DAKTRONICS TN-2652 PRODUCT SPECIFICATIONS



Optional 8x32 Team Name Message Centers (TNMCs)

- H	OME	IDP/	NICS	<i>EL</i> GU	EST 📙
		COURT 1			COURT 2
•	HOME	888	0	HOME	88
•	GUEST	88	•	GUEST	88
		COURT 3			COURT 4
•	HOME	<u>8</u> 88	•	HOME	699
•	GUEST	588	0	GUEST	88
		COURT 5			COURT 6
•	HOME	8 4 5	0	HOME	888
0	GUEST	383	•	GUEST	888



This multi-court outdoor LED tennis scoreboard displays total HOME and GUEST team score to nine as well as HOME and GUEST serve indicators and set scores to nine for up to three sets on six courts. Optional team name message centers (TNMCs) can display team or player names. Add an optional four-digit clock to display Time of Day. Scoreboard shown with amber PanaView® digits and optional striping.

DIMENSIONS	# OF SECTIONS
12'-6" H x 16'-0" W x 8" D (3.81 m, 4.88 m, 203 mm)	Four Total
2'-0" H x 16'-0" W x 8" D (607 mm, 4.88 m, 203 mm)	One Team Score
3'-6" H x 16'-0" W x 8" D (1.07 m, 4.88 m, 203 mm)	Three Court Scores

		VINYL CAPTIONS (STANDARD)	TNMCS & VINYL CAPTIONS
POWER*	Red/Amber Digits	380 Watts, 1.9 Amps	870 Watts, 4.4 Amps
POWER	White Digits	650 Watts, 3.3 Amps	1770 Watts, 8.9 Amps
	Team Score	128 lb (58 kg)	208 lb (94 kg)
UNCRATED WEIGHT	Court Scores	224 lb (102 kg)	384 lb (1 <i>7</i> 4 kg)
WEIGHT	Total	800 lb (363 kg)	1360 lb (617 kg)

*Scoreboard requires a dedicated circuit (120/240/208-2P); Amps shown for high leg.

DIGITS & INDICATORS

- Team HOME and GUEST and optional clock digits are 15" (381 mm). All court digits are 10" (254 mm) high. All indicators are 2" (51 mm) in diameter.
- Select red, amber, or white LED digits and indicators.
- Scoreboard features robust weather-sealed digits (see <u>DD2495646</u>).
- Digits may be dimmed for night viewing.

DISPLAY COLOR

Choose from 150+ colors (from Martin Senour® paint book) at no additional cost.

CONSTRUCTION

Alcoa aluminum alloy 5052 for excellent corrosion resistance

CAPTIONS

- Team HOME and GUEST captions are 10" (254) high.
 Court HOME and GUEST captions are 8" (203 mm) high.
 COURT # captions are 6" (152 mm) high.
- Standard captions are vinyl, applied to the display face.
- Optional TNMCs are 10.6" (269 mm) high.

PRODUCT SAFETY APPROVAL

ETL-listed to UL 48, tested to CSA standards, and CE-labeled

OPERATING TEMPERATURES

- Display: -22° to 122° Fahrenheit (-30° to 50° Celsius)
- Console: 32° to 130° Fahrenheit (0° to 54° Celsius)

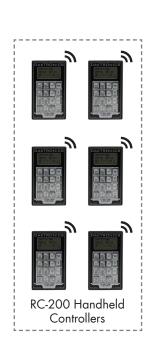


DAKTRONICS TN-2652 PRODUCT SPECIFICATIONS

CONTROL CONSOLES	CONTROL OPTIONS
RC-200 (see <u>DD3715714</u>)	Standard wireless handheld controller features 2.4 GHz spread spectrum radio with 64 non-interfering channels and 8-10 hours of operation via internal rechargeable battery. Not compatible with Team Name Message Centers.
RC-200 & DakTennis Software (see SL-06819)	The DakTennis [™] software tracks scores and team or player names for each court. System also includes external RC-200 base station, signal converters and cabling to connect to the scoreboard. This system is required for multi-court scoreboards with Team Name Message Centers.

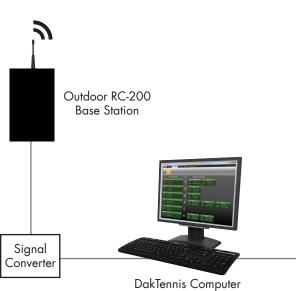
CONTROL DIAGRAMS

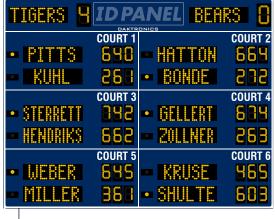
Refer to the diagrams below to see the available tennis control systems, and select one that best fits the needs of your facility. Note that placement of scoreboard antennas is for illustrative purposes only.





Scoreboard with Internal RC-200 Base Station





Scoreboard with TNMCs

Signal

Converter





DAKTRONICS TN-2652 PRODUCT SPECIFICATIONS

MOUNTING

Scoreboard is typically mounted on two vertical beams or poles. Hardware to mount scoreboard on two beams is included; hardware for more beams is at additional cost. Standard mounting uses I-beam clamps. Optional mounting method using angle brackets is also offered; maximum beam width is 12" (305 mm) and maximum beam depth is 22" (559 mm). Refer to attached drawings for more information on mounting methods.

GENERAL INFORMATION

Scoreboard provides scoring capabilities for two teams on six courts. 100% solid state electronics are housed in an all aluminum cabinet. Scoreboard is shipped in four sections. Scoreboard power is to be provided on a dedicated circuit to prevent loss of game information due to failure of another component on the circuit. Specifications and pricing are subject to change without notice.

OPTIONS & ACCESSORIES

- Scoreboard border striping
- Multiple caption and striping colors (see <u>DD2101644</u>)
- Team name caption in place of HOME *
- Programmable Team Name Message Centers (see <u>SL-04342</u>)
- 15" (381 mm) Time of Day (TOD) clock with Standalone Time of Day option (scoreboard acts as a clock when control console is unplugged/off) OR one 16" (406 mm) tall x 5'-4" (1.63 m) wide logo/sponsor area on the face of the display
- Optional angle bracket mounting method
- Advertising/identification panels
- Decorative accents
- Electronic message centers and video displays in multiple sizes

ADVERTISING/IDENTIFICATION PANELS

Backlit & Non-Backlit:

1'-6" H x 16'-0" W (457 mm, 4.88 m) 2'-0" H x 16'-0" W (610 mm, 4.88 m) 2'-6" H x 16'-0" W (762 mm, 4.88 m)

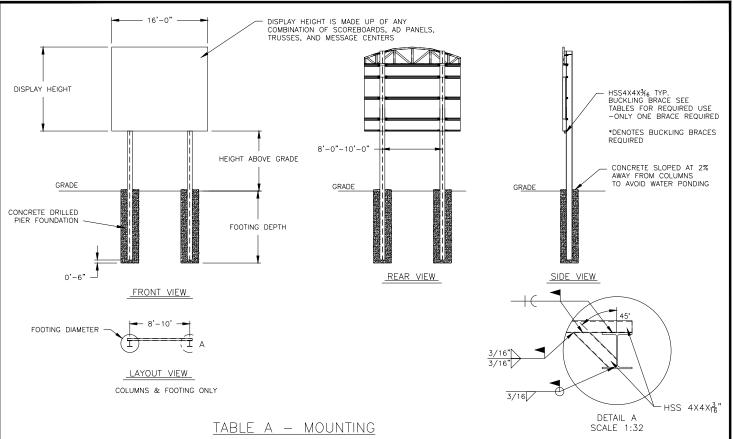
For additional non-backlit panel sizes, see SI-03761.

FOR ADDITIONAL INFORMATION

- Installation Specifications: DWG-1157188 (attached)
- Standard I-beam Mounting: DWG-1052565 (attached)
- Optional Pole Mounting: DWG-1048184 (attached)
- Component Locations: DWG-1107719 (attached)
- Architectural Specifications: See <u>SL-08627</u>



^{*} Not available with TNMCs



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HEIGHT ABOVE GRADE = 10'					HEIGHT ABOVE GRADE = 15'						
DISPLAY DESIGN WIND VELOCITY		DISPLAY		DESIGN WIND VELOCITY							
HEIGHT (FT)		115 MPH	130 MPH	150 MPH	170 MPH	HEIGHT (FT)		115 MPH	130 MPH	150 MPH	170 MPH
6	COLUMN FOOTING	W8X18 2.0'X7.0'	W8X21 2.0'X7.5'	W10X22 3.0'X7.0'	W8X24 2.0'X9.0'	6		W8X24 2.0'X8.0'	W12X26 3.0'X7.5'	W8X31 2.0'X9.5'	W10X33 3.0'X9.0'
8		W10X22 2.0'X8.0'	W8X24 2.0'X8.5'	W8X28 3.0'X8.5'	W8X31 3.0'X9.0'	8	COLUMN FOOTING		W8X31 2.0'X9.5'	W10X39 3.0'X9.0'	W14X43 3.0'X10.0'
10		W12X26 3.0'X7.5'	W12X30 3.0'X8.5'	W10X26* 3.0'X9.0'	W12X26* 3.0'X10.0'	10	COLUMN FOOTING	W12X26* 3.0'X8.5'	W12X30* 3.0'X9.0'	W14X34* 3.0'X10.0'	W12X40* 3.0'X11.0'
12		W8X31 2.0'X9.5'	W10X33 3.0'X9.0'	W12X30* 3.0'X10.0'	W14X34* 3.0'X11.0'	12		W12X30* 3.0'X9.0'	W14X34* 3.0'X10.0'	W12X40* 3.0'X11.0'	W14X48* 3.0'X12.0'
14	COLUMN FOOTING	W10X26* 3.0'X9.0'	W12X26* 3.0'X10.0'	W14X34* 3.0'X11.0'	W16X36* 3.0'X12.0'	14		W14X34* 3.0'X10.0'	W12X40* 3.0'X11.0'	W16X45* 3.0'X12.0'	W18X55* 3.0'X14.0'
16		W12X26* 3.0'X9.5'	W14X30* 3.0'X11.0'	W14X38* 3.0'X11.5'	W14X43* 3.0'X13.0'	16		W16X36* 3.0'X10.5'	W14X43* 3.0'X11.5'	W21X48* 3.0'X13.0'	W21X55* 3.0'X15.0'

BY:

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FOOTING DIMENSIONS = DIAMETER X DEPTH
* DENOTES BUCKLING BRACE REQUIRED

EXPOSURE C

HEIGHT ABO	VE GRADE	= 10'			HEIGHT ABO	VE GRADE	= 15'		
DISPLAY		DESIGN W	IND VELOCI	OCITY DISPLAY DESIGN WIND VELOC		IND VELOCIT	Υ		
HEIGHT (FT)		115 MPH					140 MPH		
6	COLUMN FOOTING	W8X21 2.0'X8.0'	W8X24 2.0'X9.0'		6	COLUMN FOOTING	W8X28 2.0'X9.0'	W10X33 3.0'X9.0'	
8	COLUMN FOOTING	W8X24 2.0'X9.0'	W8X31 3.0'X9.0'		8	COLUMN FOOTING	W10X33 3.0'X8.5'	W14X43 3.0'X10.0'	
10	COLUMN FOOTING	W8X31 2.0'X10.0'	W10X39 3.0'X10.0'		10	COLUMN FOOTING	W12X40 3.0'X9.5'	W10X49 3.0'X11.0'	
12	COLUMN FOOTING	W12X26* 3.0'X9.5'	W14X34* 3.0'X11.0'		12	COLUMN FOOTING	W16X36* 3.0'X11.0'	W16X45* 3.0'X12.0'	
14	COLUMN FOOTING	W12X30* 3.0'X10.0'	W16X36* 3.0'X12.0'		14	COLUMN FOOTING	W16X40* 3.0'X11.0'	W21X48* 3.0'X13.0'	
16	COLUMN FOOTING	W14X34* 3.0'X11.0'	W16X40* 3.0'X13.0'		16	COLUMN FOOTING	W16X45* 3.0'X12.0'	W21X55* 3.0'X15.0'	

UPDATED WIDE FLANGE AND FOUNDATION VALUES

UPDATED CLAMPS IN REAR AND SIDE VIEWS AND ADDED 170 MPH WIND SPEC COLUMN

FOOTING DIMENSIONS = DIAMETER X DEPTH
* DENOTES BUCKLING BRACE REQUIRED

NOTE:

REV

02

REV

01

DATE:

27 OCT 15

DATE:

23 JUL 14

REFER TO NOTE 7 FOR EXPOSURE CATEGORY DEFINITIONS.

NOTES:

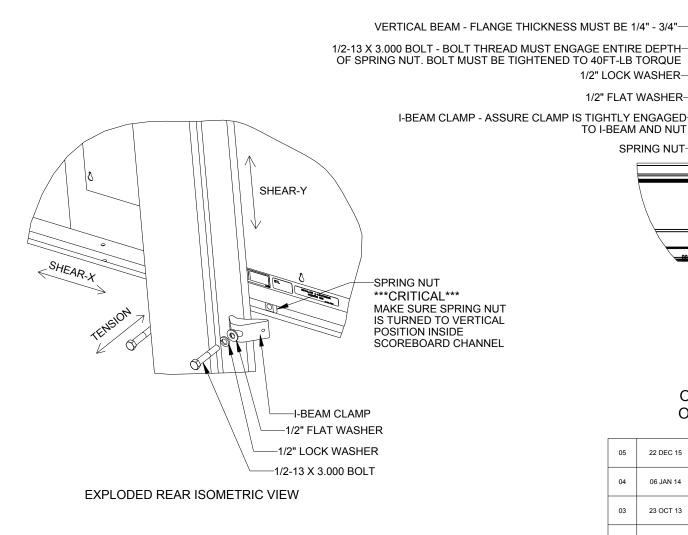
- 1. FOOTING AND COLUMN SIZES ARE SUGGESTIONS ONLY, PROVIDED TO ASSIST WITH ESTIMATING INSTALLATION COSTS AND ARE NOT INTENDED FOR CONSTRUCTION PURPOSES. THE DESIGN MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE INSTALLATION BEFORE THEY CAN BE USED FOR FABRICATION OF ERECTION.
- 2. INTERNATIONAL BUILDING CODE 2012 USED IN DESIGN OF COLUMNS AND FOOTINGS WITH, IMPORTANCE FACTOR=1, kzt=1.0, kd=0.85, G=0.85. SEISMIC DESIGN WAS NOT CONSIDERED.
- 3. FOOTING DIMENSIONS ARE BASED ON ASSUMED SOIL CLASS 4 (ALLOWABLE LATERAL BEARING PRESSURE OF 150 psf).
- 4. STRUCTURAL STEEL IS GRADE A992 (50 ksi) STEEL. CONCRETE SHALL HAVE A MINNIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 psi.
- 5. THE AVERAGE DISPLAY WEIGHT FOR A LAYOUT CAN NOT EXCEED 8 PSF.
- 6. DAKTRONICS INC. IS NOT RESPONSIBLE FOR STRUCTURES DESIGNED AND INSTALLED BY OTHERS.
- 7. LOCAL BUILDING OFFICIALS SHOULD BE CONTACTED TO DETERMINE THE WIND SPEED AND EXPOSURE CATEGORY FOR THE PROPOSED SIGN LOCATION. THE EXPOSURE CATEGORY C IS DEFINED AS:

EXPOSURE B — URBAN AND SUBURBAN AREAS, OR OTHER TERRAIN WITH NUMEROUS SPACED OBSTRUCTIONS HAVING THE SIZE OF SINGLE-FAMILY DWELLINGS OR LARGER. THESE CONDITIONS MUST PREVAIL FOR A DISTANCE FROM THE SIGN OF AT LEAST 2,600 ft OR 20 TIMES THE SIGN HEIGHT, WHICHEVER IS GREATER

EXPOSURE C - OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS HAVING HEIGHTS CENERALLY LESS THAN 30 FT. THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS, AND ALL WATER SURFACES IN HURRICANE PRONE REGIONS.

8. FOR SPECIFIC PRODUCT DETAILS ON WEIGHT, MOUNTING, ETC. REFER TO THE INDIVIDUAL PRODUCT SPECIFICATION SHEETS.

DA B DO NO	THE CONCEPTS EXP THIS DRAWING ARE DO NOT REPRODUCE EXPRESSED WRITTEN COPYRIGHT 2	CONFIDENTIAL BY ANY ME CONSENT O	AND PROP ANS WITHOUT DAKTRON	PRIETARY	۲. ·			
PROJ:OUTDOOR	SCORE	BOA	RD INSTALI	_ATION				
TITLE: 16' WIDTH	SCOR	EBO	ARD INSTAL	LATION SPE	CS			
DESIGN: RSCHWAR			DRAWN: RSCHV	VAR	DATE: 27	7 NOV	13	
SCALE: 1/16"=1'								
SHEET	REV		JOB NO:	FUNC-TYPE-SIZE	1 1	 1	0	7
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STANDARD MOUNTING METHOD

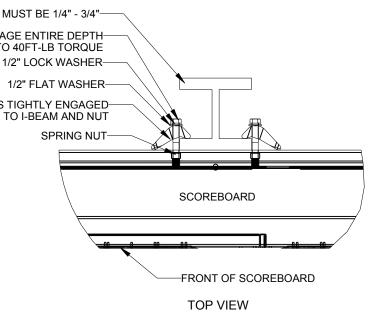
MOUNTING INSTRUCTIONS:

- 1. PLACE SPRING NUTS INTO SCOREBOARD CHANNEL IN APPROXIMATE LOCATION OF VERTICAL BEAMS
- 2. LIFT SCOREBOARD INTO POSITION
- 3. MAKE SURE THE 1/2-13 BOLTS ARE AS CLOSE TO THE I-BEAM FLANGES AS POSSIBLE
- 4. WHEN SCOREBOARD IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN BOLTS FIRMLY
- 5. IF FLANGE THICKNESS IS MORE THAN 3/4" THICK LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE.

STRUCTURAL NOTES

ALLOWABLE CAPACITY PER EACH CLAMP: SHEAR = 160 LBS TENSION = 2300 LBS

SHEAR AND TENSION LOAD DIRECTION ARE AS INDICATED ON REAR ISOMETRIC VIEW



CRITICAL DO NOT USE ANY LUBRICANT ON ANY MOUNTING HARDWARE OR WARRANTY WILL BE VOIDED

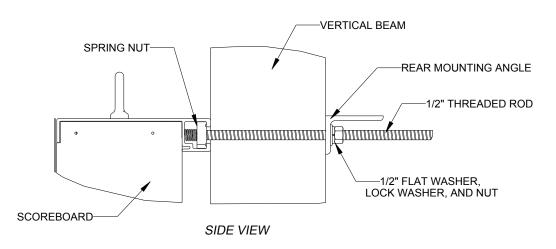
05	22 DEC 15	PER EC-22871; ADDED LUBRICANT NOTE	PJS 18704	
04	06 JAN 14	ADDED ALLOWABLE TENSION AND SHEAR CAPACITY DETAILS	JAVA	
03	23 OCT 13	PER EC-12382; CHANGED BOLT TORQUE FROM 30 FT-LB TO 40 FT-LB	NJM	
02	07 MAR 12	ADDED STANDARD MOUNTING METHODS NOTES	KDD	
01	21 FEB 12	CHANGED ROCKER TO I-BEAM	KDD	
REV	DATE:		BY:	

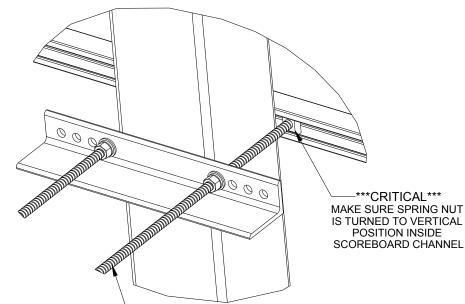


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G THIRD ANGLE PROJECTION

DAKIR	:014108				}	7
PROJECT:	OUTDOOR SCO	REBOARD				
TITLE:	P1647; I-BEAM	CLAMP MOUN	NTING			
DATE:	22-DEC-15	DIM UNITS: INC	HES [MILLIME	TERS]	SHEET	REV
SCALE:	1/8	DO NOT	SCALE DRAWI	NG	1 OF 1	05
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REAR ISOMETRIC VIEW

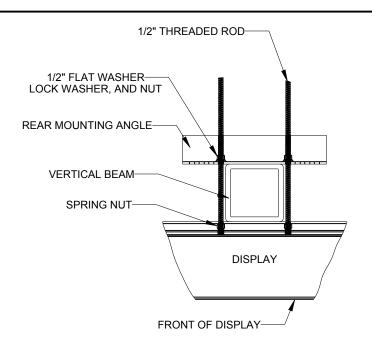
EXTRA THREADED ROD
CAN BE CUT OFF

STRUCTURAL NOTES:

- BOLT TORQUE: 30 FT-LB

NOTES:

- THREADED RODS RUN ALONG BOTH SIDES OF BEAM
- RODS DO NOT PASS THROUGH THE FLANGES OF THE BEAM
- NO DRILLING NECESSARY
- MAKE SURE SPRING NUT IS PERPENDICULAR TO CHANNEL OPENING ON SCOREBOARD



TOP VIEW SCALE 1/10

CRITICAL DO NOT USE ANY LUBRICANT ON ANY MOUNTING HARDWARE OR WARRANTY WILL BE VOIDED

04	22 DEC 15	PER EC-22871; ADDED LUBRICANT WARNING	PJS 18704	
03	03 JULY 13	ADDED STRUCTURAL NOTE	TTF	
02	20 SEP 12	PER EC-7114; REMOVED CHAMFER FROM 0M-133259	LMG	
01	06 OCT 11	REPLACED VERTICAL I-BEAM WITH 6" X 6" SQUARE TUBE	JAVA	
REV	DATE:		BY:	



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THIRD ANGLE PROJECTION

DAKIR	CUNICS .	001 11110111 2010 27111	11011100; 1110: (00/1))	7
PROJECT:	OUTDOOR SCO	DREBOARDS				
TITLE:	P1647; POLE M	OUNTING OPT	ΓIONS			
DATE:	22-DEC-15	DIM UNITS: INC	HES [MILLIME	ETERS]	SHEET	REV
SCALE:	1/5	DO NOT S	CALE DRAW	ING	1 OF 1	04
DESIGN:	DOPPELT	JOB NO.	FUNC - TYPE - SIZE	1	0481	0 1
DRAWN:	DOPPELT	P1647	E - 10 - A	I	0401	0 4

