# TI-2025 & TI-2026 SEGMENT TIMERS DISPLAY MANUAL

P1192

ED-16738 Rev 4 26 June 2018





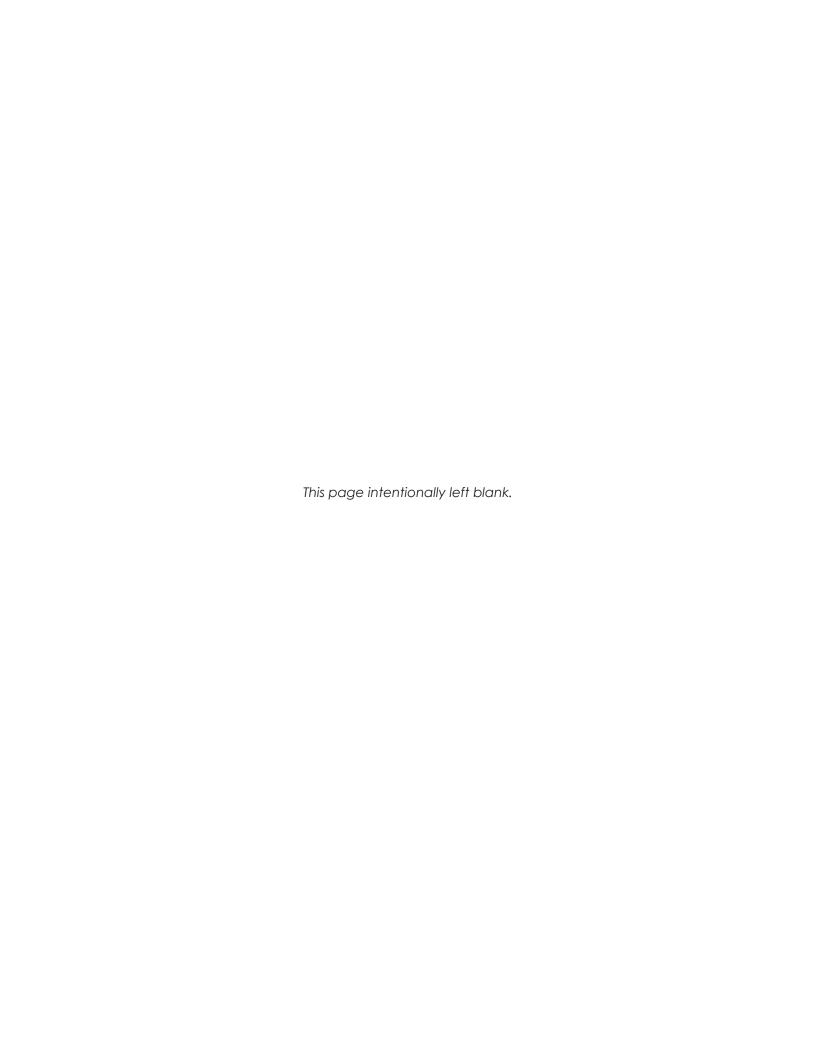
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## 1 Introduction

This manual outlines specifications, operation, and troubleshooting for Daktronics TI-2025 and TI-2026 LED segment timer displays. For additional information regarding the safety, installation, operation, or service of these displays, refer to **Section 4: Daktronics Exchange and Repair & Return Programs (p.7)**. This manual is not specific to a particular installation. Project-specific information takes precedence over any other general information found in this manual.

## Important Safeguards

- Read and understand all instructions before first use.
- Do not let the power cord touch hot surfaces or hang over the edge of a table, which could damage or cut the cord.
- If an extension cord is necessary, use a three-pronged polarized cord. Arrange the cord with care so that no one will trip over or pull it out. Inspect the extension cord thoroughly and verify its compliance with the local electric codes before using.
- Never yank the power cord to pull the plug from the outlet. Grasp the plug and pull to disconnect.
- Toggle the power switch to "OFF" when not in use or when servicing.
- Disconnect power to the display before servicing power supplies to avoid electrical shock. Power supplies run on high voltage and may cause physical injury if touched while powered.
- Do not modify the structure or attach any panels or coverings to the display without the express written consent of Daktronics.
- Do not disassemble control equipment or electronic controls of the display; failure to follow this safeguard will make the warranty null and void.
- Do not drop the control equipment or allow it to get wet.

## 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**.



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.

#### 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 particular section are listed at the beginning of it as shown below:

DAKTRONICS, INC.  BROOKINGS, SD 57006  DO NOT SCALE DRAWING			THIS DRAWING ARE DO NOT REPRODUCE EXPRESSED WRITTEN	RESSED AND DETAILS SHOWN ON CONFIDENTIAL AND PROPRIETARY.  BY ANY MEANS WITHOUT THE CONSENT OF DAKTRONICS, INC. 1010 DAKTRONICS, INC.
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200	02	C17581	F-01-D	(1007804)
		Drawii	ng Number	

Figure 2: Drawing Label

#### **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.6), use the label to order a replacement. Refer to Section 4: Daktronics Exchange and Repair & Return Programs (p.7) if replacing or repairing any display component.

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

Figure 3: Part Label

Main Component Labels	
Part Type	Part Number
Individual circuit board	OP-XXXX-XXXX
Assembly; a collection of circuit boards	0A-XXXX-XXXX
Wire or cable	W-XXXX
Fuse	F-XXXX
Transformer	T-XXXX
Metal part	0M-XXXXXXX
Fabricated metal assembly	OS-XXXXXX
Specially ordered part	PR-XXXXX-X

Accessory Labels	
Component	Label
Termination block for power or signal cable	TBXX
Grounding point	EXX
Power or signal jack	JXX
Power or signal plug for the opposite jack	PXX

## **Display Controllers**

The TI-2025 and TI-2026 timers are designed for use with the All Sport® 100 handheld control console and may also be controlled via the wireless, battery-powered RC-50 controller. The controllers use keyboard overlays (sport inserts) to control multiple sports. Refer to the following manual for operating instructions:

• All Sport 100 Series Control Console Operation Manual (ED-13432)

The control console manual is available online at <a href="https://www.daktronics.com/manuals">www.daktronics.com/manuals</a>.

## **Specifications**

Model	Weight	Dimensions: Height, Width, Depth	Power (120 VAC)	Driver # & Address
TI-2025	35 lb (16. kg)	1'-10" H, 2'-4" W, 8" D	72 Watts,	A1 0
TI-2026	30 lb (14 kg)	(559 mm, 711 mm, 203 mm)	1 Amp	

## 2 Mechanical & Electrical Installation

#### Mechanical Installation

The timing displays in this manual are portable and are equipped with a handle on the top for easy transport.

**Note:** The handles are designed for carrying only and are not to be used as a temporary hanger or for permanent mounting.

## Power & Signal

#### **Reference Drawings:**

The displays receive power through a 120 VAC power cord. The power cord plugs into a standard three-pronged outlet. Flip the switch on the side of the display to power it on. The display will remain blank until it receives signal from a controller.

Signal is provided in one of two ways: 1) via a 9-pin serial to 4-pin XLR cable (Daktronics part number 0A-1196-0095) connected between the **J31** signal input on the side of the display and the jack on top of the All Sport 100 console, or 2) via radio transmission from the RC-50 controller to the built in antenna. Refer to **DWG-274283** in **Appendix A**.

**Note:** Before using the RC-50, the All Sport 100 must first be connected to the timer in order to set the practice values as described in the **All Sport 100 Control Console Operations Manual (ED-13432)**. Then the RC-50 can be used to run the practice from anywhere on the field without being constrained by control cable.

Extension XLR control cables are available from 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

The table below lists potential problems with the display and indicates possible causes and corrective actions. This list does not include every symptom that may be encountered, but it does present several of the most common situations that may occur.

Problem	Possible Cause	Solution/Items to Check
		Flip power switch <b>ON</b> .
	No power to the display	Check that the display has 120 VAC power.
Display does not light, and console does not		Ensure the console is plugged into the <b>J31</b> jack.
work	No power to console	Exchange the console with a working one, and enter the correct sport code to test. Replace if necessary.
	No wired signal from control console	Check that the display is receiving 120 VAC or battery power.
Display digits do not		Check the receiver (display) and transmitter (console) radio settings.
light, but console works	No radio signal from control console	Move the console 20–30' (6–9 m) from the display and test again. Verify that the display antenna is securely tightened and in a vertical position.
		Replace the radio receiver.
Display digits light, but	Incorrect sport code	Ensure the correct sport code is being used for the display model. Refer to the All Sport 100 operation manual ( <b>ED-13432</b> ).
not in the correct order	Incorrect driver address	Check that the display driver is set to the correct address.
Digits light, console works, but nothing	No wired signal from control console	(see solution above)
displays	No radio signal from control console	(see solution above)
Display works, but some LEDs always stay on	Bad digit	Exchange the digit with a working one of the same part # to verify the problem. Replace if necessary. See <b>Replacing Digits</b> (p.5).
Display works, but some LEDs do not light or they blink	Bad connection	Verify the connector on the back of the digit circuit board is secure. See <b>Replacing Digits (p.5)</b> .
DIII IK	Bad digit	(see solution above)
District to the last	Bad digit	(see solution above)
Display works, but some digits do not light	Incorrect sport code	(see solution above)
	Incorrect driver address	(see solution above)

## Component Locations & Access

#### **Reference Drawing:**

Schematic: Tl-2025/26 (120V)	AC) Segment Timer	DWG-274184
Component Location; TI-202	5/2026, Segment Timer	DWG-278310

**DWG-278310** shows front, back, and side views of the display along with the location of vital components and the location of the hardware used to attach those components.

To gain access to the internal components of the display, simply remove the screws securing the front or rear panels. **DWG-274184** illustrates the schematic diagram of the power and signal input wiring.

## Replacing Digits

LEDs are embedded in a printed circuit board (PCB) that is mounted to the back of the timer's face panel, as shown in **Figure 4**. Newer weather-sealed digits consist of a digit circuit board mounted to a black polycarbonate tray and encased in protective gel, as shown in **Figure 5**. 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 back panel as described in Component Locations & Access (p.5).
- 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 digit to the inside of the panel, and then lift the digit off the studs.
- **4.** Position a new digit over the studs. Make sure the rubber side of the rubber-backed spacers are facing the digit circuit board before tightening the nuts. Weather-sealed digits do not require these spacers.
- **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 back panel, then power up and test the display to verify the issue has been resolved.

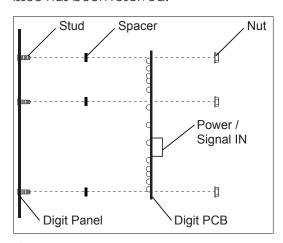


Figure 4: Digit Panel Assembly

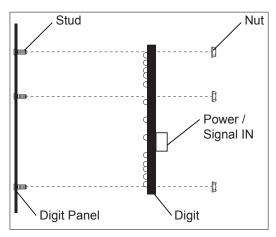


Figure 5: Weather-Sealed Digit Panel Assembly

## Adjusting the Horn Volume

The horn volume is set at its maximum level at the factory. If the horn is too loud, reduce its volume by adjusting the set screw 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.

## Replacement Parts

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

Description	Daktronics Part #
Horn, 120V w/ 2-pin connector	0A-1152-0332
All Sport 100 Control Cable, 20'	0A-1196-0095
Digit, 18" Red 7 Seg	0A-1478-5407
Digit, 18" Amber 7 Seg	0A-1478-5507
Segment Timer, Decimal Driver, Amber	OP-1192-0386
Segment Timer, Decimal Driver, Red	OP-1192-0390
Horn Interface; 5-35V In, 120VAC Out	OP-1192-0399
Radio Antenna; 418 MHz A-2015	
Toroid, 115/230V, 3.6 A w/ Bracket	T-1132

Refer to **Section 4**: **Daktronics Exchange and Repair & Return Programs (p.7)** for information on exchanging or returning parts.

# 4 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 confacting Daktronics, identity these important numbers:
Display Serial Number:
Display Model Number:
Job/Contract Number:
Date Manufactured/Installed:
Daktronics Customer ID Number:

To participate in the Exchange Program, follow these steps:

1. Call Daktronics Customer Service.

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

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

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

- **a.** Package the old part in the same shipping materials in which the replacement part arrived.
- **b.** Fill out and attach the enclosed UPS shipping document.
- c. Ship the part to Daktronics.
- 3. The defective or unused parts must be returned to Daktronics within 5 weeks of initial order shipment.

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

## Repair & Return Program

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

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

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

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

This expedites repair of the part.

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

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

#### 4. Enclose:

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

#### 5. Ship to:

**Daktronics Customer Service** 

[Case #]

201 Daktronics Drive, Dock E

Brookings, SD 57006

## Daktronics Warranty & Limitation of Liability

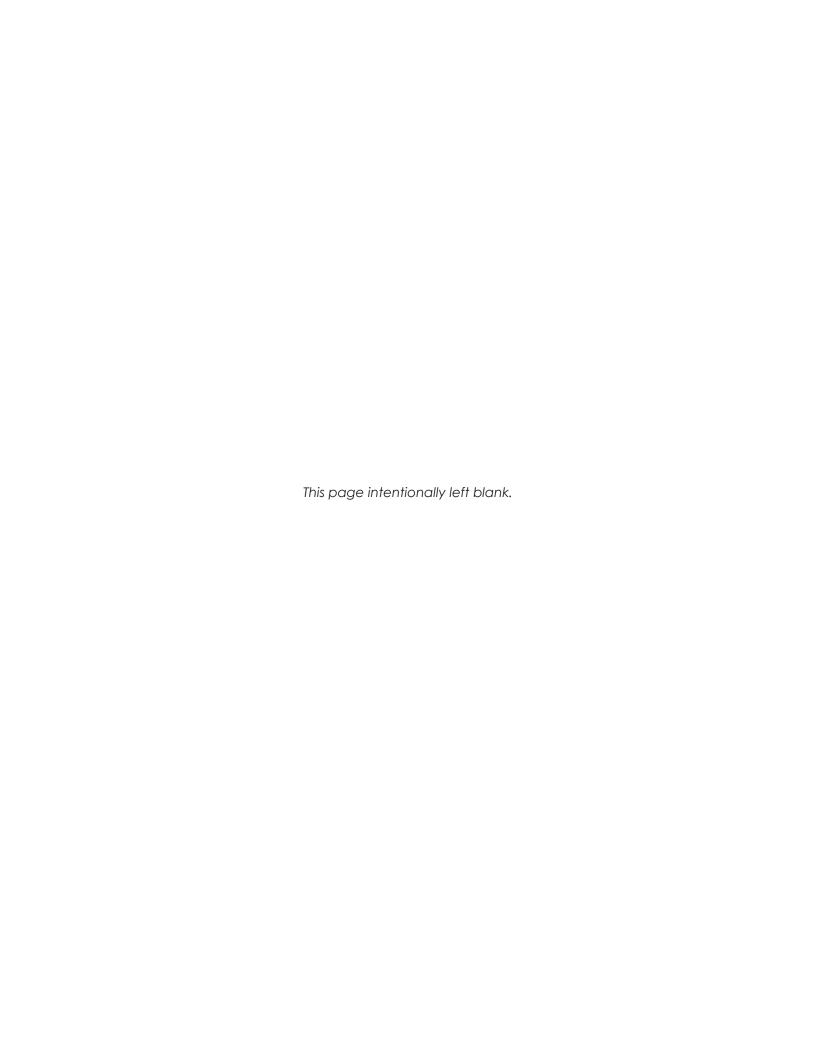
The Daktronics Warranty & Limitation of Liability is located at the end of this manual. The Warranty is independent of Extended Service agreements and is the authority in matters of service, repair, and display operation.

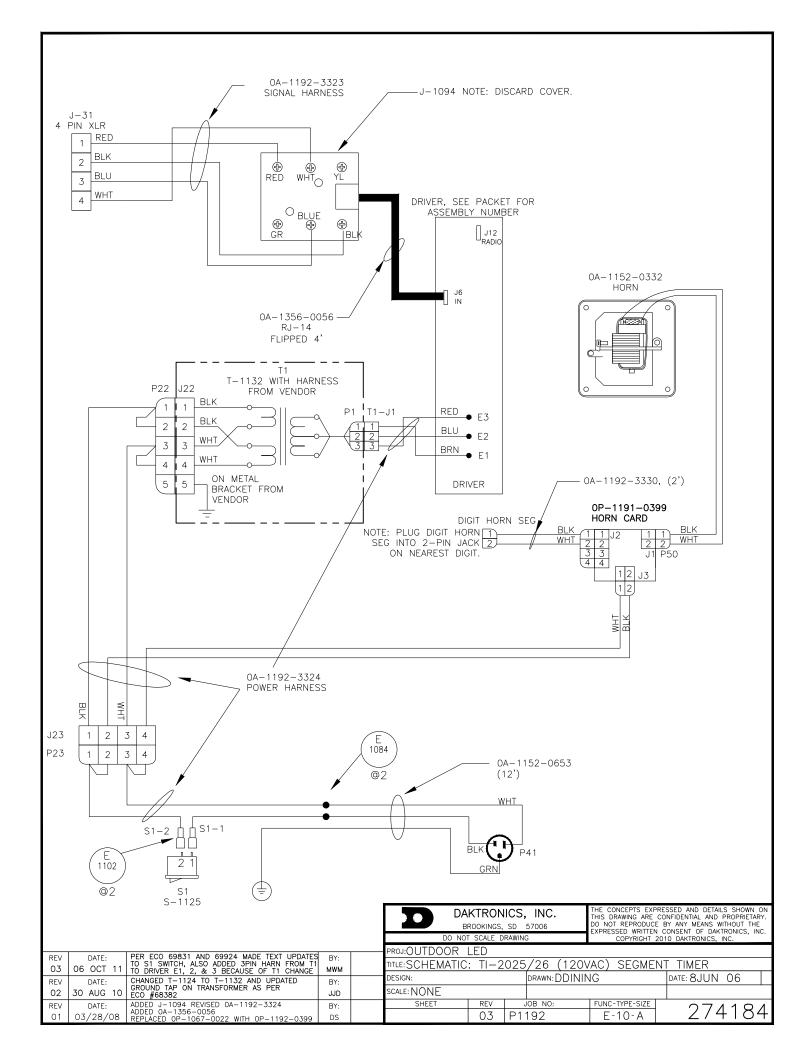
## **A Reference Drawings**

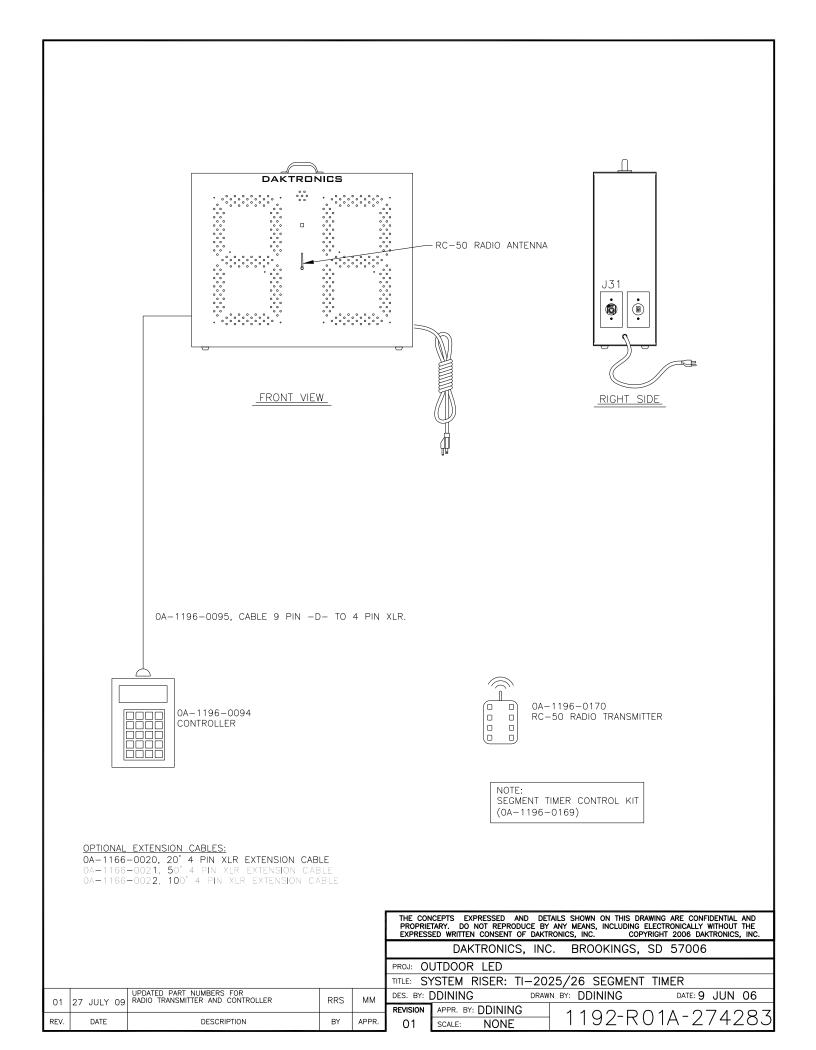
Refer to **Resources (p.2)** for information regarding how to read the drawing number. Any contract-specific drawings take precedence over the general drawings.

#### **Reference Drawings:**

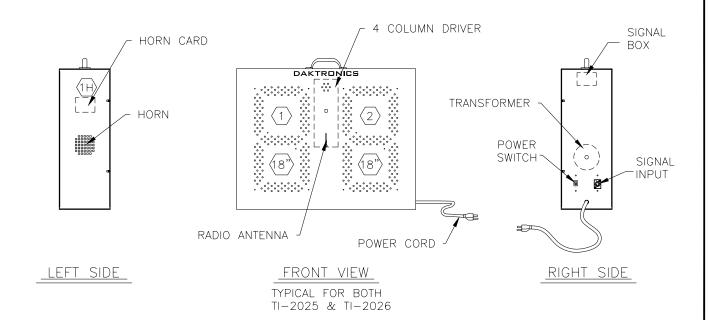
Schematic: TI-2025/26 (120VAC) Segment Timer	. DWG-274184
System Riser: TI-2025/26 Segment Timer	DWG-274283
Component Location; TI-2025/2026, Segment Timer	DWG-278310

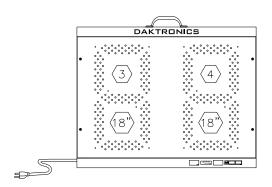




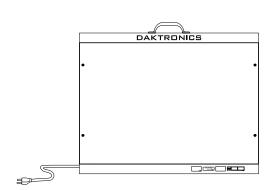


TI-2025-11/-21 TI-2026-11/-21





REAR VIEW



REAR VIEW

- = LED DRIVER CONNECTOR WIRED TO DIGIT.
- = DIGIT SIZE

#### NOTES:

- THIS COMPONENT LOCATION DRAWING IS FOR BOTH THE TI-2025 AND TI-2026.
  THE TI-2025 IS A 2-SIDED 4-DIGIT SEGMENT TIMER.
- THE TI-2026 IS A 1-SIDED 2-DIGIT SEGMENT TIMER.

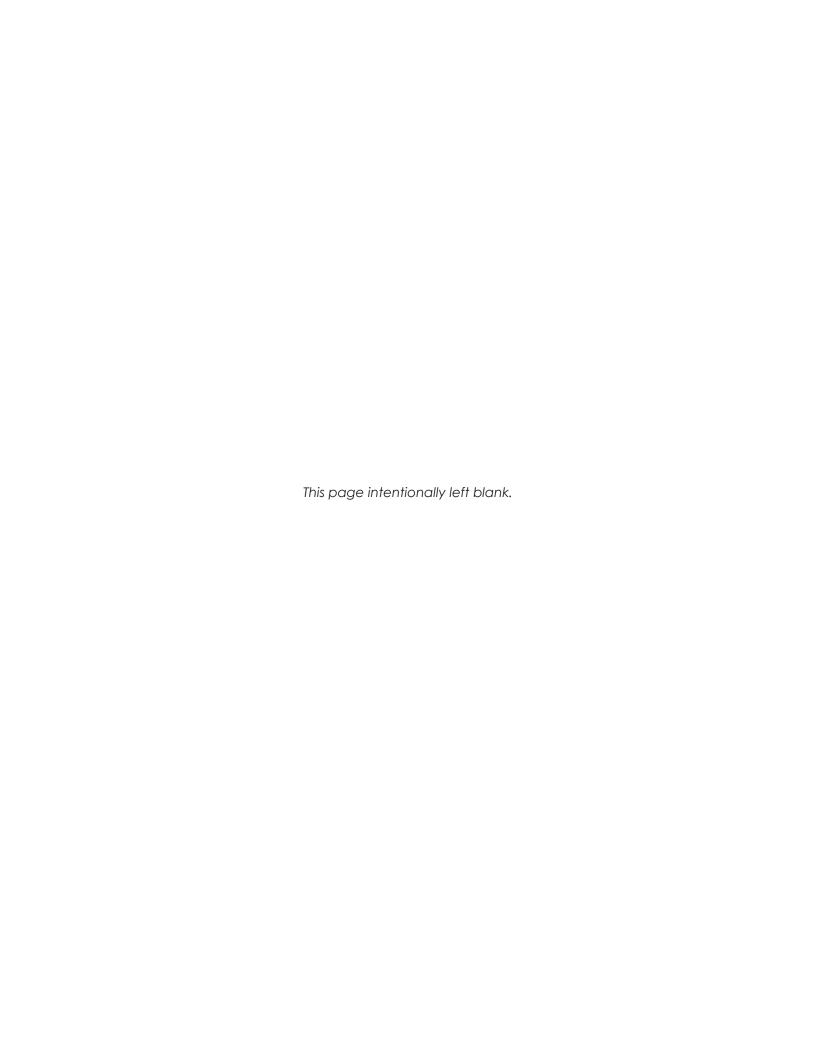
THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS, INCLUDING ELECTRONICALLY WITHOUT THE EXPRESSED WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2006 DAKTRONICS, INC. DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: OUTDOOR LED SCOREBOARDS

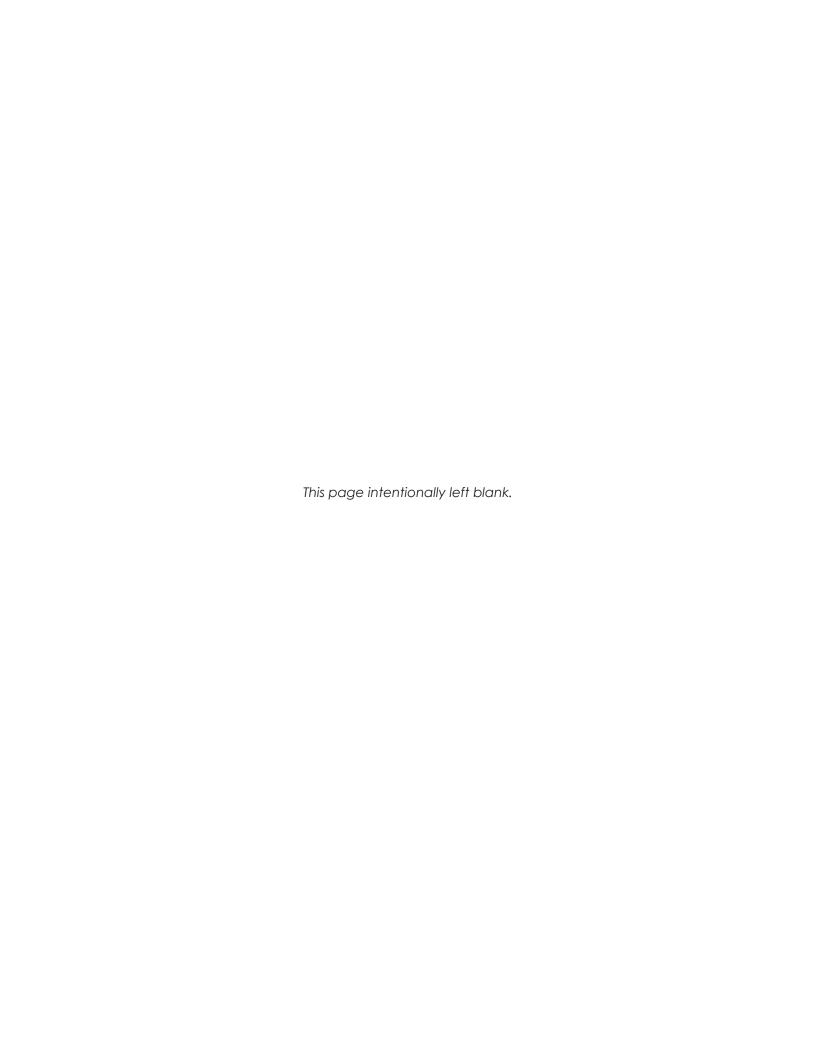
TITLE: COMPONENT LOCATION; TI-2025/2026, SEGMENT TIMER DRAWN BY: BCURTIS DATE: 18 JUL 06 DES. BY: BCURTIS

REVISION APPR. BY: 1192-R06A-278310 00 SCALE: 1 = 15

REV. DATE DESCRIPTION



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



### **DAKTRONICS** WARRANTY & LIMITATION OF LIABILITY

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

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

#### 1. Warranty Coverage

A. Daktronics warrants to the original end user (the "End User") that the Equipment will be free from Defects (as defined below) in materials and workmanship for a period of one (1) year (the "Warranty Period"). The Warranty Period shall commence on the earlier of: (i) four weeks from the date that the Equipment leaves Daktronics' facility; or (ii) Substantial Completion as defined herein. The Warranty Period shall expire on the first anniversary of the commencement date.

"Substantial Completion" means the operational availability of the Equipment to the End User in accordance with the Equipment's specifications, without regard to punch-list items, or other non-substantial items which do not affect the operation of the Equipment.

- B. Daktronics' obligation under this Warranty is limited to, at Daktronics' option, replacing or repairing, any Equipment or part thereof that is found by Daktronics not to conform to the Equipment's specifications. Unless otherwise directed by Daktronics, any defective part or component shall be returned to Daktronics for repair or replacement. This Warranty does not include on-site labor charges to remove or install these components. Daktronics may, at its option, provide on-site warranty service. Daktronics shall have a reasonable period of time to make such replacements or repairs and all labor associated therewith shall be performed during regular working hours. Regular working hours are Monday through Friday between 8:00 a.m. and 5:00 p.m. at the location where labor is performed, excluding any holidays observed by Daktronics.
- C. Daktronics shall pay ground transportation charges for the return of any defective component of the Equipment. All such items shall be shipped by End User DDP Daktronics designated facility. If returned Equipment is repaired or replaced under the terms of this Warranty, Daktronics will prepay ground transportation charges back to End USer and shall ship such items DDP End User's designated facility; otherwise, End User shall pay transportation charges to return the Equipment back to the End User and such Equipment shall be shipped Ex Works Daktronics designated facility. 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. <u>Exclusion from Warranty Coverage</u>

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;



### **DAKTRONICS** WARRANTY & LIMITATION OF LIABILITY

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

#### 3. <u>Limitation of Liability</u>

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. <u>Assignment of Rights</u>

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. <u>Governing Law</u>

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).

