MATSIDE® JR.
LED WRESTLING SCOREBOARDS
DISPLAY MANUAL
P1237

ED-15023
Rev 03
19 June 2018

<table>
<thead>
<tr>
<th>Models</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WR-2101</td>
<td>WR-2104</td>
</tr>
<tr>
<td>WR-2102</td>
<td>WR-2105</td>
</tr>
<tr>
<td>WR-2103</td>
<td>WR-2106</td>
</tr>
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1 Introduction

This manual explains the installation and maintenance of Daktronics Matside Jr. LED wrestling scoreboards. For additional information regarding safety, installation, operation, or service, refer to the telephone numbers listed in Section 5: Daktronics Exchange and Repair & Return Programs (p.12). This manual is not specific to a particular installation. Project-specific information takes precedence over general information found in this manual.

Important Safety Instructions

• Read and understand all instructions before using the display.
• Disconnect display power when not in use or when servicing.
• Disconnect 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 scoreboard structure or attach any panels or coverings to the scoreboard 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 control equipment or allow it to get wet.

Specifications Label

Power specifications as well as serial and model number information can be found on an ID label on the display, similar to the one shown in Figure 1.

![Specifications Label](image)

*Figure 1: Specifications Label*

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.

Display Controllers

Daktronics Matside Jr. scoreboards are designed for use with an All Sport® 1600 or 5000 console. Both controllers use keyboard overlays (sport inserts) to control numerous sports and display models. Refer to the following manuals for operating instructions:

• All Sport 1600 Series Control Console Operation Manual (ED-12462)
• All Sport 5000 Series Control Console Operation Manual (ED-11976)

These manuals are provided on a CD with the control console and they are also available online at www.daktronics.com/manuals.
Resources

Figure 2 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 section are listed at the beginning of it as shown below:

Reference Drawing:
System Riser Diagram........................................................................................................ DWG-1007804

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

Daktronics Nomenclature

Most display components have a white label that lists the part number (Figure 3). Part numbers will also appear on certain drawings. If a component is not found in the Replacement Parts (p.10), use the label to order a replacement. Refer to Section 5: Daktronics Exchange and Repair & Return Programs (p.12) if replacing or repairing any display component.

Main Component Labels

<table>
<thead>
<tr>
<th>Part Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual circuit board</td>
<td>0P-XXXX-XXXX</td>
</tr>
<tr>
<td>Assembly; a collection of circuit boards</td>
<td>0A-XXXX-XXXX</td>
</tr>
<tr>
<td>Wire or cable</td>
<td>W-XXXX</td>
</tr>
<tr>
<td>Fuse</td>
<td>F-XXXX</td>
</tr>
<tr>
<td>Transformer</td>
<td>T-XXXX</td>
</tr>
<tr>
<td>Metal part</td>
<td>0M-XXXXXXX</td>
</tr>
<tr>
<td>Fabricated metal assembly</td>
<td>0S-XXXXXX</td>
</tr>
<tr>
<td>Specially ordered part</td>
<td>PR-XXXXX-X</td>
</tr>
</tbody>
</table>

Accessory Labels

<table>
<thead>
<tr>
<th>Component</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Termination block for power or signal cable</td>
<td>TBXX</td>
</tr>
<tr>
<td>Grounding point</td>
<td>EXX</td>
</tr>
<tr>
<td>Power or signal jack</td>
<td>JXX</td>
</tr>
<tr>
<td>Power or signal plug for the opposite jack</td>
<td>PXX</td>
</tr>
</tbody>
</table>

Product Safety Approval

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

Specifications

The table on the following page details all of the mechanical specifications, circuit specifications, and power requirements for each display in this manual. Models are listed in alphanumeric order.

Note: All displays require a 120 VAC, 15 Amp circuit. Displays with a 240 VAC power requirement are also available.
<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions: Height, Width, Depth</th>
<th>Weight</th>
<th>Power (120/240 V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR-2101</td>
<td>1'-9&quot; H x 2'-0&quot; W x 7&quot; D</td>
<td>25 lb</td>
<td>100 Watts, 1 Amp</td>
</tr>
<tr>
<td></td>
<td>(533 mm, 610 mm, 178 mm)</td>
<td>(11 kg)</td>
<td></td>
</tr>
<tr>
<td>WR-2102</td>
<td>1'-9&quot; H x 2'-0&quot; W x 7&quot; D</td>
<td>30 lb</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(533 mm, 610 mm, 178 mm)</td>
<td>(14 kg)</td>
<td></td>
</tr>
<tr>
<td>WR-2103</td>
<td>1'-10&quot; H x 2'-3&quot; W x 2'-1&quot; D</td>
<td>45 lb</td>
<td>WR-2101, WR-2102, or WR-2103</td>
</tr>
<tr>
<td></td>
<td>(559 mm, 686 mm, 635 mm)</td>
<td>(20 kg)</td>
<td>scoreboard required to provide</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>operation of digits</td>
</tr>
<tr>
<td>WR-2104</td>
<td>9&quot; H x 2'-0&quot; W x 7&quot; D</td>
<td>10 lb</td>
<td></td>
</tr>
<tr>
<td>WR-2105</td>
<td>(229 mm, 610 mm, 178 mm)</td>
<td>(4.5 kg)</td>
<td></td>
</tr>
<tr>
<td>WR-2106</td>
<td>10&quot; H x 2'-3&quot; W x 2'-1&quot; D</td>
<td>20 lb</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(254 mm, 679 mm, 635 mm)</td>
<td>(9 kg)</td>
<td></td>
</tr>
</tbody>
</table>
2 Mechanical & Electrical Installation

Mechanical Installation

Reference Drawings:
- Mechanical Spec, WR-2102-13 ................................................................. DWG-220815
- Mechanical Spec, WR-2101-13 ................................................................. DWG-220834
- Mechanical Spec, WR-2103-13 ................................................................. DWG-220856
- Mechanical Spec, WR-2104, 2105, 2106 ................................................... DWG-220904

All Daktronics Matside Jr. wrestling scoreboards may be displayed on the floor on a table, or mounted on an optional tripod. Use only the tripod (part # A-1580) and adapter (part # HS-1306) supplied by Daktronics. DWG-220815, DWG-220834, DWG-220856, and DWG-220904 in Appendix A show how to mount the display on a tripod. Locate the holes on the bottom of the scoreboard and secure the display to the tripod adaptor using the hardware provided.

The single-sided wrestling scoreboard (WR-2101) may also be wall mounted (the two- and three-sided models cannot). Refer to DWG-220834 for mounting keyhole locations on the back of the display. Due to the variety of wall materials used in sports facilities, Daktronics cannot anticipate a user’s needs or provide mounting hardware suitable for every installation. Mounting hardware may be purchased at a local hardware store. Choose a method of installation that will safely support the weight of the display.

Note: Do not use the carrying handle to permanently suspend the display.

Electrical Installation

Reference Drawings:
- Electrical/Signal Spec, WR-2102-13 .......................................................... DWG-220821
- Electrical/Signal Spec, WR-2101-13 .......................................................... DWG-220850
- Electrical/Signal Spec, WR-2103-13 .......................................................... DWG-220875
- Electrical/Signal Spec, WR-2104, 2105, 2106 ............................................ DWG-220903

Electrical installation involves routing power and control signal wiring to the displays. Refer to DWG-220821, DWG-220850, and DWG-220875 in Appendix A for detailed power and signal connection diagrams for each wrestling scoreboard model.

Power

Each display features a 120 VAC power cord with a three-prong plug. Install a grounded receptacle near the equipment so that the power cord can easily reach it. The control console requires a 120/240 VAC receptacle and uses less than 1 Amp of power.

Displays operating on 240 VAC are also available, and they are shipped equipped with a universal power plug.

Models WR-2104, WR-2105, and WR-2106 receive power and signal from the WR-2101, WR-2102, or WR-2103 scoreboard, respectively. Refer to DWG-220903 for illustration on how the units are connected.
Signal

1. Route the signal cable from the display to the control location.
2. Plug the signal cable into the J31 SIGNAL IN jack on the side of the display.
3. Plug the other end of the signal cable into the J1 or J2 on the All Sport 1600 (J1, J2, or J3 jack on the back of the All Sport 5000).

**Note:** Refer to the electrical and signal specification drawings in Appendix A for additional information and typical system setup examples.

**Special note to users of All Sport 4000 and Pro Sport 6000 Control Consoles:**
Current standard models in the Daktronics Matside Jr. wrestling display lines are factory configured to operate only with the All Sport 1600 and 5000 series control consoles. If one of these standard scoreboards is sent as a replacement, the address plug must be removed from the scoreboard to properly receive signal from older controllers. Simply unplug the P19 address plug from connector J19 on the LED driver. Refer to LED Drivers (p.7). If any problems occur with this procedure, contact the Daktronics.
### 3 Troubleshooting

Disconnect power before doing any repair or maintenance work on the display. Permit only qualified service personnel to access internal display electronics. Disconnect power when not using the display.

#### Troubleshooting Table

This section lists potential problems with the system, indicates possible causes, and suggests corrective action. This list does not include every possible problem, but it does represent some of the more common situations that may occur.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution/Items to Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display does not light, and console does not work</td>
<td>No power to the display</td>
<td>Check that the main circuit breaker for the display is on. Check that the display is receiving 120-240 VAC power.</td>
</tr>
<tr>
<td></td>
<td>No power to the control console</td>
<td>Ensure the console is plugged into a 120 or 240 VAC power supply. Exchange the console with a working one, and enter the correct sport code to test. Replace console if necessary.</td>
</tr>
<tr>
<td>Display digits do not light, but console works</td>
<td>No wired signal from control console</td>
<td>Check that the display is receiving 120-240 VAC power. Check that the red DS5 (or DS2) LED on the driver lights up when sending commands from the controller; see LED Drivers (p.7).</td>
</tr>
<tr>
<td></td>
<td>No signal to driver</td>
<td>Check that the display is receiving 120-240 VAC power. Check that the red DS5 (or DS2) LED on the driver lights up when sending commands from the controller. See LED Drivers (p.7). Exchange the driver with a working one of the same part #. Replace if necessary. See LED Drivers (p.7).</td>
</tr>
<tr>
<td></td>
<td>No power to driver</td>
<td>Check that the red DS8 (or green DS1) LED on the driver remains lit up when the display is powered on. See LED Drivers (p.7).</td>
</tr>
<tr>
<td>Display digits light, but not in the correct order</td>
<td>Incorrect sport code</td>
<td>Ensure the correct sport code is being used for the display model. Refer to the appropriate console operation manual.</td>
</tr>
<tr>
<td></td>
<td>Incorrect driver address</td>
<td>Ensure all drivers are set to the correct address. See Setting the Driver Address (p.9).</td>
</tr>
<tr>
<td>Digits light, console works, but nothing displays</td>
<td>No wired signal from control console</td>
<td>(see solution above)</td>
</tr>
<tr>
<td></td>
<td>Bad/damaged field wiring</td>
<td>Check that the red DS5 (or DS2) LED on the driver lights up when sending commands from the controller. See LED Drivers (p.7).</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Cause</td>
<td>Solution/Items to Check</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>-------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Display works, but some LEDs always stay on</td>
<td>Short in digit/indicator circuit</td>
<td>Exchange the digit/indicator with a working one of the same part # to verify the problem. Replace if necessary. See Replacing Digits (p.7).</td>
</tr>
<tr>
<td>Display works, but some LEDs do not light or they blink</td>
<td>Bad connection</td>
<td>Verify the connector on the back of the digit circuit board is secure.</td>
</tr>
<tr>
<td>Display works, but some digits do not light</td>
<td>Bad digit or driver</td>
<td>Exchange the digit or driver with a working one of the same part # to verify the problem. Replace if necessary. See Replacing Digits (p.7) or LED Drivers (p.7).</td>
</tr>
<tr>
<td>Display works, but some digits do not light</td>
<td>Bad digit or driver</td>
<td>[see solution above]</td>
</tr>
<tr>
<td></td>
<td>Incorrect sport code</td>
<td>[see solution on previous page]</td>
</tr>
<tr>
<td></td>
<td>Incorrect driver address</td>
<td>[see solution on previous page]</td>
</tr>
</tbody>
</table>

Component Location & Access
To access the driver, digits, or other internal components, remove the screws securing the face panel(s) to the scoreboard. Some panels are hinged at the bottom and will swing downward.

Replacing Digits
LEDs are embedded in a printed circuit board (PCB) that is mounted to the back of the face panel. Do not attempt to remove individual LEDs. In the case of a malfunctioning LED or digit segment, replace the entire digit circuit board.

To replace a digit:
1. Open the face panel as described in Component Location & Access (p.7).
2. Disconnect the plug from the back of the digit by squeezing together the locking tabs and pulling the connector free.
3. Use a 9/32” nut driver to remove the nuts securing the digits to the inside of the panel, and then lift the digit off the spacers and standoff studs.
4. Position a new digit over the studs. Make sure the small plastic spacers are still in place, and then tighten the nuts.
5. Reconnect the plug to the back of the digit. This is a keyed connector and will attach in one way only. Do not force the connection.
6. Close and secure the face panel, then power up and test the display to verify the issue has been resolved.

LED Drivers
The LED driver performs the task of switching digits on and off within the display. Refer to the electrical and signal specifications drawings in Appendix A to determine the location of the driver in a particular scoreboard model.

When troubleshooting driver problems, several LEDs shown in Figure 4 provide diagnostic information. The number of LEDs and their function depends on the driver type.

Note: While it is necessary to have the display powered on to check the LED status indicators, always disconnect power before servicing.
16-Column “Gyrus” Drivers

<table>
<thead>
<tr>
<th>LED</th>
<th>Function</th>
<th>Operation</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS1</td>
<td>Radio/RS-232 RX</td>
<td>Blinking or off</td>
<td>DS1 will be blinking when the driver is receiving radio signal and off when there is no signal.</td>
</tr>
<tr>
<td>DS2</td>
<td>Status</td>
<td>Blinking</td>
<td>DS2 will be blinking at one second intervals to indicate the driver is running.</td>
</tr>
<tr>
<td>DS5</td>
<td>Signal RX</td>
<td>Blinking or off</td>
<td>DS5 will be blinking when the driver is receiving current loop signal and off when there is no signal.</td>
</tr>
<tr>
<td>DS8</td>
<td>Power</td>
<td>Steady on</td>
<td>DS8 will be on and steady to indicate driver has power.</td>
</tr>
</tbody>
</table>

For more detailed descriptions of driver LEDs and jacks, refer to DWG-3071833.

16-Column Drivers (prior to April 2015)

<table>
<thead>
<tr>
<th>LED</th>
<th>Color</th>
<th>Function</th>
<th>Operation</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS1</td>
<td>Green</td>
<td>Power</td>
<td>Steady on</td>
<td>DS1 will be on and steady to indicate the driver has power.</td>
</tr>
<tr>
<td>DS2</td>
<td>Red</td>
<td>Signal RX</td>
<td>Steady on or blinking</td>
<td>DS2 will be on or blinking when the driver is receiving a signal and off when there is no signal.</td>
</tr>
<tr>
<td>DS3</td>
<td>Amber</td>
<td>Status</td>
<td>Blinking</td>
<td>DS3 will be blinking at one second intervals to indicate the driver is running.</td>
</tr>
</tbody>
</table>

For more detailed descriptions of 16-column driver LEDs and jacks, refer to DWG-126174.

Figure 4: Driver Status Indicators

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 face panel as described in Component Location & Access (p.7).
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 or take a picture to know which cable goes to which connector when attaching the new driver.
3. Remove the wing nuts securing the driver to the inside of the display.
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 their mating jacks on 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.9).
8. Close and secure the face panel, then power up and test the display to verify the issue has been resolved.

Troubleshooting
Setting the Driver Address

Since the same LED drivers can be used for many display models, each driver must be set to receive the correct signal input, or address, for the model in which it is being used. The way the address is set depends on the driver type:

- For 16-column “Gyrus” drivers, addresses are set through the S2 (L) and S3 (H) rotary switches on the driver (Figure 5) using a small flathead screwdriver.

<table>
<thead>
<tr>
<th>Model</th>
<th>Driver # &amp; Address</th>
<th>Switch Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR-2101</td>
<td>A1</td>
<td>H = 6, L = 8</td>
</tr>
<tr>
<td>WR-2102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WR-2103</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- For older 16-column drivers, addresses are set with jumper wires in a 12-pin plug which mates with jack J19 on the driver (Figure 6).

Note: If an older 16-column driver needs replacement, it will be replaced by a new 16-column “Gyrus” driver. It may be possible to simply reuse the same address plug from the driver that was replaced. If not, refer to the table above to determine the correct rotary switch address settings for the new driver.

Segmentation & Digit Designation

Reference Drawings:
Segmentation, 7 Segment Bar Digit ................................................................. DWG-38532

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

The electrical and signal specification drawings in Appendix A also specify the driver connectors controlling the digits. Numbers shown in hexagons in the upper half of each digit indicate which connector is wired to that digit.

Schematics

Reference Drawings:
Schematic; WR-2101 -2102 -2103 ............................................................................. DWG-214890

For advanced display troubleshooting and repair, it may be necessary to consult the schematic drawings. DWG-214890 in Appendix A shows detailed power and signal wiring diagrams of internal display components.
## Replacement Parts

The following table contains display components that may require replacement. Many of the other display components will have attached part number labels.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horn, 120V w/ Cap.</td>
<td>0A-1152-0332</td>
</tr>
<tr>
<td>16 Column LED Driver</td>
<td>0A-1782-0100</td>
</tr>
<tr>
<td>Digit, 5'' green 7 segment LED</td>
<td>0P-1150-0062</td>
</tr>
<tr>
<td>Digit, 5'' amber 7 segment LED</td>
<td>0P-1150-0081</td>
</tr>
<tr>
<td>Digit, 5'' red 7 segment LED</td>
<td>0P-1150-0200</td>
</tr>
<tr>
<td>Indicator, 5'' amber LED</td>
<td>0P-1150-0247</td>
</tr>
<tr>
<td>Indicator, 5'' red LED</td>
<td>0P-1150-0249</td>
</tr>
<tr>
<td>Indicator, 5'' green LED</td>
<td>0P-1150-0250</td>
</tr>
<tr>
<td>Horn Interface Card</td>
<td>0P-1192-0399</td>
</tr>
<tr>
<td>Tripod Mount</td>
<td>A-1580 &amp; HS-1306</td>
</tr>
<tr>
<td>Replacement T-bolt for Tripod Mount</td>
<td>HS-1315</td>
</tr>
<tr>
<td>Transformer, 115/230 V @ 6.25 A</td>
<td>T-1066</td>
</tr>
<tr>
<td>Cable, 20' phone plug</td>
<td>W-1236</td>
</tr>
<tr>
<td>Cable, 50' phone plug</td>
<td>W-1237</td>
</tr>
<tr>
<td>Cable, 30' phone plug</td>
<td>W-1238</td>
</tr>
<tr>
<td>Cable, 10' phone plug</td>
<td>W-1340</td>
</tr>
</tbody>
</table>

Refer to **Section 5: Daktronics Exchange and Repair & Return Programs (p.12)** for information on exchanging or returning parts.
Scoreboard Options

4 Horns
Matside Jr. scoreboards are equipped with a 120 VAC vibrating horn mounted behind the lower-front panel. The horn sounds automatically when the period clock counts down to zero, or when manually triggered by the operator using the control console.

Adjusting Horn Volume
CAUTION: The horn is a 120 VAC device. Turn off the power before adjusting the horn.

The volume for the electronic, buzzer-type horn is set at its maximum level at the factory. If the horn is too loud, reduce its volume by adjusting the setscrew mounted in the front of the horn. A plastic tip on the screw touches the horn’s diaphragm, reducing the volume. Turn the screw clockwise and test the volume by operating the horn from the scoreboard control console. Continue adjusting and testing until the desired volume level is obtained.

Note that with spectator noise, the horn will not seem as loud as when it is being tested in an empty area, so be sure to set the volume according to the acoustics of the facility.

Changeable Captions

Reference Drawings:
Caption Panel Placement, WR-2101, -2102, -2103 ........................................... DWG-225545

Matside Jr. scoreboards are capable of scoring several other sports in addition to wrestling, including basketball, gymnastics, and volleyball. In order to score gymnastics and volleyball, the MATCH caption can be covered up with different scoring captions. These captions are shipped inside the scoreboard. Refer to DWG-225545 in Appendix A for the proper procedure on changing the scoreboard captions.

Ad Panels

Reference Drawings:
Mechanical Spec, Non-Backlit Ad Panel Attachment................................. DWG-220915

Refer to DWG-220915 in Appendix A for information on installing optional ad panels to the top of the scoreboard.
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.**

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

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.
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A Reference Drawings

Refer to Resources (p.2) for information regarding how to read the drawing number. Any contract-specific drawings take precedence over the general drawings.

Reference Drawings:
Segmentation, 7 Segment Bar Digit ................................................................. DWG-38532
16 Column LED Driver II Specifications .......................................................... DWG-126174
Schematic; WR-2101-2102-2103....................................................................... DWG-214890
Mechanical Spec, WR-2102-13........................................................................ DWG-220815
Electrical & Signal Spec, WR-2102-13............................................................. DWG-220821
Mechanical Spec, WR-2101-13....................................................................... DWG-220834
Electrical & Signal Spec, WR-2101-13............................................................. DWG-220850
Mechanical Spec, WR-2103-13....................................................................... DWG-220856
Electrical & Signal Spec, WR-2103-13............................................................. DWG-220875
Electrical & Signal Spec, WR-2104, 2105, 2106 ............................................. DWG-220903
Mechanical Spec, WR-2104, 2105, & 2106 .................................................... DWG-220904
Mechanical Spec, Non-Backlit Ad Panel Attachment ..................................... DWG-220915
Caption Panel Placement, WR-2101, -2102, -2103........................................ DWG-225545
Specifications; Gyrus LED Driver, 16 Col...................................................... DWG-3071833
7 SEGMENT BAR DIGIT
FRONT VIEW

CONNECTOR PIN NUMBERING
NOTE SPLINE NEAR NO. 1

COLOR CODE

<table>
<thead>
<tr>
<th>PIN NO.</th>
<th>WIRE COLOR</th>
<th>DRIVER SEGMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ORN</td>
<td>C</td>
</tr>
<tr>
<td>2</td>
<td>RED</td>
<td>B</td>
</tr>
<tr>
<td>3</td>
<td>BRN</td>
<td>A</td>
</tr>
<tr>
<td>4</td>
<td>BLU</td>
<td>F</td>
</tr>
<tr>
<td>5</td>
<td>PNK</td>
<td>E</td>
</tr>
<tr>
<td>6</td>
<td>TAN</td>
<td>D</td>
</tr>
<tr>
<td>7</td>
<td>BLK</td>
<td>COM.</td>
</tr>
<tr>
<td>8</td>
<td>GRY</td>
<td>H</td>
</tr>
<tr>
<td>9</td>
<td>VIO</td>
<td>G</td>
</tr>
</tbody>
</table>

NOTE: "H" SEGMENT, GRAY WIRE IS NOT USED ON 7 SEGMENT BAR DIGIT.
OP-1150-0126 UNCOATED OR OP-1150-0127 COATED
16 COLUMN LED DRIVER II

NOTE

WITH NO ADDRESS PINS SELECTED THE DRIVER WILL DEFAULT TO A/S 4000 PROTOCOL

GREEN LED INDICATES THE DRIVER HAS POWER

RED LED WILL BE ON OR BLINKING WHEN THE DRIVER IS RECEIVING SIGNAL

AMBER LED INDICATES LED DRIVER STATUS, LED WILL BE BLINKING TO INDICATE THAT THE DRIVER IS RUNNING, IF THE LED IS OFF OR ON SOLID ALL OF THE TIME, THEN THE DRIVER'S CPU IS NOT FUNCTIONING AND MAY NEED TO BE RESET OR REPLACED.

REFER TO DRAWINGS A-115078 & A-115079 FOR J19 ADDRESS SETTINGS FOR THIS DRIVER.

REFER TO DRAWING A-115081 FOR J20 PROTOCOL SETTINGS FOR THIS DRIVER.

REDRIVE CIRCUIT IS PROCESSOR REFRESHED (REFER TO DWG A-128429 FOR FURTHER INFORMATION ON THE CURRENT LOOP REDRIVE CIRCUIT SPECIFICATIONS)
ROE\OJH 0421 APR 15
REMOVED J45 FROM DRIVER HARNESS
ADDED J21 TO DRIVER FOR RADIO
PER GYRUS EC

ROE\OJH 0503 NOV 15
PER EC-19481, ADDED 240V VERSION

120V AC MODELS

240V AC MODELS

- REMOVE FEMALE END OF W-1345
- STRIP OUTER INSULATION FROM CABLE
- ATTACH E-1009 ON END OF GREEN WIRE
- WIRE NUT POWER WIRES AS SHOWN
WR-2102-13 SCOREBOARD
MECHANICAL SPEC

FRONT VIEW

RIGHT SIDE

REAR VIEW

OPTIONAL TRIPOD MOUNT AVAILABLE. USE ONLY THE TRIPOD AND ADAPTOR AVAILABLE FROM DAKTRONICS.

DISPLAY SPEC.
- MOUNTING WEIGHT: 30 LBS (13.6 KG)
- SHIPPING WEIGHT: 45 LBS (20.4 KG)
- DIMENSIONS: 21.00" X 24.00" X 7.00"

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DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: TUFF SPORT SCOREBOARDS
TITLE: MECHANICAL SPEC, WR-2102-13
DES: EREBHAH DRAWN: JBANNWA DATE: 09 AUG 04

REV. DATE DESCRIPTION BY APPR.
00

SCALE: 1=12 1237-E10A-220815
**TYPICAL SINGLE DISPLAY SETUP:**

- **CONTROL CONSOLE:**
  - WR-2102-13
  - 120V AC

- **MARK CLOCK:**
  - START/STOP/HORN SWITCH

*Equipped for All Sport 4000 Controller prior to 01 Jan 2000.*

**NOTE:**
The number listed by each digit indicates which driver connector is wired to that digit.

**NOTE:** Arrow indicates signal termination point on display. Refer to drawing below or AllSport manual for additional wiring diagrams of display. Use 24AWG minimum, shielded, two conductor cable for signal termination.

**POWER SPEC:**
- 120VAC, 15 AMP circuit required.
- 100 WATTS maximum.
- Product Safety Approval:
  - ETL Listed, Tested to CSA Standards,
  - And CE Labeled for Indoor Use.

**NOTE:** Refer to the manual for warranty and component replacement procedures.

**CAUTION:** Do not work on energized display unless you are a certified electrician or directed by Daktronics.

---

**DAKTRONICS, INC.**

**PROOF/STUFF SPORT SCOREBOARDS**

**TITLE:** ELECTRICAL AND SIGNAL SPEC - WR-2102-13

**DESIGN:** EREBHAH  **DRAWN:** JBANNWA  **DATE:** 09 AUG 04

**SCALE:** 1:10

**REV:** 01  **DATE:** 27 AUG 10  **REPLACED WR-2025-9 WITH WR-2102-13.**  **BY:** BDS

**SHEET** 01  **JOB NO:** P1237  **FUNCTION:** E-10-A

---

**Daktronics, Inc.**

**Copyright 2004 Daktronics, Inc.**
WR-2101-13 SCOREBOARD
MECHANICAL SPEC

FRONT VIEW
24,000 [610mm]

RIGHT SIDE
7,000 [178mm]

REAR VIEW
16,000 [406mm]

KEYHOLES IN THE BACK OF THE CABINET ARE USED FOR MOUNTING THE CABINET TO THE WALL.
KEY HOLES ARE SPACED THE SAME FROM BOTH SIDES AND 16 INCHES APART.

OPTIONAL TRIPOD MOUNT AVAILABLE.
USE ONLY THE TRIPOD AND ADAPTOR AVAILABLE FROM DAKTRONICS.

DISPLAY SPEC.
- MOUNTING WEIGHT: 25 LBS (11.3 KG)
- SHIPPING WEIGHT: 40 LBS (18.1KG)
- DIMENSIONS: 21.00” X 24.00” X 7.00”
NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES WHICH DRIVER CONNECTOR IS WIRING TO THAT DIGIT.
NOTE: ARROW INDICATES SIGNAL TERMINATION POINT ON DISPLAY. REFER TO DRAWING BELOW OR ALLSPORT
MANUAL FOR ADDITIONAL Wiring DIAGRAMS OF DISPLAY. USE 24AWG MINIMUM, SHIELDED, TWO CONDUCTOR CABLE
FOR SIGNAL TERMINATION.

TYPICAL SINGLE DISPLAY SETUP:

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

*EQUIPPED FOR ALL SPORT 4000 CONTROLLER PRIOR TO 01 JAN 2000.
**EQUIPPED FOR ALL SPORT 5000 CONTROLLER AFTER 01 JAN 2000.

NOTE: REFER TO THE MANUAL FOR WARRANTY AND COMPONENT REPLACEMENT PROCEDURES.
REMOVE FOUR SCREWS THAT FASTEN THE FACE PANEL ON TO ACCESS DRIVER.

CAUTION: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.
OPTIONAL TRIPOD MOUNT AVAILABLE. USE ONLY THE TRIPOD AND ADAPTOR AVAILABLE FROM DAKTRONICS.

DISPLAY SPEC.
- MOUNTING WEIGHT: 45 LBS (20.41 KG)
- SHIPPING WEIGHT: 60 LBS (27.22 KG)
- DIMENSIONS: 26.749" X 22.00" X 23.166"

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TYPICAL SINGLE DISPLAY SETUP:

NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES WHICH DRIVER CONNECTOR IS WIRED TO THAT DIGIT. NOTE: ARROW INDICATES SIGNAL TERMINATION POINT ON DISPLAY. REFER TO DRAWING BELOW OR ALLSPORT MANUAL FOR ADDITIONAL WIRING DIAGRAMS OF DISPLAY. USE 24AWG MINIMUM, SHIELDED, TWO CONDUCTOR CABLE FOR SIGNAL TERMINATION.

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

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

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

CAUTION: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.
NOTE: THE NUMBER LISTED BY EACH DIGIT INDICATES WHICH DRIVER CONNECTOR IS W/RED TO THAT DIGIT.

NOTE: DO NOT WORK ON ENERGIZED DISPLAY UNLESS YOU ARE A CERTIFIED ELECTRICIAN OR DIRECTED BY DAKTRONICS.
TO ATTACH THE TEAM SCORE SECTION:
REMOVE THE RUBBER BUMPERS FROM THE BOTTOM OF THE MAIN SECTION AND USE THE SCREWS TO MOUNT THE TEAM SCORE SECTION.

OPTIONAL TRIPOD MOUNT IS AVAILABLE.
DO NOT ATTEMPT TO MOUNT THE SCOREBOARD ON A CAMERA TRIPOD.
USE THE TRIPOD AND ADAPTOR AVAILABLE FROM DAKTRONICS.

DISPLAY SPEC. WR-2101 & WR-2104 (SINGLE-SIDED)
- MOUNTING WEIGHT: 35 LBS (16 KG)
- SHIPPING WEIGHT: 55 LBS (25 KG)
- DIMENSIONS: 30.00" X 24.00" X 7.00"

DISPLAY SPEC. WR-2102 & WR-2105 (TWO-SIDED)
- MOUNTING WEIGHT: 40 LBS (19 KG)
- SHIPPING WEIGHT: 60 LBS (27 KG)
- DIMENSIONS: 30.00" X 24.00" X 7.00"

DISPLAY SPEC. WR-2103 & WR-2106 (THREE-SIDED)
- MOUNTING WEIGHT: 65 LBS (29 KG)
- SHIPPING WEIGHT: 88 LBS (40 KG)
- DIMENSIONS: 32.00" X 26.749" X 23.166"
1. Disconnect power before accessing caption panel(s).
2. Locate the face panel that has the label, "Caution 120V AC behind this panel."
3. Remove the screws that hold the face panel in place and swing the face panel down.
4. Remove the wing nuts that hold the caption panel(s) in the cabinet.
5. Reinstall the screws that hold the face panel in place.
6. Remove the screws that are in the face panel(s) near the match caption.
7. Install the caption panel(s) to the cabinet with the screws that were removed.
8. Reconnect power when everything is in the proper operating position.
Notes:
- Protocols are auto-detected
- DS8 = Power
- DS1 = RS-232 Status (Radio)
  BLINK = Comm Detected
  OFF = No Comm
- DS2 = Heartbeat (Run)
  1 sec. Blink = OK
- DS5 = Current Loop Receive
  ON = OK
  OFF = Disconnected

Indicators:
- DS8 = Power
- DS1 = RS-232 Status (Radio)
  BLINK = Comm Detected
  OFF = No Comm
- DS2 = Heartbeat (Run)
  1 sec. Blink = OK
- DS5 = Current Loop Receive
  ON = OK
  OFF = Disconnected

Reference Drawings
- A-128429 for current loop re-drive specifications
- B-1198765 for Switch Address Settings
B Daktronics Warranty & Limitation of Liability

This section includes the Daktronics Warranty & Limitation of Liability statement (SL-02374).
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”) 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-substantive 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. If returned Equipment is repaired or replaced under the terms of this Warranty, Daktronics will pay ground transportation charges back to End User and shall ship such items DDP End User’s designated facility; otherwise, End User shall pay transportation charges to return the Equipment back to the End User and such Equipment shall be shipped FOB Daktronics designated facility. 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; 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 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

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.

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.

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

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

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.

6. Availability of Extended Service Agreement

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).