OUTDOOR SCOREBOARD HORNS

INSTALLATION MANUAL

P1192

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Rev 04
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DAKTRONICS

Table of Contents

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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**

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**

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**.

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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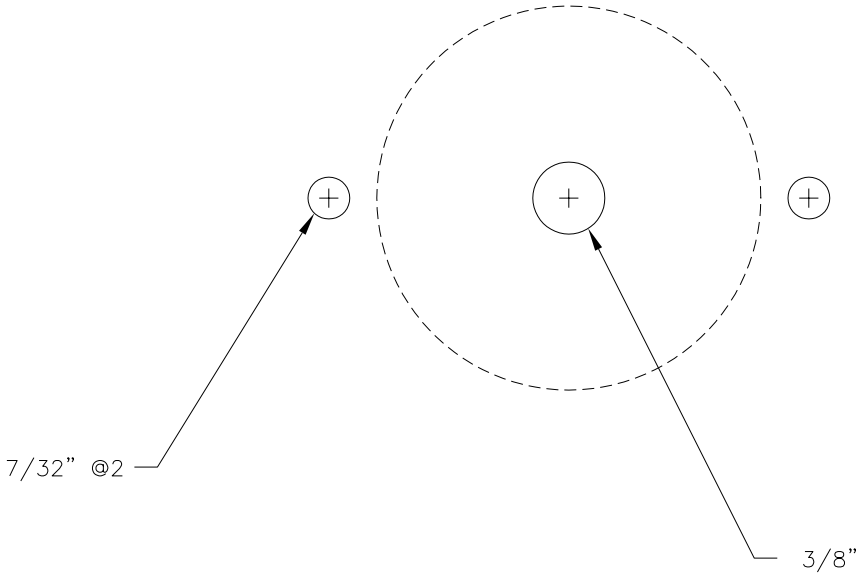


THE DOTTED LINE INDICATES THE 2" KNOCKOUT

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.

REV.	DATE	DESCRIPTION	BY	APPR.

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: STANDARD SCOREBOARDS

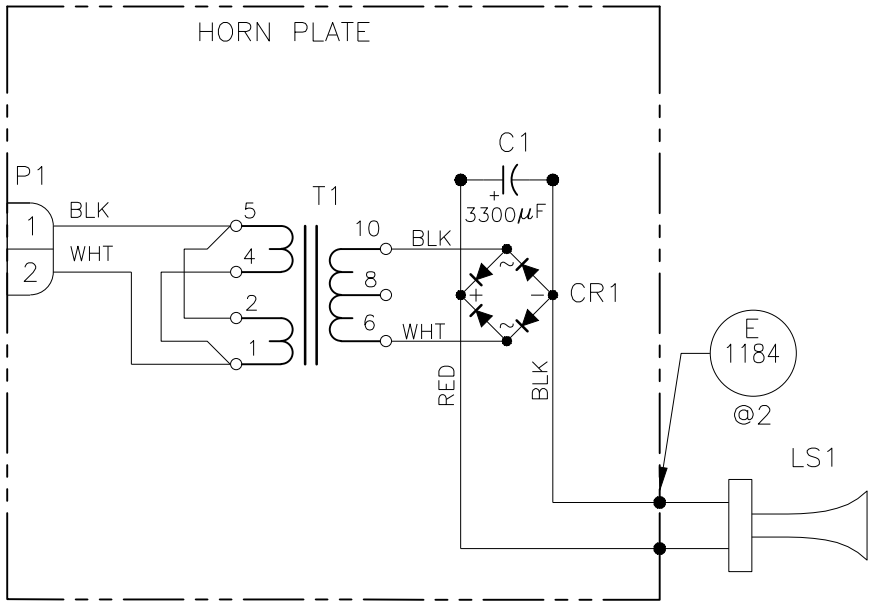
TITLE: TEMPLATE, HOLE DRILLING, TRUMPET HORN

DES. BY: DRAWN BY: JMOEN DATE: 20 JUN 96

REVISION 00 | APPR. BY: | SCALE: 1=1

1091-E07A-83502

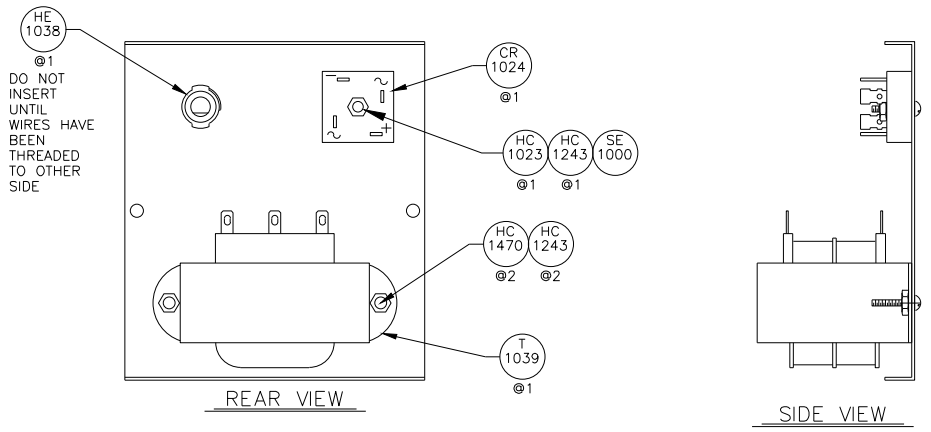
0A–1091–1214
12V TRUMPET HORN PLATE ASSY

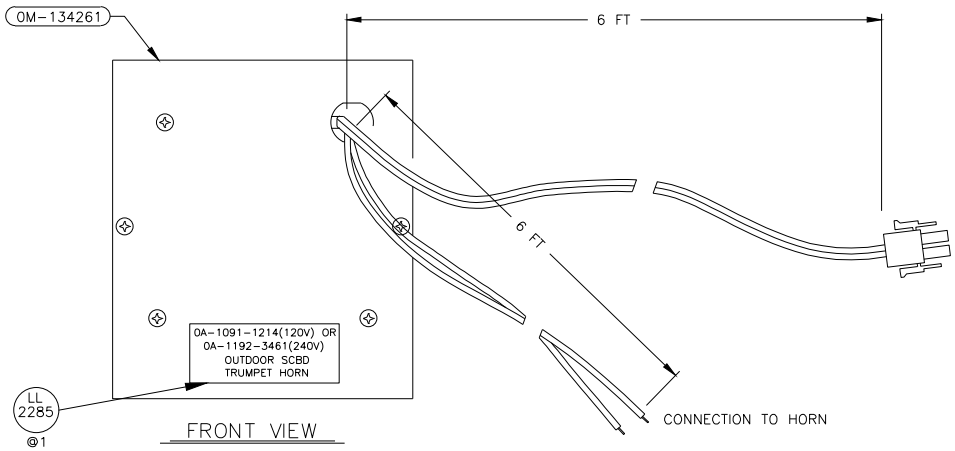


REV	DATE:		BY:	
08	13 SEP 19	PER CN-88357 REPLACED E-1084 W/ E-1184	KDM	
07	27 MAR 17	SWITCHED TRANSFORMER TERMINAL 10 AND 6 PER EC-23483	BTA	
06	08 OCT 12	ADDED WIRE COLOR FROM TRANSFORMER TO CR1 PER EC-7744	JML	
05	13 APR 07	REMOVED OUTDOOR LED DRIVE FROM SCHEMATIC REMOVEDWIRE FROM J17	DKD	

THIRD ANGLE PROJECTION

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 REPLCAING 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 0M-83330 WITH 0M-134261	GDB	

DAKTRONICS, INC. BROOKINGS, SD 57006

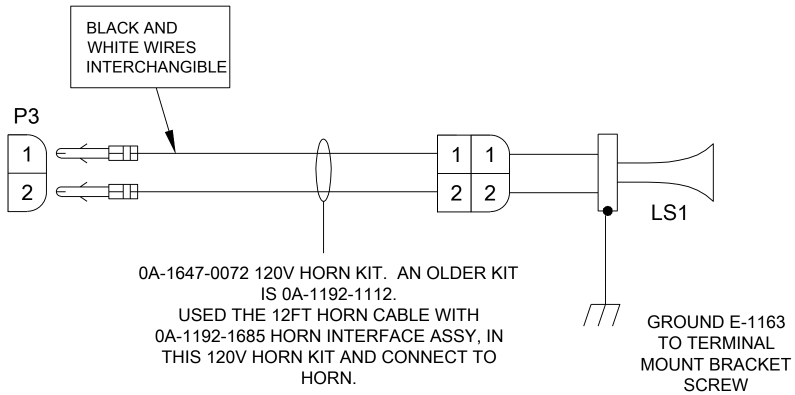
PROJ: STANDARD SCOREBOARDS

TITLE: PLATE ASSY: OUTDOOR SCBD 12VDC HORN- AS5K

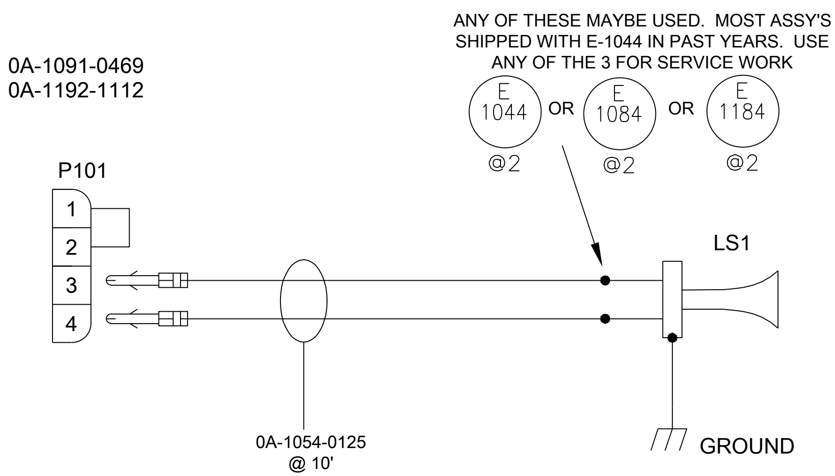
DES. BY: DRAWN BY: CMCADAM DATE: 06MAR00

REVISION 08 | APPR. BY: | SCALE: 1=3

1091-E10A-128944



SCOREBOARDS BUILT BEFORE APRIL 2006



REV 08	DATE: 03 JUN 14	PER SUGGESTIONS FROM TECH WRITTERS AND SERVICES, MADE SOME TEXT ADDITIONS TO WIRE NUMBERS AND ETC.	BY: MWM
REV 07	DATE: 22 SEP 09	UPDATED TOP DETAIL TO MAKE IT CORRECT WITH CABLE ASSY # AND CONNECTOR ID.	BY: MWM
REV 06	DATE: 13 APR 07	UPDATED NOTES, CHANGED LABEL ON J1 & J3, REMOVED WIRE FROM J17.	BY: AMG
REV 05	DATE: 11 SEPT 06	UPDATED NOTES, CHANGED LABEL ON J1 & J3, REMOVED WIRE FROM J17.	BY: AMG
REV 04	DATE: 8/3/06	ADDED COMMIT TO WIRE 0A-1054-0125 PER ECO 046876	BY: BDV
REV 03	DATE: 30 JUN 06	CHANGED WIRES FROM W-1100 & W-1092 TO CABLE OA-1054-0125 PER ECO 49671	BY: AFL
REV 02	DATE: 23 MAR 06	ADDED 0A-1192-1686 TO AND SOLIDSTATE HORN KIT	BY: DMD
REV 01	DATE: 07SEP00	ADDED GND WIRE TO ASSEMBLY	BY: CMC

REV 10	DATE: 29 JAN 24	PER CN-172945, UPDATED GROUNDING DETAIL	BY: MTR
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

DAKTRONICS

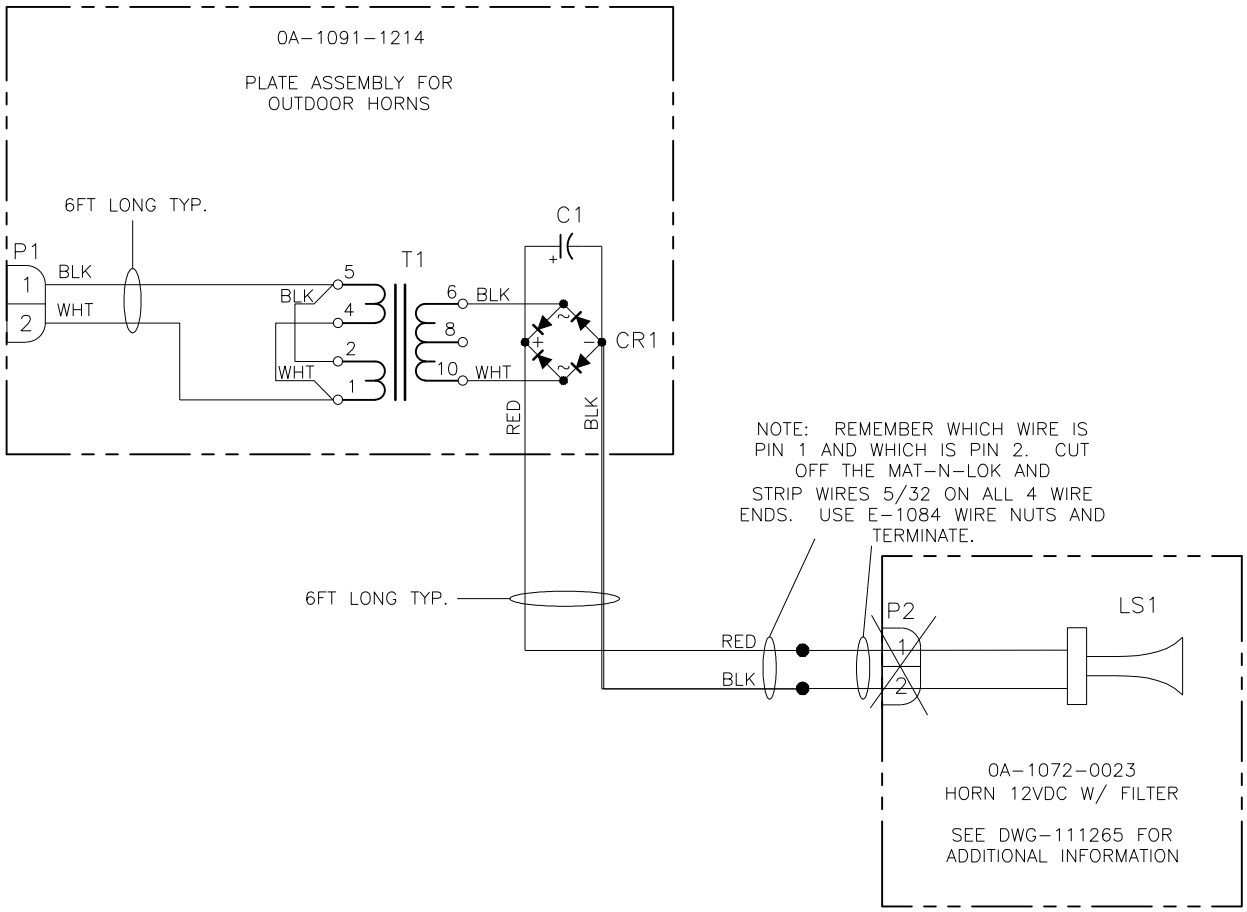
THIRD ANGLE PROJECTION

PROJECT:	STANDARD OUTDOOR SCOREBOARDS				
TITLE:	SCHEMATIC: 120VAC TRUMPET HORN				
DATE:	16 MAY 00	DIM UNITS: INCHES [MILLIMETERS]		SHEET	REV
SCALE:	NTS	DO NOT SCALE DRAWING			10
DESIGN:	RASMUS	JOB NO.	FUNC - TYPE - SIZE	132173	
DRAWN:	RASMUS	P1091	R - 03 - A		

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

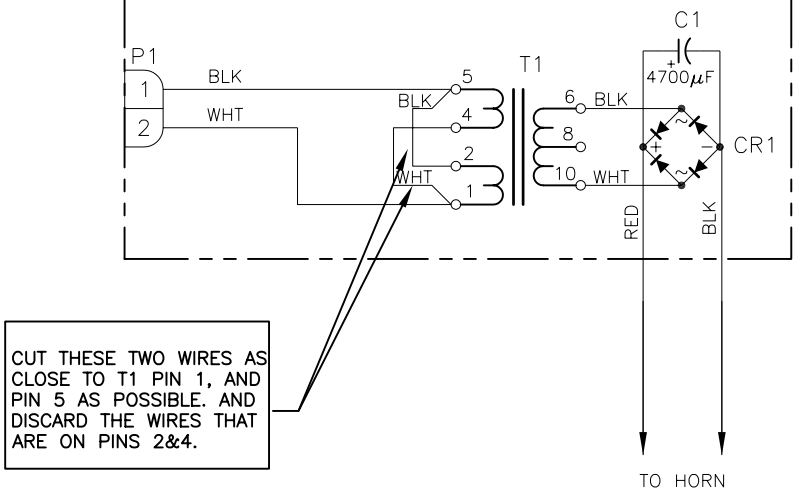
DAKTRONICS, INC.
BROOKINGS, SD 57006
DO NOT SCALE DRAWING

PROJ: STANDARD SCOREBOARDS
TITLE: SCHEMATIC- OUTDOOR SCBD 12VDC COMPACT HORN
DESIGN: DULSCHM | DRAWN: DULSCHM | DATE: 17 OCT 03
SCALE: NONE

SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	
	04	P1192	R-03-A	198618

120 VOLT SETUP

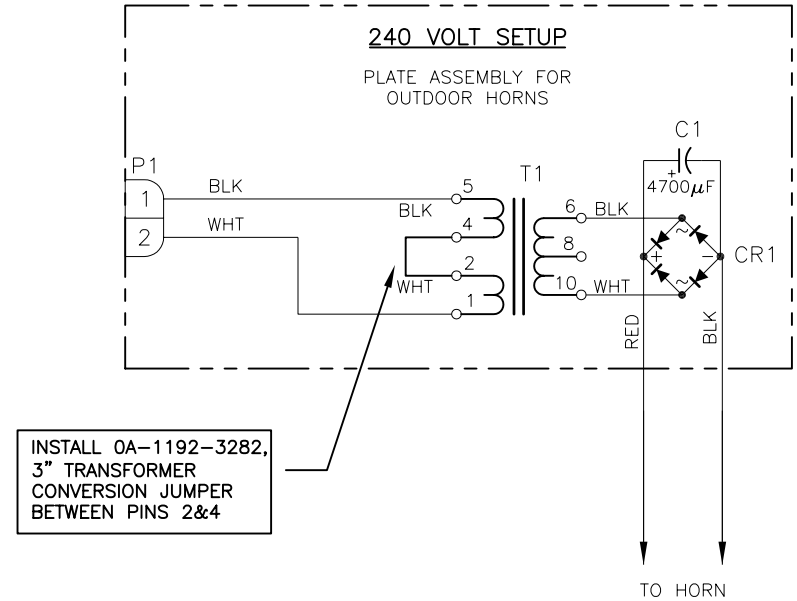
PLATE ASSEMBLY FOR
OUTDOOR HORNS



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.

240 VOLT SETUP

PLATE ASSEMBLY FOR
OUTDOOR HORNS



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

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 00 | APPR. BY: MMILLER | SCALE: NONE

1192-R01A-270554

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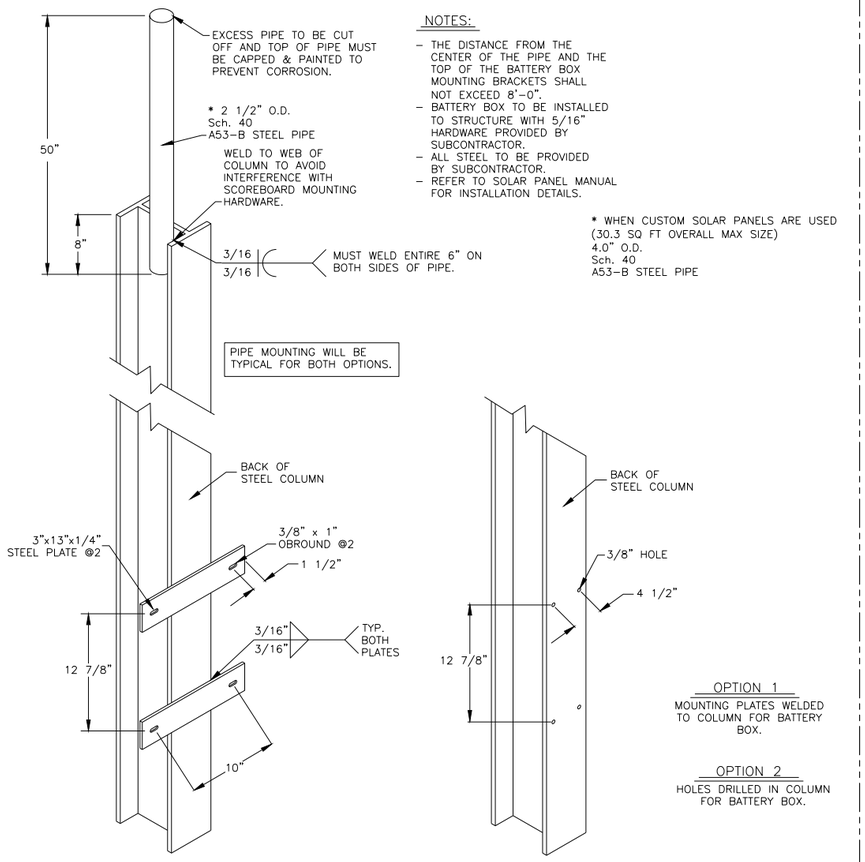


NOTES:

- THE DISTANCE FROM THE CENTER OF THE PIPE AND THE TOP OF THE BATTERY BOX MOUNTING BRACKETS SHALL NOT EXCEED 8'-0".
- BATTERY BOX TO BE INSTALLED TO STRUCTURE WITH 5/16" HARDWARE PROVIDED BY SUBCONTRACTOR.
- ALL STEEL TO BE PROVIDED BY SUBCONTRACTOR.
- REFER TO SOLAR PANEL MANUAL FOR INSTALLATION DETAILS.

* WHEN CUSTOM SOLAR PANELS ARE USED (30.3 SQ FT OVERALL MAX SIZE)
4.0" O.D.
Sch. 40
A53-B STEEL PIPE

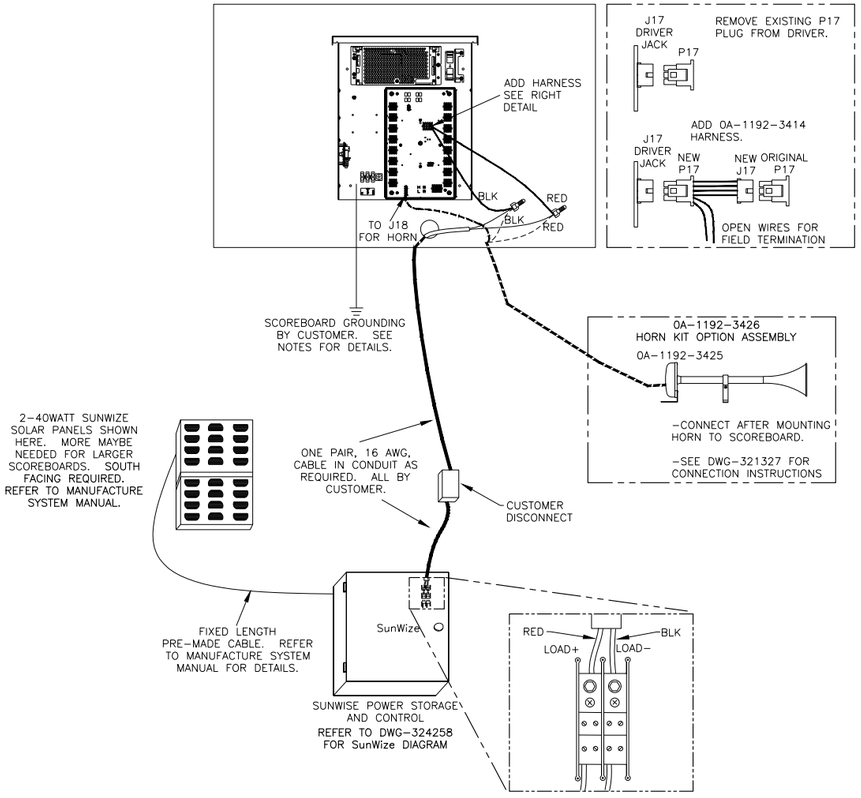
OPTION 1

MOUNTING PLATES WELDED TO COLUMN FOR BATTERY BOX.

OPTION 2

HOLES DRILLED IN COLUMN FOR BATTERY BOX.

ELECTRICAL INSTALLATION DETAILS



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.

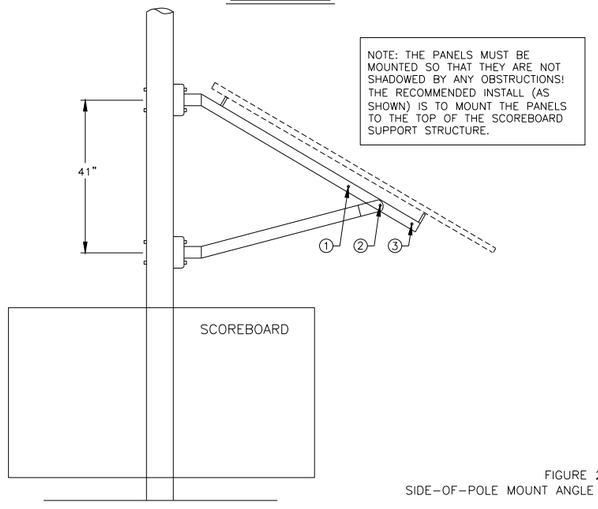
ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE NO NATIONAL ELECTRICAL CODE WITH MORE THAN 10 OHMS GROUND RESISTANCE.

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.



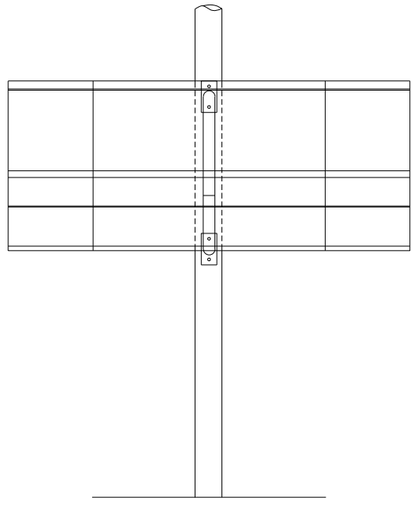


FIGURE 2
SIDE-OF-POLE MOUNT ANGLE ADJUSTMENT (TYPICAL)

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

REV	DATE:	BY:
07	29 MAY 15	MJP
06	28 JUL 14	KDD
05	10 MAR 11	MWM
04	17 MAY 10	MWM
03	08 JUN 09	RRS

DAKTRONICS, INC.
BROOKINGS, SD 57006
DO NOT SCALE DRAWING

PROJ: OUTDOOR LED SCOREBOARD
TITLE: INSTALLATION DIAGRAM: SOLAR POWER SCOREBOARD
DESIGN: MMILLER | DRAWN: ARICHTE | DATE: 23 AUG 07
SCALE: 1=1

SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	
	07	P1192	R-01-C	315892

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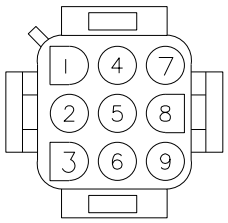
BOTTOM VIEW

P-1013



0A-1192-0393

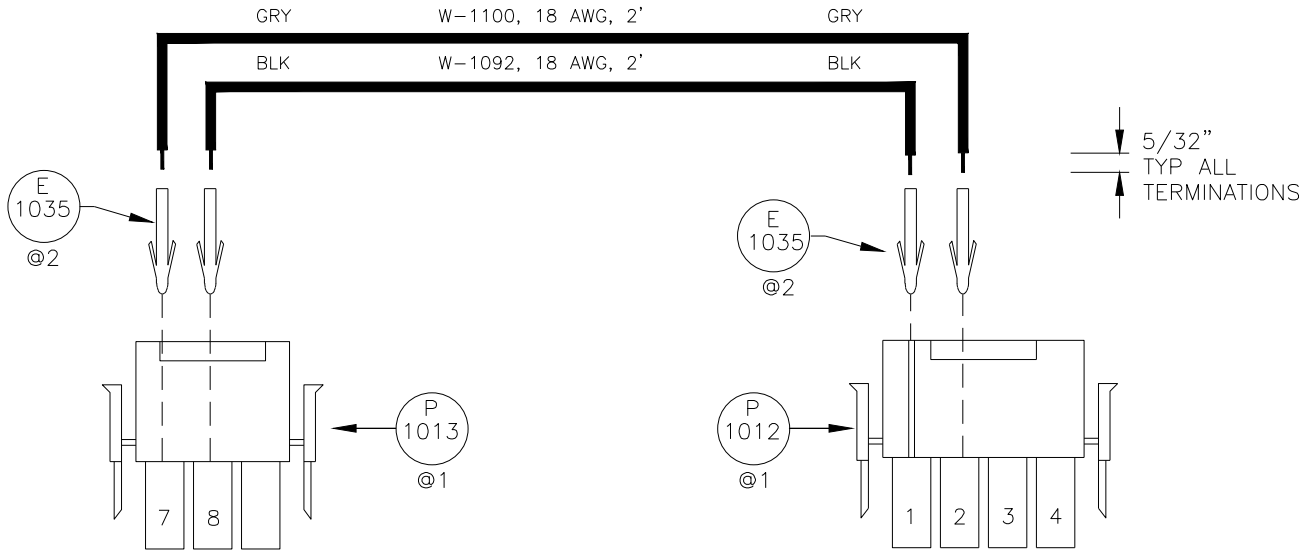
CABLE ASSEMBLY INSTRUCTIONS:

-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



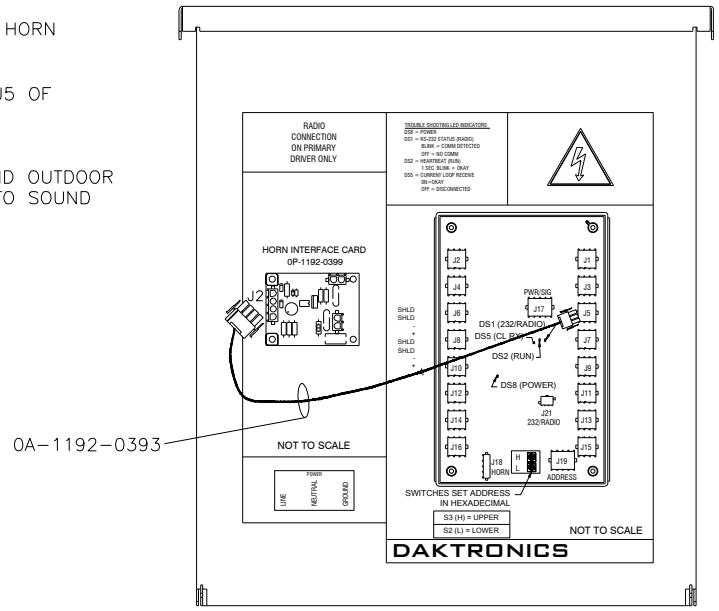
FIELD INSTALLATION INSTRUCTIONS:

-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 ENCOLSURE



REV	DATE:		BY:
01	08 JUN 15	SWAPPED PINS 7 & 8 ON P-1013 ADDED FIELD INSTALL PORTION AND 0A-1192-0393	DCS

DAKTRONICS, INC.
BROOKINGS, SD 57006

DO NOT SCALE DRAWING

PROJ: OUTDOOR LED SCOREBOARDS

TITLE: HARNESS: TI-2003, TI-2010, TI-2015 HORN SIGNAL CABLE

DESIGN: | DRAWN: SCOLGRO | DATE: 15 AUG 07

SCALE: NONE

SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	
	01	P1192	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.

HORN ARM IS 3.25"
ATTACHED AT LOWER POINT.

HORN ARM IS 2.5"
ATTACHED AT HIGHER POINT.

HORN ARM IS 3.25"
ATTACHED AT HIGHER POINT.

DO NOT ATTACH HORN
TO BRACKET LIKE THIS
HORN IS NEVER TO BE TILTED UPWARD.

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

DAKTRONICS, INC. BROOKINGS, SD 57006

PROJ: OUTDOOR TENNIS DISPLAYS

TITLE: HORN ASSEMBLY

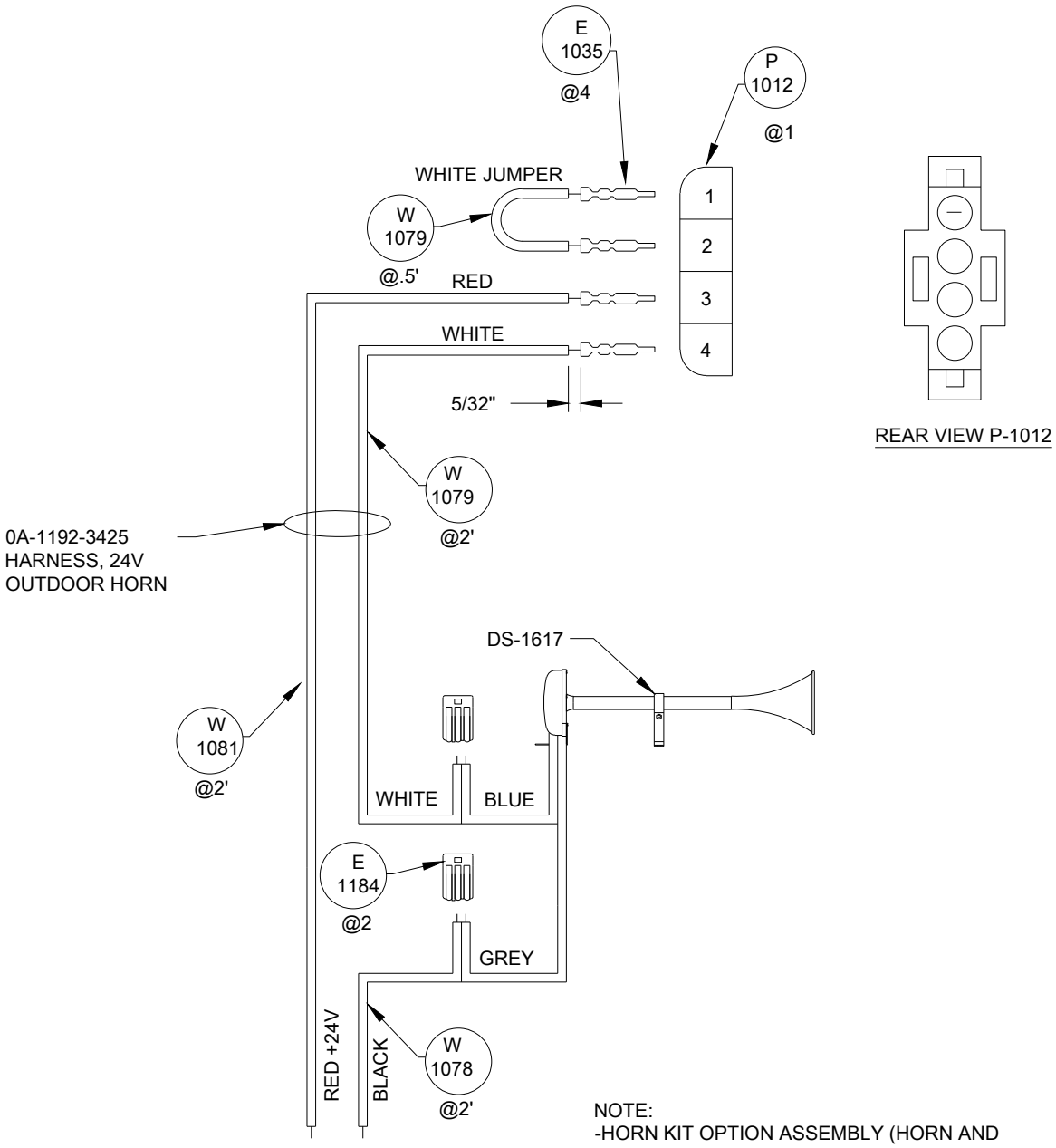
DES. BY: KDRAGT DRAWN BY: KDRAGT DATE: 12 NOV 07

REVISION 01 APPR. BY:

SCALE: 1=4

1192-E10A-320004

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



NOTE:
-HORN KIT OPTION ASSEMBLY (HORN AND HARNESS) 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 SCROREBOARD USING EXISTING WIRE NUTS.

-SEE DWG-315892 FOR INSTALLATION DETAIL

REV	DATE:		BY:
01	29 OCT 14	REPLACED E-1084 @2 W/ E-1184 @2.	SMB

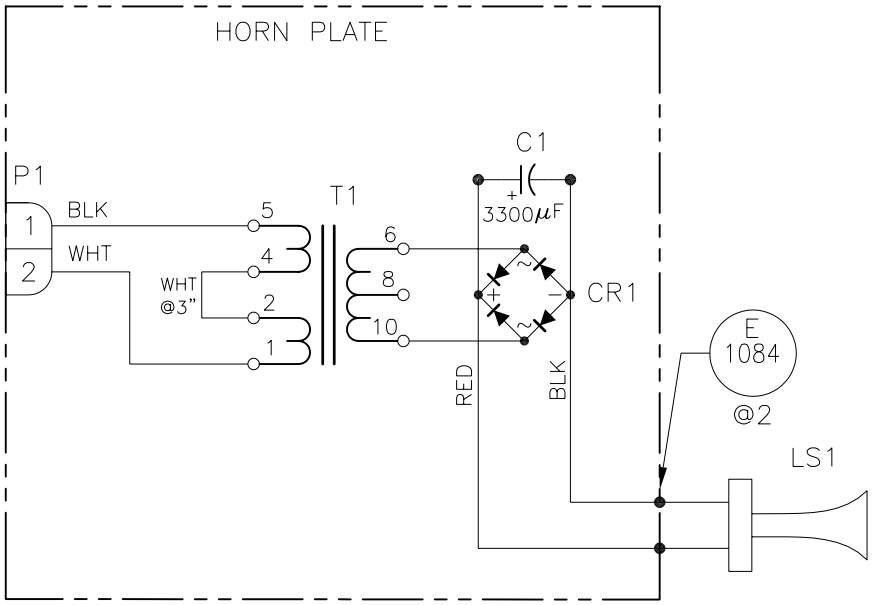
DAKTRONICS, INC.
BROOKINGS, SD 57006

DO NOT SCALE DRAWING

PROJ: OUTDOOR LED SCOREBOARDS			
TITLE: ASSEMBLY HORN KIT OPTION			
DESIGN: JCARLSON	DRAWN: JCARLSON	DATE: 01 OCT 07	
SCALE: NONE			

SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	
	01	1192	R - 10 - A	321327

0A-1192-3461
12V TRUMPET HORN PLATE ASSY, 240VAC



REV.	DATE	DESCRIPTION	BY	APPR.

DAKTRONICS, INC. BROOKINGS, SD 57006

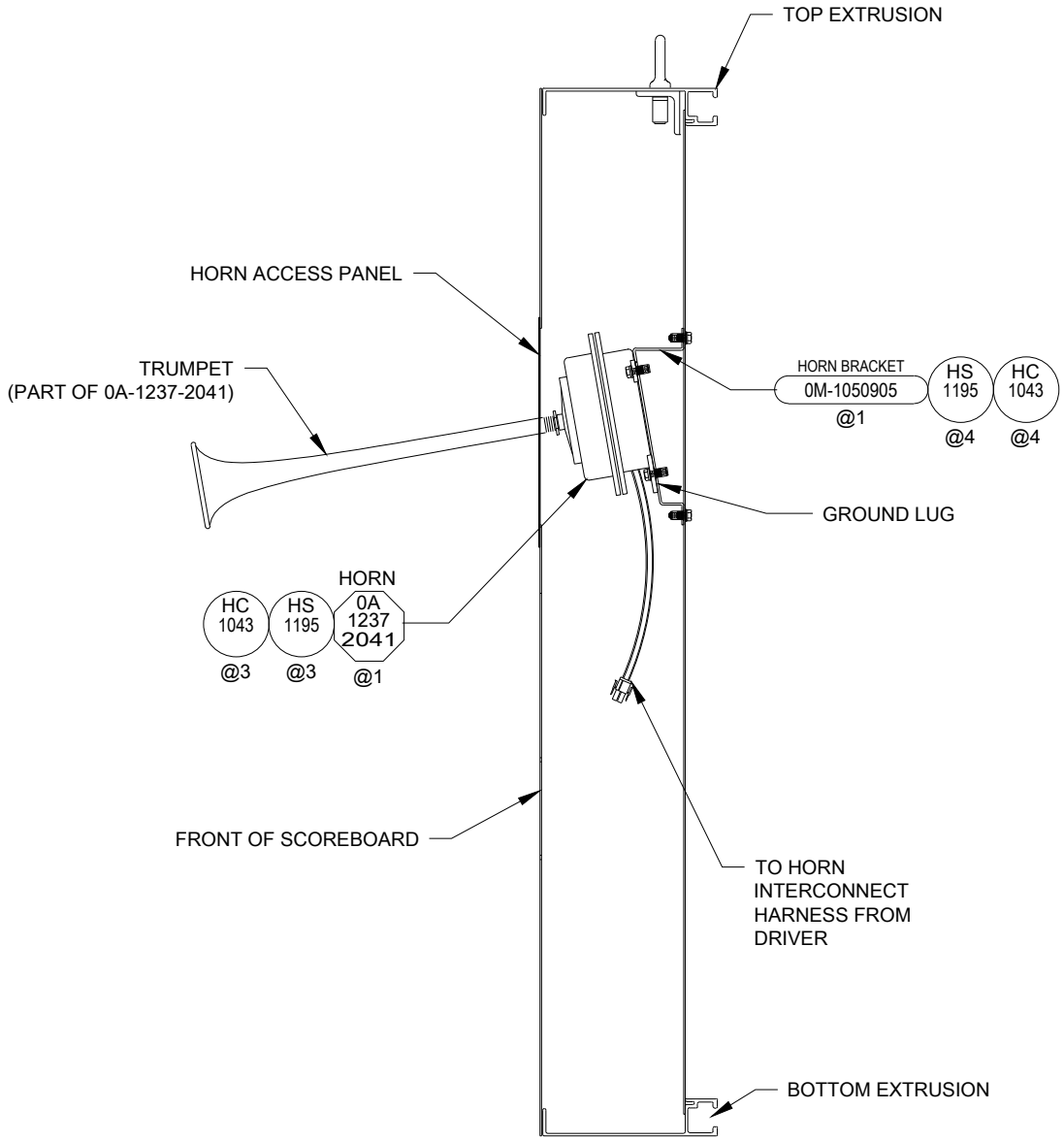
PROJ: OUTDOOR STANDARD SCOREBOARDS

TITLE: SCHEMATIC, 240V OD SCBD 12VDC TRUMPET HORN, AS5K

DES. BY: DRAWN BY: JWCARLSO DATE: 09 NOV 07

REVISION 00 | APPR. BY: | SCALE: NONE

1192-R03A-325028



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 0A-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

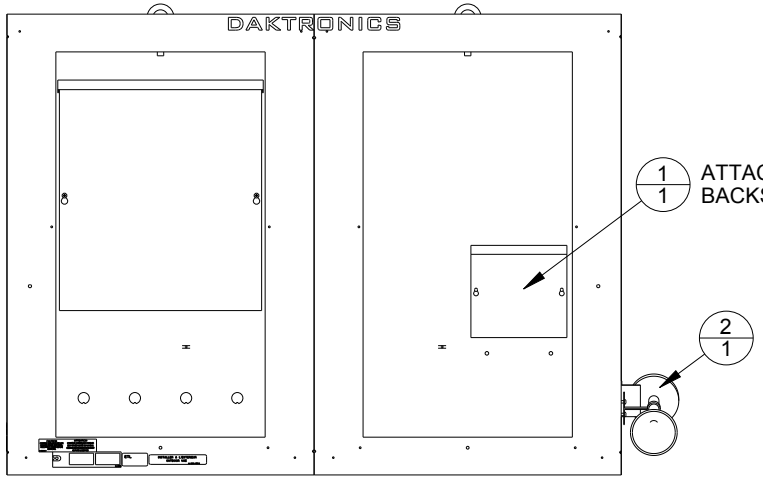
REV	DATE:		BY:	
03	13 SEP 19	PER CN-88357, REPLACED E-1084 W/ E-1184	KDM	
02	04 JAN 19	REPLACE DS-1046 WITH 0A-1237-2041 PER EC-70630	SJC	
01	10 OCT 12	CHANGED LOCATION OF GROUNDING LUG PER EC-8073	JLR	

REV	DATE:		BY:	
05	29 JAN 24	PER CN-172945, REMOVED E-1001	MTR	
04	19 DEC 19	CN 93940 REMOVED E-1184 AND SHOW WHIP COMING OUT OF HORN WITH 2M UMNL PLUG	JSF	

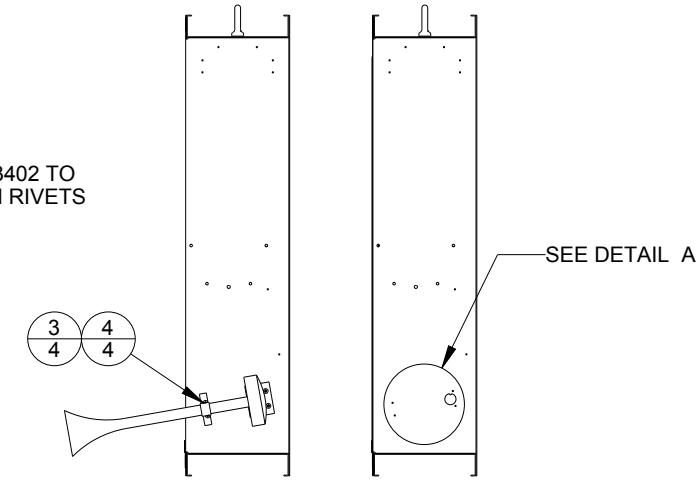
THIRD ANGLE PROJECTION

PROJECT:	OUTDOOR SCOREBOARD			
TITLE:	120V AC HORN MOUNTING, OUTDOOR SPORTS			
DATE: 26 MAY 11	DIM UNITS: INCHES [MILLIMETERS]		SHEET	REV 05
SCALE: 1/8	DO NOT SCALE DRAWING			
DESIGN: MCARSRU	JOB NO. P1647	FUNC - TYPE - SIZE E - 10 - A	1055044	
DRAWN: MCARSRU				

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

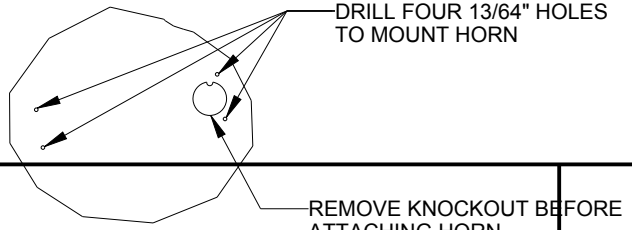


FRONT VIEW
(SHOWN WITHOUT DIGITS)



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:

DAKTRONICS, INC.
BROOKINGS, SD 57006

DO NOT SCALE DRAWING

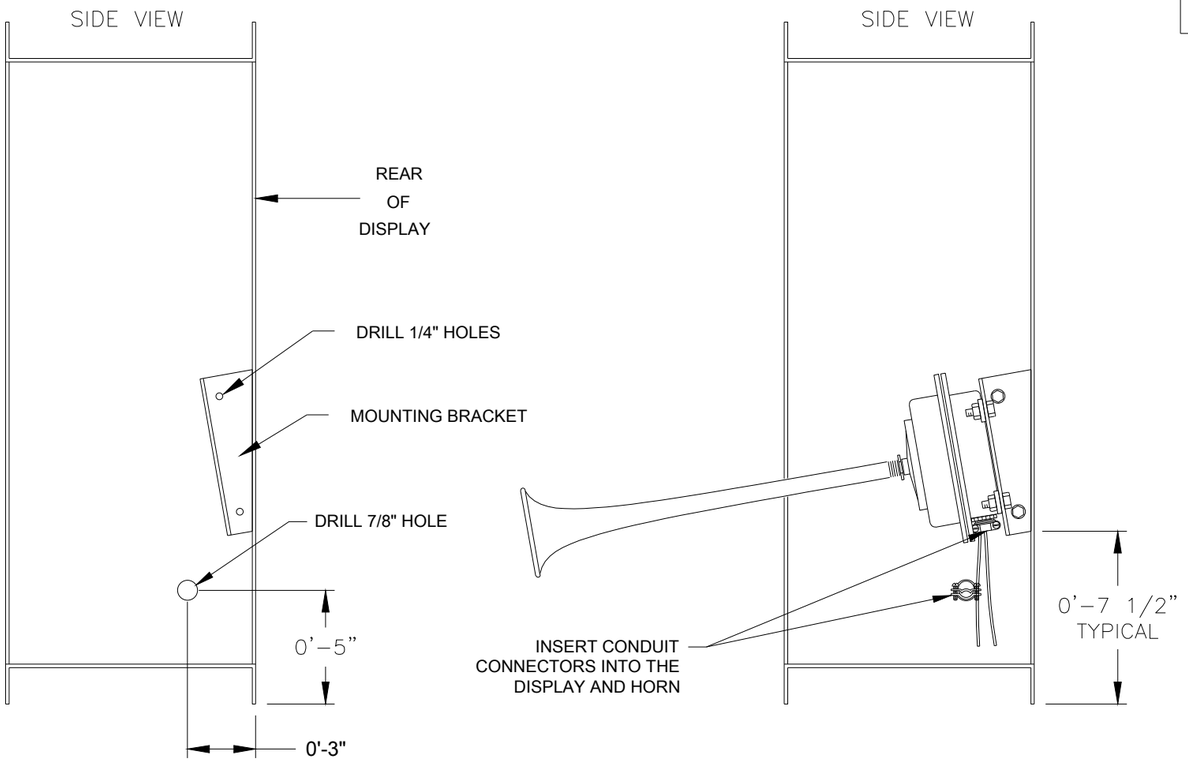
PROJ: OUTDOOR SHEET METAL SCOREBOARDS
TITLE: HORN; 12VDC TRUMPET, 120V INPUT, TI-2003
DESIGN: DOPPELT
DRAWN: ZWOODWA
DATE: 30-JAN-19
SCALE: 1/15

SHEET:	REV	JOB NO:	FUNC-TYPE-SIZE
1 OF 1	01	P 1753	E - 07 - A

3026331

Part # - 0A-1753-0159 Version - 02.1 Description - HORN; 12VDC TRUMPET, TI-2003, 120V INPUT Lifecycle State - Full Production Last Modified By - jfixsen Last Modified - 2019-01-30

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

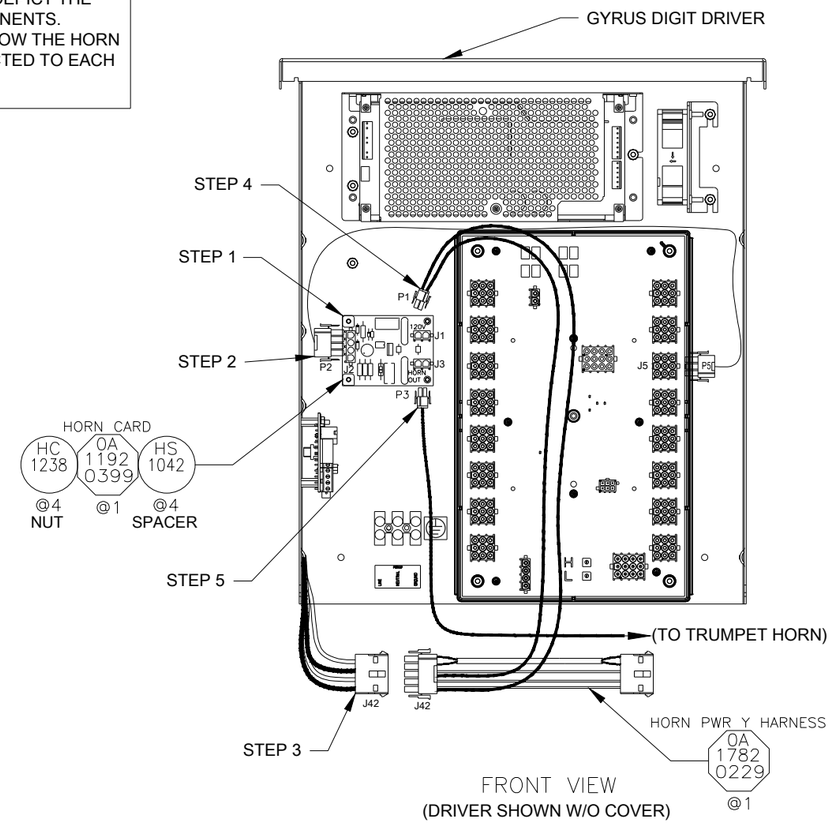


DETAIL: A

DETAIL: B

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.



FRONT VIEW
(DRIVER SHOWN W/O COVER)

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 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.

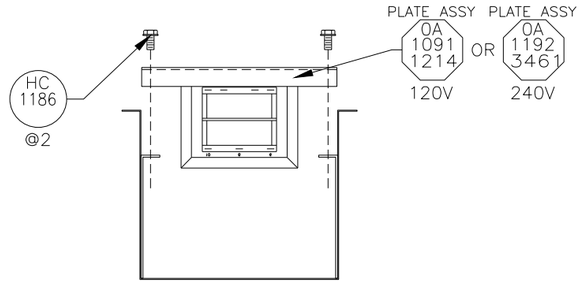
5. CONNECT HORN CABLE PLUG P3 INTO JACK J3 OF THE 0P-1192-0399 AND THE OPPOSITE END ON TO THE HORN.

DAKTRONICS, INC.
BROOKINGS, SD 57006
DO NOT SCALE DRAWING

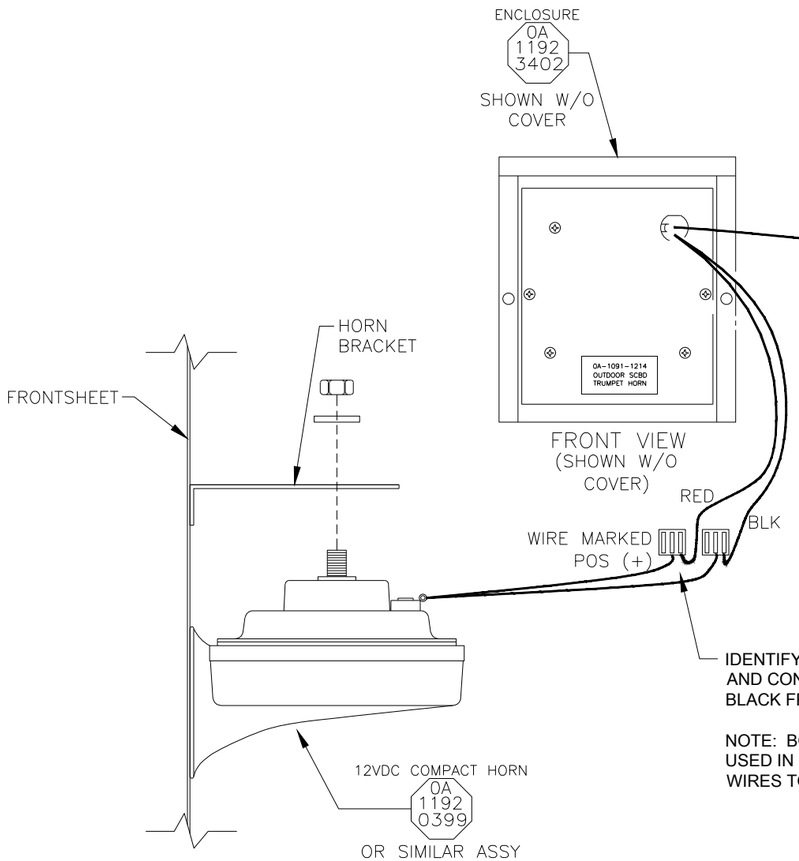
PROJ: SCOREBOARDS				
TITLE: HORN MTG INSTRUCTIONS; 120V, TI-2003, GYRUS DRIVER				
DESIGN: KSCHNABEL		DRAWN: KSCHNABEL		DATE: 8 MAY 15
SCALE: 1=5				
SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	3054691
	00	P1782	E - 10 - B	

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.



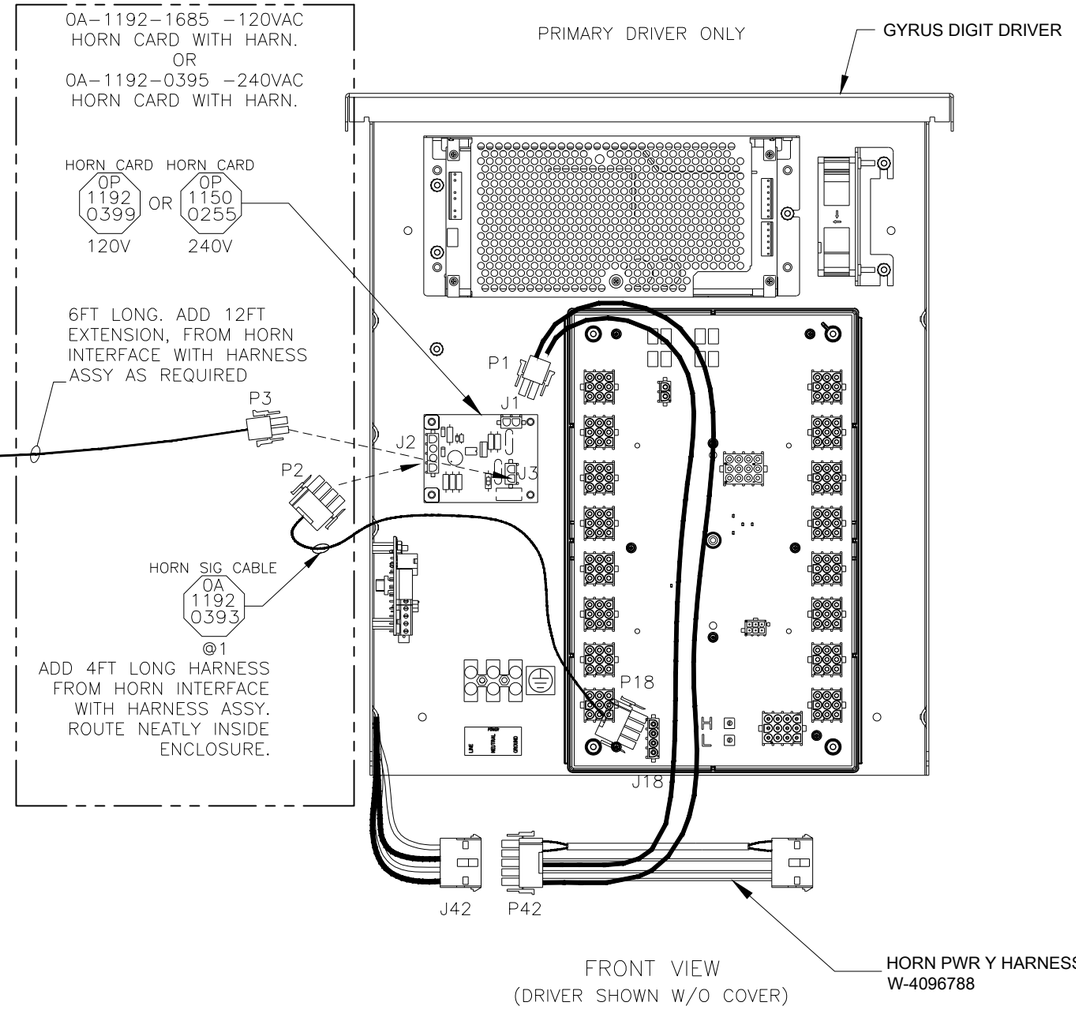
BOTTOM VIEW



SIDE VIEW

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	DATE:		BY:
01	06 DEC 17	PER CN-46585, ADDED BOM BALLOON FOR 0A-1192-0393	KDD

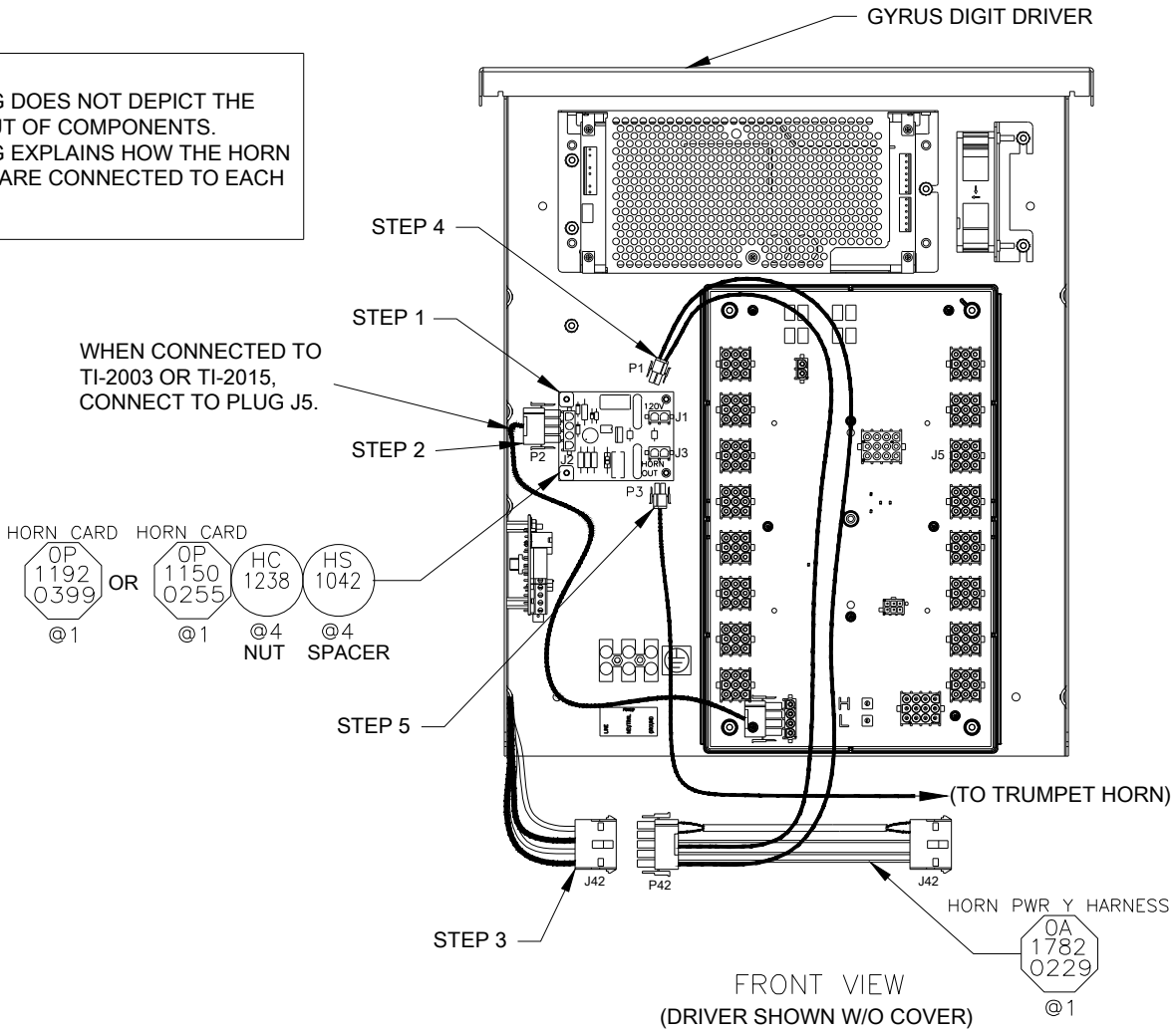
THIRD ANGLE PROJECTION

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.	FUNC - TYPE - SIZE	3054721
DRAWN:	KSCHNABEL	P1782	E - 10 - B	

REV	DATE:		BY:
02	30 JAN 19	CN70399 REPLACED 0A-1782-0229 WITH W-4096788 DUE TO DOUBLE CRIMPING ISSUES.	JSF

GYRUS DRIVER ASSEMBLY

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 (0P-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 0P-1192-0399 AND THE OPPOSITE END ON TO THE HORN.

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.
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	3067686
	00	P1192	R-03-A	

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.

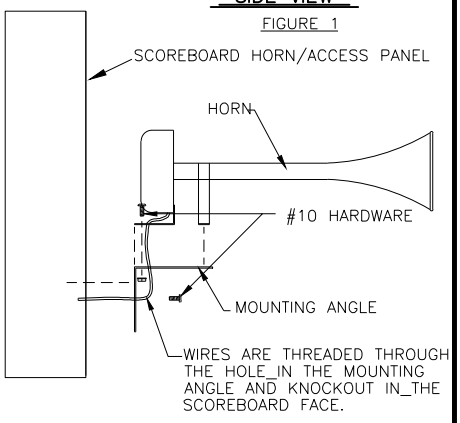
2. ATTACH THE ENCLOSURE TO THE INSIDE OF THE SCOREBOARD OVER THE 5/32" HOLES USING #10 TAPPING SCREWS. ATTACH THE PLATE ASSEMBLY TO THE ENCLOSURE USING #10 HARDWARE. REMOVE 2" KNOCKOUT IN THE HORN PANEL AND DRILL TWO 7/32" HOLES USING THE TEMPLATE DRAWING A-83502. IF NO KNOCKOUT EXISTS, USE THE TEMPLATE 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 (FIGURE1).
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.

SIDE VIEW

FIGURE 1



FRONT VIEW

FIGURE 2

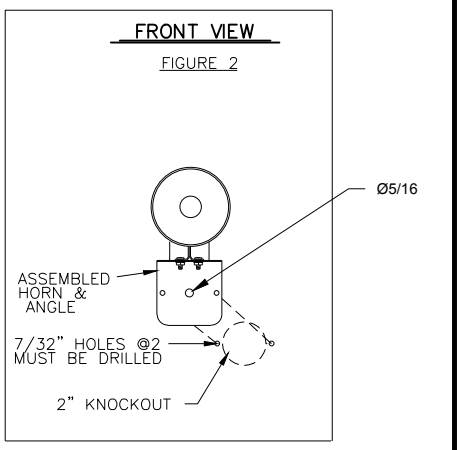
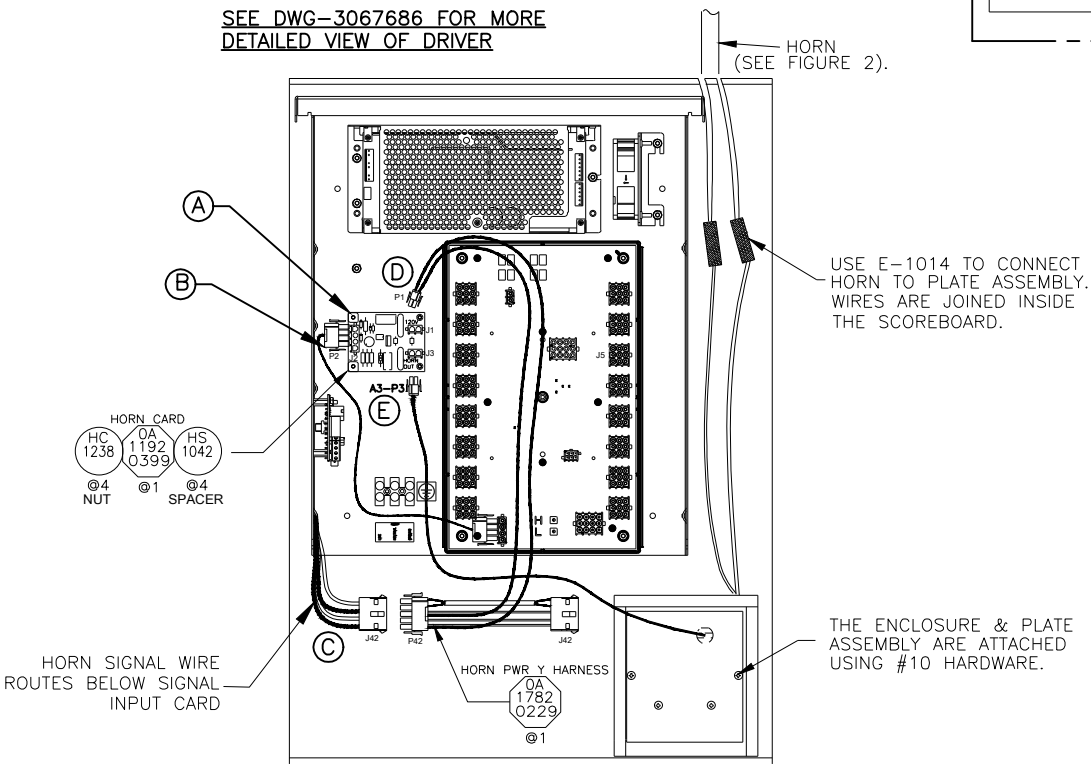


FIGURE 3

HORN CONNECITION

SEE DWG-3067686 FOR MORE DETAILED VIEW OF DRIVER



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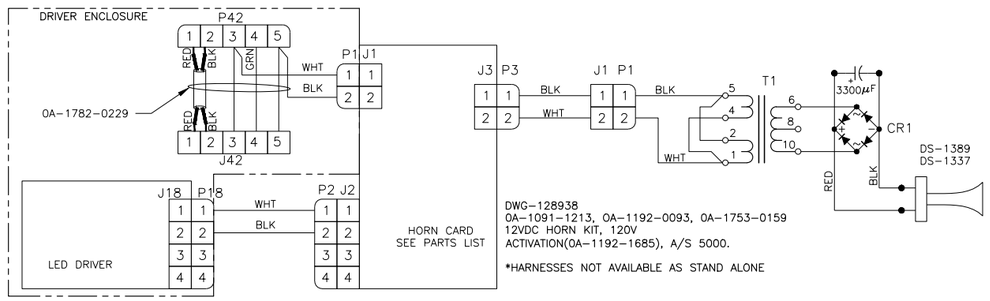
DO NOT SCALE DRAWING				
PROJ: SCOREBOARDS				
TITLE: F. ASSY: 12V DC HORN MOUNTING - OUTDOOR LED SCBD				
DESIGN: KSCHNAB		DRAWN: BGAUGHA		DATE: 29 MAY 15
SCALE: 1=14				
SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	3067687
	00	P1091	E-10-A	

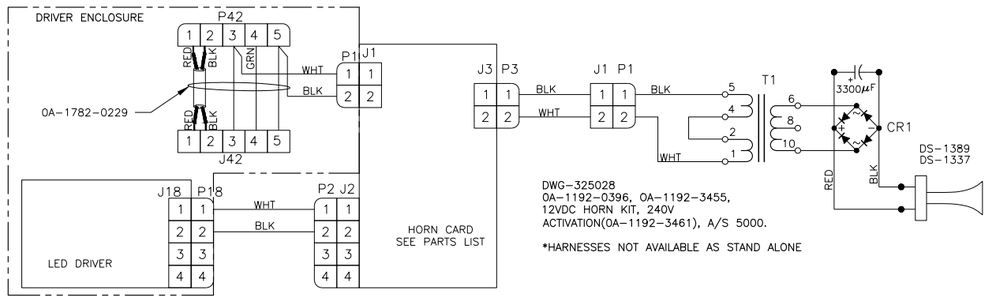
1. OUTDOOR LED SCOREBOARDS: GYRUS DESIGN
120VAC ACTIVATION, 12VDC HORN, ALL SPORT 5000 CONTROL



DWG-128938
0A-1091-1213, 0A-1192-0093, 0A-1753-0159
12VDC HORN KIT, 120V
ACTIVATION(0A-1192-1685), A/S 5000.

*HARNESSES NOT AVAILABLE AS STAND ALONE

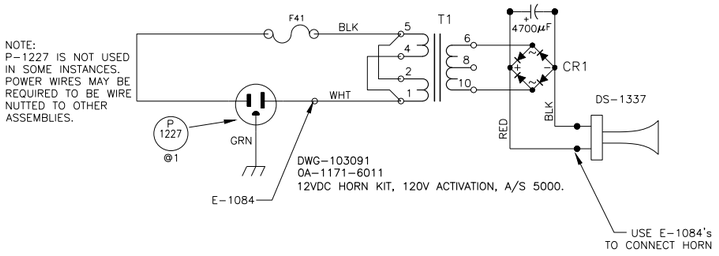
2. OUTDOOR LED SCOREBOARDS: GYRUS DESIGN
240VAC ACTIVATION, 12VDC HORN, ALL SPORT 5000 CONTROL



DWG-325028
0A-1192-0396, 0A-1192-3455,
12VDC HORN KIT, 240V
ACTIVATION(0A-1192-3461), A/S 5000.

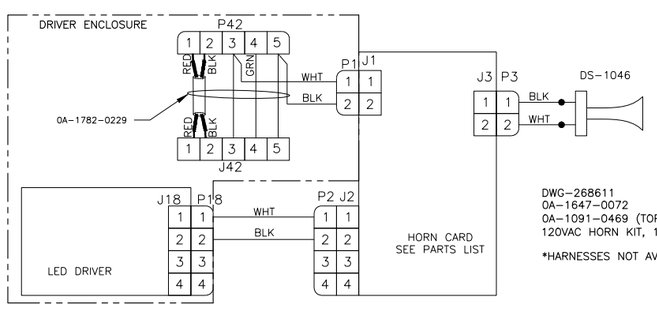
*HARNESSES NOT AVAILABLE AS STAND ALONE

3. 12VDC TRUMPET HORN ASSEMBLY



DWG-103091
0A-1171-6011
12VDC HORN KIT, 120V ACTIVATION, A/S 5000.

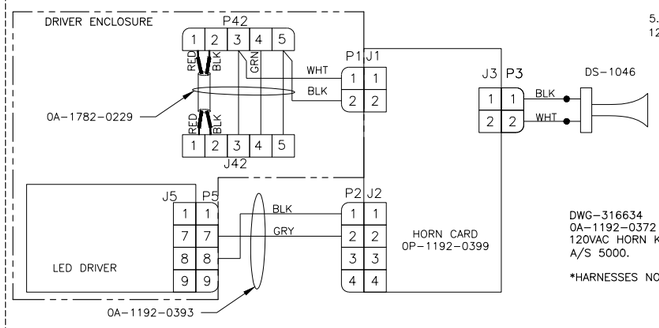
4. OUTDOOR LED SCOREBOARDS: GYRUS DESIGN
120VAC ACTIVATION, 120VAC HORN, ALL SPORT 5000 CONTROL



DWG-268611
0A-1647-0072
0A-1091-0469 (TOP MOUNT), 0A-1192-1112 (BOTTOM MOUNT)
120VAC HORN KIT, 120V ACTIVATION-0A-1192-1685, A/S 5000.

*HARNESSES NOT AVAILABLE AS STAND ALONE

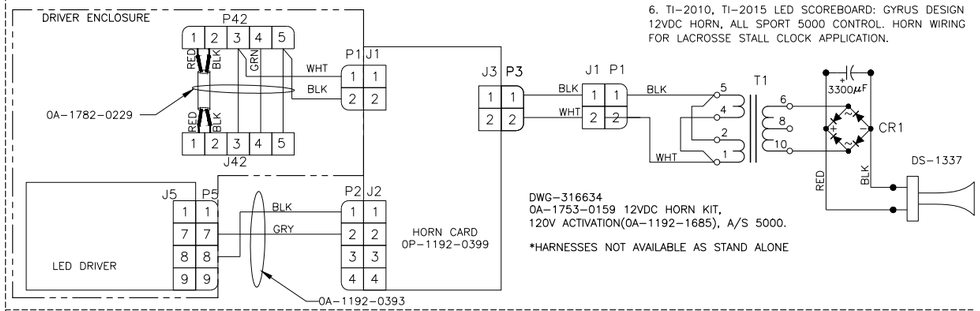
5. TI-2003 LED SCOREBOARD: GYRUS DESIGN
120VAC HORN, ALL SPORT 5000 CONTROL



DWG-316634
0A-1192-0372
120VAC HORN KIT, 120VAC ACTIVATION-0A-1192-1685,
A/S 5000.

*HARNESSES NOT AVAILABLE AS STAND ALONE

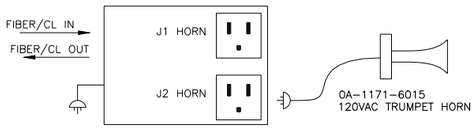
6. TI-2010, TI-2015 LED SCOREBOARD: GYRUS DESIGN
12VDC HORN, ALL SPORT 5000 CONTROL. HORN WIRING FOR LACROSSE STALL CLOCK APPLICATION.



DWG-316634
0A-1753-0159 12VDC HORN KIT,
120V ACTIVATION(0A-1192-1685), A/S 5000.

*HARNESSES NOT AVAILABLE AS STAND ALONE

7. INDOOR/OUTDOOR MATRIX REMOTE HORN



0A-1196-0158
REMOTE HORN DRIVER W/ENCLOSURE
(120VAC PWR IN), 0A-1196-0178
(240VAC PWR IN). **BOTH SWITCH A
120VAC TO SOUND THE HORN.

8. MISC PARTS

HORN INTERFACE BOARDS
0P-1192-0399 - HORN INTERFACE; 5-35V IN, 120V OUT
0P-1150-0255 - 240VAC HORN CARD
0P-1192-0398 - DC

HORN ACTIVATION ASSY
0A-1192-3461 + 0A-1192-0395, 240VAC
0A-1091-1214 + 0A-1192-1685, 120VAC
0A-1171-6010, 120VAC

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BROOKINGS, SD 57006
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BKU: 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	3068821
	00	P1192	R-01-C	

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