

**OUTDOOR SCOREBOARD
HORNS**

INSTALLATION MANUAL

P1192

DD3088739
Rev 04
03 August 2021



DAKTRONICS

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Table of Contents

1	12 VDC Horn Installation	1
	Equipment	1
	Location.....	1
	Horn Interface Card and Horn Plate Assembly	1
	Horn Interface Card Installation	1
	Horn Plate Assembly Installation	2
	Trumpet Horn Installation	2
	Preparation	2
	Installation	2
	TI-2003 12 VDC Horn	3
	Compact Horn Replacement.....	3
	Schematics.....	3
2	120 VAC Trumpet Horn Installation	4
	Equipment	4
	Location.....	4
	Basic Horn Installation	4
	Complete Horn Installation.....	4
	Horn Interface Card Installation	4
	Horn Installation	5
	Schematics.....	5
3	24 VDC Trumpet Horn Installation (Solar Power Option Only)	6
	Equipment	6
	Location.....	6
	Horn Preparation	6
	Horn Installation	6
A	Reference Drawings	9

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1 12 VDC Horn Installation

Reference Drawings:

Wiring Guide; Gyrus Outdoor Horn Kits **DWG-3068821**

Refer to **DWG-3068821** in **Appendix A** for general wiring details of LED scoreboard horns.

The following section describes the 12 VDC trumpet horn installation and compact horn replacement for an LED scoreboard. Assemblies are available for both 120 and 240 VAC scoreboards.

Note: Disconnect power to the scoreboard before installing the horn!

Equipment

The trumpet horn kit consists of:

- a horn
- a metal mounting angle (trumpet horn only)
- a metal enclosure and 12 volt power plate assembly
- a horn interface card and harness
- assorted #10 screws, tapping screws, and nuts

Location

The horn entrance panel is typically located in the center of the lower half of the scoreboard (refer to the component location drawings included in the scoreboard manual for specific location). The horn will be mounted directly to this entrance panel. The panel may be secured only by screws, or it may have hinges to swing open.

Horn Interface Card and Horn Plate Assembly

- If the horn kit was ordered with the scoreboard, the horn interface card and horn plate assembly were likely installed at the factory; skip ahead to **Trumpet Horn Installation (p.2)**.
- If these components have not been installed, follow the instructions under **Horn Interface Card Installation (p.1)** and **Horn Plate Assembly Installation (p.2)**.

Horn Interface Card Installation

Reference Drawings:

Horn Card Installation; Gyrus Driver..... **DWG-3067686**

- Current 120 VAC horn card part number: 0P-1192-0399
- Current 240 VAC horn card part number: 0P-1150-0255

Attach the horn interface card inside the scoreboard driver enclosure and make the proper wiring connections from the horn interface card to the driver per **DWG-3067686**.

Horn Plate Assembly Installation

Reference Drawings:

Plate Assy: Outdoor SCBD 12VDC Horn- AS5K **DWG-128944**

DWG-128944 shows the components of the horn plate assembly.

1. Open the horn entrance panel as described in **Location (p.1)**.
2. On the interior of the back panel of scoreboard, drill two 5/32" holes 4" apart (these holes may have been pre-drilled at the factory). The enclosure is to be attached to the inside of the scoreboard and accessible when the entrance panel is opened.

Note: Be careful not to damage any internal components when drilling!

3. Attach the enclosure to the scoreboard using the #10 tapping screws provided.
4. Attach the plate assembly to the enclosure using #10 tapping screws provided.
5. Attach the cover to the enclosure using the #10 tapping screws provided.

Trumpet Horn Installation

Preparation

Reference Drawings:

Horn Assembly..... **DWG-320004**

1. Insert bushings into the appropriate 3/8" holes in the mounting angle.
2. Thread the two gray wires from the horn through the top of the mounting angle.
3. Attach the horn to the mounting angle using the #10 hardware provided.
4. Thread the two gray wires through the 3/8" hole in the rear of the mounting angle.

Installation

Reference Drawings:

Template, Hole Drilling, Trumpet Horn..... **DWG-83502**

F.Assy: 12V DC Horn Mounting- Outdoor LED SCBD **DWG-3067687**

1. Locate the horn entrance panel as described in **Location (p.1)**. Remove the 2" knockout on this panel. If a knockout has not been provided, use **DWG-83502** as a guide to drill one 3/8" hole and two 7/32" holes in the panel.

Note: Be careful not to damage any internal components when drilling!

2. Thread the two gray wires from the horn through the knockout (or 3/8" hole) in the scoreboard access panel.
3. Place horn/angle bracket assembly over the 2" knockout and 7/32" holes in the front panel of the scoreboard and attach using #10 hardware provided.
4. Using the wiring nuts provided, connect one gray wire from the horn to the black wire from the plate assembly. Connect the other gray wire to the red wire.
5. Route the 2-pin horn plate plug labeled **P3** to jack **J3** on the horn interface card, per **DWG-3067687**. If the harness does not reach, connect the 2-pin to 2-pin extension cable between the horn plate and the horn interface card as needed.
6. Close and secure the horn entrance panel.
7. To test the horn, power on the scoreboard and control console, and press **HORN**.

TI-2003 12 VDC Horn

Reference Drawings:

Harness: TI-2003, TI-2010, TI-2015 Horn Signal Cable.....	DWG-316634
Horn; 12VDC Trumpet, 120V Input, TI-2003	DWG-3026331
Horn Card Installation; Gyrus Driver.....	DWG-3067686

Refer to **DWG-3067686** for horn card installation. One main difference from the standard horn card installation, as illustrated in **DWG-316634**, is the 4-pin to 9-pin cable that connects from **J2** on the horn card to digit jack **J5** on the driver. This is to allow the horn to sound Shot/Stall Time =0 or Delay of Game =0.

Refer to **DWG-3026331** for instructions to mount a 12VDC trumpet horn to the TI-2003.

Compact Horn Replacement

Reference Drawings:

Assy; 12V DC Compact Horn, 120V or 240V, Gyrus Driver.....	DWG-3054721
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The compact horn is standard on certain scoreboards. Therefore, this section discusses the replacement of an existing horn.

1. Locate the horn entrance panel as described in **Location (p.1)** and open it.
2. Unscrew the wiring nuts that connect the existing horn to the plate assembly.
3. Remove the #10 hardware securing the existing horn.
4. Cut the two-pin plug off the new horn and strip 5/32" of insulation from each wire.

Note: Remember what wire was connected to which pin of the plug!

5. Using the wiring nuts provided, connect the Pin 2 wire from the horn to the black wire from the plate assembly. Connect the Pin 1 wire to the red wire.
6. Attach the new horn to the bracket using the #10 hardware.
7. Make wiring connections between the horn interface card, the horn plate assembly, and the existing scoreboard driver per **DWG-3054721**.
8. Close and secure the horn entrance panel.
9. To test the horn, power on the scoreboard and control console, and press **HORN**.

Schematics

Reference Drawings:

Schematic- Outdoor SCBD 12VDC Trumpet Horn- AS5K	DWG-128938
Schematic- Outdoor SCBD 12VDC Compact Horn	DWG-198618
240V Horn Conversation Kit, for 12V Trumpet Assy.	DWG-270554
Schematic, 240V OD SCBD 12VDC Trumpet Horn, AS5K	DWG-325028

Refer to the appropriate drawing above for detailed horn plate wiring schematics.

2 120 VAC Trumpet Horn Installation

Reference Drawings:

Wiring Guide; Gyrus Outdoor Horn Kits **DWG-3068821**

Refer to **DWG-3068821** in **Appendix A** for general wiring details of LED scoreboard horns.

The following section describes the 120 VAC trumpet horn installation for an LED scoreboard. Assemblies are only available for 120 VAC scoreboards.

Note: Disconnect power to the scoreboard before installing the horn!

Equipment

The trumpet horn kit consists of:

- a horn
- a metal mounting angle
- a horn interface card and harness
- assorted #10 screws, tapping screws, and nuts

Location

The horn entrance panel is typically located in the center of the lower half of the scoreboard (refer to the component location drawings included in the scoreboard manual for specific location). The horn will be mounted directly to this entrance panel. The panel may be secured only by screws, or it may have hinges to swing open.

Basic Horn Installation

- If the horn kit was ordered with the scoreboard, the horn interface card, mounting angle, and horn body were likely installed at the factory; follow the simple instructions below.
 - a. Locate the horn entrance panel as described in **Location (p.4)**.
 - b. Locate and screw the trumpet part of the horn into the horn body through the 2" knockout on this panel.
- If these components have not been installed, skip ahead to **Complete Horn Installation (p.4)**.

Complete Horn Installation

Horn Interface Card Installation

Reference Drawings:

Horn Card Installation; Gyrus Driver..... **DWG-3067686**

- Current 120 VAC horn card part number: 0P-1192-0399

Attach the horn interface card inside the scoreboard driver enclosure and make the proper wiring connections from the horn interface card to the driver per **DWG-3067686**.

Horn Installation

Reference Drawings:

Template, Hole Drilling, Trumpet Horn.....	DWG-83502
120V AC Horn Mounting, Outdoor Sports.....	DWG-1055044
Horn Mtg Instructions; 120V, TI-2003, Gyrus Driver.....	DWG-3054691
Horn Card Installation; Gyrus Driver.....	DWG-3067686

1. Locate the horn entrance panel as described in **Location (p.4)**. Remove the 2" knockout on this panel. If the knockout has not been provided, use **DWG-83502** as a guide to drill one 2" hole in the panel.

Note: Be careful not to damage any internal components when drilling!

2. Remove the trumpet from the horn body by unscrewing it.
3. Mount the bracket to the scoreboard frame using #10 hardware provided, and connect the horn harness to the horn wires with included wire nuts. Refer to **DWG-1055044**. For the TI-2003 only, refer instead to **DWG-3054691**.

When replacing a horn:

- a. Use 1/4" bolts, nuts, and lock washers provided to attach the horn body to the mounting bracket so that the horn is on the same side as the short flange (the horn should be pointing downward).
 - b. Be sure to mount the horn to the bracket so that the wires are facing the bottom of the cabinet to prevent water from running along them.
 - c. Attach the copper ground lug to the bottom-right corner of the mounting bracket using the bolt and serrated washer and nut provided, and connect the green wire from the horn to the ground lug (*does not apply to the TI-2003*).
4. Route the 2-pin horn plug labeled **P3** to jack **J3** on the horn interface card, per **DWG-3067686**. If the harness does not reach, connect the 2-pin to 2-pin extension cable between the horn and the horn interface card as needed.
 5. Close the access panel and screw the trumpet back onto the horn body.
 6. To test the horn, power on the scoreboard and control console, and press **HORN**.

Schematics

Reference Drawings:

Schematic: 120VAC Trumpet Horn.....	DWG-132173
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3 24 VDC Trumpet Horn Installation (Solar Power Option Only)

The following section describes the 24 VDC trumpet horn installation for a solar-powered LED scoreboard.

Note: Disconnect power to the scoreboard before installing the horn!

Equipment

The trumpet horn kit consists of:

- a horn
- a metal mounting angle
- a 24 volt outdoor horn harness
- assorted #10 screws, tapping screws, and nuts

Location

The horn entrance panel is typically located in the center of the lower half of the scoreboard (refer to the component location drawings included in the scoreboard manual for specific location). The horn will be mounted directly to this entrance panel. The panel may be secured only by screws, or it may have hinges to swing open.

Horn Preparation

Reference Drawings:

Horn Assembly..... **DWG-320004**

1. Insert bushings into the appropriate 3/8" holes in the mounting angle.
2. Thread the two wires from the horn through the top of the mounting angle.
3. Attach the horn to the mounting angle using the #10 hardware provided.
4. Thread the two wires through the 3/8" hole in the rear of the mounting angle.

Horn Installation

Reference Drawings:

Template, Hole Drilling, Trumpet Horn..... **DWG-83502**

Installation Diagram: Solar Power Scoreboard..... **DWG-315892**

Assembly Horn Kit Option..... **DWG-321327**

1. Locate the horn entrance panel as described in **Location (p.6)**. Remove the 2" knockout on this panel. If the knockout has not been provided, use **DWG-83502** as a guide to drill one 3/8" hole and two 7/32" holes in the panel.

Note: Be careful not to damage any internal components when drilling!

2. Thread the two wires from the horn through the knockout (or 3/8" hole) in the scoreboard access panel.
3. Place horn/angle bracket assembly over the knockout/hole and 7/32" holes in the front panel of the scoreboard and attach using #10 hardware provided.
4. Install the horn harness as shown in **DWG-321327**.

24 VDC Trumpet Horn Installation (Solar Power Option Only)

5. Make wiring connections between the horn and the existing scoreboard driver per **DWG-315892**, *Electrical Installation Details*.
6. Close and secure the horn entrance panel.
7. To test the horn, power on the scoreboard and control console, and press **HORN**.

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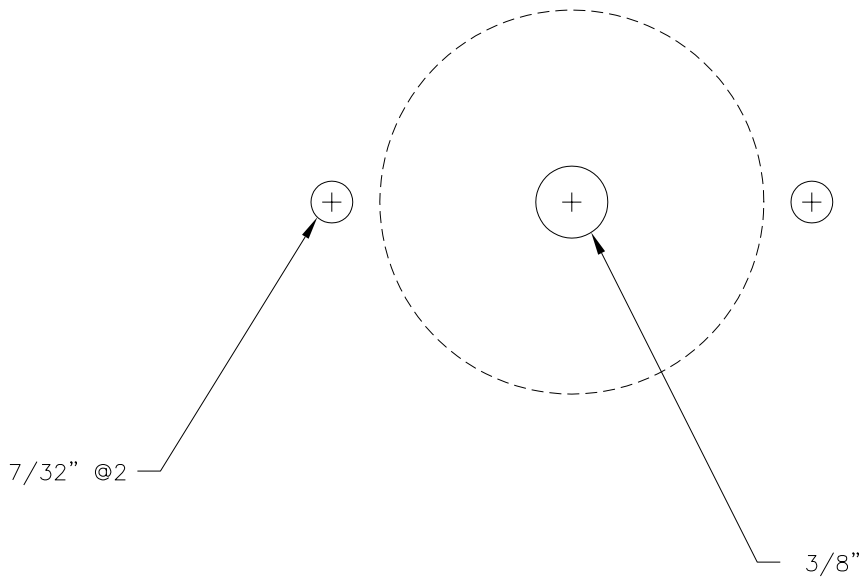
A Reference Drawings

Any contract-specific drawings take precedence over these general drawings.

Reference Drawings:

Template, Hole Drilling, Trumpet Horn.....	DWG-83502
Schematic- Outdoor SCBD 12VDC Trumpet Horn- AS5K	DWG-128938
Plate Assy: Outdoor SCBD 12VDC Horn- AS5K	DWG-128944
Schematic: 120VAC Trumpet Horn.....	DWG-132173
Schematic- Outdoor SCBD 12VDC Compact Horn	DWG-198618
240V Horn Conversation Kit, for 12V Trumpet Assy.	DWG-270554
Installation Diagram: Solar Power Scoreboard.....	DWG-315892
Harness: TI-2003, TI-2010, TI-2015 Horn Signal Cable.....	DWG-316634
Horn Assembly.....	DWG-320004
Assembly Horn Kit Option	DWG-321327
Schematic, 240V OD SCBD 12VDC Trumpet Horn, AS5K	DWG-325028
120V AC Horn Mounting, Outdoor Sports.....	DWG-1055044
Horn; 12VDC Trumpet, 120V Input, TI-2003	DWG-3026331
Horn Mtg Instructions; 120V, TI-2003, Gyrus Driver.....	DWG-3054691
Assy; 12V DC Compact Horn, 120V or 240V, Gyrus Driver	DWG-3054721
Horn Card Installation; Gyrus Driver.....	DWG-3067686
F.Assy: 12V DC Horn Mounting- Outdoor LED SCBD	DWG-3067687
Wiring Guide; Gyrus Outdoor Horn Kits	DWG-3068821

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THE DOTTED LINE INDICATES THE 2" KNOCKOUT

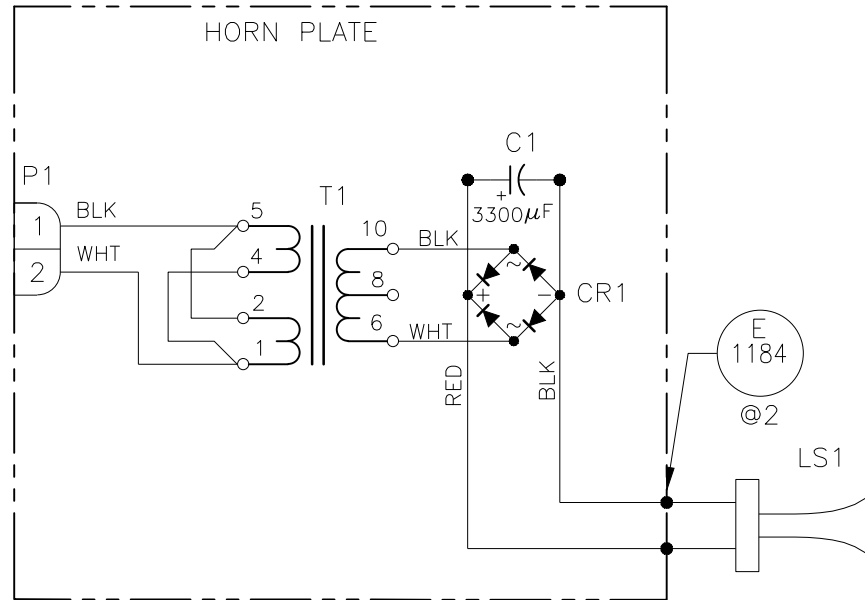
LINE UP THE DOTTED LINE WITH THE EDGES OF THE KNOCKOUT. DRILL THE 7/32" HOLES THROUGH THE PAPER.


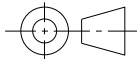
IF NO KNOCKOUT HOLE EXISTS, DRILL 3/8" & 7/32" HOLES NEAR BOTTOM OF FRONT PANEL NEAR ENTRANCE PLATE. BE CAREFUL NOT TO DAMAGE ANY INTERNAL COMPONENTS.

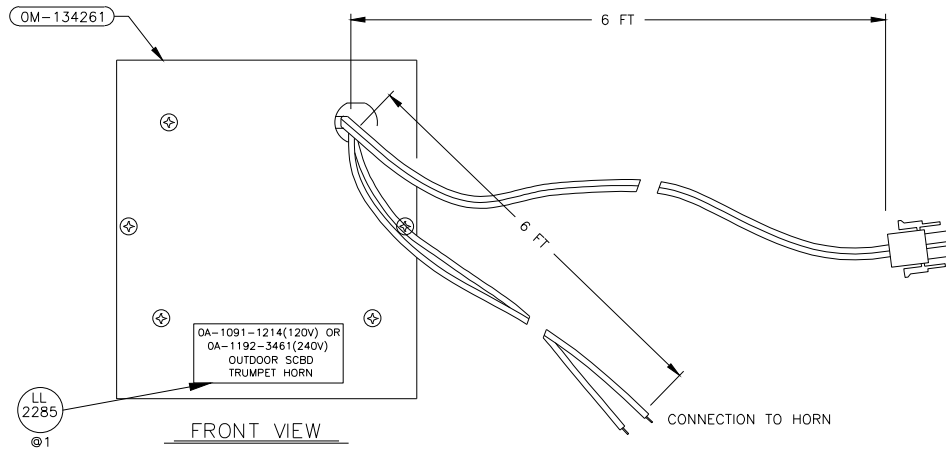
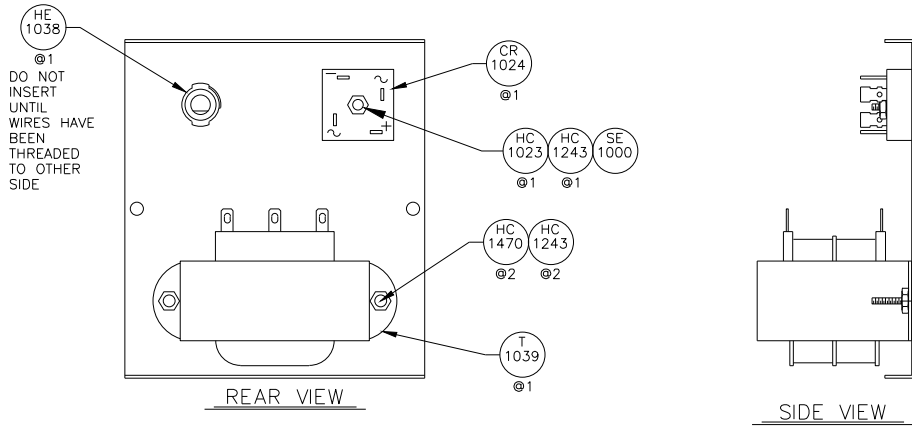
DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: STANDARD SCOREBOARDS			
TITLE: TEMPLATE, HOLE DRILLING, TRUMPET HORN			
DES. BY:		DRAWN BY: JMOEN	
		DATE: 20 JUN 96	
REVISION	APPR. BY:	1091-E07A-83502	
00	SCALE: 1=1		

REV.	DATE	DESCRIPTION	BY	APPR.

0A-1091-1214
12V TRUMPET HORN PLATE ASSY



REV 08	DATE: 13 SEP 19	PER CN-88357 REPLACED E-1084 W/ E-1184	BY: KDM	 <p>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2017 DAKTRONICS, INC. (USA)</p>	
REV 07	DATE: 27 MAR 17	SWITCHED TRANSFORMER TERMINAL 10 AND 6 PER EC-23483	BY: BTA		
REV 06	DATE: 08 OCT 12	ADDED WIRE COLOR FROM TRANSFORMER TO CR1 PER EC-7744	BY: JML		
REV 05	DATE: 13 APR 07	REMOVED OUTDOOR LED DRIVE FROM SCHEMATIC REMOVED WIRE FROM J17	BY: DKD		
PROJECT: STANDARD SCOREBOARDS				TITLE: SCHEMATIC- OUTDOOR SCBD 12VDC TRUMPET HORN- AS5K	
DATE: 06MAR00		DIM UNITS: INCHES [MILLIMETERS]		SHEET 1 OF 1	REV 08
SCALE: NONE		DO NOT SCALE DRAWING			
DESIGN:	JOB NO. P1091	FUNC - TYPE - SIZE R - 03 - A		128938	
DRAWN: JCM					



0A-1091-1213- 12V TRUMPET HORN KIT WITH PLATE ASSY AND HORN CARD. DS-1337

0A-1192-0093- 12V COMPACT HORN KIT WITH PLATE ASSY AND HORN CARD. DS-1520

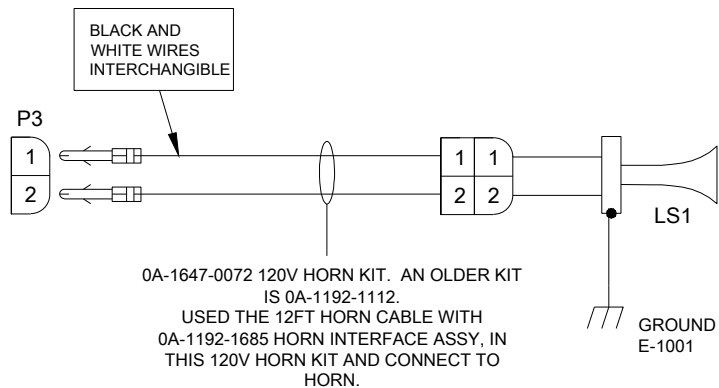
0A-1192-3455- 12V TRUMPET HORN KIT WITH PLATE ASSY, 240VAC. DS-1337

0A-1192-3585- 12V COMPACT HORN KIT WITH PLATE ASSY, 240VAC. DS-3585834

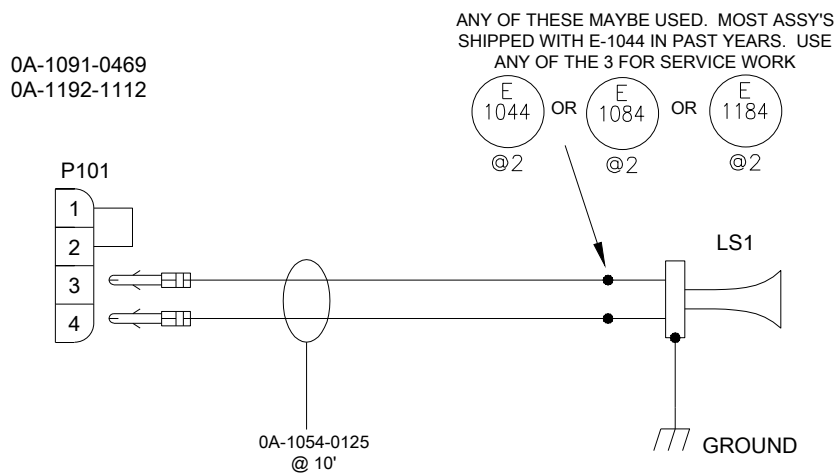
0A-1091-1240- 12V COMPACT HORN KIT WITH PLATE ASSY, 120VAC. DS-3585834

REV.	DATE	DESCRIPTION	BY	APPR.
08	26 MAR 19	PER CN-75334 REPLACING HC-1470 WITH HC-1023 ON CR-1024	MBC	
07	13 NOV 07	ADDED 0A-1192-3455 TO DRAWING REFERENCE	JWC	
06	30 MAY 06	CHANGED PLUG FROM A 4 PIN TO A 2 PIN	DMD	
05	20 NOV 02	CHANGED TRANSFORMER FROM T-1042 TO T-1039	ATB	
04	16 MAY 02	REMOVED AF-1007 PER ECO 33209.	MRB	
03	24 APR 02	ADDED LL-2285 PER ECO 33163.	MRB	
02	19 APR 02	CHANGED HC-1022 TO HC-1470.	MRB	
1	29JUN00	REPLACED OM-83330 WITH OM-134261	GDB	

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: STANDARD SCOREBOARDS			
TITLE: PLATE ASSY: OUTDOOR SCBD 12VDC HORN- AS5K			
DES. BY:	DRAWN BY: CMCADAM	DATE: 06MAR00	
REVISION	APPR. BY:	1091-E10A-128944	
08	SCALE: 1=3		



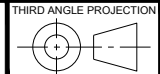
SCOREBOARDS BUILT BEFORE APRIL 2006



REV 09	DATE: 19 DEC 19	CN93940 REMOVED WIRE NUTS/BUTT SPLICE FROM HORN WIRES. ADDED IN 2 PIN UMNL CONNECTOR ONTO HORN	BY: JSF
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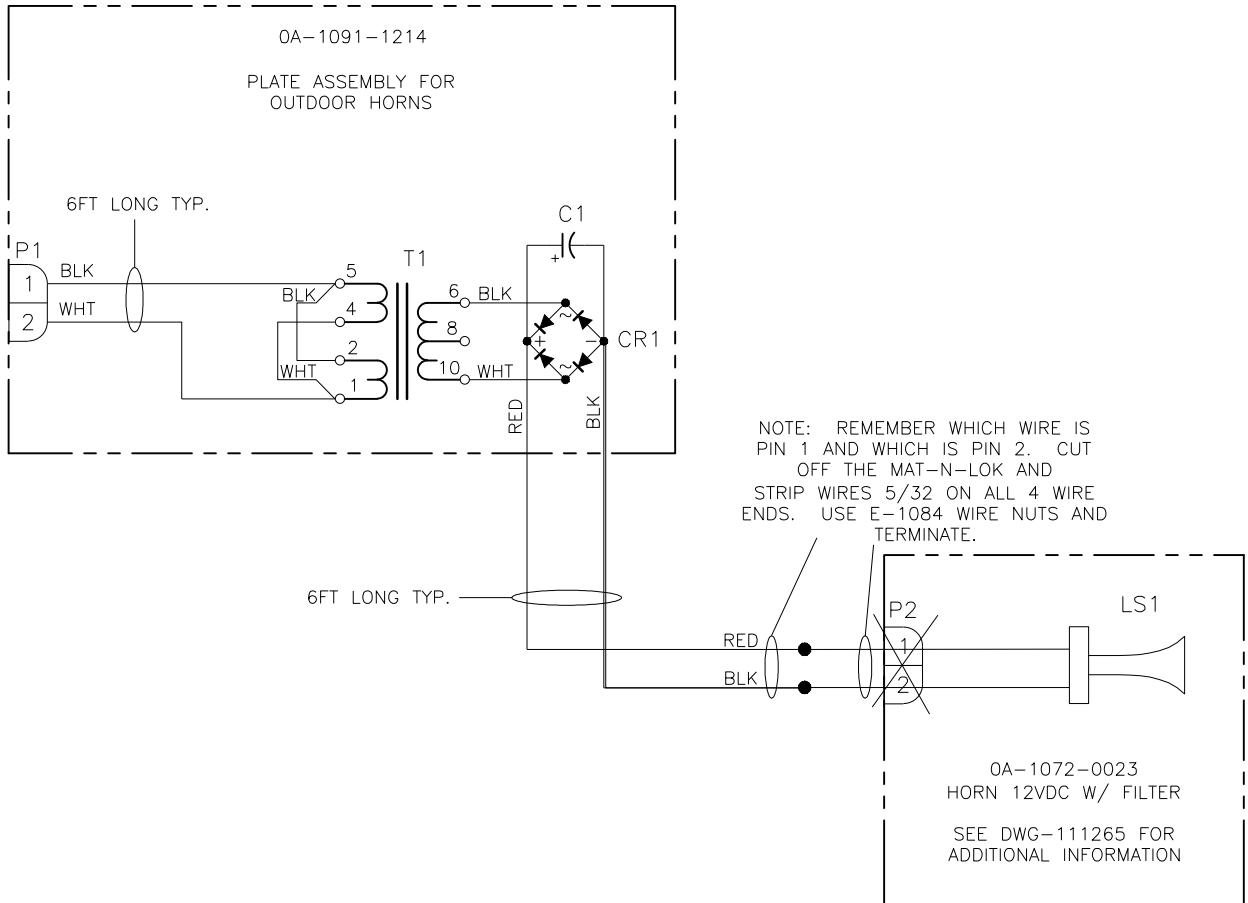
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DATE: 16 MAY 00	DIM UNITS: INCHES [MILLIMETERS]			
SCALE: NTS	DO NOT SCALE DRAWING			
DESIGN: RASMUS	JOB NO. P1091	FUNC - TYPE - SIZE R - 03 - A		
DRAWN: RASMUS			132173	

REV	DATE	DESCRIPTION	BY	CHKD
01	11 SEPT 04	REMOVED WIRE NUTS, CHANGED LABELS ON P1 & P2	JJS	
02	11 SEPT 04	CHANGED WIRE FROM 18 AWG TO 20 AWG	JJS	
03	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
04	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
05	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
06	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
07	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
08	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
09	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
10	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
11	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
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19	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	
20	11 SEPT 04	ADDED WIRE NUT TO WIRE	JJS	


0A-1192-0093
12V COMPACT HORN, 120V ACTIVATION

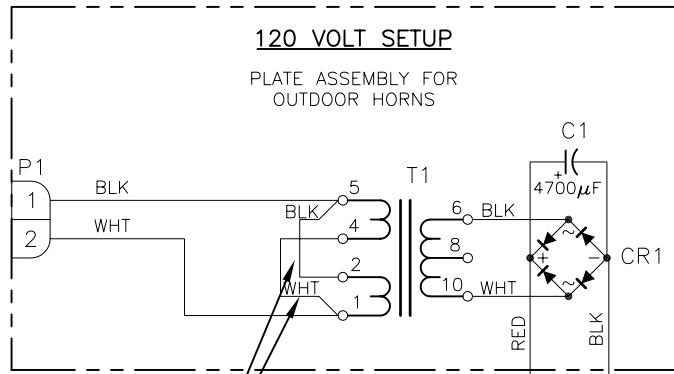
THIS ASSEMBLY INCLUDES 0A-1072-0023 HORN AND
0A-1091-1214 PLATE ASSY SHOWN HERE.

NOTE: 0A-1072-0023 HORN IS PRIMARILY USED IN A FINAL
ASSEMBLY WHICH REQUIRES THE 2 PIN MAT-N-LOK.
0A-1091-1214 ASSEMBLY IS PRIMARILY USED WITH ASSEMBLIES
WHICH REQUIRE WIRE NUTS.

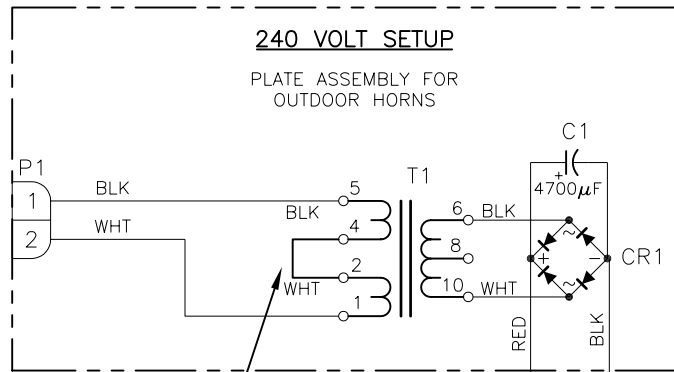


REV 04	DATE: 16 JUL 12	PER EC-6420 REMOVED CAPACITOR VALUE	BY: ZR
REV 03	DATE: 01 AUG 11	UPDATED DETAILS TO SHOW THE ASSEMBLY BETTER	BY: MWM
REV 02	DATE: 30 OCT 07	REPLACED E-1034 WITH E-1084.	BY: MJK
REV 01	DATE: 5 APR 06	UPDATED P1 ON 0A-1192-1214 TO A 2PIN	BY: DMD

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		DO NOT SCALE DRAWING	
PROJ: STANDARD SCOREBOARDS TITLE: SCHEMATIC- OUTDOOR SCBD 12VDC COMPACT HORN			
DESIGN: DULSCHM		DRAWN: DULSCHM	
SCALE: NONE		DATE: 17 OCT 03	
SHEET	REV	JOB NO:	FUNC-TYPE-SIZE
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			198618



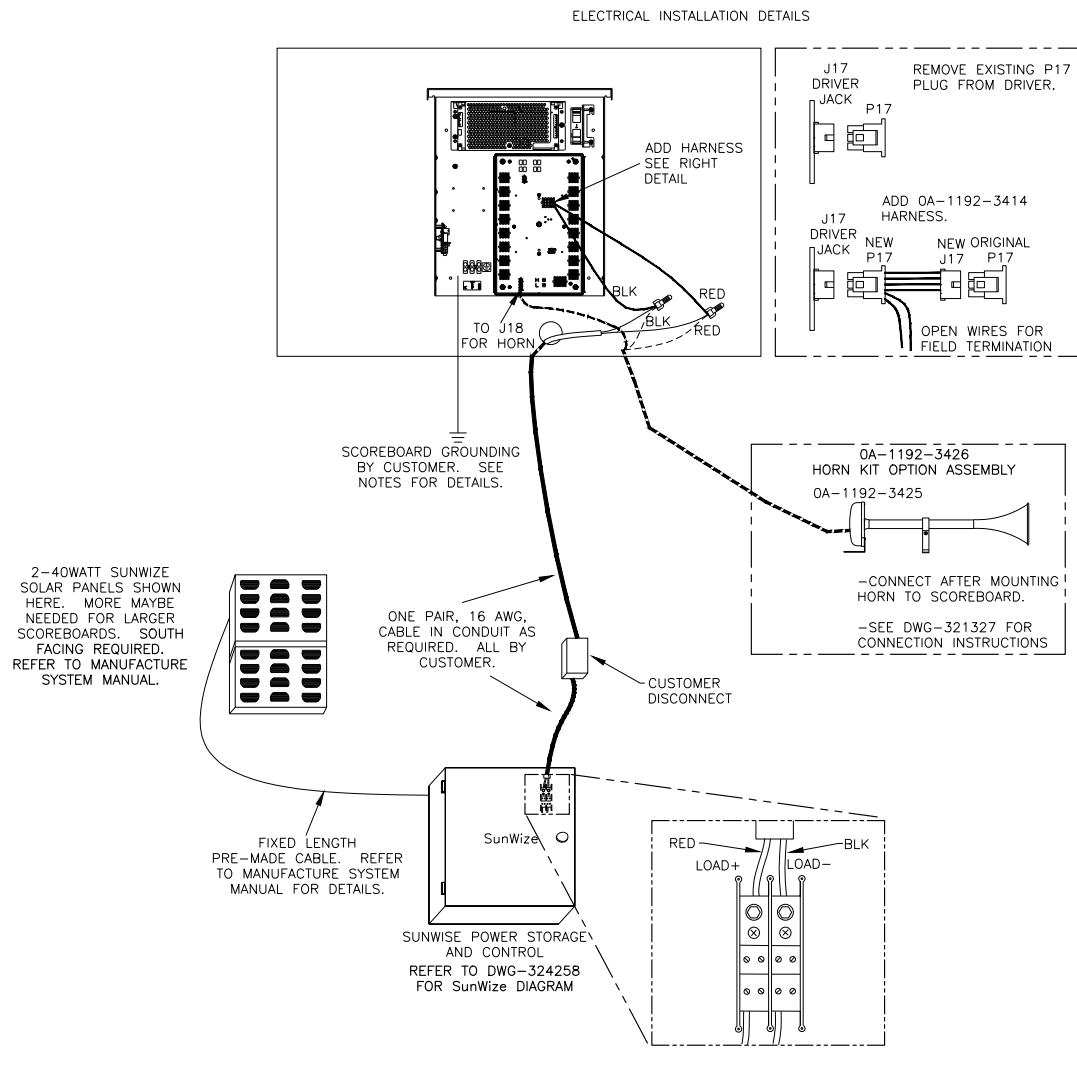
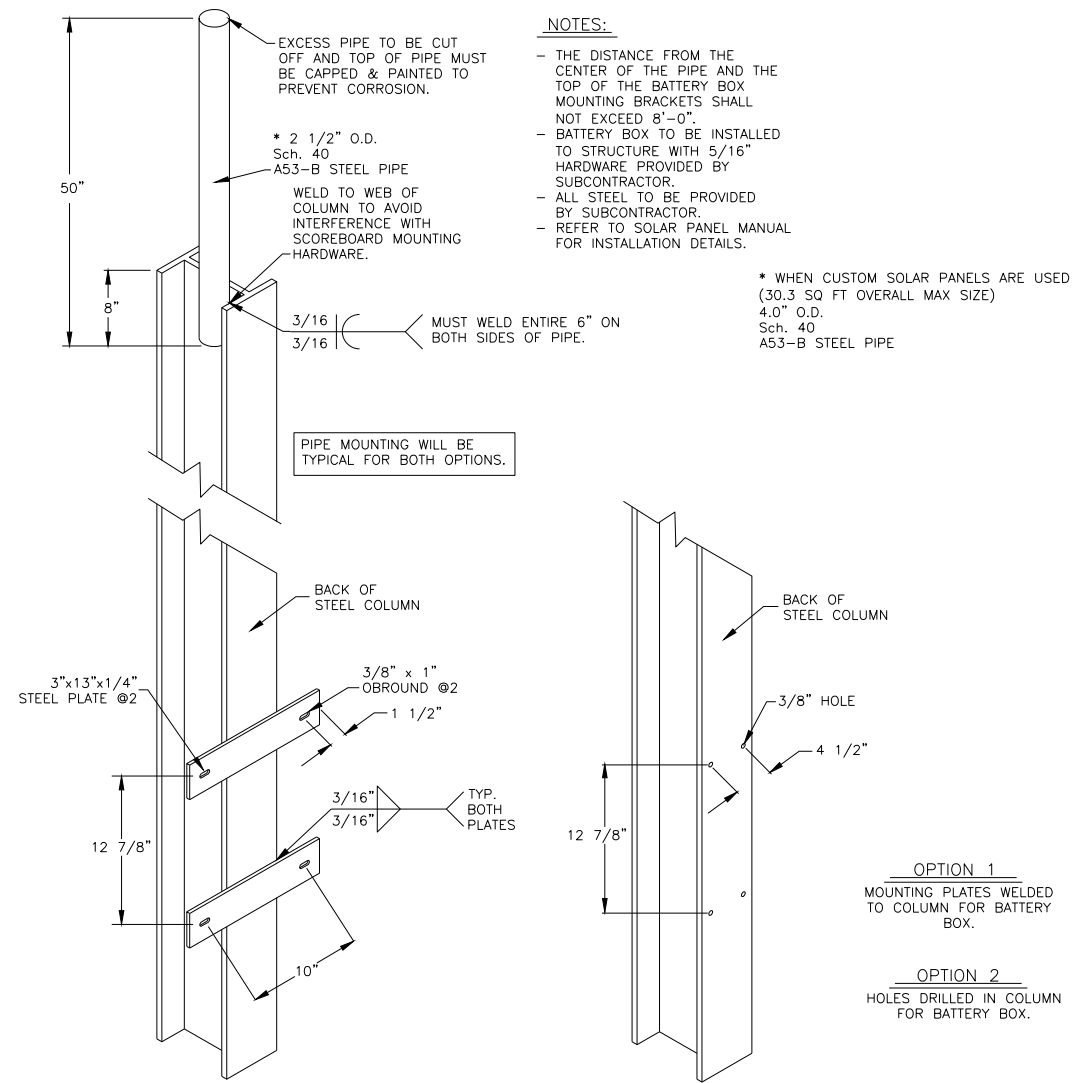
CUT THESE TWO WIRES AS CLOSE TO T1 PIN 1, AND PIN 5 AS POSSIBLE. AND DISCARD THE WIRES THAT ARE ON PINS 2&4.



INSTALL 0A-1192-3282, 3" TRANSFORMER CONVERSION JUMPER BETWEEN PINS 2&4

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DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: OUTDOOR LED			
TITLE: 240V HORN CONVERSION KIT, FOR 12V TRUMPET ASSY.			
DES. BY:		DRAWN BY: DDINING	
		DATE: 27 APR 06	
REVISION	APPR. BY: MMILLER	1192-R01A-270554	
00	SCALE: NONE		

REV.	DATE	DESCRIPTION	BY	APPR.



NOTES:

IT IS THE RESPONSIBILITY OF THE ELECTRICAL INSTALLATION CONTRACTOR TO ENSURE THAT ALL ELECTRICAL WORK PERFORMED ON SITE MEETS OR EXCEEDS ALL LOCAL AND NATIONAL ELECTRICAL CODES.

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE NATIONAL ELECTRICAL CODE WITH MORE THAN 10 OHMS GROUND RESISTANCE.

POWER CONTROL FOR DAKTRONICS SUPPLIED EQUIPMENT IS NOT PROVIDED BY DAKTRONICS UNLESS IT IS SPECIFICALLY NOTED IN THE CONTRACTUAL AGREEMENT.

BECAUSE EACH INSTALLATION IS UNIQUE, DAKTRONICS OFFERS THESE INSTRUCTIONS AS GUIDELINES ONLY. DAKTRONICS, INC. ASSUMES NO LIABILITY IF INSTALLATION STEPS HAVE BEEN OMITTED OR OTHER NECESSARY PROCEDURES ARE NOT INCLUDED IN THIS SYSTEM RISER DIAGRAM.

THE CONTRACTUAL AGREEMENT WILL DETERMINE THE PARTY OR PARTIES RESPONSIBLE FOR ITEMS LISTED AS FIELD INSTALLED. THIS DRAWING IS NOT INTENDED TO DETERMINE RESPONSIBILITIES AND SHOULD BE USED FOR REFERENCES ONLY.

ACTUAL PLACEMENT OF ELECTRICAL COMPONENTS, SUCH AS PANEL BOARDS, A/C'S, AND SPLICE PANELS, MAY VARY. PLEASE REFERENCE THE SYSTEM SHOP DRAWING FOR THIS DETAIL. THIS DRAWING REPRESENTS A GENERAL MOUNTING LOCATION ONLY.

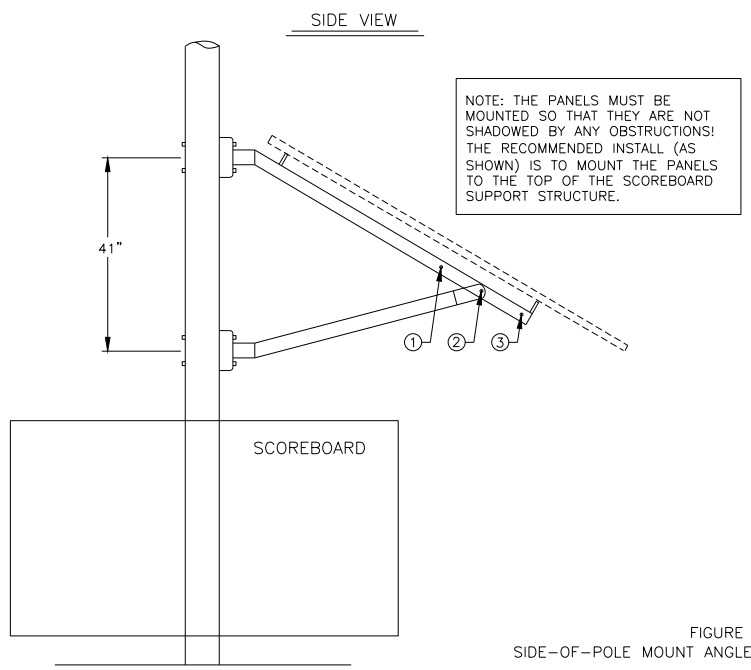
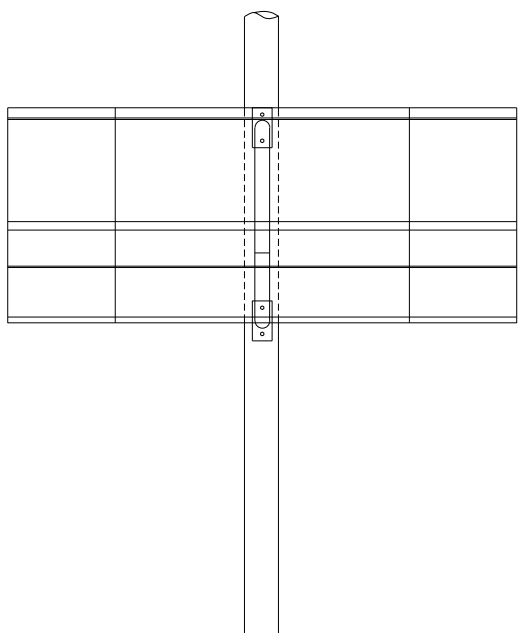


FIGURE 2
SIDE-OF-POLE MOUNT ANGLE ADJUSTMENT (TYPICAL)



ELEVATIONS	ANGLE DEGREE FROM HORIZONTAL	DISTANCE X	HOLE NO
	55	41"	2

THIS PANEL ANGLE WILL BE SUFFICIENT FOR MOST U.S. INSTALLATIONS. FOR EXTREME NORTH AND SOUTH SITES REFER TO THE SOLAR SYSTEM INSTALLATION MANUAL FOR MORE ACCURATE POSITIONING.

- SYSTEM INSTALL:** REFER TO THE MANUFACTURER'S MANUAL FOR DETAILED INSTRUCTIONS (FUSES MAY NEED TO BE REMOVED PRIOR TO ELECTRICAL CONNECTION).
- SYSTEM TEST:**
1. REFER TO THE MANUFACTURER'S MANUAL TO VERIFY THAT THE STATUS LEDS ON THE CHARGE CONTROLLER INDICATE NORMAL OPERATION AND FULLY CHARGED BATTERIES. ENSURE THAT THE BATTERIES DO FULLY CHARGE BEFORE TURNING THE SYSTEM OVER TO THE CUSTOMER
 2. MEASURE THE VOLTAGE BETWEEN THE PV+ AND PV- TERMINALS ON THE CHARGE CONTROLLER. IF THE PANELS ARE PROPERLY CONNECTED THERE SHOULD BE MORE THAN 24V ON THESE TERMINALS. THERE MAY BE SLIGHTLY LESS IF THE BATTERIES ARE NOT FULLY CHARGED.

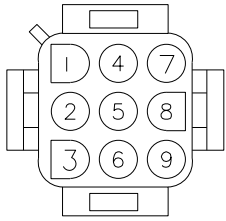
REV	DATE	DESCRIPTION	BY
REV 07	29 MAY 15	REPLACED PCB IN ELECTRICAL INSTALLATION DETAILS	MJP
REV 06	28 JUL 14	ADDED NOTE ABOUT CUSTOM SOLAR PANEL SIZES AND STEEL PIPE SIZES	KSD
REV 05	10 MAR 11	UPDATED TITLE BLOCK AND BORDER. SET ALL TEXT TO .080 SIZE	MWM
REV 04	17 MAY 10	UPDATED SCBD AND HARNESS SECTION PER ADDITIONAL ABILITIES FOR MULTI-DRIVER SOLAR	MWM
REV 03	08 JUN 09	ADDED INSTALLATION NOTES ON SIDE VIEW	RMS

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PROD: OUTDOOR LED SCOREBOARD TITLE: INSTALLATION DIAGRAM: SOLAR POWER SCOREBOARD		
DESIGN: MMILLER	DRAWN: ARICHTE	DATE: 23 AUG 07
SCALE: 1=1		
SHEET 07	REV P1192	JOB NO. R-01-C
		FUNC-TYPE-SZE
		315892

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BOTTOM VIEW

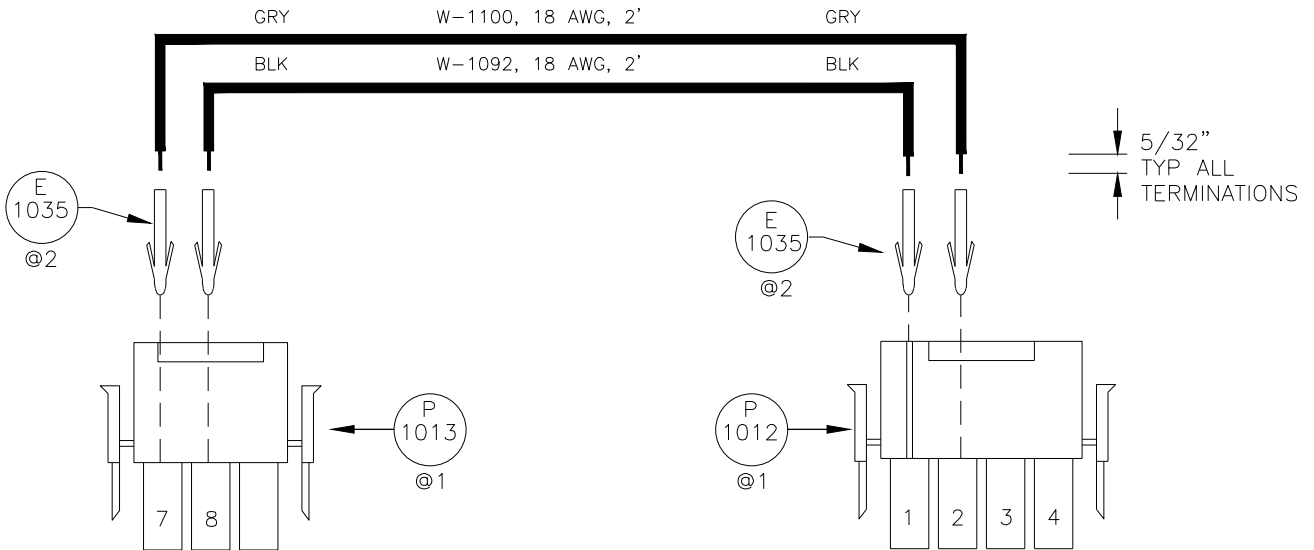
P-1013



0A-1192-0393

CABLE ASSEMBLY INSTRUCTIONS:

- CUT TWO 2' LENGTHS OF W-1100 AND W-1092
- STRIP ALL ENDS 5/32"
- CRIMP ALL WIRE ENDS WITH E-1035'S
- TERMINATE WIRES PER SCHEMATIC DETAIL



FIELD INSTALLATION INSTRUCTIONS:

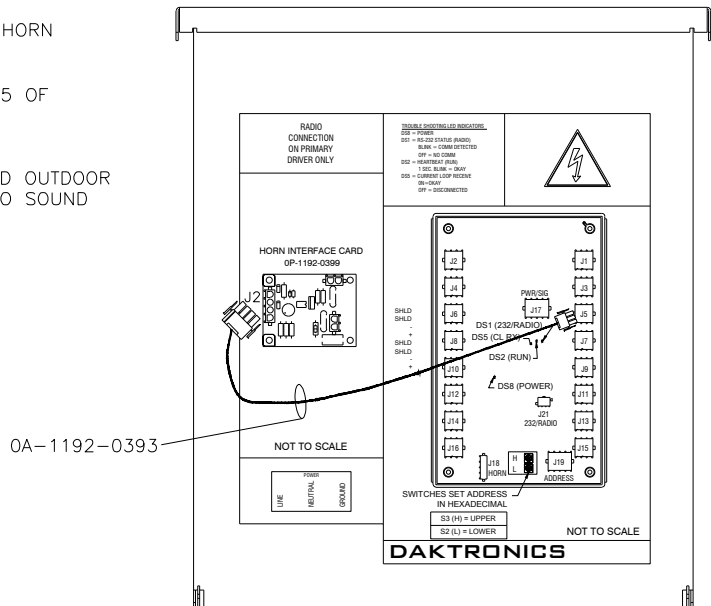
-REMOVE EXISTING 4PIN TO 4PIN HORN HARNESS FROM J2 ON HORN INTERFACE CARD AND J18 OF DRIVER

-INSTALL HORN SIGNAL CABLE (0A-1192-0393). CONNECT TO J5 OF DRIVER AND J2 OF HORN INTERFACE CARD. SEE BELOW

NOTE

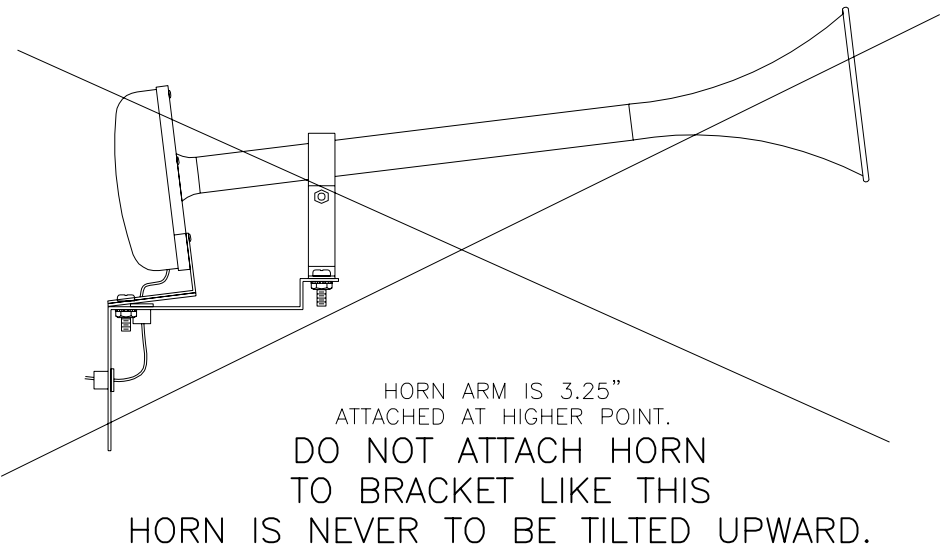
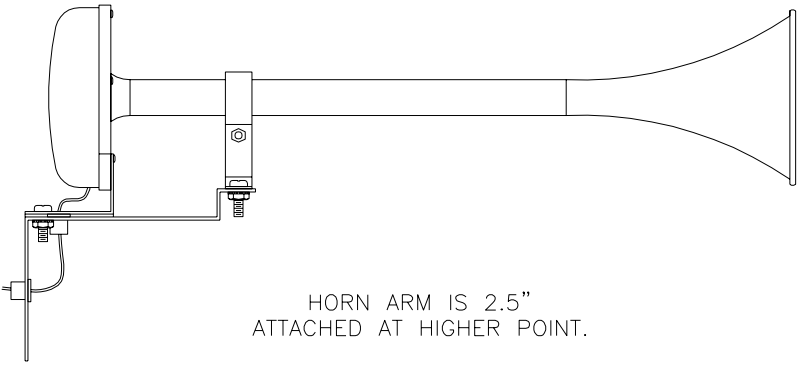
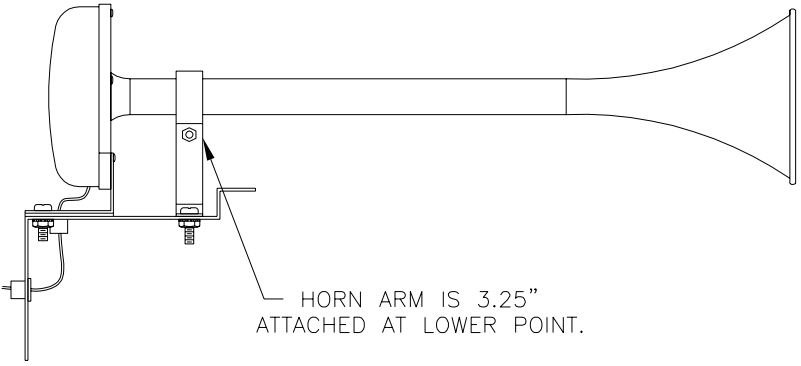
0A-1192-0393 HARNESS IS TYPICALLY USED FOR LACROSSE AND OUTDOOR BASKETBALL APPLICATIONS WHEN HORN OPERATION IS DESIRED TO SOUND WHEN SHOT/STALL TIME =0 OR DELAY OF GAME =0

OUTDOOR DRIVER ENCLOSURE



0A-1192-0393

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		PROJ: OUTDOOR LED SCOREBOARDS TITLE: HARNESS: TI-2003, TI-2010, TI-2015 HORN SIGNAL CABLE	
DESIGN:		DRAWN: SCOLGRO	
SCALE: NONE		DATE: 15 AUG 07	
REV	DATE:	SWAPPED PINS 7 & 8 ON P-1013 ADDED FIELD INSTALL PORTION AND 0A-1192-0393	BY: DCS
01	08 JUN 15		
SHEET		REV	JOB NO:
		01	P 1192
		FUNC -TYPE-SIZE	
		E - 10 - A	
			316634



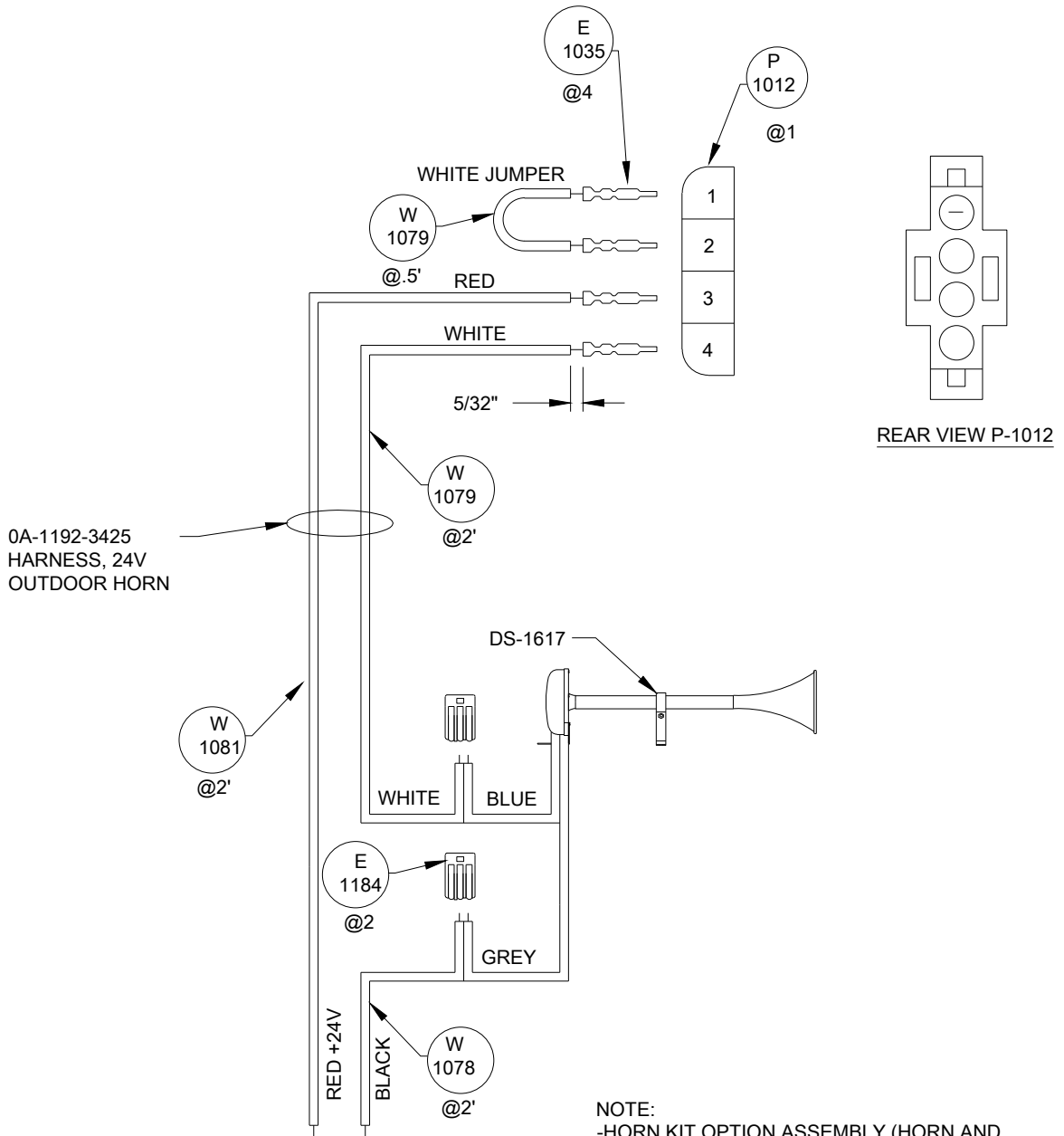
NOTE:

1. LOCATION OF HORN ARM STAND MUST BE AT LOWER POINT ON BRACKET IF ARM IS 3.25" TO INSURE THAT HORN TILTS DOWN
2. IF HORN ARM IS LESS THEN 2.5" THEN ATTACH TO HIGHER POINT ON BRACKET.

REV.	DATE	DESCRIPTION	BY	APPR.
01	18 JUL 08	ADDED "HORN IS NEVER TO BE TILTED UPWARD"	KDD	

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PROD: OUTDOOR TENNIS DISPLAYS DAKTRONICS, INC. BROOKINGS, SD 57006	
TITLE: HORN ASSEMBLY	
DES. BY: KDRAGT	DRAWN BY: KDRAGT
DATE: 12 NOV 07	
REVISION	APPR. BY:
01	SCALE: 1=4
1192-E10A-320004	

0A-1192-3426
HORN KIT OPTION, 24V, OUTDOOR




NOTE:
-HORN KIT OPTION ASSEMBLY (HORN AND HARNES) ASSEMBLED IN FIELD.

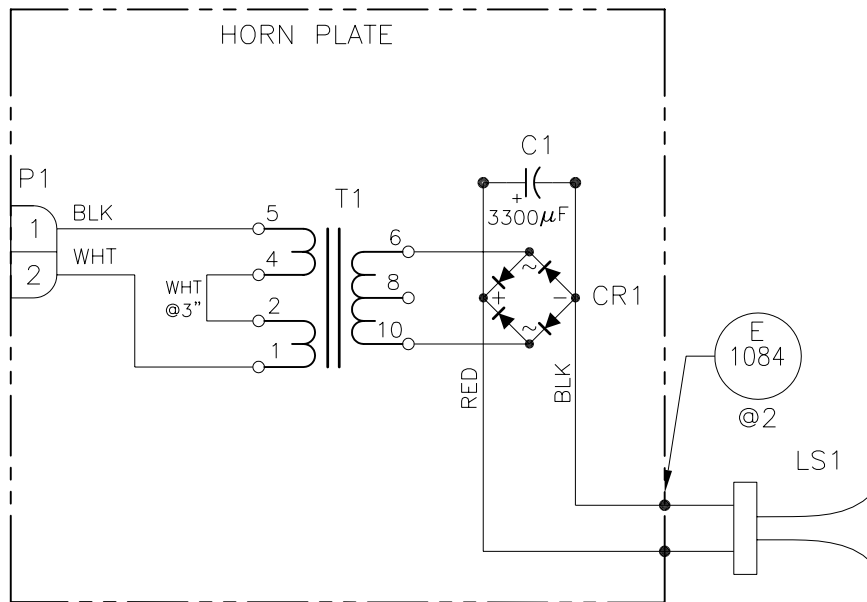
-CONNECT HORN AS SHOWN AFTER MOUNTING TO SCOREBOARD.

-CONNECT RED AND BLACK POWER OF ASSEMBLY TO RED AND BLACK 24V POWER IN FROM SCOREBOARD USING EXISTING WIRE NUTS.

-SEE DWG-315892 FOR INSTALLATION DETAIL

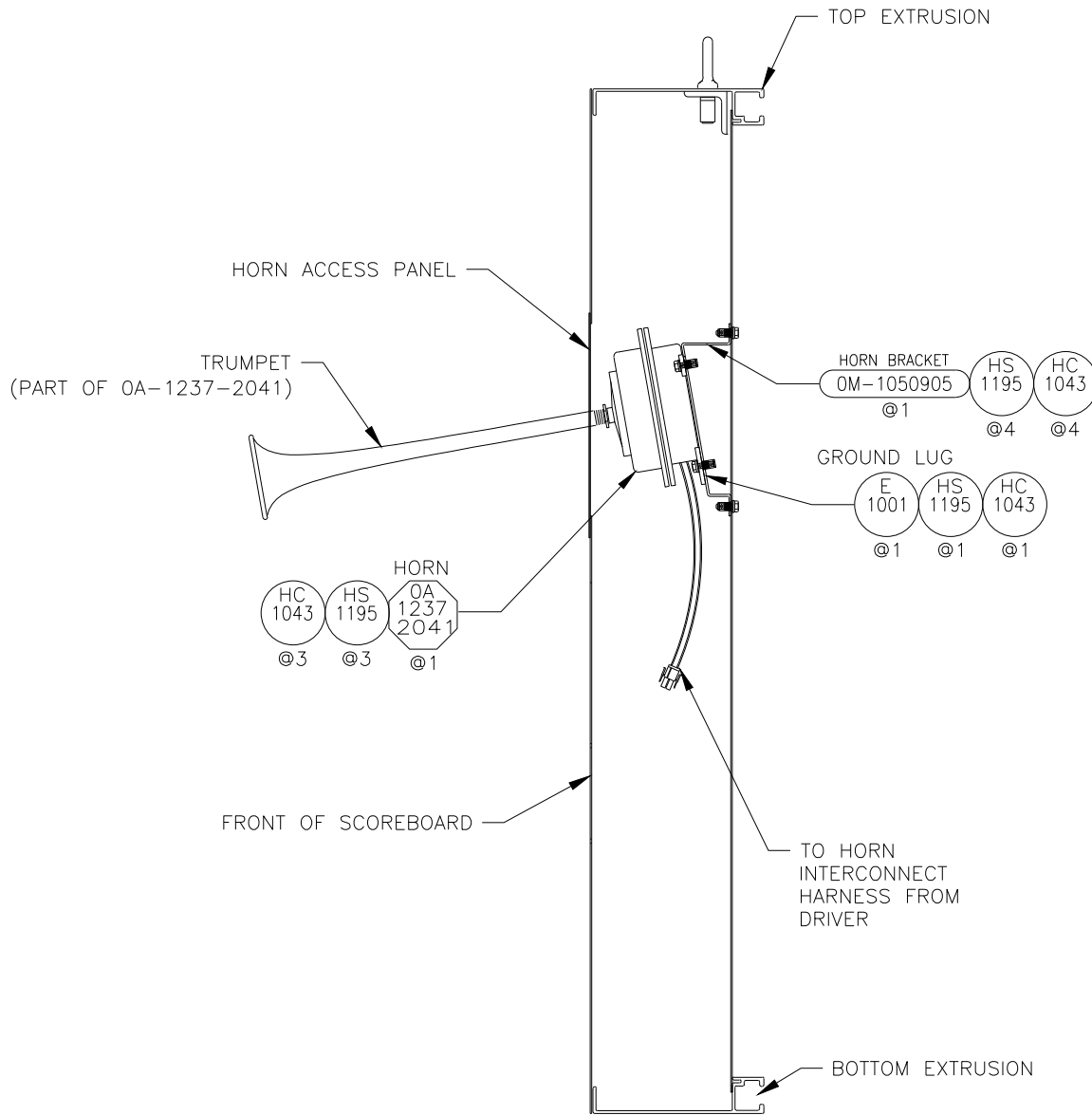
 DAKTRONICS, INC. BROOKINGS, SD 57006		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2014 DAKTRONICS, INC.	
		DO NOT SCALE DRAWING	
PROJ: OUTDOOR LED SCOREBOARDS TITLE: ASSEMBLY HORN KIT OPTION			
DESIGN: JCARLSON		DRAWN: JCARLSON	
SCALE: NONE		DATE: 01 OCT 07	
REV 01	DATE: 29 OCT 14	REPLACED E-1084 @2 W/ E-1184 @2.	BY: SMB
SHEET	REV 01	JOB NO: 1192	FUNC -TYPE-SIZE R - 10 - A
			321327

OA-1192-3461
 12V TRUMPET HORN PLATE ASSY, 240VAC



DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: OUTDOOR STANDARD SCOREBOARDS			
TITLE: SCHEMATIC, 240V OD SCBD 12VDC TRUMPET HORN, AS5K			
DES. BY:		DRAWN BY: JWCARLSO	
		DATE: 09 NOV 07	
REVISION	APPR. BY:	1192-R03A-325028	
00	SCALE: NONE		


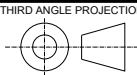
REV.	DATE	DESCRIPTION	BY	APPR.



SIDE VIEW

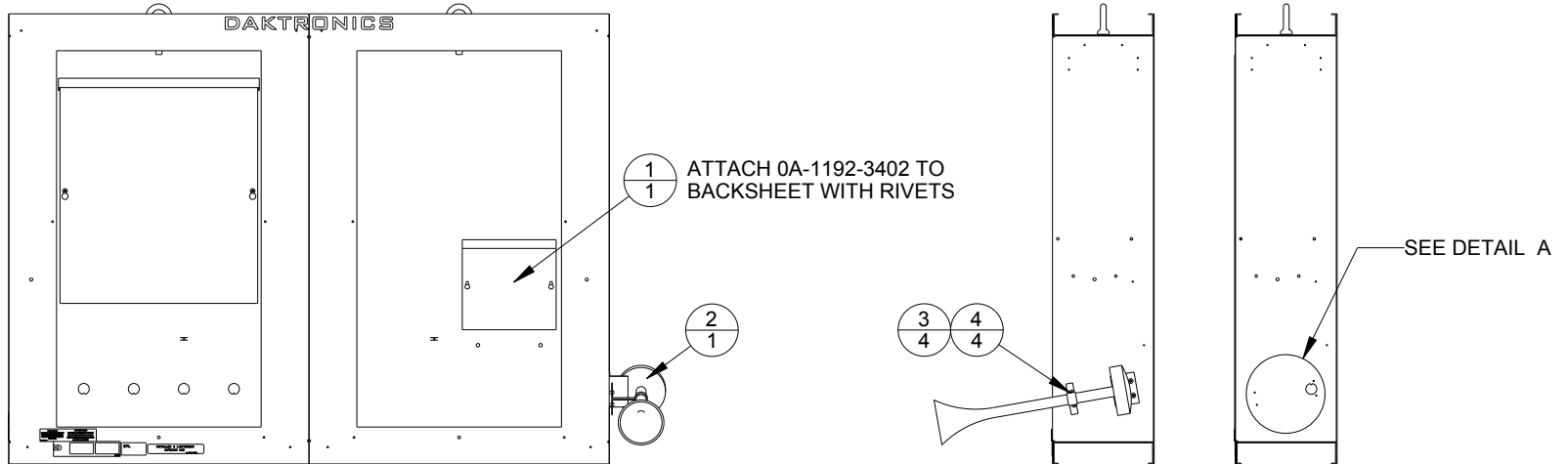
NOTES:

- REMOVE THE HORN ACCESS PANEL AND REMOVE REMOVE KNOCKOUT
- REMOVE THE TRUMPET FROM THE HORN. ATTACH THE HORN AND GROUND LUG TO HORN BRACKET USING THE SPECIFIED HARDWARE
- ATTACH THE GREEN GROUND WIRE FROM THE HORN TO THE GROUND LUG
- ATTACH THE HORN MOUNTING BRACKET W/ ATTACHED HORN TO THE BACKSHEET USING SPECIFIED HARDWARE
- CONNECT THE HORN HARNESS FROM OA-1192-1685 TO HORN USING WIRE NUTS. ATTACH HORN HARNESS TO THE HORN INTERCONNECT CABLE JACK LABELED J101.
- REATTACH HORN ACCESS COVER AND TRUMPET
- TEST THE HORN WITH THE SCOREBOARD TEST CONSOLE
- AFTER TESTING REMOVE THE TRUMPET AND WRAP THE TRUMPET IN BUBBLE WRAP. SECURE TRUMPET INSIDE THE DOOR BELOW THE HORN ACCESS PANEL

REV 04	DATE: 19 DEC 19	CN 93940 REMOVED E-1184 AND SHOW WHIP COMING OUT OF HORN WITH 2M UMNL PLUG	BY: JSF
 THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT 2018 DAKTRONICS, INC. (USA)			 THIRD ANGLE PROJECTION
PROJECT: OUTDOOR SCOREBOARD			
TITLE: 120V AC HORN MOUNTING, OUTDOOR SPORTS			
DATE: 26 MAY 11	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE: 1/8	DO NOT SCALE DRAWING		04
DESIGN: MCARSRU	JOB NO. P1647	FUNC - TYPE - SIZE E - 10 - A	1055044
DRAWN: MCARSRU			

REV 03	DATE: 13 SEP 19	PER CN-88357, REPLACED E-1084 W/ E-1184	BY: KDM
REV 02	DATE: 04 JAN 19	REPLACE DS-1046 WITH OA-1237-2041 PER EC-70630	BY: SJC
REV 01	DATE: 10 OCT 12	CHANGED LOCATION OF GROUNDING LUG PER EC-8073	BY: JLR

INDEX	NAME	QTY	DESCRIPTION
1	0A-1192-3402	1	ENCLOSURE 12V HORN
2	DS-1337	1	HORN, TRUMPET, 12VDC, 4.5A, 390 +/- 15HZ, 112 DB,
3	HC-1243	4	NUT, #10-24 HEX KEPS, ZN PLTD
4	HC-1470	4	MACH SCR, #10-24 X 0.625, PHIL PAN HEAD, BLK

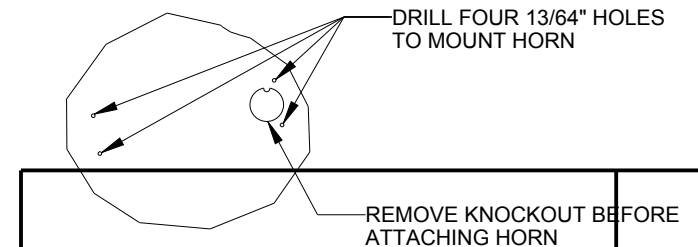


FRONT VIEW
(SHOWN WITHOUT DIGITS)

SIDE VIEW

NOTES:

1. DRILL 13/64" HOLES IN PLACE OF EXISTING HOLES SHOWN IN DETAIL A
2. REMOVE KNOCKOUT FROM SIDE OF SCOREBOARD
3. ATTACH HORN AS SHOWN WITH HC-1243 NUTS AND HC-1470 SCREWS
4. RIVET 0A-1192-3402 HORN ENCLOSURE TO BACKSHEET BY ALIGNING PRE-PUNCHED HOLES IN BACKSHEET WITH HOLES IN THE BACKSIDE OF THE HORN ENCLOSURE



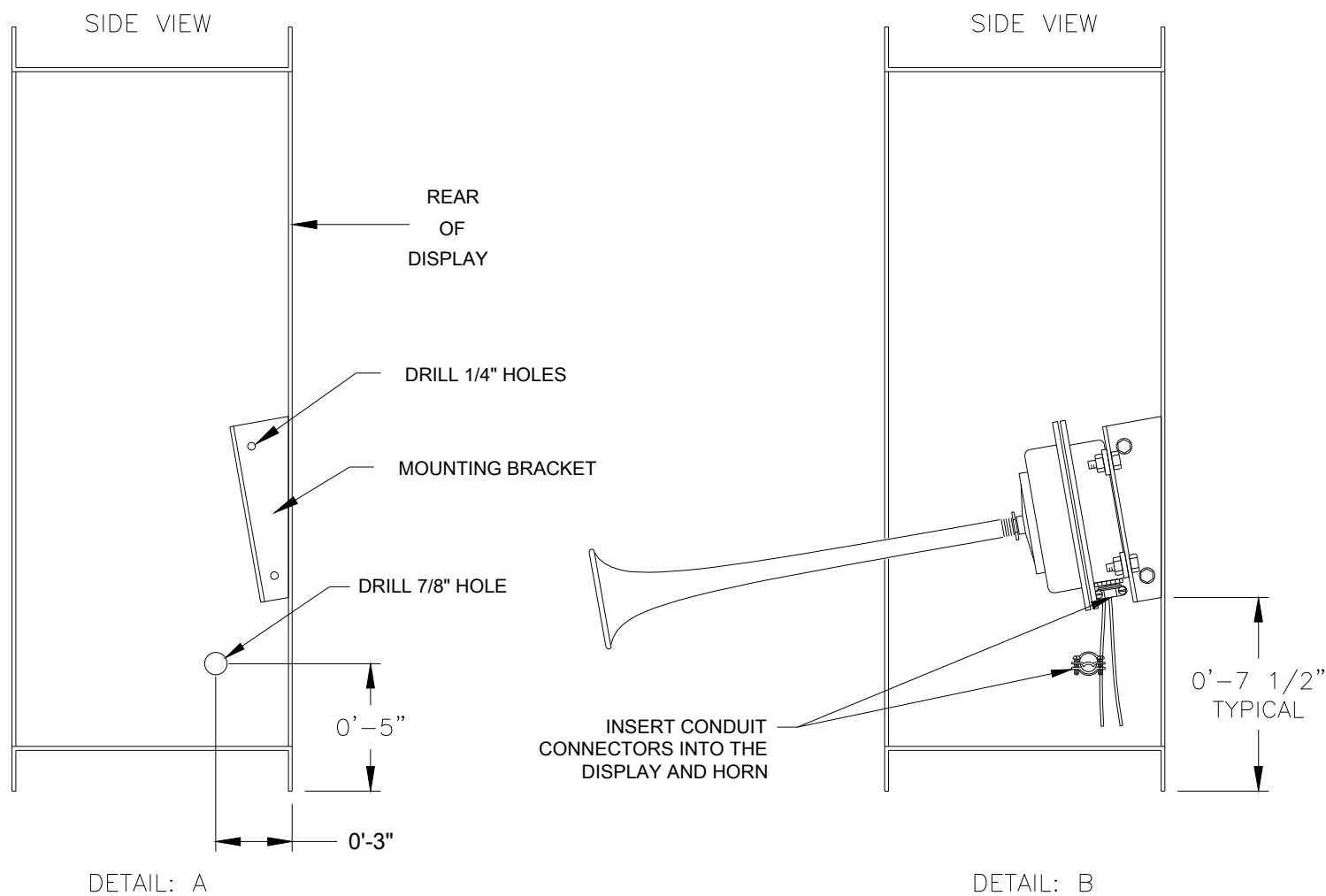
DETAIL A
SCALE 1/5

REV	DATE	BY	REV	REV	JOB NO.	FUNC. TYPE-SIZE	DATE
			1 OF 1	01	P 1753	E - 07 - A	3026331

		DAKTRONICS, INC. BROOKINGS, SD 57006
DO NOT SCALE DRAWING		
PROJ:	OUTDOOR SHEET METAL SCOREBOARDS	
TITLE:	HORN, 12VDC TRUMPET, 120V INPUT, TI-2003	
DESIGN:	DOPPELT	
SCALE:	1/15	
SHEET:	1 OF 1	
DRAWN:	ZWOODWA	
DATE:	30-JAN-19	

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NOTES:
 -THIS DRAWING DOES NOT DEPICT THE ACTUAL LAYOUT OF COMPONENTS.
 -THIS DRAWING EXPLAINS HOW THE HORN COMPONENTS ARE CONNECTED TO EACH OTHER.

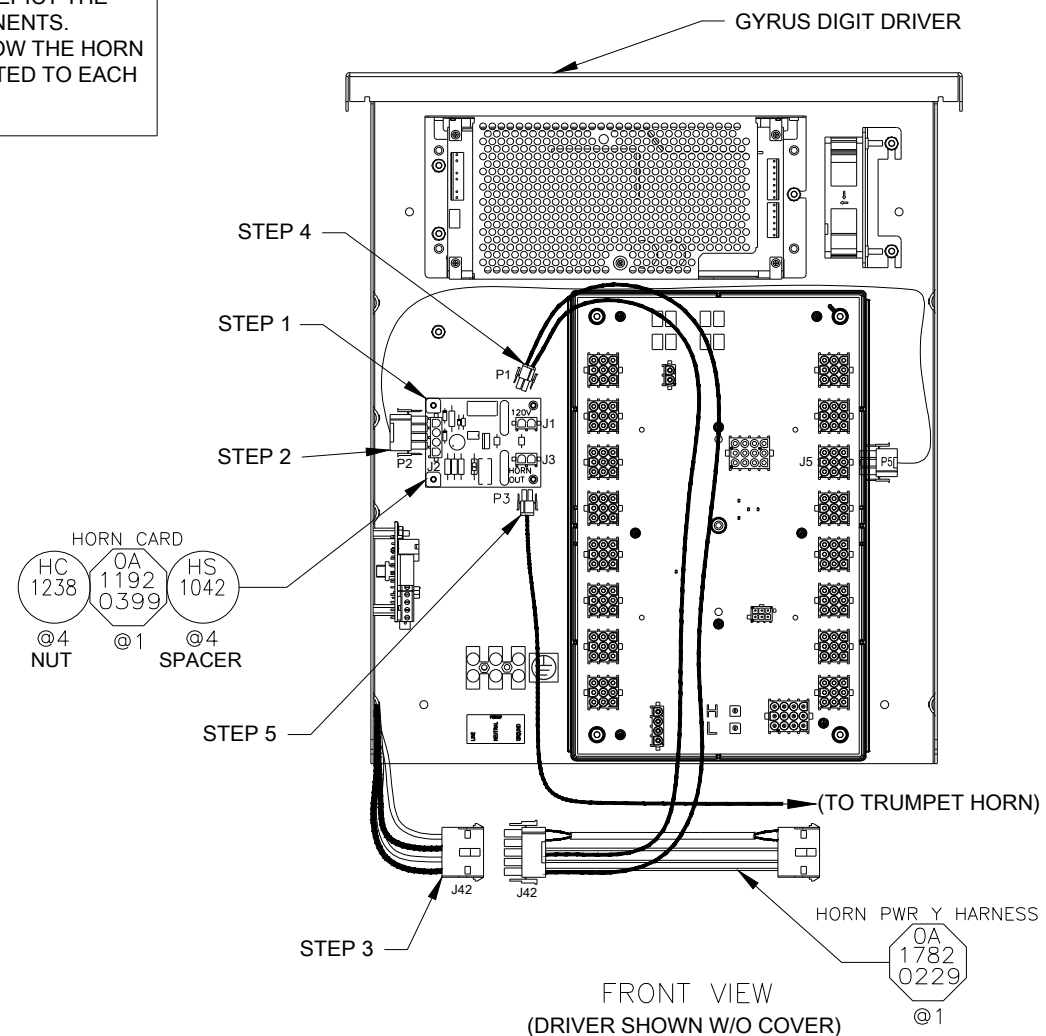


INSTALLATION PROCEDURE:

1. OPEN THE RIGHT DIGIT AND REMOVE THE COVER FROM THE DRIVER.
2. DRILL A 7/8" HOLE IN THE RIGHT SIDE OF THE DISPLAY PER THE DIMENSIONS SHOWN IN DETAIL A.
3. INSERT INCLUDED CONDUIT CONNECTORS INTO THE 7/8" HOLE AND INTO THE BOTTOM OF THE HORN AS SHOWN IN DETAIL B.
4. POSITION THE HORN MOUNTING BRACKET PER DETAIL B.
5. MARK THE MOUNTING BRACKET HOLE LOCATIONS ONTO THE SIDE OF THE DISPLAY.
6. DRILL 1/4" HOLES WHERE THE MOUNTING BRACKET HOLES WERE MARKED ON THE SIDE OF THE DISPLAY.
7. MOUNT THE HORN MOUNTING BRACKET WITH THE INCLUDED 1/4" HARDWARE.
8. ATTACH THE HORN TO THE BRACKET WITH INCLUDED 1/4" HARDWARE. *THE WIRES PROTRUDE OUT THE BOTTOM OF THE HORN. MAKE SURE THE HORN IS MOUNTED WITH THE BOTTOM DOWN.
9. THE GROUND WIRE WILL NOT BE CONNECTED, CUT THE GREEN WIRE AS SHORT AS POSSIBLE.
10. ROUTE THE WIRES THROUGH THE CONDUIT AND INTO THE DISPLAY.
11. ONCE THE HARNESS HAS BEEN RUN THROUGH THE CONDUIT, CONNECT THE CONDUIT TO THE CONDUIT CONNECTORS IN THE SIDE OF THE DISPLAY AND THE BOTTOM OF THE HORN.

WIRING INSTRUCTIONS:

1. USE HARNESS 0A-1192-1686 (2-WIRE BLK AND WHT @10' LONG) AND TERMINATE THE BLACK WIRE AND THE WHITE WIRE FROM THIS HARNESS TO THE TWO WIRES COMING OUT OF THE BOTTOM OF THE HORN. USE THE INCLUDED E-1044 BUTT SPLICES TO MAKE THIS TERMINATION. NOTE: WIRES FROM THE HORN CAN CONNECT TO EITHER THE BLACK OR WHITE WIRES THIS CONNECTION IS INTERCHANGEABLE.
2. REFERENCE SCHEMATIC DWG-132173 FOR CONNECTIONS MADE INSIDE DISPLAY TO THE HORN CARD (0P-1192-0399) PROVIDED IN HORN ASSY KIT.
3. ATTACH THE COVER ONTO THE DRIVER AND ATTACH THE REMOVED DIGIT TO THE DISPLAY FACE.



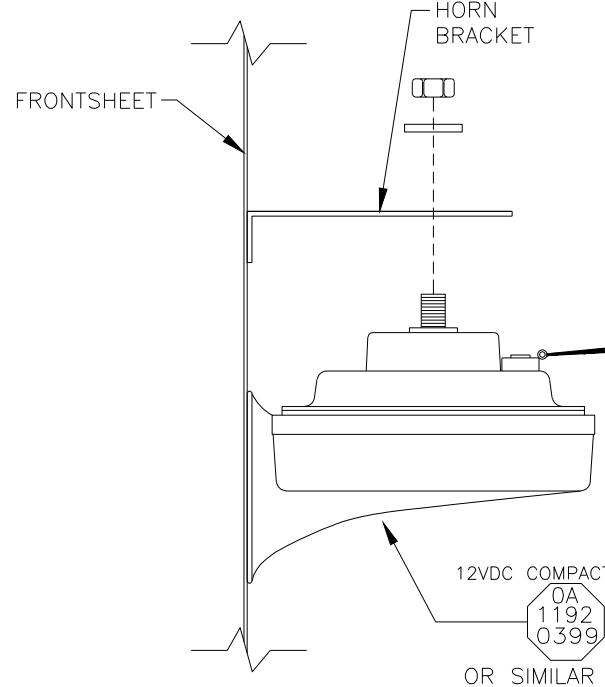
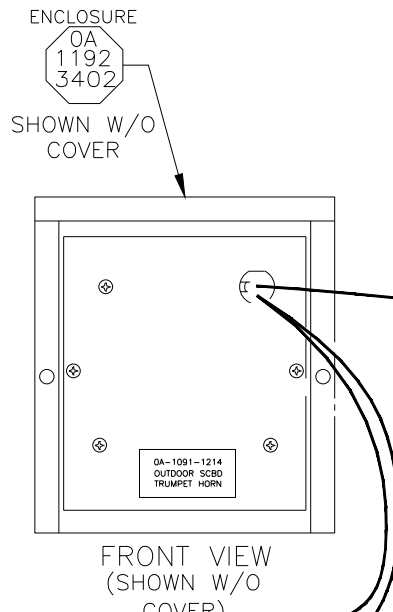
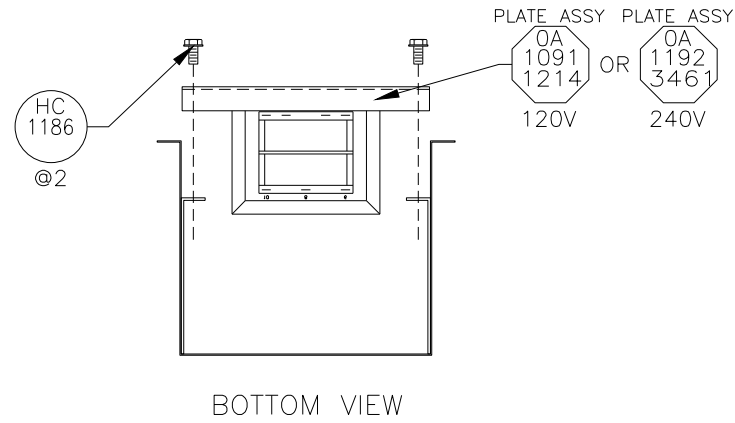
DRIVER COMPONENTS INSTALLATION PROCEDURE:

1. FROM THE 0A-1192-1685, HORN INTERFACE CARD ASSY. MOUNT 0P-1192-0399 HORN SWITCH CARD USING HS-1042 SPACER & HC-1238 LOCK NUT.

OTHER HORN SWITCH CARD PART NUMBERS ARE:
0P-1192-0399 - HORN INTERFACE; 5-35V IN, 120V OUT
0P-1150-0255 - HORN CARD FOR 240VAC INSTALLATIONS.
2. PLUG TI-2003 HORN SIGNAL HARNESS (0A-1192-0393) PLUG P5 INTO JACK J5 ON THE DRIVER AND PLUG P2 INTO JACK J2 OF 0P-1192-0399 HORN SWITCH CARD.
3. PLUG POWER ADAPTER HARNESS 0A-1782-0299 PLUG P42 INTO JACK J42 ON THE HARNESS LEAVING THE DRIVER.
4. CONNECT PLUG P1 OF THE POWER HARNESS COMING FROM ADAPTER HARNESS 0A-1782-0299 INTO JACK J1 ON THE HORN INTERFACE CARD.
5. CONNECT HORN CABLE PLUG P3 INTO JACK J3 OF THE 0P-1192-0399 AND THE OPPOSITE END ON TO THE HORN.

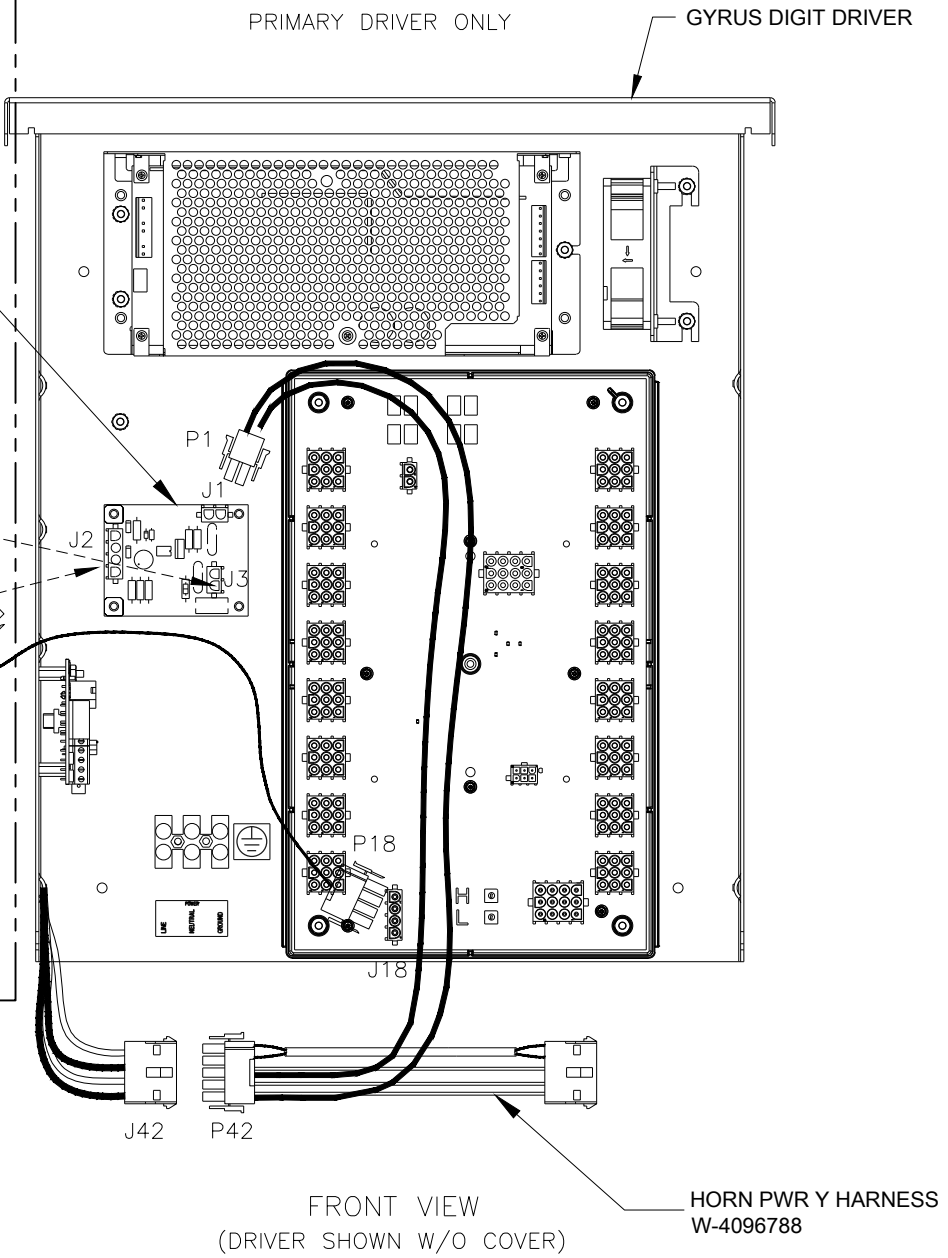
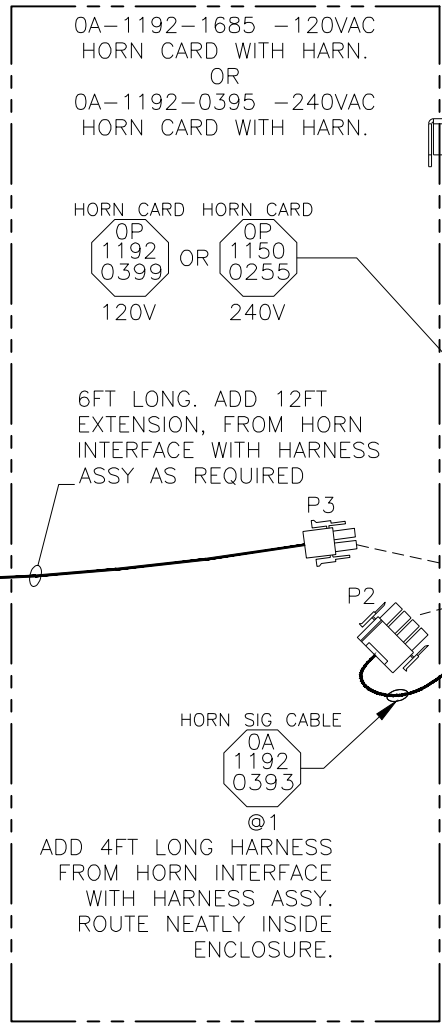
		DAKTRONICS, INC. BROOKINGS, SD 57006 DO NOT SCALE DRAWING		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2015 DAKTRONICS, INC.	
PROJ: SCOREBOARDS					
TITLE: HORN MTG INSTRUCTIONS; 120V, TI-2003, GYRUS DRIVER					
DESIGN: KSCHNABEL		DRAWN: KSCHNABEL		DATE: 8 MAY 15	
SCALE: 1=5					
SHEET	REV	JOB NO:	FUNC - TYPE - SIZE		
	00	P1782	E - 10 - B	3054691	

NOTES:
 -THIS DRAWING DOES NOT DEPICT THE ACTUAL LAYOUT OF COMPONENTS.
 -THIS DRAWING EXPLAINS HOW THE HORN COMPONENTS ARE CONNECTED TO EACH OTHER.
 -HORN BRACKET WILL BE ATTACHED TO THE FRONTSHEET/DOOR WITH EITHER SCREWS OR RIVETS.
 -HORN ATTACHES TO HORN BRACKET WITH HARDWARE PROVIDED WITH THE HORN.



IDENTIFY WHICH WIRE IS POS(+) AND NEG(-) AND CONNECT WITH E-1184'S TO RED AND BLACK FROM THE PLATE ASSY.

NOTE: BOTH ASSEMBLIES ARE PRIMARILY USED IN OTHER SITUATIONS REQUIRING THE WIRES TO BE THIS WAY.



REV 01	DATE: 06 DEC 17	PER CN-46585, ADDED BOM BALLOON FOR OA-1192-0393	BY: KDD
PROJECT: OUTDOOR LED SCOREBOARDS TITLE: ASSY; 12V DC COMPACT HORN, 120V OR 240V, GYRUS DRIVER DATE: 8 MAY 15 DIM UNITS: INCHES [MILLIMETERS] SHEET REV SCALE: 1=4 DO NOT SCALE DRAWING 02 DESIGN: KSCHNABEL JOB NO. P1782 FUNC - TYPE - SIZE E-10-B DRAWN: KSCHNABEL			
3054721			

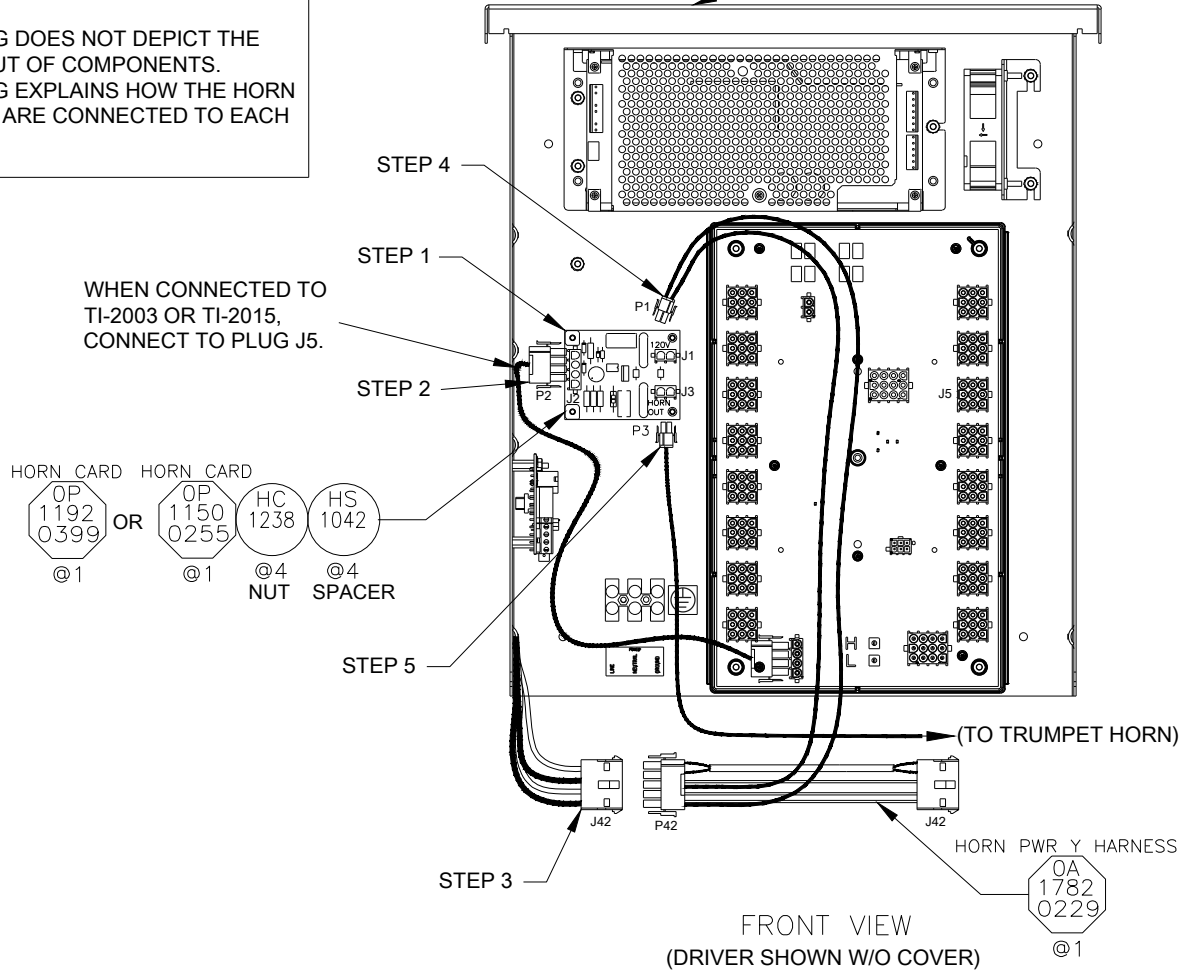
REV 02	DATE: 30 JAN 19	CN70399 REPLACED OA-1782-0229 WITH W-4096788 DUE TO DOUBLE CRIMPING ISSUES.	BY: JSF
--------	-----------------	---	---------

GYRUS DRIVER ASSEMBLY

GYRUS DIGIT DRIVER


NOTES:

- THIS DRAWING DOES NOT DEPICT THE ACTUAL LAYOUT OF COMPONENTS.
- THIS DRAWING EXPLAINS HOW THE HORN COMPONENTS ARE CONNECTED TO EACH OTHER.



DRIVER COMPONENTS INSTALLATION PROCEDURE:

1. FROM THE (0A-1192-1685 120 VAC) OR (0A-1192-0395 240 VAC), HORN INTERFACE CARD ASSY. MOUNT (OP-1192-0399 120 VAC) OR (OP-1150-0255 240 VAC) HORN SWITCH CARD USING HS-1042 SPACER & HC-1238 LOCK NUT.
2. FROM 0A-1192-1685, LOCATE 4 PIN (P18) TO 4 PIN (P2) HARNESS. PLUG P18 INTO LED DRIVER J18. PLUG OTHER END P2 INTO J2 ON OP-1192-0399 HORN CARD.
3. PLUG POWER ADAPTER HARNESS 0A-1782-0299 PLUG P42 INTO JACK J42 ON THE HARNESS LEAVING THE DIGIT DRIVER.
4. CONNECT PLUG P1 OF THE POWER HARNESS COMING FROM ADAPTER HARNESS 0A-1782-0299 INTO JACK J1 ON THE HORN INTERFACE CARD.
5. CONNECT HORN CABLE PLUG P3 INTO JACK J3 OF THE OP-1192-0399 AND THE OPPOSITE END ON TO THE HORN.

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		DO NOT SCALE DRAWING	
PROJ: SCOREBOARDS			
TITLE: HORN CARD INSTALLATION; GYRUS DRIVER			
DESIGN: KSCHNAB		DRAWN: BGAUGHAN	DATE: 29 MAY 15
SCALE: 1 = 5			
SHEET	REV	JOB NO:	FUNC - TYPE - SIZE
	00	P 1192	R - 03 - A
			3067686

GYRUS DRIVERS

FOR COMPLETE INSTALLATION INSTRUCTIONS, REFER TO HORN MANUAL.

MOUNTING ENCLOSURE TO INSIDE OF SCOREBOARD

1. OPEN THE HORN PANEL AND LOCATE THE ENTRANCE PLATE. DRILL TWO 5/32" HOLES 4 INCHES APART IN THE BACK OF THE SCOREBOARD NEAR THE ENTRANCE PLATE.
2. ATTACH THE ENCLOSURE TO THE INSIDE OF THE SCOREBOARD OVER THE 5/32" HOLES USING #10 TAPPING SCREWS. ATTACH THE PLATE ASSEMBLY TO THE ENCLOSURE USING #10 HARDWARE. REMOVE 2" KNOCKOUT IN THE HORN PANEL AND DRILL TWO 7/32" HOLES USING THE TEMPLATE DRAWING A-83502. IF NO KNOCKOUT EXISTS, USE THE TEMPLATE TO DRILL ONE 8/32" HOLE AND TWO 7/32" HOLES IN THE PANEL.

MOUNTING HORN TO SCOREBOARD FACE

1. THREAD THE TWO GRAY WIRES FROM THE HORN THROUGH THE TOP OF THE MOUNTING ANGLE.
2. ATTACH THE HORN TO THE MOUNTING ANGLE USING THE HARDWARE PROVIDED (FIGURE 1).
3. INSERT THE BUSHING INTO THE 3/8" HOLE IN THE MOUNTING ANGLE.
4. MOUNT HORN/ANGLE ASSEMBLY TO THE FACE OF THE SCOREBOARD OVER THE 2" KNOCKOUT AND 7/32" HOLES USING #10 HARDWARE PROVIDED.
5. OPEN THE HORN PANEL AND REMOVE THE COVER FROM THE ENCLOSURE.
6. USING THE WIRE NUTS PROVIDED CONNECT ONE GRAY WIRE FROM THE HORN TO THE BLACK WIRE FROM THE PLATE ASSEMBLY. CONNECT THE OTHER GRAY WIRE TO THE RED WIRE (FIGURE 3).
7. REFER TO DWG-03067686 FOR DETAILED HORN CARD INSTALLATION.
8. ATTACH THE COVER TO THE ENCLOSURE USING #10 HARDWARE.
9. CLOSE AND SECURE THE HORN PANEL.

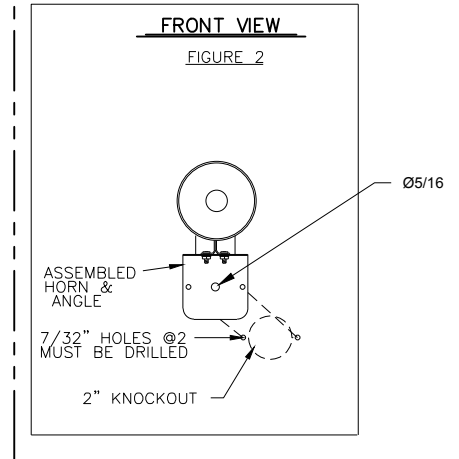
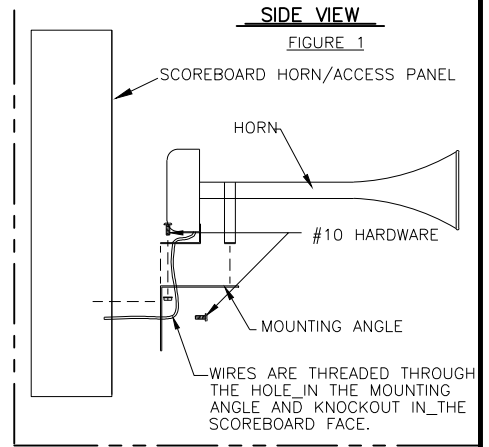
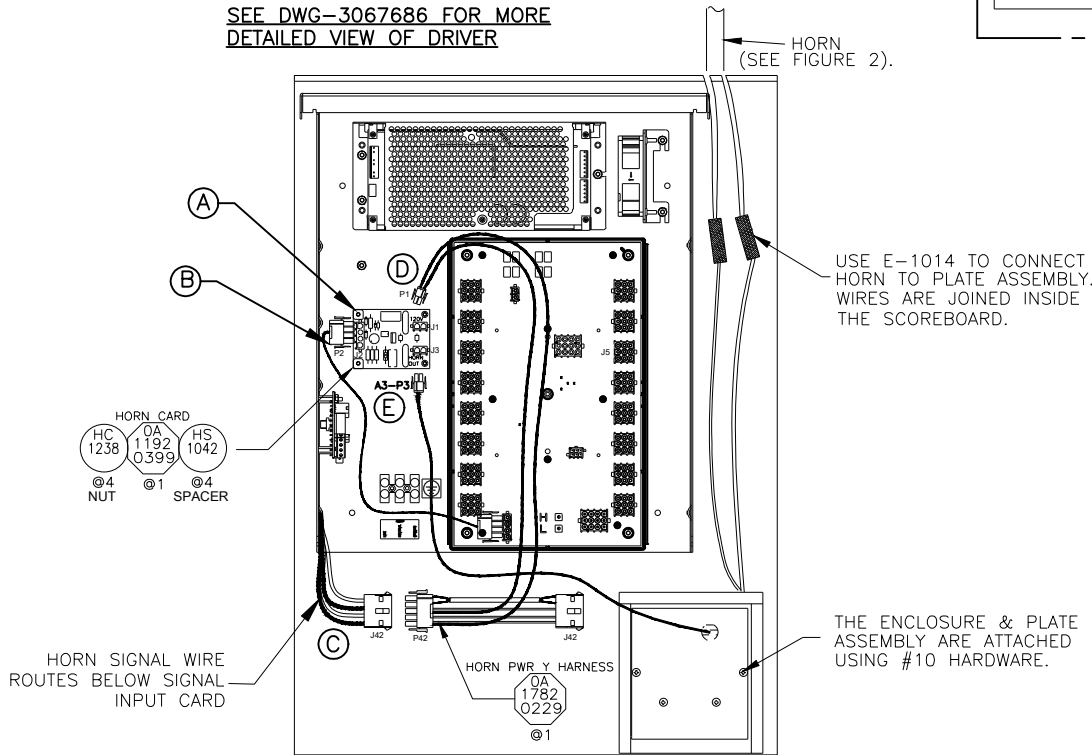


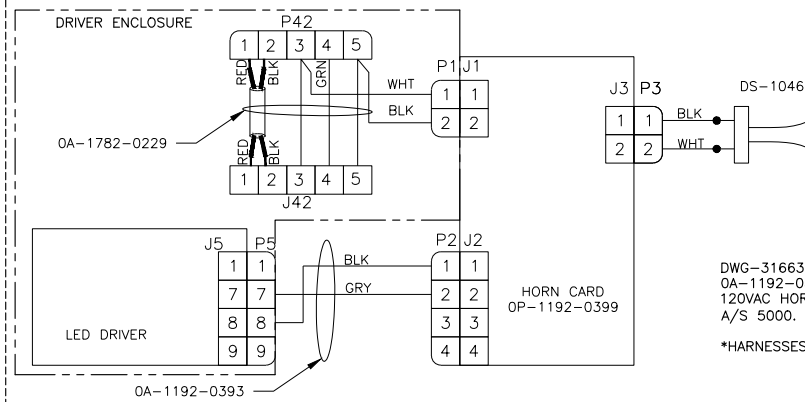
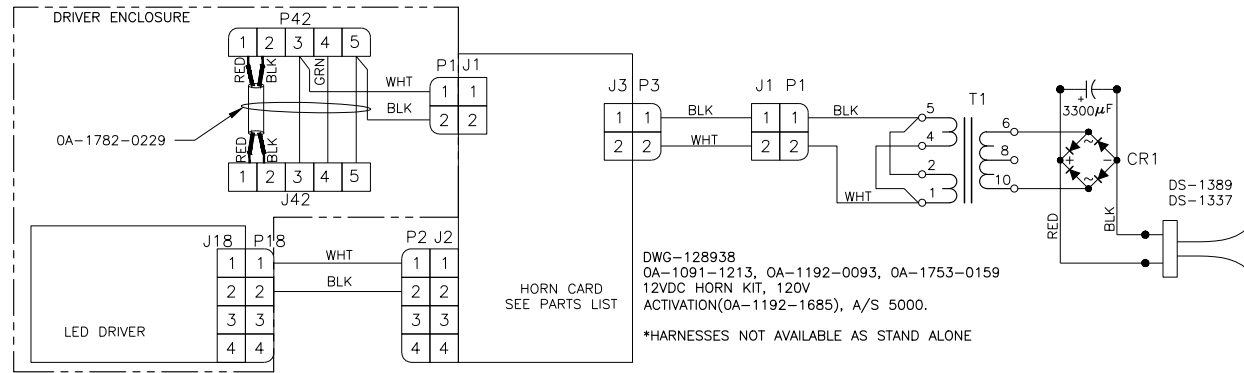
FIGURE 3
HORN CONNECTION

SEE DWG-3067686 FOR MORE
DETAILED VIEW OF DRIVER

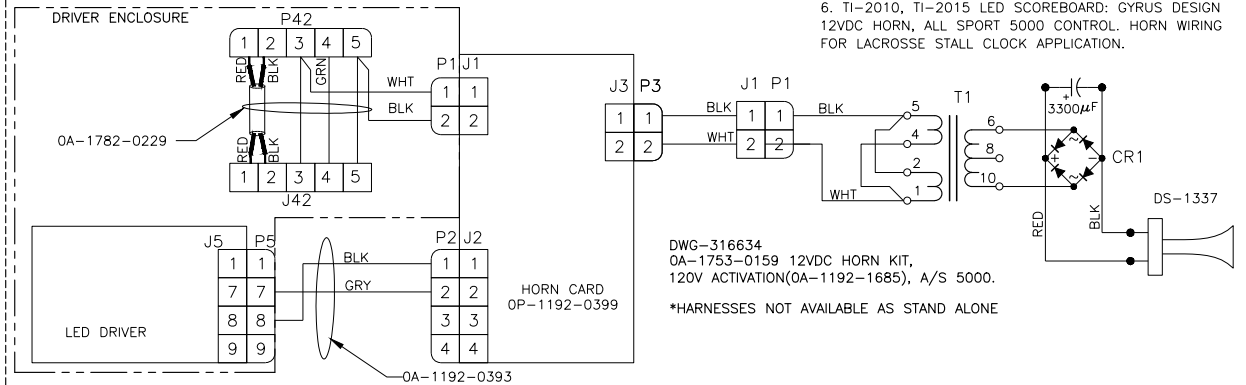
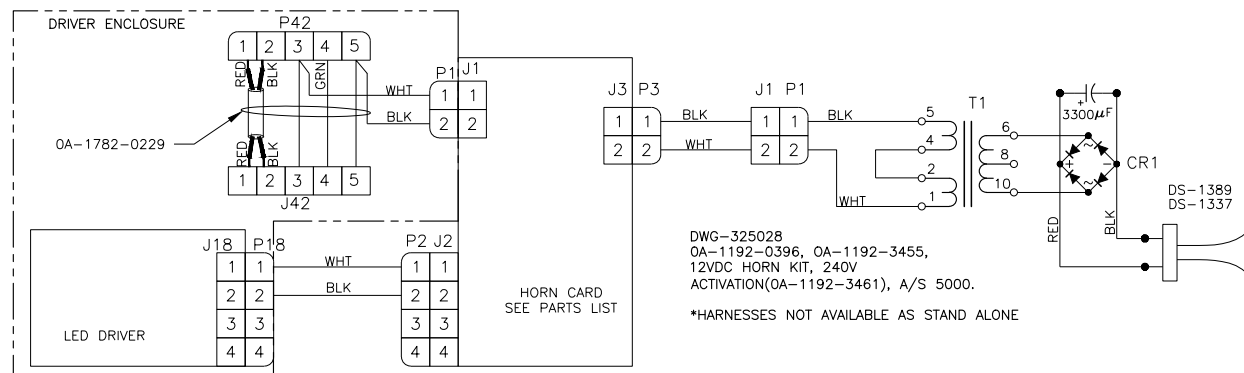


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	DO NOT SCALE DRAWING			
PROJ: SCOREBOARDS				
TITLE: F. ASSY: 12V DC HORN MOUNTING - OUTDOOR LED SCBD				
DESIGN: KSCHNAB		DRAWN: BGAUGHA		DATE: 29 MAY 15
SCALE: 1=14				
SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	3067687
	00	P 1091	E - 10 - A	

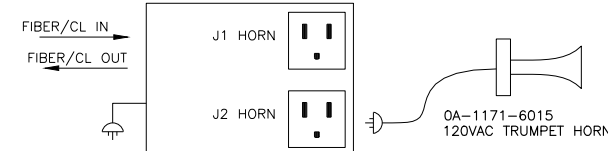
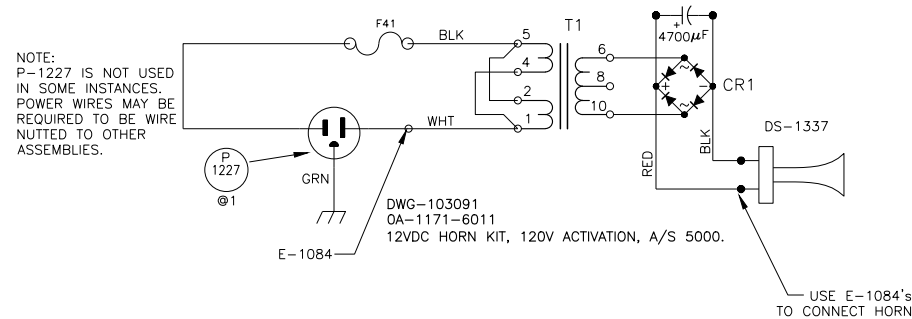
1. OUTDOOR LED SCOREBOARDS: GYRUS DESIGN
120VAC ACTIVATION, 12VDC HORN, ALL SPORT 5000 CONTROL



2. OUTDOOR LED SCOREBOARDS: GYRUS DESIGN
240VAC ACTIVATION, 12VDC HORN, ALL SPORT 5000 CONTROL



3. 12VDC TRUMPET HORN ASSEMBLY



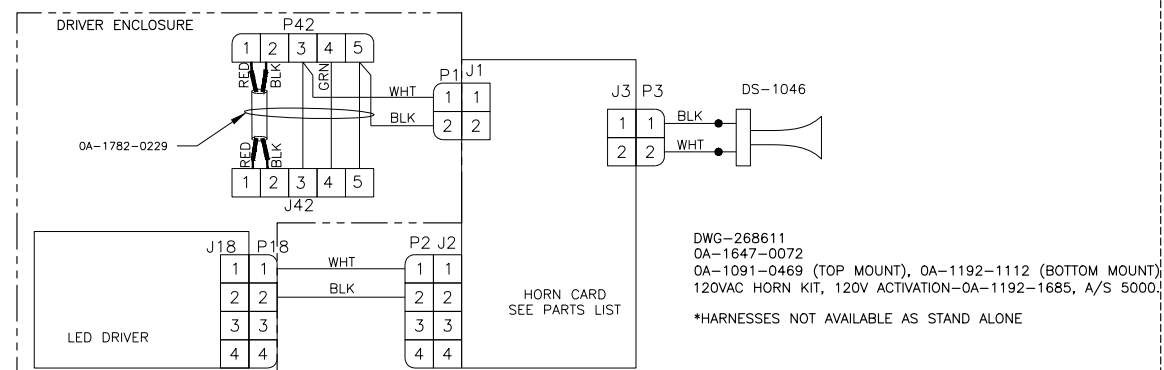
7. INDOOR/OUTDOOR MATRIX REMOTE HORN

8. MISC PARTS

HORN INTERFACE BOARDS
OP-1192-0399 - HORN INTERFACE; 5-35V IN, 120V OUT
OP-1150-0255 - 240VAC HORN CARD
OP-1192-0398 - DC

HORN ACTIVATION ASSY
OA-1192-3461 + OA-1192-0395, 240VAC
OA-1091-1214 + OA-1192-1685, 120VAC
OA-1171-6010, 120VAC

4. OUTDOOR LED SCOREBOARDS: GYRUS DESIGN
120VAC ACTIVATION, 120VAC HORN, ALL SPORT 5000 CONTROL



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PROD: OUTDOOR LED SCOREBOARDS			
TITLE: WIRING GUIDE: GYRUS OUTDOOR HORN KITS			
DESIGN: SCOLGRO	DRAWN: SCOLGRO	DATE: 1 JUNE 15	
SCALE: NONE			
SHEET	REV	JOB NO:	FUNC-TYPE-SIZE
	00	P1192	R-01-C
			3068821

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