

DAKTRONICS
FL-5000 SERIES DISPLAY

INSTALLATION &
SERVICE MANUAL

P2311

DD5042067
Rev 05
08 September 2025

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

Warning: Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of sign electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

Warning: Risk of fire or electric shock. Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign

Warning: Risk of fire or electric shock. Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts.

Warning: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

Inquiries

Contact Daktronics with any questions regarding our product compliance.

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1 Introduction

This manual provides installation and service information for Daktronics FL-5000 Series Displays.

Please read and understand all steps in this manual before beginning the installation process. Complete the steps in this manual in order. Contact Daktronics Technical Support with any questions before or during the installation process.

Find installation and troubleshooting videos at www.youtube.com/daktronicsupport.

Limitation of Liability

The factory warranty will be nullified if:

- The display is not installed according to the steps in this manual.
- Proper electrical service is not provided.
- Unauthorized modifications are made to the display, display cabinet, or the control system.

Refer to **Appendix B: Daktronics Terms and Conditions of Extended Service (p.23)**.

Display Overview

Display model numbers are defined as follows:

FL-5000-HH-R-DI		
FL-5000	=	Product Series
HH	=	Digit Height in Inches
A, B, G, R, W	=	Color (A= Amber, B = Blue, G = Green, R = Red, W= White)
DI	=	Drop In

Note: The model number is listed on a label located inside the display.

FL-5000 series displays are part of a family of Daktronics products designed for easy installation, readability, and reliability. In the United States, the displays employ a 9/10 fraction. Refer to **Figure 1**. Outside of the United States, displays will typically use a full fourth digit instead of a fraction.

The drop-in displays are designed for installation in an existing or custom sign structure. FL-5000 series display cabinets, specially developed for outdoor use, are constructed of heavy-gauge aluminum. LED modules are black and are set directly into the surface of the display.

Amber, blue, green, red, or white LEDs are used to illuminate digits in different font styles.

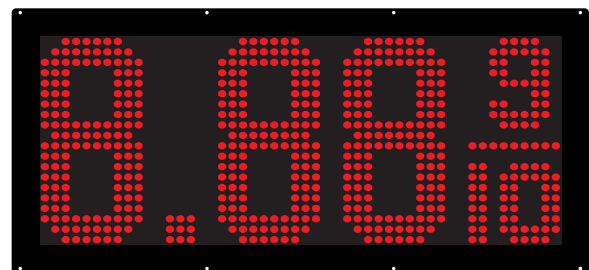


Figure 1: Example Price with Fraction

A typical display system is shown in **Figure 2**.

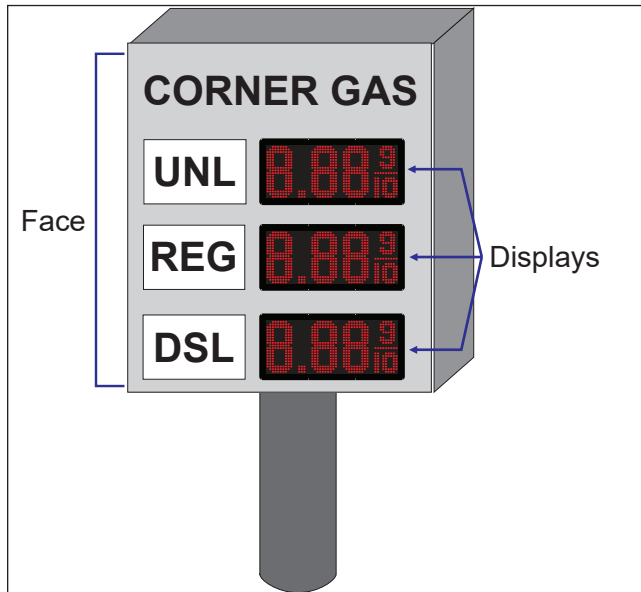


Figure 2: Face with FL-5000 Displays

Safety Precautions

- Please read and understand installation instructions before installing.
- Do not disassemble control equipment or electronic components of the display; failure to follow this safeguard will void the warranty.
- Disconnect display power before servicing power supplies to avoid electrical shock.

2 Mechanical Installation

Important Notes:

- Read and understand these instructions before installing the display.
- Do not drop the transmitter/controller or allow it to become wet.
- Disconnect power when servicing or not using the display.
- Do not modify the display structure or attach any panels or coverings without the express written consent of Daktronics, Inc.

Sign Structure Design

- Structure design is critical and should be done only by a qualified individual.
- It is the customer's responsibility to ensure that the sign structure and the connectors are adequate.
- The customer must also ensure the installation meets local standards.
- Daktronics is not responsible for installations, the mounting structure or its structural integrity, or for the quality of the mounting hardware used to attach the displays to the support structure. Structure and attachment must conform to all applicable local and national building codes.

Ventilation and Temperature Requirements

FL-5000 series displays are front ventilated. The display must NOT be fully enclosed inside a sign structure or behind a sign face of plastic, glass, or other material. The front of the display must be exposed to the air to allow for convection cooling.

FL-5000 series displays are designed to operate in ambient temperatures ranging from -40°F to 120°F (-40°C to 49°C). However, overall sign structure design and ventilation should keep the display cabinet interior below 140°F (60°C).

Items to consider when designing a sign package to house LED price displays include:

- Solar gain from the black face of the displays
- Solar gain from other sign cabinet surfaces
- Heat gain from electronics inside the displays
- Passive or active airflow with adequate intake and exhaust areas

Daktronics is not responsible for high-temperature failure due to inadequate ventilation.

Display Installation

1. Provide a rectangular opening in the sign structure to accommodate the display. Refer to the **Shop Drawing** for cutout dimensions.
2. Ensure there is a continuous minimum depth of 2.5" (64 mm) within the cutout to accommodate the body of the display.
3. Lift displays and install into the sign structure. **Figure 3** shows a display being inserted into a sign structure.

Note: Daktronics assumes no liability for display damage or injury resulting from incorrect setup or incorrect lifting methods.

4. Using the holes in the front flanges of the cabinet as a guide, drill through the flanges into the structure.
5. Attach the display to the structure using appropriate hardware for site conditions. Refer to **Figure 4**. Actual site demands will dictate variances and appropriate mounting methods.

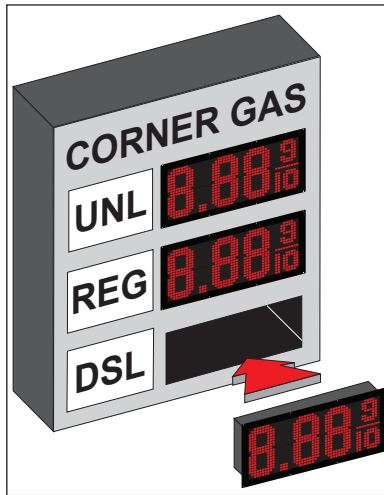


Figure 3: Inserting Display Into a Sign Structure

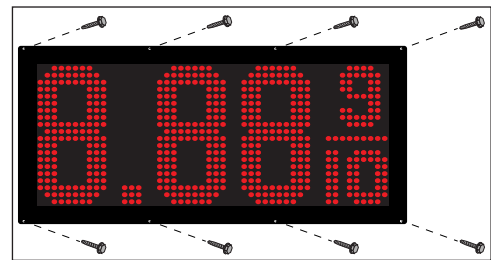


Figure 4: Secure Display in Sign Structure

6. Repair and seal any unused openings in the sign structure.

Note: Openings in the structure greater than 1/2" (13 mm) in diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk.

3 Electrical Installation

Electrical installation consists of routing power to the power termination pigtails located in each display face.

Each **Shop Drawing** shows details on installation and access for electrical connections. Refer to the notes on the appropriate **Shop Drawing** for the electrical requirements for that size of display.

The modules in FL-5000 series displays are removable. Labels on the rear of the display signify locations to drill pilot holes for power/signal in and signal out. Remove the corresponding modules to access the signal/power termination panel inside the display. Refer to **Power Installation (p.6)** for cabinet access details.

Warnings and Disclaimers

- Ensure that all electrical work meets or exceeds all local or national electrical codes.
- Provide the required power to the display as listed on the product labels, specifications, or site-specific riser drawings. The conductor size may vary based on the length of the power run.
- Consider implementing a separate circuit for the display using an isolation transformer or dedicated transformer.
- Daktronics assumes no liability for any issues caused by line voltage fluctuations or other improper power conditions.

Important Notes:

- Only qualified individuals should perform power and signal routing to the display and termination at the display.
- Daktronics engineering staff must approve all proposed changes, or the warranty will be void.
- Improper installation could result in serious damage to the equipment and could be hazardous to personnel.
- Size conductors of circuits delivering power to a Daktronics display according to local and national electrical codes so that the power distribution systems can deliver full-load power to the display while maintaining a voltage within 5% of the utility nominal voltage.

Power Requirements

Do not connect displays to any voltage other than that listed on the display product label. FL-5000 series displays have a voltage input of 100-277 VAC and a frequency input of 50/60 Hz.

- The dedicated circuit can be shared among all components of the sign structure (including FL-5000 series displays and fluorescent lighting), but not with other external electrical devices (such as air compressors or island lighting).
- A dedicated circuit is defined as one hot, one neutral, and one ground wire.
- Maximum amperage varies with the number and type of digit displays connected.

Note: It is critical that the display circuit be fused at 15 A and that all conductors used must be designed to pass a 15 A current in normal operation. Failure to meet wiring and over-current protection device requirements may violate local and national electrical codes and will void the display warranty.

Main Disconnect

Daktronics requires installation of a power disconnect switch with the display so all ungrounded conductors can be disconnected near the point of power connection.

Locate the disconnect switch either in a direct line of sight from the display or so it can be locked in the open position. This ensures that power is not reconnected while service personnel work on the display.

Grounding

FL-5000 series displays do not require a local earth ground electrode.

The displays are designed so the most sensitive components are isolated and a local earth ground electrode is not required and is no longer recommended.

The displays still require a safety ground from the electrical service panel for the primary power wires to comply with national electric codes.

Please note that local earth ground electrode requirements for other Daktronics products remain unchanged.

Power Installation

Install Daktronics FL-5000 series displays using a two wire plus ground circuit. Do not connect neutral to ground at the disconnect or at the display; this would violate electrical codes and void the warranty. Use a disconnect so that all ungrounded conductors can be disconnected.

To connect power to the display:

1. Remove the top-left module by inserting a 1/8" Allen wrench into the latch access hole toward the top-center of the module and gently turning counter-clockwise. Refer to **Figure 5**.
2. Carefully tilt the module away from the cabinet and lift up and out.
3. Disconnect the power and signal out plugs from the module and carefully set it out of the way.
4. Use a 5/16" nut driver to loosen the nut securing the power termination cover shown in **Figure 6**. Slide the cover to the right, and lift it off the keyhole.

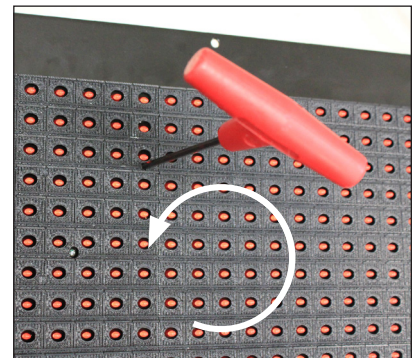


Figure 5: Module Access



Figure 6: Power Termination Cover

5. Locate the rear pilot holes next to the **SIGNAL IN/POWER IN** label. Refer to **Figure 7**. Drill out the power entrance location for conduit connection and wire routing.
6. Use wire nuts or other appropriate hardware to connect incoming power wires – hot (black), neutral (white), and ground (green) – to the matching wire colors coming from the power supply. Refer to **Figure 8**.

Note: Smaller 6-16" displays use a power supply wire color scheme of hot (brown) and neutral (blue).



Figure 7: Rear Power/Signal Knockouts

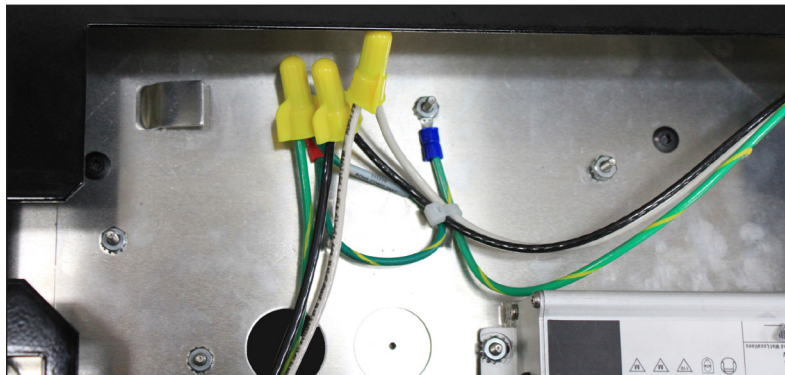


Figure 8: Power Termination

Note: Power may be daisy-chained out from the first display termination location to the second display, and from the second to the third, and so on.

7. Replace the power termination cover and use a 5/16" nut driver to tighten the nut.
8. Reinstall the top-left module by inserting a 1/8" Allen wrench into the latch access hole toward the top-center of the module and gently turning clockwise until the internal latch clicks into the locked position.

4 Line-to-Line Cable Installation

Replacing FL-3000/4500 Displays

WARNING!

When upgrading a sign structure from FL-3000/4500 to FL-5000 displays, **DO NOT** reuse the existing line-to-line cables! The older cables have different connector pinouts that will damage new FL-5000 modules and void the display warranty. Follow the instruction as shown in Figure 9.

Display Interconnect Wiring

Signal travels from the last module in the signal chain of the first display cabinet to the first module in the second display cabinet.

1. Locate and remove the last module in the signal chain of the first display. Look for the **SIGNAL OUT** label on the rear of the cabinet. Refer to Figure 10.

Note: For displays with an **even** number of columns of modules, the last module in the signal chain is in the **upper-left** corner (as viewed from the rear). For displays with an **odd** number of columns, the last module is in the **lower-left** corner.

2. Drill out the rear entrance location for line-to-line cable routing.
3. Connect the provided line-to-line cable shown in Figure 11 to **PORT B SIGNAL** on the last module in the signal chain of the first cabinet.
4. Route the provided line-to-line cable from the last module of the first cabinet to **PORT A SIGNAL** on the first module of the next cabinet.
5. Repeat **Steps 1–4** until all displays are connected.

Note: The last display will have an open **PORT B SIGNAL** jack on its last module.

6. Reinstall all removed modules.

Refer to Figure 12 for an example wiring diagram showing internal and on-site connections of a 2x2 display with two prices and two faces. Note that there is an even number of columns of modules, so the last module in the signal chain is in the upper-right corner (as viewed from the front). This would be similar for 2x4 displays.

Refer to Figure 13 for an example wiring diagram showing internal and on-site connections of a 3x3 display with two prices and two faces. Note that there is an odd number of columns of modules, so the last module in the signal chain is in the lower-right corner (as viewed from the front). This would be similar for 3x5 and 6x5 displays.

WARNING!
**DO NOT RE-USE
SIGNAL CABLES
FROM FL-3000
DISPLAYS!**

DOING SO WILL DAMAGE FL-5000
DISPLAYS, VOIDING THE WARRANTY.

CUT THE CONNECTORS OFF THE
OLD CABLES TO PREVENT THEIR USE.

Figure 9: Cable Warning



Figure 10: Signal Out Knockout



Figure 11: Line-to-Line Cable

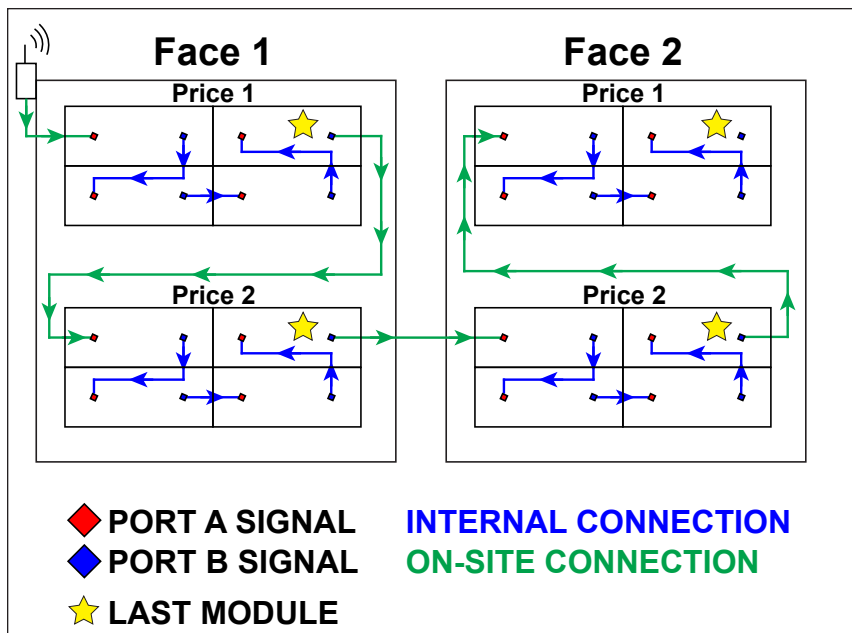


Figure 12: Line-to-Line Connection - Even Columns Wide (Front Views)

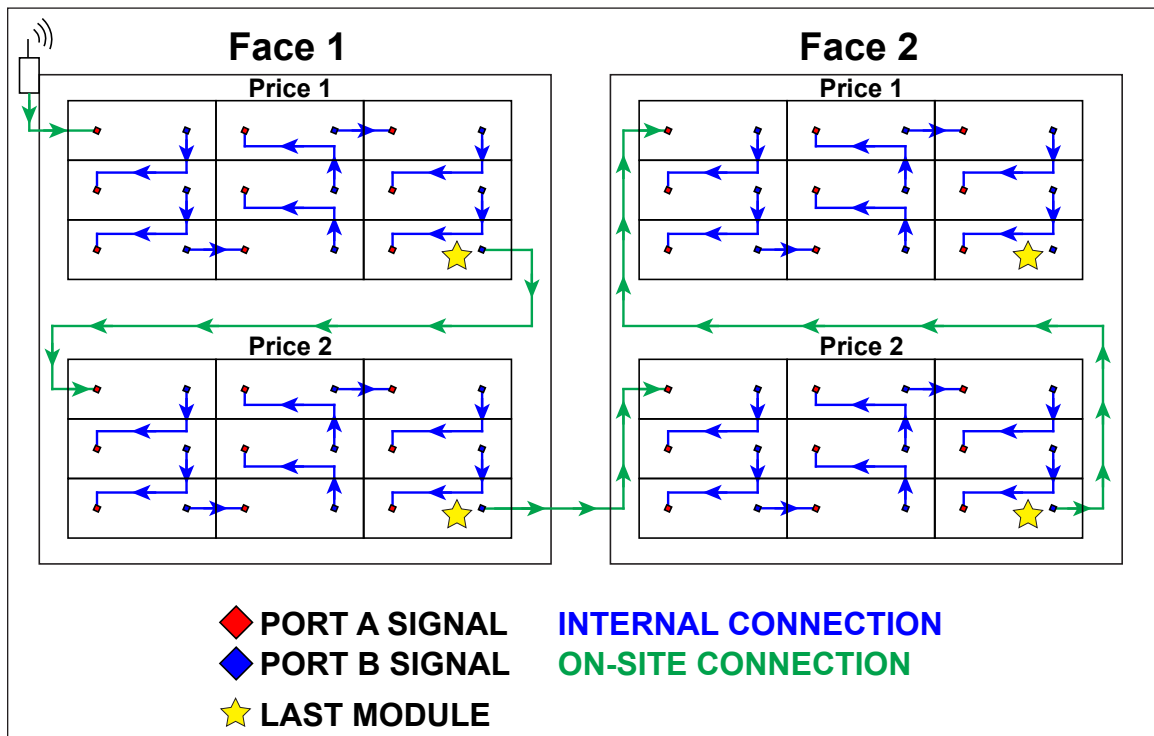


Figure 13: Line-to-Line Connection - Odd Columns Wide (Front Views)

Notes:

- Route cables at least 6" (152 mm) away from interfering sources like ballasts, florescent light bulbs, power sources, any type of motor, etc.
- Pull excess cable into the display cabinet, coil cable, zip tie it together, and carefully place coil inside the display cabinet.

5 Control Options Setup

Refer to the quick guides provided with display communications for more information on signal installation.

Quick Guide	Document Number
FLR5-400 Installation Quick Guide	DD4906804
Fuelink 5 Installation Quick Guide	DD5403694

Find communication installation videos at www.youtube.com/daktronicssupport.

6 Maintenance and Troubleshooting

Important Notes:

- Visit Daktronics Support videos at www.youtube.com/daktronicssupport.
- Disconnect power before any repair or maintenance work is done on the display.
- Only qualified service personnel should access internal display electronics.

Display Troubleshooting

This chart lists some symptoms that may be encountered with the displays. For each symptom, possible causes and corrective actions are indicated. This list does not include every possible problem but does represent some of the more common situations that may occur.

Symptom/Condition	Possible Cause	Possible Solution
Entire display and/or face will not enter boot cycle on power up	Power incorrectly installed	Connect power as described in Section 3: Electrical Installation (p.5) .
Multiple-line sign with all lines showing the same prices, or data appears on the wrong line	Display line addressing not set correctly	Set a different line number for each display on each face. Refer to the communications quick guides to set correct display address.
Garbled display	Display needs to be reconfigured	Reconfigure the display. <ul style="list-style-type: none"> • For FLR5-400, refer to the Configure section of the FLR5-400 Installation Quick Guide (DD4906804). • For Fuelink 5, refer to the Detect Displays section of the Fuelink 5 Installation Quick Guide (DD5403694).
	Module malfunction	Check module to make sure signal cables are routed correctly.
		Cycle power to the display.
Several LEDs will not light	Poor contact at module connection	Clean the contacts or replace the harness.
	Broken or disconnected cable between modules.	Replace the cable.
	Broken LEDs	Replace the module.
Display shows a default price	The price has not changed	Use the control method to set the price on the display.



Real-Time Module Diagnostics



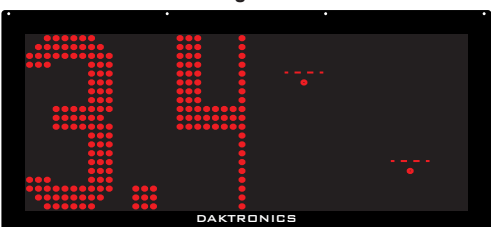

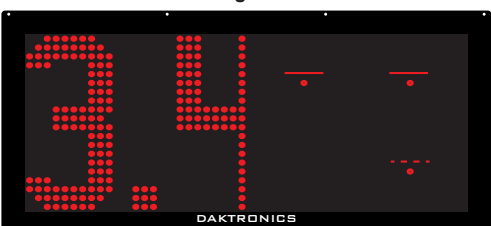
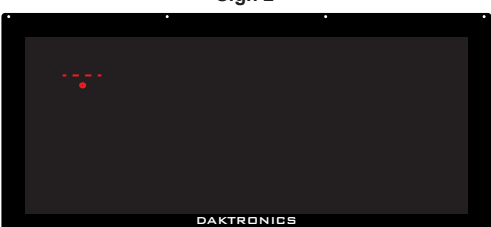
FL-5000 “smart” modules self-detect failures with diagnostic LEDs. The number of LEDs that display and whether they are solid on or blinking indicates the failure mode and location.


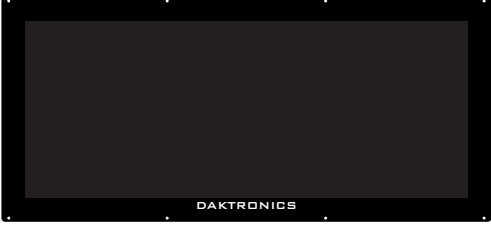


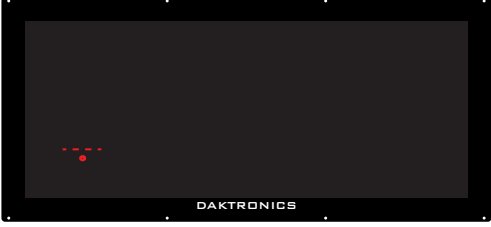

- Both LEDs solid on = Critical error; replace the module.
- Left LED blinking = Loss of communication, but port A is good. Either a cable is unplugged/bad or previous module port B is bad. If previous module port B is blinking, replace the cable. If previous module port B is solid on, replace the previous module and the cable.
- Right LED blinking = No communication beyond this module, but port B is good. If next module port A is blinking, replace the cable. If next module port A is solid on, replace the next module and the cable.
- Left LED solid on = Loss of communication, port test failed; bad module or cable.
- Right LED solid on = No communication beyond this module, port test failed; bad module or cable.
- Blank modules between blinking LEDs = Power supply is unplugged/bad.

Notes:

- If the display shows a Real-Time failure, cycle power to the displays to override the blanking and show content once again.
- The example images below show displays with 4 modules each; total module numbers will vary depending on display sizes.

Display Behavior	Failure Description/Resolution
<p>Sign 1</p>  <p>Sign 2</p>  <p>Solid On ——— Blinking - - - - Module (#)</p>	<p>Loss of signal between modules 4–5.</p> <p>If able to troubleshoot: Unplug signal from right side of module 4 and cycle power to the module. If LED changes from solid on to blinking, replace the cable. If LED remains solid on, replace the module.</p> <p>If unable to troubleshoot: Replace the module and the cable.</p>

Display Behavior	Failure Description/Resolution
<p>Sign 1</p>  <p>① ② ③ ④</p> <p>Sign 2</p>  <p>⑤ ⑥ ⑦ ⑧</p> <p>Solid On — Blinking - - - Module #</p>	<p>④ Loss of signal to first module = no signal received from controller.</p> <p>③ If able to troubleshoot: Check cable from receiver to module 1.</p> <p>If unable to troubleshoot: Replace receiver and cable.</p>
<p>Sign 1</p>  <p>① ② ③ ④</p> <p>Sign 2</p>  <p>⑤ ⑥ ⑦ ⑧</p> <p>Solid On — Blinking - - - Module #</p>	<p>④ Loss of signal between modules 3–4.</p> <p>③ If able to troubleshoot: Check cable between modules 3–4.</p> <p>If unable to troubleshoot: Replace cable.</p>
<p>Sign 1</p>  <p>① ② ③ ④</p> <p>Sign 2</p>  <p>⑤ ⑥ ⑦ ⑧</p> <p>Solid On — Blinking - - - Module #</p>	<p>④ Module 4 has both LEDs solid on = bad module.</p> <p>③ Replace module 4.</p>

Display Behavior	Failure Description/Resolution
<p style="text-align: center;">Sign 1</p>  <p style="text-align: center;">Sign 2</p>  <p style="text-align: center;">Sign 3</p>  <p style="text-align: center;">Solid On ——— Blinking - - - - Module (#)</p>	<p>Module 3 right LED blinking, module 9 left LED blinking, and modules in between not showing any LED activity = modules/display lost power.</p> <p>Check power connections to/between displays.</p>
<p style="text-align: center;">Sign 1</p>  <p style="text-align: center;">Sign 2</p>  <p style="text-align: center;">Solid On ——— Blinking - - - - Module (#)</p>	<p>Module 4 right LED blinking and module 6 left LED blinking = module 5 has on-board power issue.</p> <p>Loopback tests on modules 4 and 6 will pass. Verify power cables are properly connected; if issue persists, replace module 5.</p>
	<p>Module 4 displays a left-pointing arrow = backwards signal cable connection.</p> <p>Connect signal IN cable to Port A, and connect signal OUT cable to Port B.</p>

Startup Error Codes

On startup, each module will check for hardware errors and cycle through all error codes during the power-up sequence. These codes are found below. Their description, possible causes, and things to check before engaging service are also listed. These codes can be given to Help Desk technicians to help identify possible failed components for replacement or troubleshooting actions to examine.

Code	Error Type	Description	Action to Take
E1	Temperature Error	Problem detected with the temperature sensor. This could be due to a disconnected, damaged, or faulty sensor, or the temperature reading is outside the normal operating range.	Check that the temperature sensor is properly connected and not damaged. If the error persists, contact Daktronics support.
E2	Light Sensor Error	Problem detected with the light sensor. This may happen if the sensor is blocked, disconnected, or not responding as expected.	Ensure the light sensor is clean and unobstructed. If the error persists, the module may need to be replaced.
E3	EEPROM Error	Problem detected with the system's memory chip, which stores important settings and data. The system may not be able to save or retrieve information correctly.	Restart the system. If the error persists, the module may need to be replaced.
E4	LED Driver (CCD) Error	Problem detected in the communication chain that controls the LED on the reporting module. This could be due to a hardware issue.	Restart the system. If the module is still not working, service may be required.
E5	Heartbeat Communication Error (Grandparent detected non-response)	The system is not receiving regular communication signals from other modules as expected. This may indicate a break in the communication chain. This error will typically appear together with other errors such as E6/E7, or EB/EC.	Check all communication cables and connections between modules. If the error persists, contact Daktronics support.
E6	Port A Communication Error (Loopback Self-Test Failed)	Problem detected with the communication on Port A. This could be due to a bad cable, connector, or port. Module diagnostics would display as shown on p.12 .	Inspect and reseat the cable on Port A. Replace the cable if necessary.
E7	Port B Communication Error (Loopback Self-Test Failed)	Problem detected with the communication on Port B. This could be due to a bad cable, connector, or port. Module diagnostics would display as shown on p.12 .	Inspect and reseat the cable on Port B. Replace the cable if necessary.

Code	Error Type	Description	Action to Take
E9	Serial Flash Error	The system cannot communicate with the storage chip used for fonts or other data. This may affect display content.	Restart the system. If the error persists, the module may need to be replaced.
EA	Hardware ID Error	The system has detected an invalid or missing hardware identification code. This may indicate a hardware mismatch or a faulty module.	If the error persists, contact Daktronics support.
EB	Port A Communication Error (Loopback Self-Test Passed)	Port A has been detected as disconnected or not communicating. Module diagnostics would display as shown in the second example on p.13 .	Check the cable and connection for Port A. Reconnect or replace as needed. This is unlikely to be a module hardware issue.
EC	Port B Communication Error (Loopback Self-Test Passed)	Port B has been detected as disconnected or not communicating. Module diagnostics would display as shown in the second example on p.13 .	Check the cable and connection for Port B. Reconnect or replace as needed. This is unlikely to be a module hardware issue.

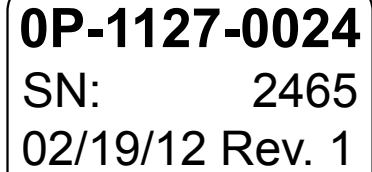
7 Replacement Parts

Important Notes:

- Disconnect power before any repair or maintenance is done on the display.
- Only qualified service personnel should access to internal display electronics.
- Disconnect power when the display is not in use.
- The electrician installing the displays must provide some parts required for installation such as screws, wire nuts, electrical tape, etc. Daktronics does not provide these items.

Most display components have a white label that lists the part number in bold as shown in **Figure 14**. Part numbers may also appear on illustrations and reference drawings as well as in the Bill of Materials (BOM) for the project. If a replacement part cannot be identified, contact Daktronics Customer Service.

Refer to **Section 8: Daktronics Part Replacement Programs (p.18)** if replacing or repairing any display component.

A white rectangular label with a black border containing the following text:

0P-1127-0024
SN: 2465
02/19/12 Rev. 1

Figure 14: Example Part Label

8 Daktronics Part Replacement 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. Contact Daktronics Customer Service.

Visit www.daktronics.com/mysupport/help to create a MySupport account, or call customer service if there are any issues with the MySupport portal:

- United States & Canada: 1-800-DAK-TRON (325-8766)
- Outside the United States & Canada: +1-605-275-1040

2. Mail the old part to Daktronics after receiving the new exchange part.

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.

Daktronics will charge for the replacement part immediately, unless a qualifying service agreement is in place. In most cases, the replacement part will be invoiced at the time it is shipped.

3. Return the part within 30 working days if the replacement part does not solve the problem, or Daktronics will charge the full purchase price.

If the part is still defective after the exchange is made, please contact Daktronics Customer Service immediately. Daktronics expects immediate return of an exchange part if it does not solve the problem. Daktronics also reserves the right to refuse parts that have been damaged due to acts of nature or causes other than normal wear and tear.

Repair and Return Program

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

1. Contact Daktronics Customer Service.

Refer to the customer portal address listed on the previous page.

2. Receive a case number before shipping.

To receive a case number, create a MySupport account on the Daktronics website, or contact a services coordinator via the phone number listed on the previous page.

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
- Case number
- Clear description of symptoms

Shipping Address

Daktronics Customer Service
Case #
600 E 54th St N
Sioux Falls, SD 57104


Daktronics Terms and Conditions of Extended Service

The Daktronics Terms and Conditions of Extended Service document is located at the end of this manual. This document is the authority in matters of service, repair, and display operation.

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A Reference Drawings

Figure 15 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.

		DAKTRONICS, INC. BROOKINGS, SD 57006		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.	
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 15: Drawing Label

- When viewing a digital version of this manual, simply click a link below to open it.
- When referencing the printed version of this manual, open an Internet browser and go to **www.daktronics.com/web-documents/Drawings/#####.pdf**, (where "#####" is a 7-digit number shown below).

Project-specific documents take precedence over those listed in this section. To obtain copies of drawings specific to your display, contact Daktronics Customer Service:

United States & Canada: 1-800-DAK-TRON (325-8766)

Outside the U.S. & Canada: +1-605-275-1040

Shop Drawings

Shop; FL-5XXX, 6" Digit (1x1-6" Mods)	DWG-4934091
Shop; FL-5XXX, 8" Digit (1x1-8" Mods)	DWG-4934092
Shop; FL-5XXX, 12" Digit (2x2-6" Mods)	DWG-4934093
Shop; FL-5XXX, 16" Digit (2x2-8" Mods)	DWG-4934094
Shop; FL-5XXX, 18" Digit (3x3-6" Mods)	DWG-4934095
Shop; FL-5XXX, 20" Digit (2x4-10" Mods)	DWG-4934096
Shop; FL-5XXX, 25" Digit (3x3-8" Mods)	DWG-4934097
Shop; FL-5XXX, 36" Digit (6x5-6" Mods)	DWG-4934099
Shop; FL-5XXX, 48" Digit (6x5-8" Mods)	DWG-4934100
Shop; FL-5XXX, 30" Digit (3x5-10" Mods)	DWG-5007100
Shop; FL-5XXX, 6" Digit (1x2-6" Mods)	DWG-5007101

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B Daktronics Terms and Conditions of Extended Service

This section includes the **Daktronics Terms and Conditions of Extended Service (DD5459759)**.

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This document provides the limited equipment warranty provided by Daktronics with the purchase of Equipment. It further details the terms and conditions of any Extended Services which may be purchased with the original sale of the Equipment. By accepting delivery of the Equipment, Purchaser and End User agree to be bound by and accept these terms and conditions.

SECTION I LIMITED WARRANTY

This Limited Warranty applies to all Equipment manufactured by Daktronics except such Equipment expressly subject to the Consumable Part Warranty which is denoted in the Equipment description as "CP Warranty" or elsewhere in the sales agreement. The Limited Warranty is subject to this Section I and the Terms and Conditions of Section IV.

Daktronics warrants to the End User that the Equipment will be free from Defects in materials and workmanship during the Limited Warranty Period. The Limited 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. Unless a longer statutory period is required which cannot be modified by agreement of the parties, the Limited Warranty Period shall expire on the first anniversary of the commencement date.

Daktronics' obligation under the Limited 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 at End-User's cost, for repair or replacement. All such items shall be shipped by End User DAP Daktronics designated facility per Incoterms® 2020. This Warranty does not include on-site labor charges to remove or install these components. However, 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.

All returns must be pre-approved by Daktronics before shipment. Daktronics shall not be obligated to pay freight for any unapproved return. If returned Equipment/part is repaired or replaced under the terms of this Limited Warranty, Daktronics will prepay ground transportation charges to ship such items DAP End User's designated facility (if Daktronics has a legal entity in the country of the End User) or a port of the End User's country (where Daktronics does not have a legal entity in the country of the End User) per Incoterms® 2020. If the returned Equipment/part is not found to be defective, the End User shall pay transportation charges to return the Equipment/part back to the End User and such Equipment/part shall be shipped Ex Works Daktronics designated facility per Incoterms® 2020. End User shall pay any upgraded or expedited transportation charges.

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 Limited Warranty Period. Purchasing additional parts or Equipment from Daktronics does not extend the Limited Warranty Period.

EXCEPT AS OTHERWISE EXPRESSLY SET FORTH IN THIS LIMITED 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.

SECTION II

CONSUMABLE PARTS - LIMITED WARRANTY

This Consumable Parts Limited Warranty applies all Daktronics manufactured Equipment expressly subject to the Consumable Parts Warranty which is denoted in the Equipment description as "CP Warranty." The CP Warranty is subject to this Section II and the Terms and Conditions of Section IV.

Daktronics warrants to the End User that the Equipment will be free from Defects in materials and workmanship for a period of one (1) year (the "CP Warranty Period"). The CP Warranty Period shall commence on the earlier of: (i) four weeks from the date that the Equipment leaves Daktronics' facility; or (ii) upon Substantial Completion, as defined herein, provided Daktronics has the obligation to install the Equipment. Unless a longer statutory period is required which cannot be modified by agreement of the parties, the Warranty Period shall expire on the first anniversary of the commencement date.

Daktronics' obligation under this Warranty is limited to providing a spare parts package with the Equipment delivery. The spare parts package is designed to exhaust over the life of the CP Warranty Period. Any defective part or component may be replaced with those parts provided in the spare parts package. This Warranty does not include on-site labor charges to remove or install these components nor does it include, except as expressly provided in this Section II, the repair or return of any defective component. Daktronics may, at its option, provide on-site warranty service.

The spare parts package does not include replacement control equipment. In the event the control equipment fails to conform to its specifications during the CP Warranty Period, the defective control equipment may be returned to Daktronics for repair or replacement. 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.

In the event that the End User's spare parts package depletes prior to the expiration of the CP Warranty Period, End User may submit to Daktronics a detailed report of all repair and maintenance services performed on the Equipment for review by Daktronics. Daktronics may, at its discretion, request the End User to return all defective parts to Daktronics for review and analysis. If Daktronics determines that the spare parts package depleted at an unexpectedly high rate due to defective components or spare parts, then Daktronics may either repair the returned parts or send additional spare parts to the End User to support the Equipment through the CP Warranty Period. At the expiration of the CP Warranty Period, End User shall be responsible for the proper disposal of all defective parts, unless such parts are returned to Daktronics in accordance herewith.

All returns must be pre-approved by Daktronics before shipment. Daktronics shall not be obligated to pay freight for any unapproved return. All items shall be shipped by End User DAP Daktronics designated facility per Incoterms® 2020. If returned Equipment/part is repaired or replaced under the terms of this CP Warranty, Daktronics will prepay ground transportation charges to ship such items DAP End User's designated facility (if Daktronics has a legal entity in the country of the End User) or a port of the End User's country (where Daktronics does not have a legal entity in the country of the End User) per Incoterms® 2020. If the returned Equipment/part is not found to be defective, the End User shall pay transportation charges to return the Equipment/part back to the End User and such Equipment/part shall be shipped Ex Works Daktronics designated facility per Incoterms® 2020. End User shall pay any upgraded or expedited transportation charges.

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 CP Warranty Period. Purchasing additional parts or Equipment from Daktronics does not extend the CP Warranty Period.

EXCEPT AS OTHERWISE EXPRESSLY SET FORTH IN THIS CP 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, ACCURACY OR QUALITY OF DATA. NO ORAL OR WRITTEN INFORMATION, OR ADVICE GIVEN BY THEDAKTRONICS, ITS AGENTS OR EMPLOYEES, SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS CONSUMABLE PARTS WARRANTY. THIS LIMITED WARRANTY IS NOT TRANSFERABLE.

SECTION III EXTENDED SERVICE COVERAGE

The Extended Service Coverage is subject to this Section III and the Terms and Conditions of Section IV.

1. Extended Services Coverage. The scope of the Extended Services covers the Equipment and includes those services defined on Attachment A, SCOPE OF SERVICES or in Section A. Equipment of Daktronics quote (excluding maintenance services which are the responsibility of End User as defined on Attachment A or services which may be purchased for an additional fee) (the "Extended Services"). Response Times are defined on Attachment A.
2. Term. Unless otherwise stated in the Sales Agreement, the Extended Services shall begin upon Substantial Completion and shall expire in accordance with the term described in the Sales Agreement.
3. Conditions Precedent. Daktronics reserves the right to suspend its performance in the event: (a) payment for the Equipment or Extended Services are not made as required by the Sales Agreement, (b) the Equipment is not maintained within the recommended environmental conditions, including but not limited to appropriate ventilation/air conditioning for its location (Air conditioning systems must be maintained according to manufacturer's specifications), (c) the preventative maintenance, not otherwise included with the Extended Services, is not completed, or (d) You fail to perform any other obligation including, without limitation, complying with the terms of any software agreement between End User and Daktronics.
4. Spare Parts Package. In the event the Equipment was purchased with a spare parts package, the Purchaser and/or End User 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 package is not included in the scope of the Extended Services.
5. Actions that Void the Services. Daktronics shall be under no obligation to continue Extended Services if the Equipment or Software is: (a) moved from its location of initial installation or reinstalled without the prior written approval of Daktronics (unless the equipment was designed by Daktronics to be mobile), or (b) improperly repaired or altered by a party not under Daktronics control and in a manner inconsistent with the Equipment manufacturer's standards or recommendations.
6. Service Providers. Daktronics may select the service providers delivering Extended Services on behalf of Daktronics at its reasonable discretion.
7. Shipping. All returns must be pre-approved by Daktronics before shipment. When returning parts to Daktronics for repair or replacement, You assume all risk of loss or damage, agree to use any shipping containers, which might be provided by Daktronics, and agree to ship the Equipment in the manner prescribed by Daktronics. Daktronics shall not be obligated to pay freight for any unapproved return. All items shall be shipped by End User DAP Daktronics designated facility per Incoterms® 2020. If returned Equipment/part is repaired or replaced under the terms of this CP Warranty, Daktronics will prepay ground transportation charges to ship such items DAP End User's designated facility (if Daktronics has a legal entity in the country of the End User) or a port of the End User's country (where Daktronics does not have a legal entity in the country of the End User) per Incoterms® 2020. If the returned Equipment/part is not found to be defective, the End User shall pay transportation charges to return the Equipment/part back to the End User and such Equipment/part shall be shipped Ex Works Daktronics designated facility per Incoterms® 2020. End User shall pay any upgraded or expedited transportation charges.
8. Access to the Equipment. The unfettered, solid, safe and unrestricted access to the Equipment (including, if requested, any installed Software) shall be provided taking into account environmental or site conditions. Unless otherwise specified on Attachment A, the End User shall be required to provide any lifts or access equipment. Additional equipment or personnel required for safety, as determined by Daktronics in its reasonable discretion, shall be billed separately on a time and material basis.
9. Adverse Conditions. In no event shall Daktronics be obliged to perform Services during the existence of Adverse Conditions. 'Adverse Conditions' include without limitation, the following: severe inclement weather, hazardous site conditions including the actual or suspected presence of hazards or contagions likely to cause death, illness, or physical

harm, or infestations of animals or dangerous insects, saturated ground conditions, or residence or occupation by unauthorized personnel. The determination of a site condition as an Adverse Condition shall be at the reasonable discretion of Daktronics. Inaccessibility due to Adverse Conditions will exempt a location from Extended Services Coverage until such time as the Equipment becomes safely accessible once again.

10. Default. Daktronics reserves the right to terminate the Extended Services and accelerate all amounts due and payable if: (a) Purchaser fails to make payment to Daktronics within ten days of the agreed payment dates, (b) You otherwise fail to comply with any material provision of this Service Agreement, or (c) any proceeding is filed by or against You in bankruptcy. Daktronics reserves all its rights (both legal and equitable) under the Agreement, applicable statutes, and the common law. If You fail to perform any covenant or obligation under this Extended Services coverage, Daktronics shall be excused from the performance of any of its obligations hereunder.
11. No Warranty. Daktronics makes no representations or warranties under the Extended Service Coverage.

SECTION IV TERMS AND CONDITIONS OF COVERAGE

The terms and conditions of this Section IV apply to the Warranty and Extended Services provided by Daktronics.

1. Definition. Capitalized terms used herein shall have the meanings set forth below:

“Coverage” means any applicable Warranty coverage or Extended Services coverage.

“Coverage Period” means the period of time when either a Warranty Coverage or an Extended Service Coverage is in effect per the terms of the Agreement.

“Defects” shall be defined as follows: with regard to the Equipment (excepting LEDs), a “Defect” shall mean a material variance from the design specifications that prohibits the Equipment from operating for its intended use; and with regard to LEDs, “Defects” means LED pixels that cease to emit light.

“End User” means the original end user of the Daktronics Equipment.

“Equipment” (and Software) means the Daktronics manufactured equipment detailed in the Sales Agreement.

“Extended Services” – means additional service coverage as described in Section IV in accordance with the Sales Agreement. The Extended Services may run concurrently with the applicable Warranty or may extend beyond the Warranty Period.

“Force Majeure Event” means any: act of God; natural disaster such as flood, fire, hurricane, earthquake, or other casualty; labor or material shortages or other types of industrial disturbance; quarantines or epidemics; national or regional emergencies; or any other events or circumstances not within the reasonable control of Daktronics, whether foreseeable or not, and whether similar or dissimilar to any of the foregoing.

“Limited Warranty” – means that warranty provided in Section I and applicable to all Equipment manufactured by Daktronics except that Equipment that denotes “CP Warranty” in the Equipment description found in the Sales Agreement.

“Purchaser” means the person or entity that enters into the Sales Agreement for the purchase of Daktronics Equipment. The Purchaser may or may not be the End User.

“Regular Working Hours” means 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 either End User or Daktronics.

“Sales Agreement” means the contractual documents entered into between Daktronics and the Purchaser for the purchase of Daktronics Equipment. The Sales Agreement may take many forms including without limitation an executed Daktronics

quote; contract agreement executed by both parties, or a purchase order issued by the Purchaser and accepted by Daktronics.

“Consumable Parts Warranty” or “CP Warranty” – means that warranty provided in Section II

“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

“Warranty” – means either the Limited Warranty (Section I) or the CP Warranty (Section II) as applicable

“You” (i) in the case of the Limited Warranty of the Consumable Parts – Limited Warranty, means the End User; and (ii) in the case of Extended Service Coverage, means the Purchaser of the Extended Services until the Extended Services are assigned to the End User, at which time it refers to the End User.

2. Replacement Parts. 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 Coverage Period.
3. Cooperation. End User shall fully cooperate with Daktronics in connection with the service of the Equipment and Software. You shall promptly notify Daktronics of Equipment and Software failure. Waiver of liability or other restrictions shall not be imposed as a requirement prior to accessing the site.
4. Confidentiality. To the extent permitted by law, Purchaser and End User shall consider all information furnished by Daktronics, including these terms & conditions, to be confidential and shall not disclose any such information to any other person, or use such information itself for any purpose other than fulfillment of its obligations as defined in these terms & conditions unless written permission is first obtained from Daktronics to do so. Purchaser and End User shall provide confidential information only to those of its agents, servants, and employees who have been informed of the requirements of this paragraph and have agreed to be bound by them. The provisions of this paragraph shall survive termination of the Coverage.
5. Limitations of Coverage. The Coverage does not include: (a) service due to: (i) inadequate or improper power, including without limitation a sudden surge of electrical power; (ii) improper handling, care, maintenance, storage or use of the Equipment; (iii) a Force Majeure Event; (iv) environmental conditions outside the Equipment’s technical specifications (including, without limitation excessive temperatures, corrosives, and metallic pollutants); (v) defects or failures occurring during a lapse in Coverage; (vi) incorporation of accessories, attachments, software or other devices or systems not furnished by Daktronics; or (vii) any other cause other than ordinary use; (b) the provision of replacement communication methods (such as wire, metallic or fiber optic cable, conduit, trenching or other solutions) for the purpose of overcoming local site interference; (c) wireless devices or services used for providing wireless connection to the Equipment (wireless devices and services provided by Daktronics are subject to [Daktronics Terms & Conditions of Wireless Service](https://www.daktronics.com/TermsConditions/DD3956286) available at <https://www.daktronics.com/TermsConditions/DD3956286>); (d) LED degradation or ultraviolet (UV) damage (degradation means the LED continues to emit light, but at some lesser level of brightness); (e) paint or refinishing the Equipment or furnishing material for this purpose; (f) pixel failure less than a total of 0.5% of the overall display, or in the case of free form elements, one entire element; (g) electrical work external to the Equipment; (h) batteries; (i) third-party systems and other ancillary equipment including without limitation front-end video control systems, audio systems, video processors and players, HVAC equipment, and LCD screens; (j) the security or functionality of End User’s network or systems, including anti-virus software updates; or (k) 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. Further, in displays manufactured using certain LEDs as indicated by an M or WR (indicating LED type) in the display name, this Agreement does not cover pixel failure after five (5) years. Daktronics shall be excused from any liability for any delay or nonperformance caused by a Force

Majeure Event.

6. Return Items. All items returned to Daktronics must have a Return Material Authorization (RMA) number. For exchange items, the number is included with the shipment of the exchange unit. For repair items, an RMA number can be obtained by phone (800-325-8766), (International +1-605-275-1040), fax (605-697-4444) unless otherwise directed by Daktronics.
7. Indemnity. Daktronics shall indemnify, defend and hold harmless the End User and its subsidiaries, officers, directors, shareholders, partners, employees, agents, insurers, successors and assigns from any third-party claims for liability, losses, damages, costs or expenses (collectively, 'Losses') to the extent that such Losses arise out of: (i) any negligent act or omission by Daktronics or its personnel, agents, subcontractors, or others engaged by Daktronics or under Daktronics' control in the performance of this Service Agreement, provided that such Losses are attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property; or (ii) any fine or assessment with respect to any violation or alleged violation of any applicable laws regarding safety or health.

You shall indemnify, defend and hold harmless Daktronics and its subsidiaries, officers, directors, shareholders, partners, representatives, employees, agents, insurers, successors and assigns of each of the foregoing from any and all Losses arising out of or in any way related to: (i) any negligent act or omission by You or your personnel, agents, subcontractors, or others engaged by You or under your control (other than Daktronics or its personnel, agents, subcontractors, or others engaged by Daktronics or under Daktronics' control), provided that such Losses are attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property; or (ii) any unauthorized or infringing use by an indemnified party of any patent, process, trade secret, copyright, trademark, or other intellectual property right.

8. Limitation of Liability. IN NO EVENT SHALL EITHER PARTY BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES, REGARDLESS OF CAUSE, WHETHER SUCH LOSSES ARISE DIRECTLY OR INDIRECTLY FROM THE OTHER PARTY'S ACTS, OMISSIONS, OR BREACH; REGARDLESS OF WHETHER SUCH DAMAGES WERE FORESEEABLE; WHETHER OR NOT A PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES; WHETHER OR NOT THE REMEDIES AGREED HEREIN FAIL OF THEIR ESSENTIAL PURPOSE; AND REGARDLESS OF THE THEORY UPON WHICH A CLAIM IS BASED. For the purposes of this Agreement, the Parties agree that "Consequential Damages" include, but are not limited to, loss of use, loss of profit, loss of business opportunity, and loss of advertising revenue. No action against Daktronics shall be commenced more than one year after the accrual of the cause of action. Daktronics shall have no liability with respect to claims relating to or arising from use of third-party products and services, even if such products or services are sold through Daktronics.
9. Assignment. Purchaser may assign the Extended Service coverage to the End User, however such assignment does not relive Purchaser of its obligation to pay Daktronics in full for amounts owed under the Sales Agreement. No other assignment shall be effective without the prior written consent of the other party.
10. Miscellaneous. These terms & conditions shall be governed by the laws of the country, state or province where the Services are provided without regard to its conflict of law principles. These terms & conditions are the product of negotiations between the parties and any rules of construction relating to interpretation against the drafter of an agreement shall not apply and are expressly waived. Nothing in these terms & conditions shall create any rights in any person or entity other than the parties hereto. These terms & conditions represent the entire agreement of the parties and supersedes any previous understanding or agreement regarding the Services. These terms & conditions may not be amended or altered in any manner except in a writing signed by both parties. These terms & conditions may be executed in counterparts. You and Daktronics are not partners or joint venturers. If any part of these terms & conditions are in any manner held to be invalid, illegal, void, or to be in conflict with any law, then the validity of the remaining portions or provisions of these terms & conditions shall not be affected, and such part, term, paragraph or provision shall be construed and enforced in a manner designed to effectuate the intent expressed in these terms & conditions to the maximum extent permitted by law.