	120V
ST-2333-6MN-WM	96X432	864	7.2	120V
OUTLETS		1,200	10	120V
ST-2334-10MN-WM	64X288	948	7.9	120V
OUTLETS		1,200	10	120V
ST-2334-6MN-WM	96X432	948	7.9	120V
OUTLETS		1,200	10	120V

NOTE: POWER REQUIREMENTS SHOWN ARE FOR THE DISPLAY, PLUS 1,200 WATTS OF RECEPTACLE LOAD.



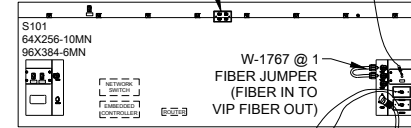
LIGHT STRIP SETUP ONLY



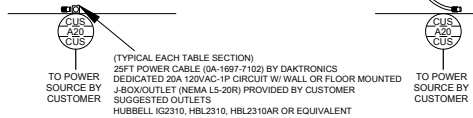
REAR VIEW

4 DAKTRONICS NETWORK PORTS (SHOW CONTROL, ALLSPORT DAK STATS/STAT CREW, ETC...)

CONVENIENCE OUTLETS (LOCATED INSIDE CABLE TRAY @9)



\* NOTE LIGHT STRIPS DO NOT COME AS STANDARD THEY ARE OPTIONAL EQUIPMENT



POWER DISTRIBUTION SYSTEM LEGEND

FEEDER TABLE - 2 CONDUCTORS+GND (SEE SPECIFICATIONS FOR INSULATION TYPE)				
OVER CURRENT PROTECTION AMPACITY	2 WIRES			
	FDR REF	COPPER WIRE AWG-KCMIL	COPPER GND WIRE AWG	MIN. CONDUIT SIZE
20	A20	(2)12	12	1/2"

NOTES:  
 THE FOLLOWING 200 SERIES ARE NOT SCALED DRAWINGS AND SHOULD BE USED FOR POWER AND SIGNAL REQUIREMENTS ONLY.  
 IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL ELECTRICAL WORK PERFORMED ON SITE MEETS OR EXCEEDS ALL LOCAL AND NATIONAL ELECTRICAL CODES.  
 ALL SIGNAL CABLE RUNS SHOULD BE LABELED WITH THEIR ORIGIN AND DESTINATION ON EACH END.  
 FIBER OPTIC CABLE RUNS MUST BE CONTINUOUS WITH A MINIMUM BEND RADIUS OF 15XO.D. OF THE FIBER CABLE.  
 IF A SHIELDED SIGNAL CABLE IS UTILIZED IN YOUR SYSTEM, ENSURE THAT THE CABLES SHIELD IS GROUNDED ON THE DISPLAY END ONLY, AND TO THE SHIELD TERMINAL AT THE SIGNAL CABLE SURGE ARRESTER CARD WHEN AVAILABLE.  
 ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE NATIONAL ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.  
 THE OVER CURRENT PROTECTION DEVICE MUST BE MATCHED TO THE FAULT CURRENT THAT IS AVAILABLE IN THE POWER DELIVERY CIRCUIT. TO DETERMINE THE AVAILABLE FAULT CURRENT OF A SITE, AN ONSITE FAULT CURRENT SURVEY MAY NEED TO BE PERFORMED BY QUALIFIED PERSONNEL. IF THE AVAILABLE FAULT CURRENT IN THE ELECTRICAL SYSTEM EXCEEDS 10,000 AMPS, A DAKTRONICS REPRESENTATIVE SHOULD BE CONTACTED.  
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 INTERNALLY MOUNTED HARDWARE

REV	DATE	DESCRIPTION	BY
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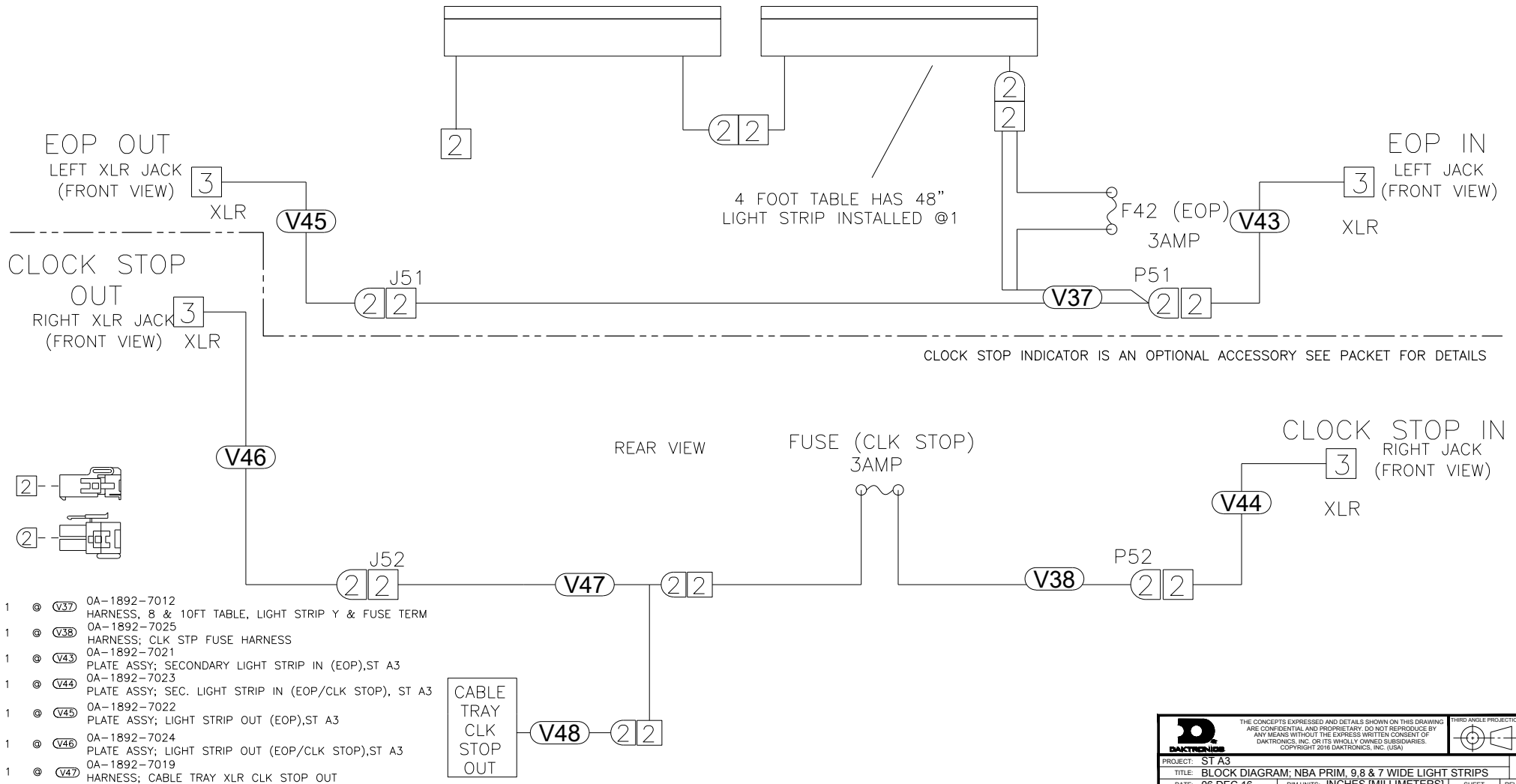
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THIRD ANGLE PROJECTION

PROJECT: ST A3	TITLE: RISER; ST-23XY-64X288 / 96X432-6
DATE: 15 SEP 16	DIM UNITS: INCHES (MILLIMETERS)
SCALE: NTS	DO NOT SCALE DRAWING
DESIGN: CLT	JOB NO. P1892
DRAWN: CTIESZEN	FUNC - TYPE - SIZE F - 03 - B

SHEET 03 REV 3460219

9-WIDE TABLE LENGTHS 56" FRONT LIGHT STRIP  
 56" FRONT LIGHT STRIP  
 8-WIDE TABLE LENGTHS 49.5" FRONT LIGHT STRIP  
 49.5" FRONT LIGHT STRIP  
 7-WIDE TABLE LENGTH --- SEE PACKET # IN BOM --- 87" FRONT LIGHT STRIP @ 1  
 SEE PACKET # IN BOM

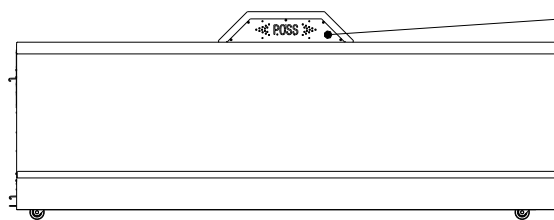


- 1 @ (V37) 0A-1892-7012 HARNESS, 8 & 10FT TABLE, LIGHT STRIP Y & FUSE TERM
- 1 @ (V38) 0A-1892-7025 HARNESS; CLK STP FUSE HARNESS
- 1 @ (V43) 0A-1892-7021 PLATE ASSY; SECONDARY LIGHT STRIP IN (EOP),ST A3
- 1 @ (V44) 0A-1892-7023 PLATE ASSY; SEC. LIGHT STRIP IN (EOP/CLK STOP), ST A3
- 1 @ (V45) 0A-1892-7022 PLATE ASSY; LIGHT STRIP OUT (EOP),ST A3
- 1 @ (V46) 0A-1892-7024 PLATE ASSY; LIGHT STRIP OUT (EOP/CLK STOP),ST A3
- 1 @ (V47) 0A-1892-7019 HARNESS; CABLE TRAY XLR CLK STOP OUT
- 1 @ (V48) 0A-1697-7113 HARN; LIGHT STRIP OUTPUT, XLR TO 2P M MINI

CABLE TRAY  
 CLK STOP  
 OUT

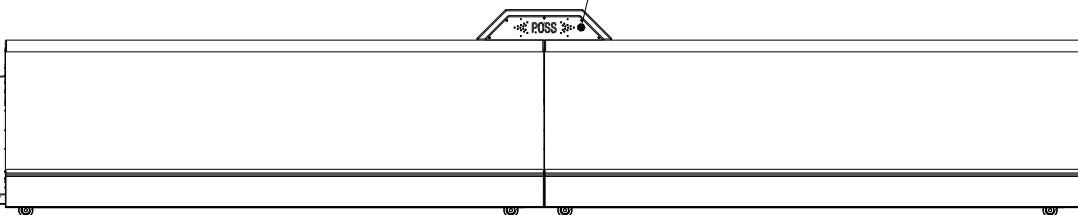
		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)		
PROJECT: ST A3				
TITLE: BLOCK DIAGRAM; NBA PRIM, 9,8 & 7 WIDE LIGHT STRIPS				
DATE: 06 DEC 16	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV	
SCALE: NTS	DO NOT SCALE DRAWING			
DESIGN: CLT	JOB NO. P1892	FUNC - TYPE - SIZE R - 01 - B		3523509
DRAWN: CTIESZEN				



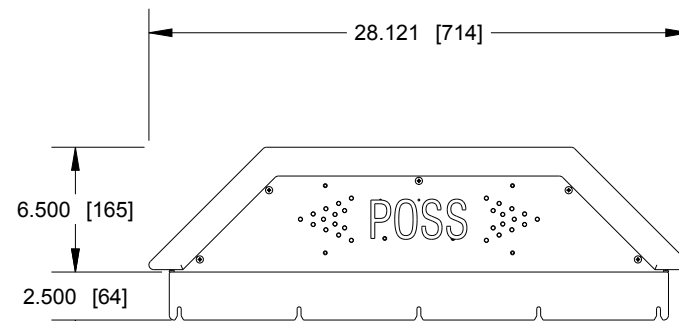


**FRONT VIEW**

POSSESSION INDICATOR LOCATION CAN BE ADJUSTED EVERY 6.24" ALONG THE TOP PAD TO KEEP IT CENTERED WITH ONE OR MULTIPLE DISPLAYS

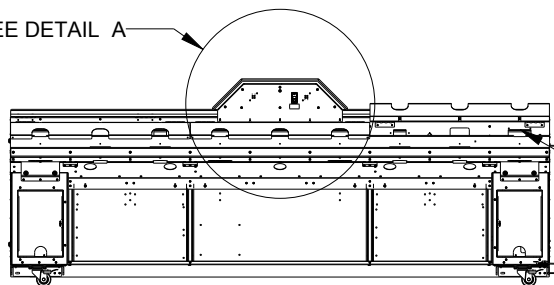


**FRONT VIEW**



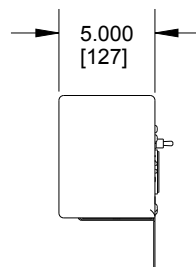
**FRONT VIEW**  
SCALE 1/10

SEE DETAIL A

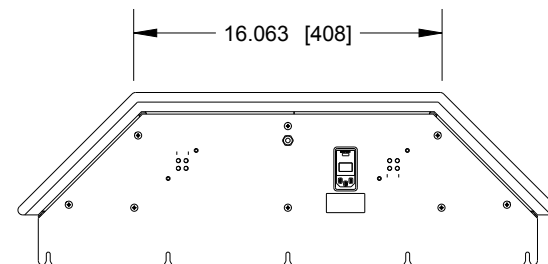


**REAR VIEW**

DEDICATED POSSESSION INDICATOR OUTLET\*

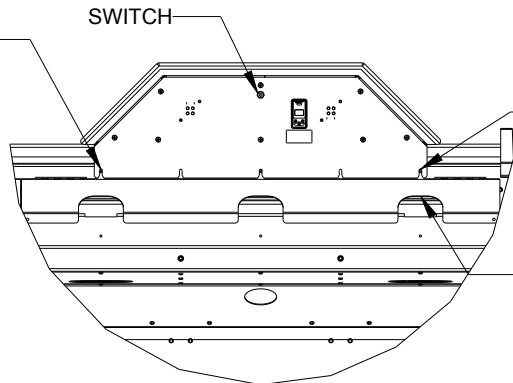


**SIDE VIEW**  
POWER CORD NOT SHOWN  
SCALE 1/10



**REAR VIEW**  
POWER CORD NOT SHOWN  
SCALE 1/10

TO ACCESS MODULES, LOOSEN SCREWS AND LIFT OFF POSSESSION INDICATOR SO TOP PAD CAN BE HINGED UP



**DETAIL A**  
SCALE 1/15

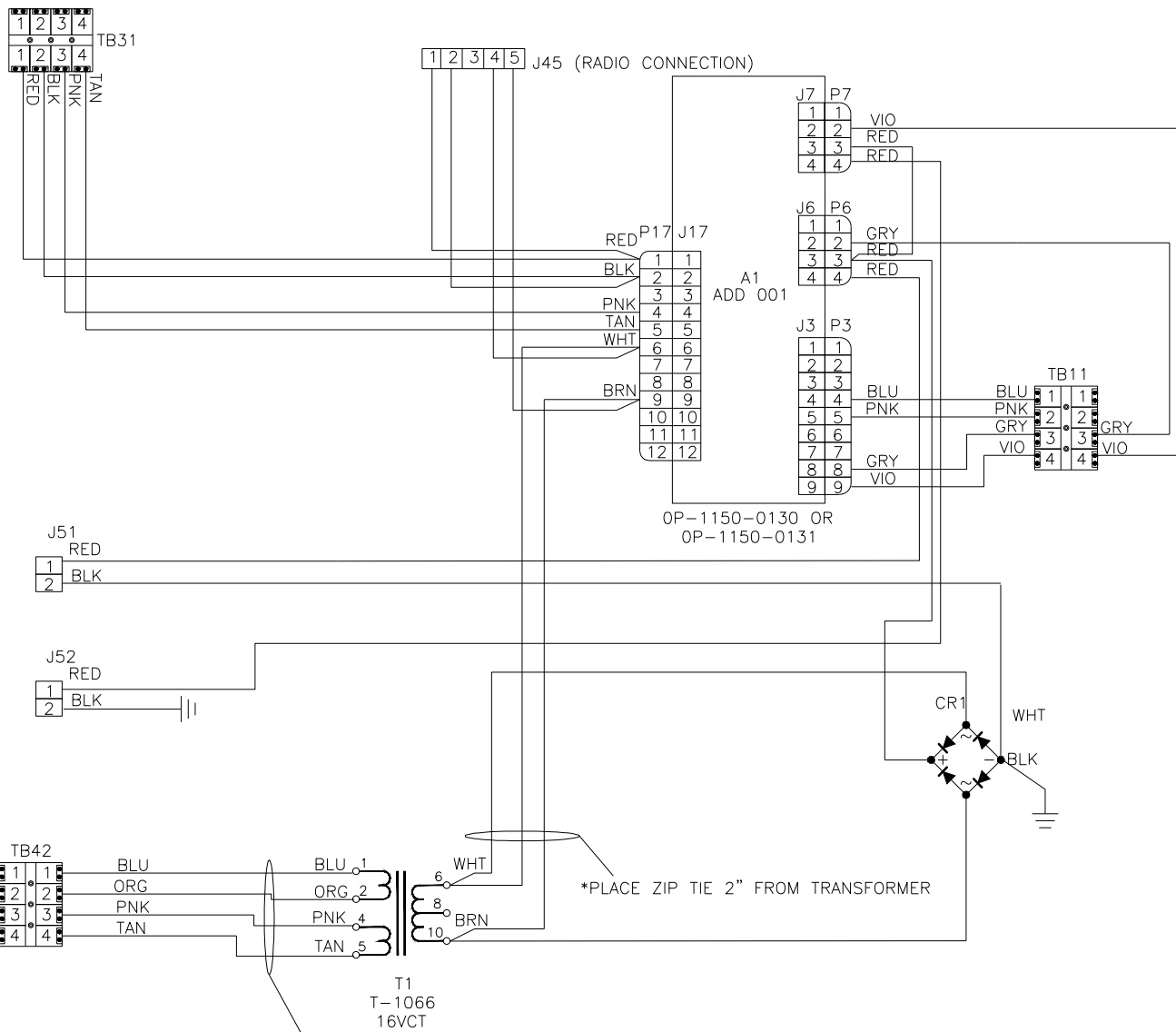
SECURE POSSESSION INDICATOR WITH #10-24 MACHINE SCREWS

\*DEDICATED POSSESSION INDICATOR OUTLET WILL ALWAYS BE THE OUTLET FURTHEST TO THE RIGHT (WHEN VIEWED FROM THE REAR) PER EACH TABLE

REV	DATE:		BY:	
		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2017 DAKTRONICS, INC. (USA)		
PROJECT: SCORER'S TABLES				
TITLE: POSS IND ATTACHMENT, MANUAL DWG; ST A3				
DATE: 25-JAN-17	DIM UNITS: INCHES [MILLIMETERS]		SHEET	REV
SCALE: 1/40	DO NOT SCALE DRAWING		1 OF 1	00
DESIGN: BNYBO	JOB NO.	FUNC - TYPE - SIZE	3547653	
DRAWN: BNYBO	P1892	F - 10 - A		

ONLY JUMPER  
INSTALLED IN 240V  
ASSEMBLIES.  
PACKET WILL SAY  
240V IN TITLE

\*NOTE  
IN 240V ASSEMBLY PACKET, JUMPERS ON TB42 FROM  
1-3 & 2-4 WILL NOT BE INSTALLED. A BLACK  
JUMPER FROM 2-3 WILL BE THE ONLY JUMPER  
INSTALLED



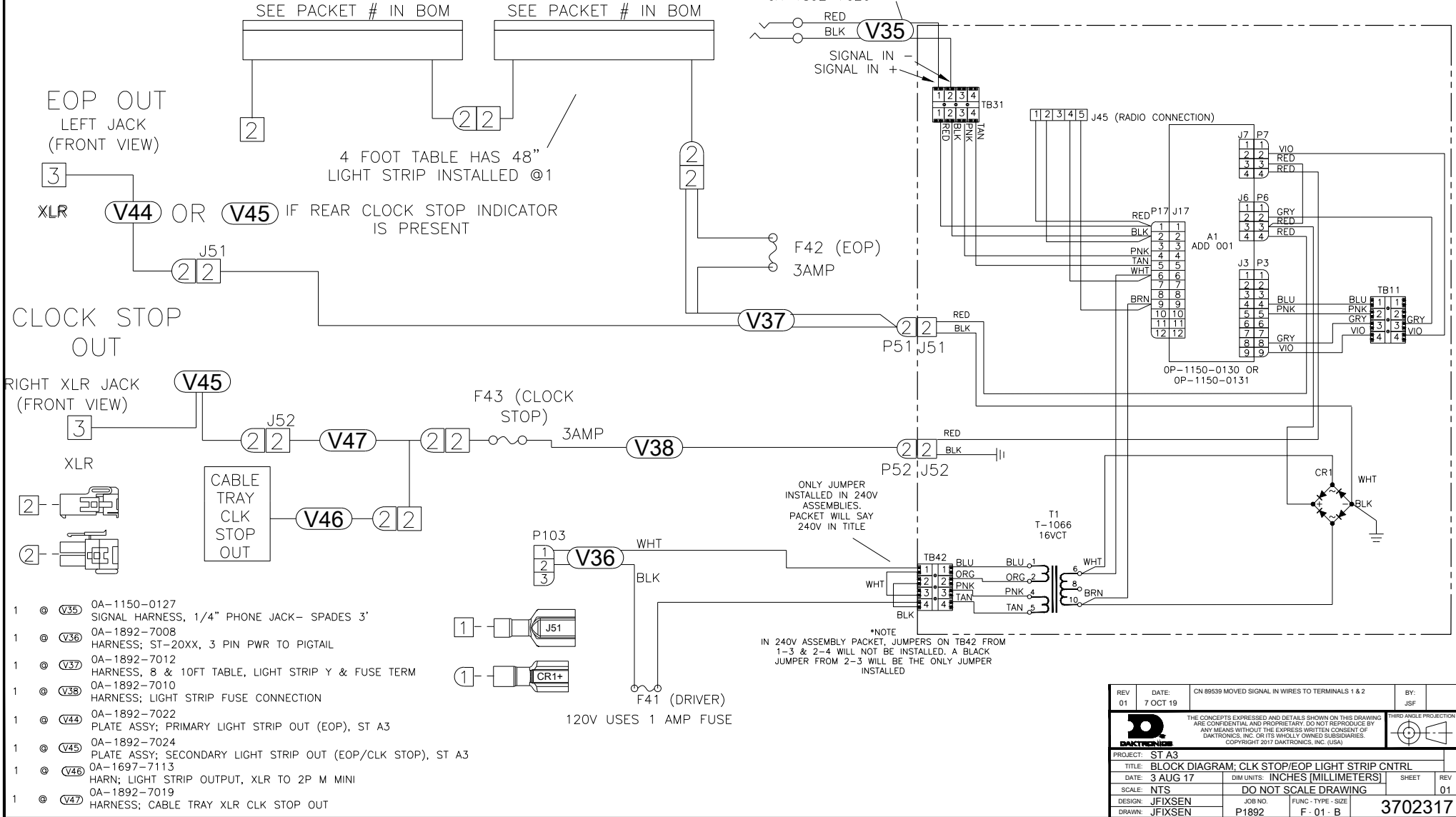
\*PLACE ZIP TIE 2" FROM TRANSFORMER

\*PLACE ZIP TIE 2" FROM TRANSFORMER

		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2017 DAKTRONICS, INC. (USA)		THIRD ANGLE PROJECTION 	
		PROJECT: <b>ST A3</b>			
TITLE: <b>SCHEMATIC; 4COL DRVR-16V CLK STOP/EOP CONTROL</b>					
DATE: <b>3 AUG 17</b>		DIM UNITS: <b>INCHES [MILLIMETERS]</b>		SHEET <b>REV</b> <b>00</b>	
SCALE: <b>NTS</b>		<b>DO NOT SCALE DRAWING</b>			
DESIGN: <b>JFIXSEN</b>		JOB NO. <b>P1892</b>		FUNC - TYPE - SIZE <b>R - 03 - A</b>	
DRAWN: <b>JFIXSEN</b>		<b>3702158</b>			

9-WIDE TABLE LENGTHS 56" FRONT LIGHT STRIP  
 8-WIDE TABLE LENGTHS 49.5" FRONT LIGHT STRIP  
 7-WIDE TABLE LENGTH ----- 87" FRONT LIGHT STRIP @ 1

LIGHT STRIP SETUP WITH DRIVER  
 TO TEST: USE A/S 5010 CODE 1103

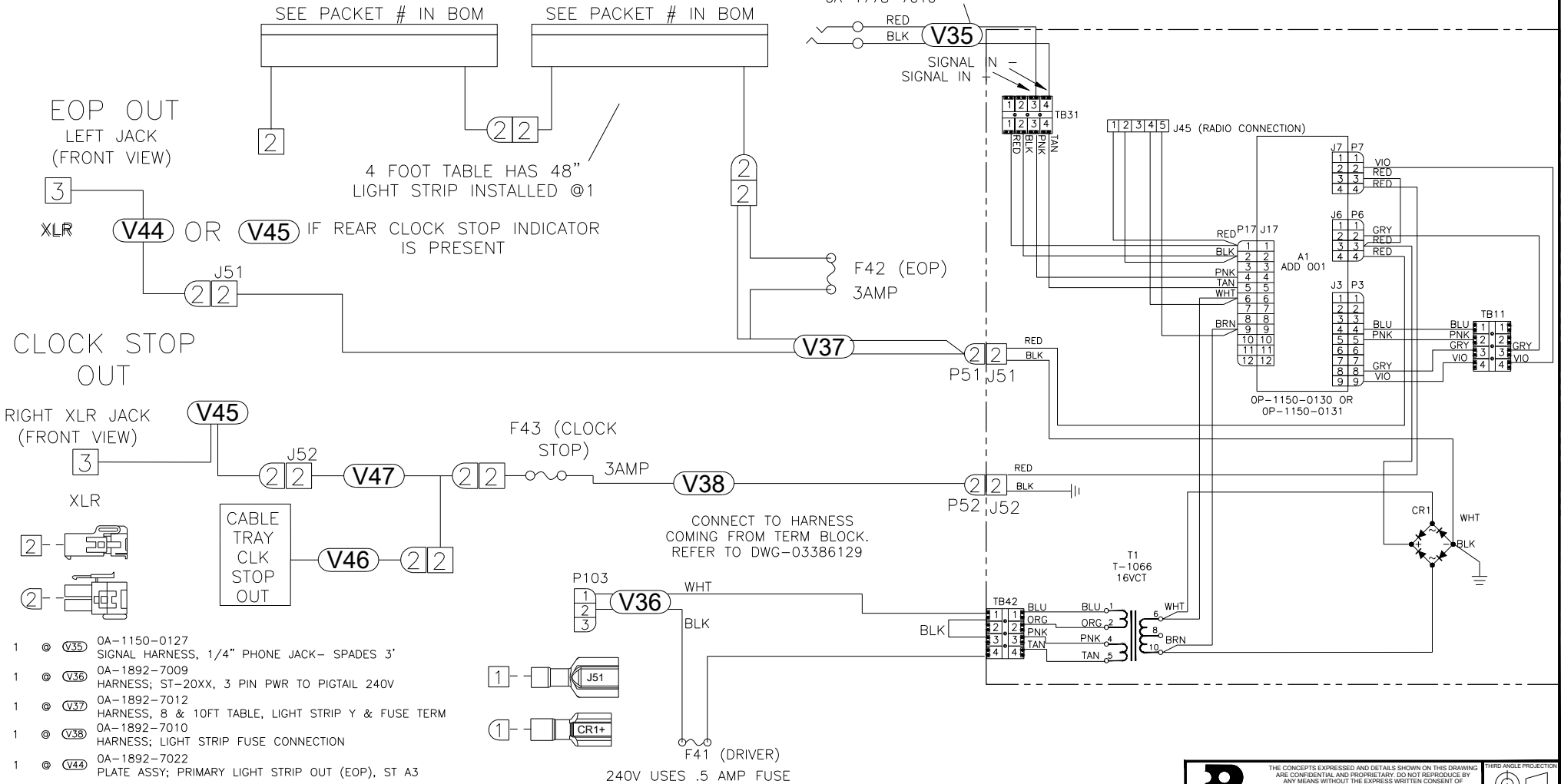


- 1 @ (V35) 0A-1150-0127 SIGNAL HARNESS, 1/4" PHONE JACK- SPADES 3'
- 1 @ (V36) 0A-1892-7008 HARNESS; ST-20XX, 3 PIN PWR TO PIGTAIL
- 1 @ (V37) 0A-1892-7012 HARNESS, 8 & 10FT TABLE, LIGHT STRIP Y & FUSE TERM
- 1 @ (V38) 0A-1892-7010 HARNESS; LIGHT STRIP FUSE CONNECTION
- 1 @ (V44) 0A-1892-7022 PLATE ASSY; PRIMARY LIGHT STRIP OUT (EOP), ST A3
- 1 @ (V45) 0A-1892-7024 PLATE ASSY; SECONDARY LIGHT STRIP OUT (EOP/CLK STOP), ST A3
- 1 @ (V46) 0A-1697-7113 HARN; LIGHT STRIP OUTPUT, XLR TO 2P M MINI
- 1 @ (V47) 0A-1892-7019 HARNESS; CABLE TRAY XLR CLK STOP OUT

REV 01	DATE 7 OCT 19	CN 89539 MOVED SIGNAL IN WIRES TO TERMINALS 1 & 2	BY JSF
<p>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2017 DAKTRONICS, INC. USA</p>			
PROJECT: ST A3			
TITLE: BLOCK DIAGRAM; CLK STOP/EOP LIGHT STRIP CNTRL			
DATE: 3 AUG 17	DMU UNITS: INCHES [MILLIMETERS]	SHEET	REV 01
SCALE: NTS	DO NOT SCALE DRAWING		
DESIGN: JFIXSEN	JOB NO. P1892	FUNC-TYPE-SIZE F-01-B	3702317
DRAWN: JFIXSEN			

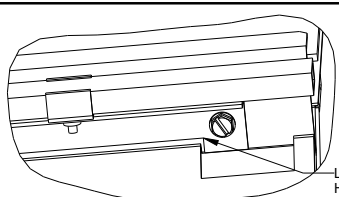
9-WIDE TABLE LENGTHS 56" FRONT LIGHT STRIP  
 8-WIDE TABLE LENGTHS 49.5" FRONT LIGHT STRIP  
 7-WIDE TABLE LENGTH ----- 87" FRONT LIGHT STRIP @ 1

LIGHT STRIP SETUP WITH DRIVER  
 TO TEST: USE A/S 5010 CODE 1103



- 1 @ V35 0A-1150-0127 SIGNAL HARNESS, 1/4" PHONE JACK- SPADES 3'
- 1 @ V36 0A-1892-7009 HARNESS; ST-20XX, 3 PIN PWR TO PIGTAIL 240V
- 1 @ V37 0A-1892-7012 HARNESS, 8 & 10FT TABLE, LIGHT STRIP Y & FUSE TERM
- 1 @ V38 0A-1892-7010 HARNESS; LIGHT STRIP FUSE CONNECTION
- 1 @ V44 0A-1892-7022 PLATE ASSY; PRIMARY LIGHT STRIP OUT (EOP), ST A3
- 1 @ V45 0A-1892-7024 PLATE ASSY; SECONDARY LIGHT STRIP OUT (EOP/CLK STOP), ST A3
- 1 @ V46 0A-1697-7113 HARN; LIGHT STRIP OUTPUT, XLR TO 2P M MINI
- 1 @ V47 0A-1892-7019 HARNESS; CABLE TRAY XLR CLK STOP OUT

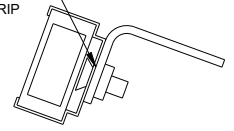
		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2017 DAKTRONICS, INC. (USA)</small>		
PROJECT: ST A3				
TITLE: BLOCK DGRM; CLK STOP/EOP LIGHT STRIP CNTRL INTL				
DATE: 3 AUG 17	DIM UNITS: INCHES (MILLIMETERS)		SHEET	REV
SCALE: NTS	DO NOT SCALE DRAWING			
DESIGN: JFIXSEN	JOB NO. P1892	FUNC-TYPE-SIZE F-03-B	3702322	
DRAWN: JFIXSEN				



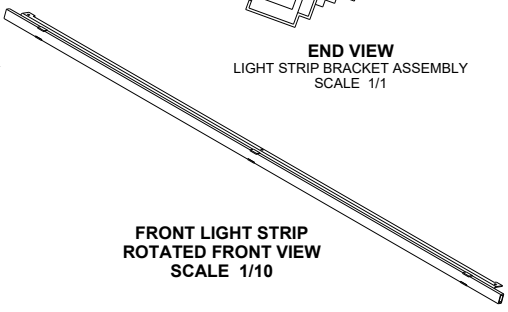
**DETAIL A**  
BOTTOM ROTATED VIEW  
BOTTOM PAD AND BRACKET REMOVED  
SCALE 1/2

LIGHT STRIP BRACKET  
HORIZONTAL PLACEMENT BY  
TABS HOOKING INTO OPENING  
PUSH BRACKET BACK ALL THE WAY  
SCREW INTO PLACE

- ATTACH CLIPS WITH HC-1457 SCREWS  
AND HC-1355 NUTS TO BRACKET  
- ATTACH LIGHT STRIP



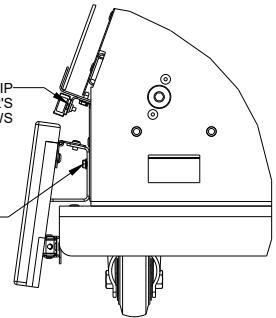
**END VIEW**  
LIGHT STRIP BRACKET ASSEMBLY  
SCALE 1/1



**FRONT LIGHT STRIP  
ROTATED FRONT VIEW**  
SCALE 1/10

- ATTACH BRACKET LIGHT STRIP  
ASSEMBLY TO SCORER'S  
TABLE WITH HC-1186 SCREWS

- REMOVE PAD TO INSTALL  
LIGHT STRIP ASSEMBLY  
- REATTACH PAD TO TOP  
OBROUND ON MOUNTING  
BRACKET. USE BOTTOM  
OBROUND IF NO LIGHT STRIP.



**FRONT LIGHT STRIP  
SIDE VIEW**  
SCALE 1/5

NOTES:  
- NO PAINT REQUIRED FOR METAL PART  
- CHECK BOM FOR METAL PART AND LIGHT STRIP PART NUMBERS  
8 AND 9 MOD WIDE ASSEMBLIES HAVE 2 LIGHT STRIPS PER TABLE  
- ATTACH CLIPS TO METAL PART USING SCREWS  
- ATTACH LIGHT STRIP INTO CLIPS

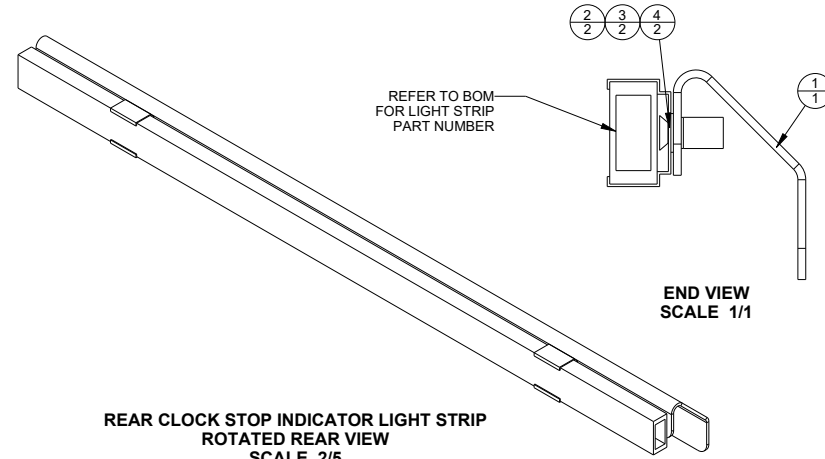
IF ATTACHED IN MANUFACTURING (TYPICAL)  
- ATTACH LIGHT STRIP TO TABLE USING HC-1186 SCREWS

IF ATTACHED IN THE FIELD  
- PACKAGE LIGHT STRIP BRACKET ASSEMBLIES WITH HARDWARE  
\* HC-1186 @ 7 AND HC-1530 @ 7 PER ASSEMBLY

NOTES:  
PRE-PAINT  
- INSERT NUT INSERTS @ 2  
PAINT  
- PAINT PART ALL AROUND  
FINAL ASSEMBLY  
- ATTACH CLIPS TO PART WITH SCREWS  
- ATTACH LIGHT STRIP INTO CLIPS  
- PACKAGE WITH HC-1073 @ 3 AND HC-1554 @ 3 SCREWS

**P1892\_LS\_MTG\_4625313**

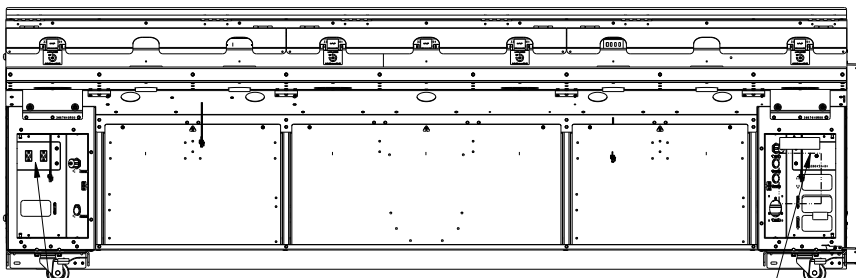
INDEX	NAME	QTY	DESCRIPTION
1	0M-4623962	1	INDICATOR LIGHT MOUNT, 18" REAR: ST A3
2	HC-1457	2	MACH SCR,#6-32 X 0.375,PHIL FLAT HEAD,UNDERCUT
3	HS-1219	2	NUT INSERT, #6-32 THREADED FOR 17/64"HOLE
4	HS-3763489	2	CHROMAPATH SLIM BLACK U-CLIP PAIR



**REAR CLOCK STOP INDICATOR LIGHT STRIP  
ROTATED REAR VIEW**  
SCALE 2/5

REFER TO BOM  
FOR LIGHT STRIP  
PART NUMBER

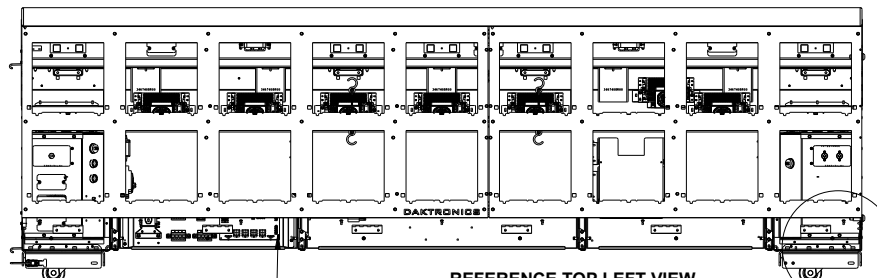
**END VIEW**  
SCALE 1/1



SECONDARY LIGHT STRIP OUT  
(EOP/ CLK STOP)  
0A-1892-7024 @ 1

PRIMARY LIGHT STRIP IN  
0A-1892-7020 @ 1  
OR  
SECONDARY LIGHT STRIP IN  
(EOP/CLK STOP)  
0A-1892-7023 @ 1

**REAR VIEW**

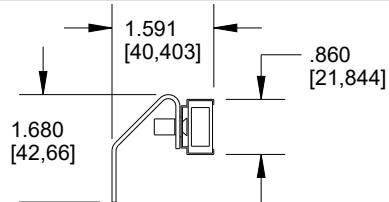


CLK STOP/EOP DRIVER 0A-1892-7201  
(0A-1892-8201 INTL)  
IN PRIMARY DISPLAY ONLY  
ATTACH TO DOOR USING  
HC-1238 @ 4 (10 IN-LBS)

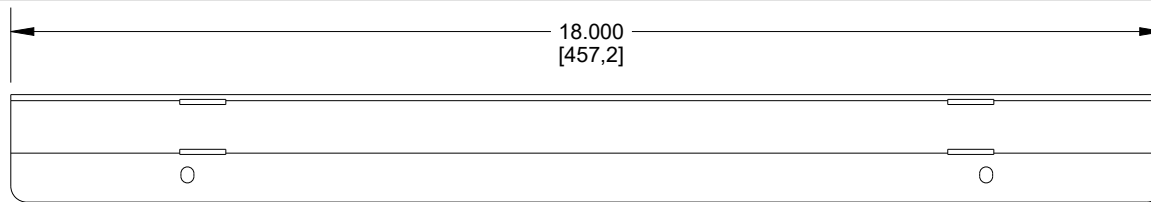
REFERENCE TOP LEFT VIEW  
FOR LIGHT STRIP PLACEMENT

**FRONT VIEW**

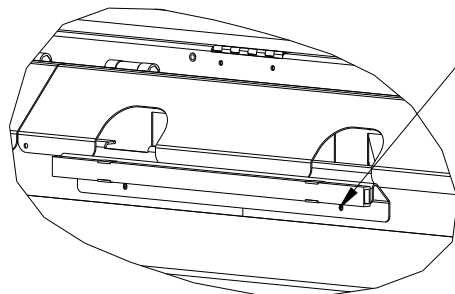
01	16 NOV 22	CN150860 CHANGED LIGHT STRIP PART NUMBER TO REFER TO BOM	JSF
REV:	DATE:	DESCRIPTION:	BY:
<p>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2020 DAKTRONICS, INC. (USA)</p>			THIRD ANGLE PROJECTION
PROJECT: ST A3			
TITLE: ST A3 LIGHT STRIP ASSEMBLY			
DATE: 16-NOV-22	DIM UNITS: INCHES (MILLIMETERS)	SHEET	REV
SCALE: 1/5	DO NOT SCALE DRAWING	1 OF 1	01
DESIGN: DOPPELT	JOB NO. P1892	FUNC - TYPE - SIZE	4625313
DRAWN: KDMILLER	E - 10 - B		



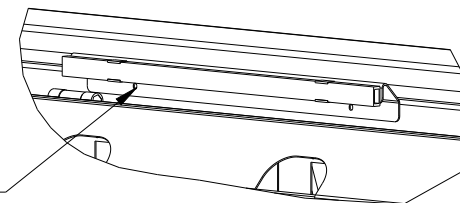
**REAR CLOCK STOP  
SIDE VIEW  
SCALE 1/3**



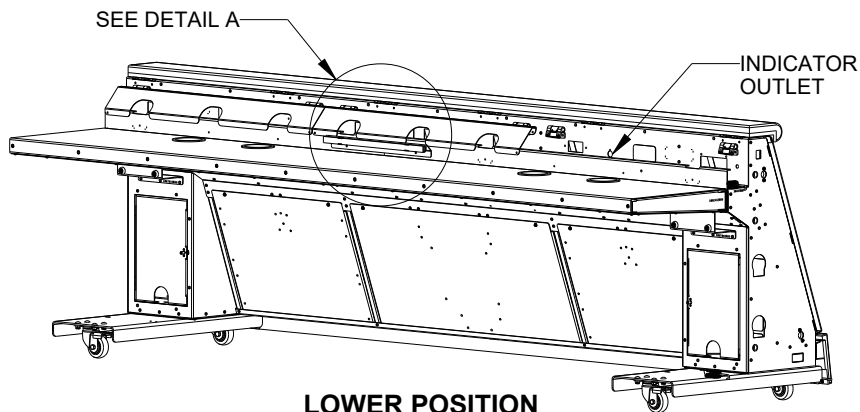
**REAR CLOCK STOP  
REAR VIEW  
SCALE 1/5**



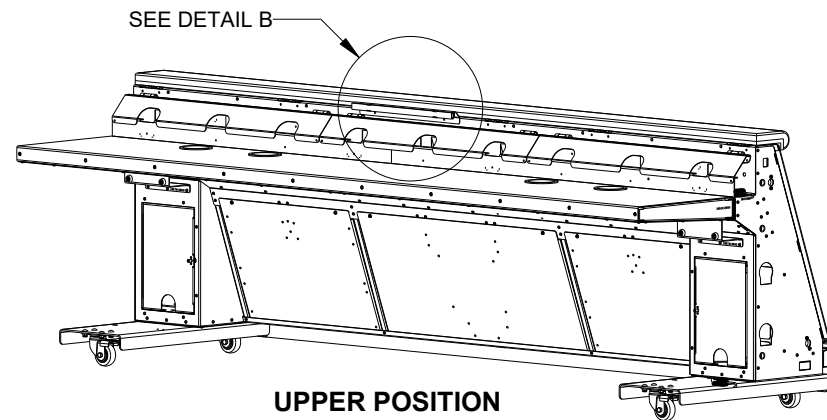
**DETAIL A  
SCALE 1/8**



**DETAIL B  
SCALE 1/8**




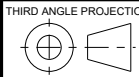
**LOWER POSITION  
ROTATED REAR VIEW**



**UPPER POSITION  
ROTATED REAR VIEW**

**NOTES:**

- LOWER ATTACHMENT IS ABOVE TABLETOP AND ALONG CABLE TRAY
- UPPER POSITION IS ABOVE CABLE TRAY AND ALONG TOP PERIMETER
- USE OF UPPER POSITION WILL RESTRICT ACCESS TO CABLE TRAY
- POSITION IS ADJUSTABLE EVERY 12.48"
- LIGHT STRIP MAY SPAN MULTIPLE DISPLAYS
- IT IS RECOMMENDED NOT TO SPAN MULTIPLE DISPLAYS AS IT WOULD HAVE TO BE REMOVED TO TRANSPORT DISPLAYS
- ROUTE POWER CABLE TO DEDICATED OUTLET IN CABLE TRAY

REV:	DATE:	DESCRIPTION:	BY:
 THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2020 DAKTRONICS, INC. (USA)			 THIRD ANGLE PROJECTION
PROJECT: SCORER'S TABLES			
TITLE: REAR CLOCK STOP ASSY; MANUAL DWG, ST A3			
DATE: 10-MAR-20	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE: 1/25	DO NOT SCALE DRAWING	1 OF 1	00
DESIGN: DOPPELT	JOB NO. P1892	FUNC - TYPE - SIZE E - 10 - A	4630118
DRAWN: KDMILLER			

## **B Daktronics Warranty and Limitation of Liability**

This section includes the Daktronics Warranty & Limitation of Liability statement (SL-02374).

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# DAKTRONICS WARRANTY & LIMITATION OF LIABILITY

This Warranty and Limitation of Liability (the "Warranty") sets forth the warranty provided by Daktronics with respect to the Equipment. By accepting delivery of the Equipment, Purchaser and End User agree to be bound by and accept these terms and conditions. Unless otherwise defined herein, all terms within the Warranty shall have the same meaning and definition as provided elsewhere in the Agreement.

DAKTRONICS WILL ONLY BE OBLIGATED TO HONOR THE WARRANTY SET FORTH IN THESE TERMS AND CONDITIONS UPON RECEIPT OF FULL PAYMENT FOR THE EQUIPMENT

## 1. Warranty Coverage.

- A. Daktronics warrants to the original end user (the "End User", which may also be the Purchaser) that the Equipment will be free from Defects (as defined below) in materials and workmanship for a period of one (1) year (the "Warranty Period"). The Warranty Period shall commence on the earlier of: (i) four weeks from the date that the Equipment leaves Daktronics' facility; or (ii) Substantial Completion as defined herein. The Warranty Period shall expire on the first anniversary of the commencement date.  
  
"Substantial Completion" means the operational availability of the Equipment to the End User in accordance with the Equipment's specifications, without regard to punch-list items, or other non-substantial items which do not affect the operation of the Equipment
- B. Daktronics' obligation under this Warranty is limited to, at Daktronics' option, replacing or repairing, any Equipment or part thereof that is found by Daktronics not to conform to the Equipment's specifications. Unless otherwise directed by Daktronics, any defective part or component shall be returned to Daktronics for repair or replacement. This Warranty does not include on-site labor charges to remove or install these components. Daktronics may, at its option, provide on-site warranty service. Daktronics shall have a reasonable period of time to make such replacements or repairs and all labor associated therewith shall be performed during regular working hours. Regular working hours are Monday through Friday between 8:00 a.m. and 5:00 p.m. at the location where labor is performed, excluding any holidays observed by Daktronics.
- C. Daktronics shall pay ground transportation charges for the return of any defective component of the Equipment. All such items shall be shipped by End User DDP Daktronics designated facility per Incoterms® 2020. If returned Equipment is repaired or replaced under the terms of this Warranty, Daktronics will prepay ground transportation charges back to End User and shall ship such items DDP End User's designated facility per Incoterms® 2020; otherwise, End User shall pay transportation charges to return the Equipment back to the End User and such Equipment shall be shipped Ex Works Daktronics designated facility per Incoterms® 2020. All returns must be pre-approved by Daktronics before shipment. Daktronics shall not be obligated to pay freight for any unapproved return. End User shall pay any upgraded or expedited transportation charges
- D. Any replacement parts or Equipment will be new or serviceably used, comparable in function and performance to the original part or Equipment and warranted for the remainder of the Warranty Period. Purchasing additional parts or Equipment from the Seller does not extend the Warranty Period.
- E. Defects shall be defined as follows. With regard to the Equipment (excepting LEDs), a "Defect" shall refer to a material variance from the design specifications that prohibit the Equipment from operating for its intended use. With respect to LEDs, "Defects" are defined as LED pixels that cease to emit light. Unless otherwise expressly provided, this Warranty does not impose any duty or liability upon Daktronics for partial LED pixel degradation. Notwithstanding the foregoing, in no event does this Warranty include LED pixel degradation caused by UV light. This Warranty does not provide for the replacement or installation of communication methods including but not limited to, wire, fiber optic cable, conduit, trenching, or for the purpose of overcoming local site interference radio equipment substitutions.

EXCEPT AS OTHERWISE EXPRESSLY SET FORTH IN THIS WARRANTY, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, DAKTRONICS DISCLAIMS ANY AND ALL OTHER PROMISES, REPRESENTATIONS AND WARRANTIES APPLICABLE TO THE EQUIPMENT AND REPLACES ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ACCURACY OR QUALITY OF DATA. OTHER ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY DAKTRONICS, ITS AGENTS OR EMPLOYEES, SHALL NOT CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS LIMITED WARRANTY.

THIS LIMITED WARRANTY IS NOT TRANSFERABLE.

## 2. Exclusion from Warranty Coverage

This Warranty does not impose any duty or liability upon Daktronics for any:

- A. damage occurring at any time, during shipment of Equipment unless otherwise provided for in the Agreement. When returning Equipment to Daktronics for repair or replacement, End User assumes all risk of loss or damage, agrees to use any shipping containers that might be provided by Daktronics, and to ship the Equipment in the manner prescribed by Daktronics;
- B. damage caused by: (i) the improper handling, installation, adjustment, use, repair, or service of the Equipment, or (ii) any physical damage which includes, but is not limited to, missing, broken, or cracked components resulting from non-electrical causes;

# DAKTRONICS WARRANTY & LIMITATION OF LIABILITY

altered, scratched, or fractured electronic traces; missing or gauged solder pads; cuts or clipped wires; crushed, cracked, punctured, or bent circuit boards; or tampering with any electronic connections, provided that such damage is not caused by personnel of Daktronics or its authorized repair agents;

- C. damage caused by the failure to provide a continuously suitable environment, including, but not limited to: (i) neglect or misuse; (ii) improper power including, without limitation, a failure or sudden surge of electrical power; (iii) improper air conditioning, humidity control, or other environmental conditions outside of the Equipment's technical specifications such as extreme temperatures, corrosives and metallic pollutants; or (iv) any other cause other than ordinary use;
- D. damage caused by fire, flood, earthquake, water, wind, lightning or other natural disaster, strike, inability to obtain materials or utilities, war, terrorism, civil disturbance, or any other cause beyond Daktronics' reasonable control;
- E. failure to adjust, repair or replace any item of Equipment if it would be impractical for Daktronics personnel to do so because of connection of the Equipment by mechanical or electrical means to another device not supplied by Daktronics, or the existence of general environmental conditions at the site that pose a danger to Daktronics personnel;
- F. statements made about the product by any salesperson, dealer, distributor or agent, unless such statements are in a written document signed by an officer of Daktronics. Such statements as are not included in a signed writing do not constitute warranties, shall not be relied upon by End User and are not part of the contract of sale;
- G. damage arising from the use of Daktronics products in any application other than the commercial and industrial applications for which they are intended, unless, upon request, such use is specifically approved in writing by Daktronics;
- H. replenishment of spare parts. In the event the Equipment was purchased with a spare parts package, the parties acknowledge and agree that the spare parts package is designed to exhaust over the life of the Equipment, and as such, the replenishment of the spare parts package is not included in the scope of this Warranty;
- I. security or functionality of the End User's network or systems, or anti-virus software updates;
- J. performance of preventive maintenance;
- K. third-party systems and other ancillary equipment, including without limitation front-end video control systems, audio systems, video processors and players, HVAC equipment, batteries and LCD screens;
- L. incorporation of accessories, attachments, software or other devices not furnished by Daktronics; or
- M. paint or refinishing the Equipment or furnishing material for this purpose.

### 3. Limitation of Liability

- A. Daktronics shall be under no obligation to furnish continued service under this Warranty if alterations are made to the Equipment without the prior written approval of Daktronics.
- B. It is specifically agreed that the price of the Equipment is based upon the following limitation of liability. In no event shall Daktronics (including its subsidiaries, affiliates, officers, directors, employees, or agents) be liable for any claims asserting or based on (a) loss of use of the facility or equipment; lost business, revenues, or profits; loss of goodwill; failure or increased cost of operations; loss, damage or corruption of data; loss resulting from system or service failure, malfunction, incompatibility, or breaches in system security; or (b) any special, consequential, incidental or exemplary damages arising out of or in any way connected with the Equipment or otherwise, including but not limited to damages for lost profits, cost of substitute or replacement equipment, down time, injury to property or any damages or sums paid to third parties, even if Daktronics has been advised of the possibility of such damages. The foregoing limitation of liability shall apply whether any claim is based upon principles of contract, tort or statutory duty, principles of indemnity or contribution, or otherwise
- C. In no event shall Daktronics be liable for loss, damage, or injury of any kind or nature arising out of or in connection with this Warranty in excess of the Purchase Price of the Equipment. The End User's remedy in any dispute under this Warranty shall be ultimately limited to the Purchase Price of the Equipment to the extent the Purchase Price has been paid.

### 4. Assignment of Rights

- A. The Warranty contained herein extends only to the End User (which may be the Purchaser) of the Equipment and no attempt to extend the Warranty to any subsequent user-transferee of the Equipment shall be valid or enforceable without the express written consent of Daktronics.

### 5. Governing Law; Election of Remedies

- A. The rights and obligations of the parties under this Warranty shall not be governed by the provisions of the United Nations Convention on Contracts for the International Sales of Goods of 1980. The parties consent to the application of the laws of the State of South Dakota to govern, interpret, and enforce each of the parties' rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Warranty, without regard to conflict of law principles.
- B. Any dispute, controversy or claim arising from or related to this Warranty, the parties shall first attempt to settle through negotiations. In the event that no resolution is reached, then such dispute, controversy, or claim shall be resolved by final and binding arbitration under the Rules of Arbitration of the International Chamber of Commerce. The language of the arbitration

# DAKTRONICS WARRANTY & LIMITATION OF LIABILITY

shall be English. The place of the arbitration shall be Sioux Falls, SD. A single arbitrator selected by the parties shall preside over the proceeding. If a single arbitrator cannot be agreed upon by the parties, each party shall select an arbitrator, and those arbitrators shall confer and agree on the appointed arbitrator to adjudicate the arbitration. The arbitrator shall have the power to grant any provisional or final remedy or relief that it deems appropriate, including conservatory measures and an award of attorneys' fees. The arbitrator shall make its decisions in accordance with applicable law. By agreeing to arbitration, the Parties do not intend to deprive any court of its jurisdiction to issue a pre-arbitral injunction, pre-arbitral attachment, or other order in aid of arbitration proceedings and the enforcement of any award. Without prejudice to such provisional remedies as may be available under the jurisdiction of a court, the arbitrator shall have full authority to grant provisional remedies and to direct the Parties to request that any court modify or vacate any temporary or preliminary relief issued by such court, and to award damages for the failure of any Party to respect the arbitrator's orders to that effect.

## 6. Availability of Extended Service Agreement

- A. For End User's protection, in addition to that afforded by the warranties set forth herein, End User may purchase extended warranty services to cover the Equipment. The Extended Service Agreement, available from Daktronics, provides for electronic parts repair and/or on-site labor for an extended period from the date of expiration of this warranty. Alternatively, an Extended Service Agreement may be purchased in conjunction with this Warranty for extended additional services. For further information, contact Daktronics Customer Service at 1-800-DAKTRONics (1-800-325-8766).

### Additional Terms applicable to sales outside of the United States

The following additional terms apply **only** where the installation site of the Equipment is located outside of the United States of America.

1. In the event that the installation site of the Equipment is in a country other than the U.S.A., then, notwithstanding Section 5 of the Warranty, where the selling entity is the entity listed in Column 1, then the governing law of this Warranty is the law of the jurisdiction listed in the corresponding row in Column 2 without regard to its conflict of law principles. Furthermore, if the selling entity is an entity listed in Column 1, then the place of arbitration is listed in the corresponding row in Column 3.

Column 1 (Selling Entity)	Column 2 (Governing Law)	Column 3 (Location of Arbitration)
Daktronics, Inc.	The state of Illinois	Chicago, IL, U.S.A.
Daktronics Canada, Inc.	The Province of Ontario, Canada	Toronto, Ontario, Canada
Daktronics UK Ltd.	England and Wales	Bristol, UK
Daktronics GmbH	The Federal Republic of Germany	Wiesbaden, Germany
Daktronics Hong Kong Limited	Hong Kong, Special Administrative Region of the P.R.C.	Hong Kong SAR
Daktronics Shanghai Co., Ltd.	The Peoples Republic of China	Shanghai, P.R.C.
Daktronics France, SARL	France	Paris, France
Daktronics Japan, Inc.	Japan	Tokyo, Japan
Daktronics International Limited	Macau, Special Administrative Region of the P.R.C.	Macau SAR
Daktronics Australia Pad Ltd	Australia	Sydney, Australia
Daktronics Singapore Pte. Ltd	Singapore	Singapore
Daktronics Brazil LTDA	Brazil	São Paulo, Brazil
Daktronics Spain S.L.U.	Spain	Madrid, Spain
Daktronics Belgium N. V	Belgium	Kruikeke, Belgium
Daktronics Ireland Co. Ltd.	Ireland	Dublin, Ireland

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