DAKTRONICS MS-2025 PRODUCT SPECIFICATIONS



This outdoor LED multisport scoreboard displays period time to 99:59, HOME and GUEST scores to 99 and PERIOD to nine. When period time is less than one minute, the scoreboard displays time to 1/10 of a second. Scoreboard shown with optional striping and amber PanaView® digits.

DIMENSIONS	UNCRATED WEIGHT	POWER	(120 VAC)*
3'-6" H x 6'-0" W x 8" D (1.07 m, 1.83 m, 203 mm)	70 lb (20 lcs)	Red/Amber Digits	80 Watts, 0.7 Amp
	70 lb (32 kg)	White Digits	130 Watts, 1.1 Amps

^{*}Scoreboard requires a dedicated circuit. Models with 240 VAC power at half the indicated amperage are also offered (International Use Only).

DIGITS

- All digits are 10" (254 mm) high.
- Select red, amber, or white LED digits.
- Scoreboard features robust weather-sealed digits (see <u>DD2495646</u>).
- Digits may be dimmed for night viewing.

CAPTIONS

- All captions are 5" (127 mm) high.
- Standard captions are vinyl, applied to the display face.

DISPLAY COLOR

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

CONSTRUCTION

Alcoa aluminum alloy 5052 for excellent corrosion resistance

PRODUCT SAFETY APPROVAL

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

OPERATING TEMPERATURES

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



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CONTROL CONSOLES	CONTROL OPTIONS				
All Sport® 1600* (see <u>SL-04352</u>)	Wired (standard): One-pair shielded cable of 22 AWG minimum is required. A cover plate with mounted connector and standard 2" x 4" x 2" (51 mm x 102 mm x 51 mm) outlet box is provided. Connector mates with signal cable from control console.				
*May be upgraded to All Sport 5000 (see <u>SI-03991)</u>	Wireless (optional): 2.4 GHz spread spectrum radio features 64 non-interfering channels and 8 broadcast groups (see <u>SL-04370</u>).				
RC-200 (see <u>DD3715714</u>)	Optional 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.				
DAK Score & MX-1 (see DD3888368)	CUSTOMER-SUPPLIED mobile device or tablet with DAK Score app installed communicates via Bluetooth ® wireless technology to an MX-1 Interface Box that controls the scoreboard through 2.4 GHz radio or wired connection.				

HORN

A vibrating horn, mounted behind the scoreboard face, sounds automatically when period clock counts down to zero or manually as controlled by the operator.

SEGMENT TIMER MODE

The segment timer mode is ideal for keeping practices on schedule. The horn at the end of a segment allows coaches and athletes to focus on the practice and to listen for the horn when it is time to change drills (see <u>SL-04004</u>).

TIME OF DAY MODE

This scoreboard features a Time of Day (TOD) mode that allows it to act as a clock when the control console is unplugged or off. Refer to the scoreboard installation manual for instructions on how to enable the Time of Day mode.

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 10" (254 mm) and maximum beam depth is 13" (330 mm). Refer to attached drawings for more information on mounting methods.

SERVICE ACCESS

Digit panels and electronics are serviced from the front of the scoreboard.

OPTIONS & ACCESSORIES

- Scoreboard border striping
- Multiple caption and striping colors (see <u>DD2101644</u>)
- Team name caption in place of HOME
- Reversible HALF and INNING caption panel
- Two 11.125" (283 mm) tall x 1'-1.5" (343 mm) wide logo/sponsor area. Copy is applied to the display face.
- Individual digit protective screens (see <u>SL-04939</u>)
- Protective netting (see <u>DD2690927</u>)
- Optional angle bracket mounting method
- Advertising/identification panels
- Decorative accents
- Electronic message centers and video displays in multiple sizes

GENERAL INFORMATION

Scoreboard provides scoring capabilities for two teams. 100% solid state electronics are housed in an all aluminum cabinet. Scoreboard is shipped in one section. 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.

ADVERTISING/IDENTIFICATION PANELS

Backlit & Non-Backlit Top/Bottom:

1'-6" H x 6'-0" W (457 mm, 1.83 m) 2'-0" H x 6'-0" W (610 mm, 1.83 m) 2'-6" H x 6'-0" W (762 mm, 1.83 m)

Non-Backlit Sides:

3'-6" H x 3'-0" W (1.07 m, 914 mm)

For additional non-backlit panel sizes, see <u>SL-03761</u>.

FOR ADDITIONAL INFORMATION

- Installation Specifications: DWG-1173105 (attached)
 - One Ad Panel: DWG-1173106 (attached)
 - Two Ad Panels: DWG-1173107 (attached)
- Standard I-beam Mounting: DWG-1129110 (attached)
- Optional Pole Mounting: DWG-1130246 (attached)
- Component Locations: DWG-1128100 (attached)
- Architectural Specifications: See <u>DD1745307</u>

ALTERNATE CAPTIONS & SCORING MODES



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DAKTRONICS

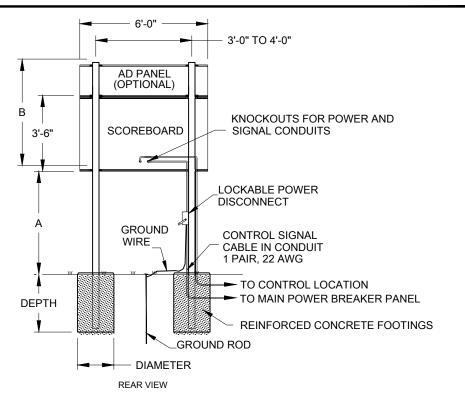
NOTES:

- 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 OR 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 CATEGORIES B AND C ARE DEFINED AS:

EXPOSURE B - URBAN AND SUBURBAN AREAS. WOODED AREAS. OR OTHER TERRAIN WITH NUMEROUS CLOSELY 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 GENERALLY** 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.



EXPOSURE B

HEIGHT ABOVE AD PANEL COMBINED DESIGN WIND VELOCITY GRADE (A) HEIGHT HEIGHT(B) (FT) (FT) (FT) 115 MPH 130 MPH 150 MPH 170 MPH COLUMN W6X15 W6X15 W6X15 W6X15 3'-6" NONE FOOTING 2'-0"X4'-6" 2'-0"X5'-0" 2'-0"X5'-6" 2'-0"X6'-0" 10' W6X15 W6X15 W6X20 COLUMN W6X15 5'-6" 2'-0" FOOTING 2'-0"X5'-6" 2'-0"X6'-0" 2'-0"X6'-6" 2'-0"X7'-0" W6X15 W6X15 W6X15 COLUMN W6X20 3'-6" NONE FOOTING 2'-0"X5'-0" 2'-0"X5'-6" 2'-0"X6'-0" 2'-0"X6'-6" 15' COLUMN W6X20 W6X20 W6X20 W8X24 2'-0" 5'-6" FOOTING 2'-0"X6'-0" 2'-0"X6'-6" 2'-0"X7'-0" 2'-0"X7'-6"

	URI	

HEIGHT ABOVE GRADE (A)	AD PANEL HEIGHT	COMBINED HEIGHT(B)		DESIGN WIN	D VELOCITY
(FT)	(FT)	(FT)		115 MPH	140 MPH
	NONE	3'-6"	COLUMN	W6X15	W6X15
10'	NONE	IE 3-6	FOOTING	2'-0"X5'-0"	2'-0"X6'-0"
'0	2'-0"	2'-0" 5'-6"	COLUMN	W6X15	W6X15
			FOOTING	2'-0"X6'-0"	2'-0"X7'-0"
	NONE	NONE 3'-6"	COLUMN	W6X15	W6X20
15'	NONE		FOOTING	2'-0"X5'-6"	2'-0"X6'-6"
'3	2'-0"	5'-6"	COLUMN	W6X20	W8X24
	2 -0	5-6	FOOTING	2'-0"X6'-6"	2'-0"X7'-6"

FOOTING DIMENSIONS = DIAMETER X DEPTH

REV 01	DATE: 01 APR 16	REMOVE M	ODEL NUMBERS TO I	;	BY: KDD				
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PROJE	CT: OUTDO	OR LED :	SCOREBOAR	RDS					
TIT	LE: INSTALL	ATION S	SPECS: 3'-6"X	(6' MODELS, 6	6' WIDE D	ISPLAY			
DA	TE: 15 MAY	14	DIM UNITS: INC	HES [MILLIME	ETERS]	SHEET	REV		
SCA	LE: 1=90		DO NOT S	CALE DRAW	ING		01		
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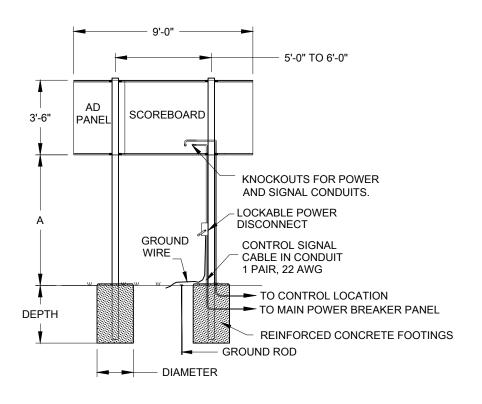
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8. FOR SPECIFIC PRODUCT DETAILS ON WEIGHT, MOUNTING, ETC. REFER TO THE INDIVIDUAL PRODUCT SPECIFICATION SHEETS.



REAR VIEW

EXPOSURE B

HEIGHT ABOVE GRADE (A)	DISPLAY HEIGHT			DESIGN WIN	ND VELOCITY	
(FT)	(FT)		115 MPH	130 MPH	150 MPH	170 MPH
10'	3'-6"	COLUMN	W6X15	W6X15	W6X15	W6X15
10	3 -6	FOOTING	2'-0"X5'-0"	2'-0"X5'-6"	2'-0"X6'-0"	2'-0"X6'-6"
15'	15' 3'-6" COI		W6X20	W6X20	W6X20	W6X20
15	3 -6	FOOTING	2'-0"X5'-6"	2'-0"X6'-0"	2'-0"X6'-6"	2'-0"X7'-6"

EXPOSURE C

HEIGHT ABOVE GRADE (A)	DISPLAY HEIGHT		DESIGN WIN	D VELOCITY
(FT)	(FT)		115 MPH	140 MPH
10'	10' 3'-6"	COLUMN	W6X15	W6X15
10	3 -0	FOOTING	2'-0"X5'-6"	2'-0"X6'-6"
15'	3'-6"	COLUMN	W6X20	W6X20
13	3 -6	FOOTING	2'-0"X6'-6"	2'-0"X7'-6"

FOOTING DIMENSIONS = DIAMETER X DEPTH

REV	DATE:	REMOVED	MODEL NUMB	ERS TO	MAKE DWG GEN	IERIC	BY:	
01	01 APR 16						KDD	
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PROJEC	T: OUTDO	OR LED	SCOREB	OAR	DS			
TITL	E: INSTALL	ATION	SPECS: 3	'-6"X	9' MODELS	S- 1 AD, 9'	WIDE D	ISPLAY
DAT	E: 15 MAY	14	DIM UN I TS:	INC	HES [MILLII	METERS]	SHEET	REV
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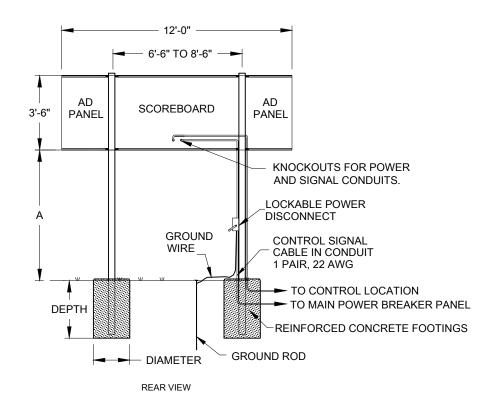
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EXPOSURE B

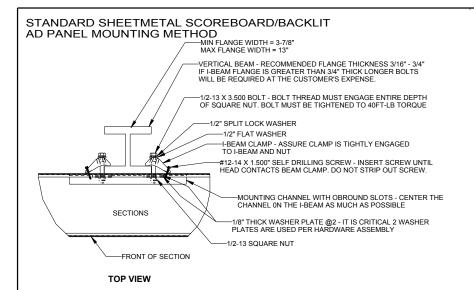
HEIGHT ABOVE GRADE (A)	DISPLAY HEIGHT			DESIGN W	IND VELOCITY			
(FT)	(FT)		115 MPH	130 MPH	150 MPH	170 MPH		
10'	7' 6"	7' 6"	3'-6"	COLUMN	W6X15	W6X15	W6X15	W6X20
10	3 -6	FOOTING	2'-0"X5'-6"	2'-0"X6'-0"	2'-0"X6'-6"	2'-0"X7'-0"		
15'	3'-6"	COLUMN	W6X20	W6X20	W6X20	W8X24		
13	15 3 -6	FOOTING	2'-0"X6'-0"	2'-0"X6'-6"	2'-0"X7'-6"	2'-0"X8'-6"		

EXPOSURE C

	GHT ABOVE ADE (A)	DISPLAY HEIGHT		DESIGN WIN	D VELOCITY	
GR	(FT)	(FT)		115 MPH	140 MPH	
	10'	3'-6"	0, 3, 6,		W6X15	W6X20
			FOOTING	2'-0"X6'-6"	2'-0"X7'-0"	
	15'	3'-6"	COLUMN	W6X20	W8X24	
		3 -0	FOOTING	2'-0"X7'-0"	2'-0"X8'-0"	

FOOTING DIMENSIONS = DIAMETER X DEPTH

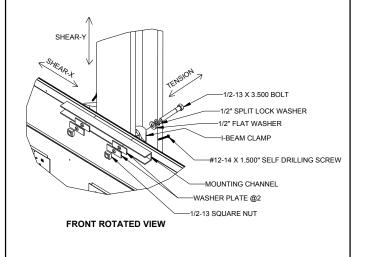
REV 01	DATE: 01 APR 16	REMOVE MODEL NUMBER	RS TO MAKE DWG GENERIC	;	BY: KDD			
THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONPIDENTIAL AND PROPRIETARY DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2016 DAKTRONICS, INC. (USA)								
PROJEC	PROJECT: OUTDOOR LED SCOREBOARDS							
TITL	E: INSTALL	ATION SPECS: 3	'-6"X12' MODELS-	2 ADS, 12	2' WIDE	DI\$PLA`		
DAT	E: 15MAY1	4 DIM UNITS:	INCHES [MILLIME	TERS]	SHEET	REV		
SCAL	E: 1=90	DO NO	OT SCALE DRAW	ING		01		
DESIG	N: TTASCH	INER JOB NO.	FUNC - TYPE - SIZE	1	1731	0.7		
DRAW	N: TTASCH	NER P1192	R 10 A	ı	1/31	07		



-MIN FLANGE WIDTH = 3-7/18" MAX FLANGE WIDTH = 13" -VERTICAL BEAM - RECOMMENDED FLANGE THICKNESS 3/16" - 3/4" IF I-BEAM FLANGE IS GREATER THAN 3/4" THICK LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE 1/2-13 X 3.500 BOLT - BOLT THREAD MUST ENGAGE ENTIRE DEPTH OF SQUARE NUT. BOLT MUST BE TIGHTENED TO 40FT-LB TORQUE -1/2" SPLIT LOCK WASHER -1/2" FLAT WASHER I-BEAM CLAMP - ASSURE CLAMP IS TIGHTLY ENGAGED #12-14 X 1.500" SELF DRILLING SCREW - INSERT SCREW UNTIL HEAD CONTACTS BEAM CLAMP. DO NOT STRIP OUT SCREW. -MOUNTING CHANNEL WITH OBROUND SLOTS - CENTER THE CHANNEL ON THE I-BEAM AS MUCH AS POSSIBLE -1/8" THICK WASHER PLATE @2 - IT IS CRITICAL 2 WASHER PLATES ARE USED PER HARDWARE ASSEMBLY SECTIONS -1/2-13 SQUARE NUT -FRONT OF SECTION

STANDARD NON-BACKLIT AD PANEL MOUNTING METHOD

TOP VIEW



QUALIFIED FOR SECTIONS UP TO 5' IN HEIGHT USING RECOMMENDED STRUCTURE

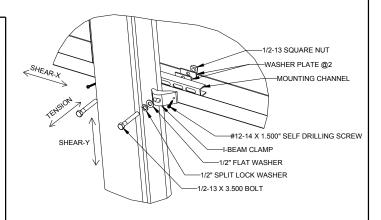
ALLOWABLE CAPACITY PER EACH CLAMP: SHEAR = 160 LBS TENSION = 1376 LBS

SHEAR AND TENSION LOAD DIRECTION ARE AS INDICATED ON ROTATED VIEWS

MOUNTING INSTRUCTIONS:

- LIFT THE FIRST SECTION OF THE DISPLAY INTO POSITION AGAINST I-BEAMS.
 NOTE: IF THE DISPLAY IS MADE UP OF MULTIPLE SECTIONS
- ALWAYS INSTALL THE BOTTOM SECTION FIRST AND WORK UP.
 2. STARTING ON THE TOP OF THE SECTION BEING INSTALLED MARK AND DRILL 9/16" HOLES IN THE CENTER OF THE TOP FLANGE OF THE SECTION. MAKE SURE THE HOLES ARE
- POSITIONED AS CLOSE TO THE I-BEAM FLANGES AS POSSIBLE.

 3. INSTALL ALL THE HARDWARE SHOWN PROVIDED AND TIGHTEN
- THE SECTION IN THE DESIRED LOCATION.
- 4. ONCE THE TOP OF THE SECTION IS SECURE MOVE TO THE BOTTOM OF THE SECTION AND REPEAT THE STEPS ABOVE.
 5. IF THE DISPLAY IS MADE OF MULTIPLE SECTIONS REPEAT
- THE ENTIRE PROCEDURE ABOVE.
- 6. ENSURE ALL 1/2" HARDWARE IS TORQUED TO THE SPECIFIED AMOUNT.

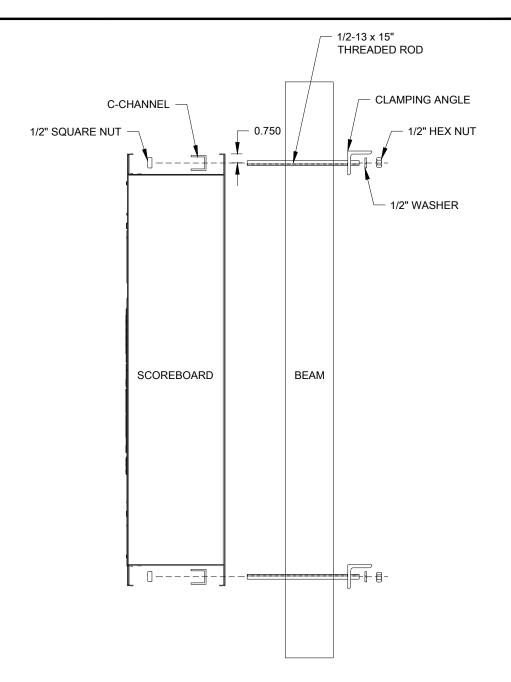


REAR ROTATED VIEW

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	BROOKINGS, SD 57006	DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC.
DO NOT SCALE DRAWING		COPYRIGHT 2014 DAKTRONICS, INC.
PROJ: OU	TDOOR SCOREBOARD	

TITLE: I-BEAM CLAMP MOUNTING, SHEET METAL ATTACHMENT

- 1	REV	DATE:	CHANGED TENSION CAPACITY TO 1376	LBS BY:			DESIGN: KSCHNABEL		DRAWN:	KSCHNABEL	DATE: 17-JUN-15
	02	17 JUN 15	ADDED MININUM AND MAXIMUM FLANGI	E WIDTHS	AMP		SCALE: 1/8				
ĺ	REV	DATE:	ADDED ALLOWABLE TENSION AND SHEA ADDED NON-BKLT AD PANEL MOU CHANGED DWG TO B S	MOUNTING DETAILS	BY: JAVA		SHEET:	REV	JOB NO:	FUNC-TYPE-SIZE	1129110
	01	8 JAN 14					1 OF 1	02	P 1753	E = 10 = B	

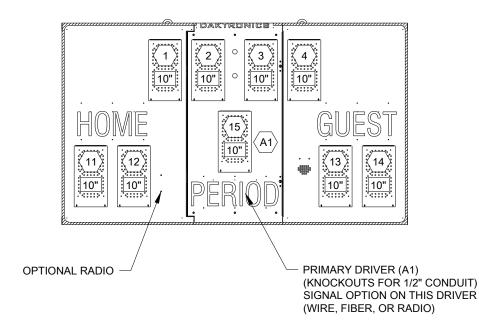


MOUNTING INSTRUCTIONS:

- 1. USE THE MOUNTING CHANNEL TO DETERMINE WHICH HOLE COMBINATION SHOULD BE USED. BE SURE TO KEEP THE BOLT AS CLOSE TO THE BEAM AS POSSIBLE.
- 2. USING THE MOUNTING CHANNEL AS A TEMPLATE, DRILL 9/16" HOLES IN THE UPPER AND LOWER REAR FLANGE OF SCOREBOARDS WHERE THE SUPPORTS WILL GO.
- 3. PLACE SQUARE NUTS INSIDE CHANNEL AND THREAD BOLTS THROUGH.
- 4. LIFT SCOREBOARD INTO POSITION WITH BOLTS STILL IN PLACE.
- 5. PLACE MOUNTING ANGLES OVER EACH PAIR OF BOLTS AND SECURE WITH LOCK WASHERS AND HEX NUTS.
- 6. WHEN SCOREBOARD IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN HEX NUTS FIRMLY.

		00	P17	P1753		E - 10 - A	1130246				
	SHEET	SHEET REV		JOB NO:		FUNC-TYPE-SIZE	4400040				
	SCALE: 1=8										
	DESIGN: KDRAGT			DRAWN: KDRAGT			DATE: 14 MAR 13				
TITLE:SCOREBOARD MOUNTING											
	PROJ:OUTDOOR SHEET METAL SCOREBOARDS										
	DO NO	Γ SCALE DR	AWING		\Box	COPYRIGHT 2013 DAKTRONICS, INC.					
	34.49	KTRON BROOKING		*	E F	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.					

MS-2025-R/A/W



FRONT VIEW

NOTES:

= DRIVER CONNECTOR 3 WIRED TO THAT DIGIT

18" = DIGIT SIZE

 \langle A1 \rangle = DRIVER NUMBER

					DAKTRONICS, INC. BROOKINGS, SD 57006 DO NOT SCALE DRAWING DO NOT SCALE DRAWING DO NOT SCALE DRAWING DO NOT SCALE DRAWING					
				PROJ:OUTDOOR SHEETMETAL SCOREBOARDS TITLE:COMPONENT LOCATION; MS-2025-101X-R/A/W						
REV	DATE:	PER CN-108201	BY:		DESIGN: KDRAGT		DRAWN:KDRA	GT	DATE: 20 FEB 13	
02	17 AUG 20	REMOVED LABELS TO MOVE TO NEW STANDARD	TAN		SCALE: 1=20					
REV	DATE:	PER EC-17119, ADDED SIGNAL OPTION NOTE AND	BY:		SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	4420400	
01	03 MAR 15	REMOVED DETAIL VIEW	ZSW			02	P1753	E - 10 - A	1128100	