

Introduction / Comments:

Install Instructions For Exterior Plug & Play Lights For GM Express

Note:

Read all instructions prior to installation. Review the Adrian Steel **GENERAL PRECAUTIONS PAGES (56638)** before attempting installation. Only personnel familiar with using electrical best practices should perform this install. Reference **ELECTRICAL BEST PRACTICES MANUAL (54479)** before attempting installation.



Installation Instructions For Exterior Plug And Play Lights For GM Express

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*****TORQUE*****
Torque all strobe
fasteners to 10 in-lbs.
DO NOT OVER TIGHTEN

DO NOT MOUNT ON A
CURVED SURFACE

Best Practices to Follow when Routing Through Firewall:

- Create a drip loop with the harness being routed through the firewall as shown so that the water does not flow into the grommet.
- Make sure that the proper grommet for the hole being routed through is used so that there are no openings for water to get through.
- Use silicone after routing and apply around the grommet and wire to seal it. Make sure to let the silicone dry for 30 minutes to an hour.



Apply silicone around the grommet and wire loom so that it is completely sealed.

Drip loop created so water runs off of loom and not into the cab of the vehicle.

****Please read statement below before moving forward****

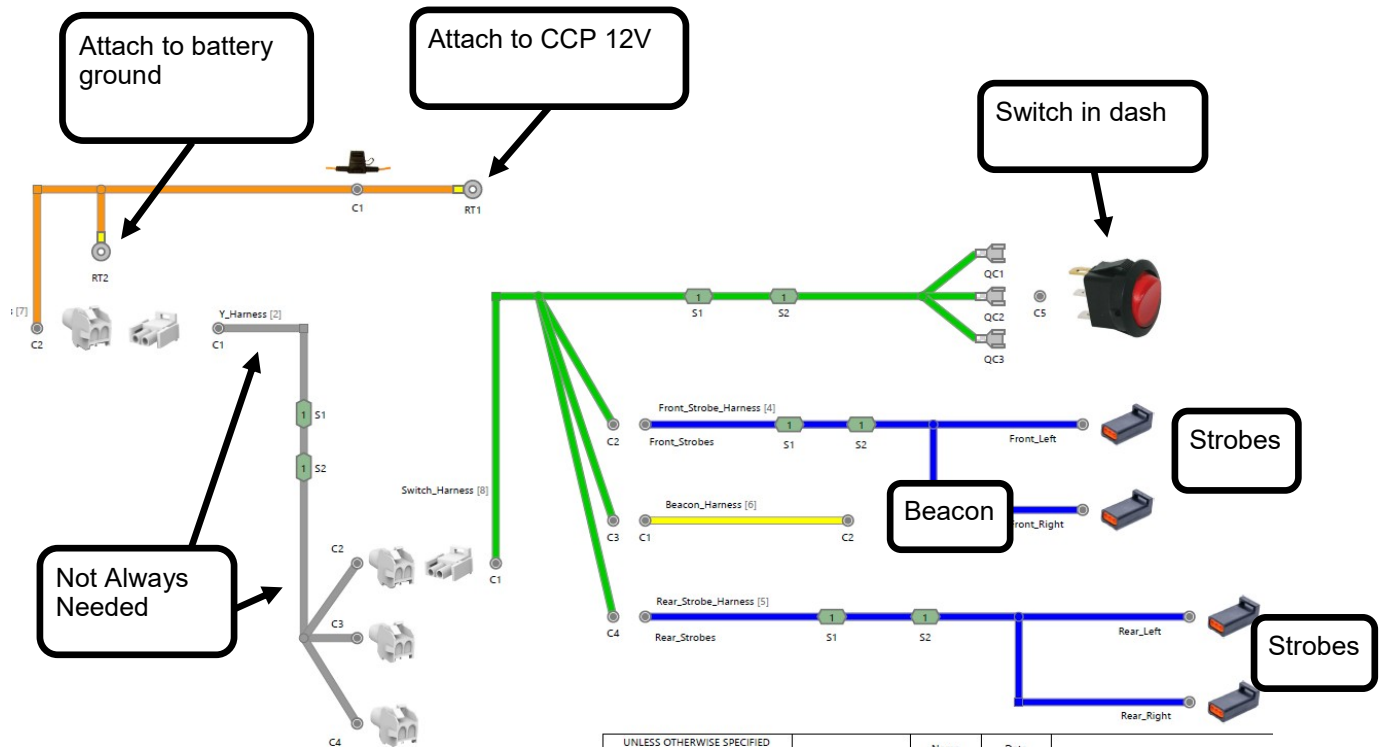
Before installation, disconnect the OEM negative battery cable.

These plug and play kits are completely modular and can be configured in many different ways. Placement of lights will be determined by sales order drawings/customer ask. Therefore, these instructions are for the most standard configurations, and for reference only.

Please reference the order drawing and spec sheet to see what components are going to be installed on this particular upfit.

These installation instructions are for most cases and for reference. Not all installs will have strobes, beacons, and lightbars. Reference the instructions for only what you are installing.

Overall Harness Diagram



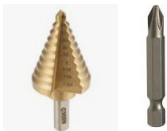
Tools required:

10mm socket

Phillips bit, 1/2" drill bit
and 5/16" step drill bit

Power drill and impact

Torque wrench



Components



	Part Number	Description
1	67094	Power Harness #3
2	67098	Switch Harness #2
3	67101	Front Strobe Harness #1 (If Applicable)
4	67108	Rear Strobe Harness #3 (If Applicable)
5	67114 or 67115	Beacon/Lightbar Harness #4 or 5 (If Applicable)
6	67686 or 67687	Strobes (If Applicable)
7	67689 or 67690	Beacons (If Applicable)
8	71834	Beacon Mounting Kit

The purpose of plug and play lighting is to be completely modular. Due to this feature, refer to the order drawing for all exact lighting placements. These installation instructions are for most cases and for reference. Not all installs will have strobes, beacons, and lightbars. Reference the instructions for only what you are installing.

Harness pictures are for reference only.

Placements

Switch placement: Under Radio
On Dash

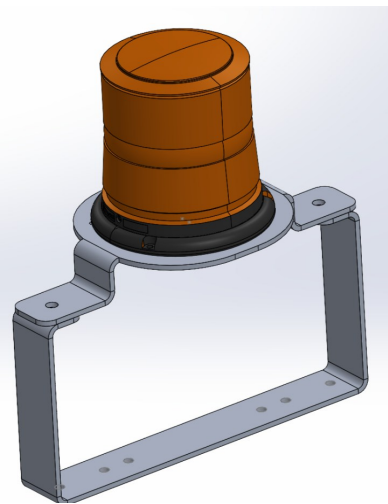


Front Strobes: Middle Of Grill



*****TORQUE STROBES TO 10-IN-LB'S
MAXIMUM*****

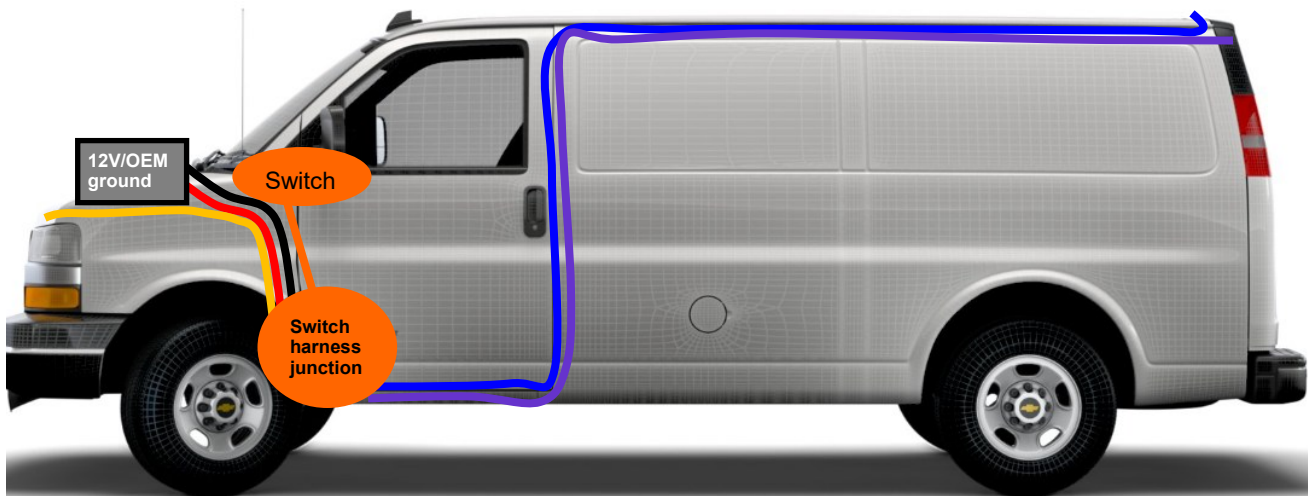
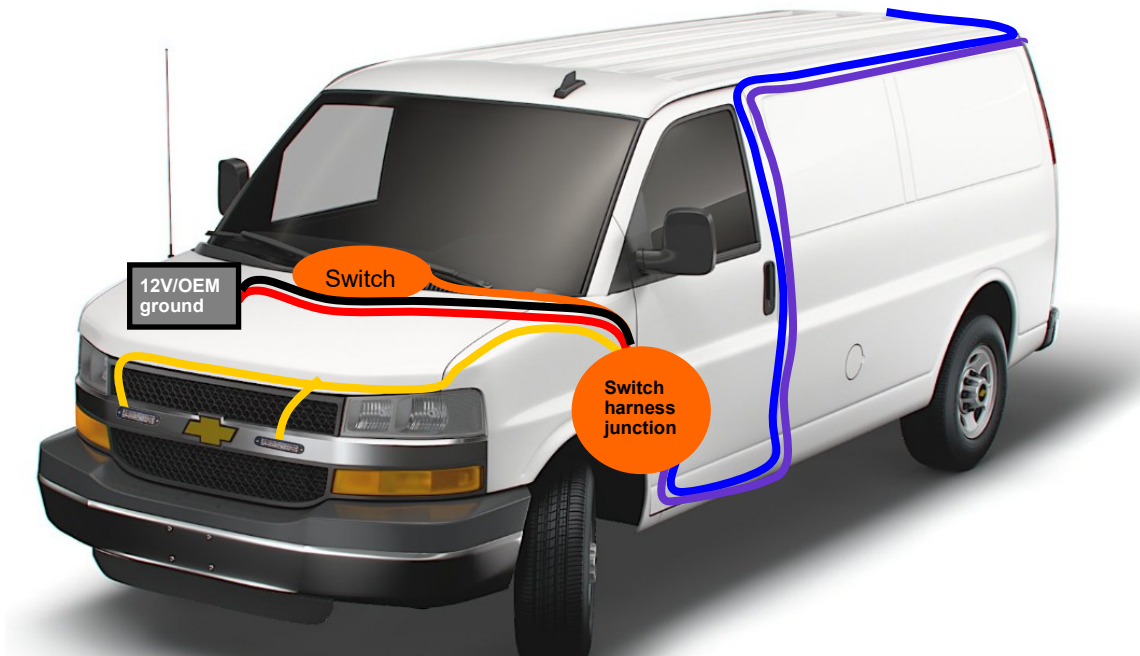
Beacon or Lightbar: On Ladder
rack



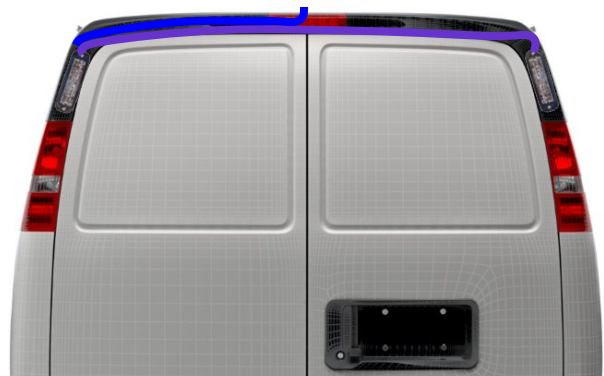
Rear Strobes: Above Rear Lights



Routing Overview



Color	Key - Items
Yellow	Strobes - Front strobe harness
Red/Black	Power harness: Battery to kick panel
Orange	Switch harness: Switch in dash
Blue	Beacon harness: Switch to beacon
Purple	Strobes - Rear strobe harness





Step 1: Locate the power harness #67094.

Remove the fuse from the inline fuse holder until the end of the install.

Under the hood:

Locate the OEM battery on the passenger side of the bay. Figure 7.1.

Step 2:

Attach the red wire with the ring terminal to the 12V positive post.

Attach the black wire with the ring terminal to the OEM ground post.

Figure 7.2.



Route the white connector end towards the cab following the OEM harnesses to the Firewall grommet (to the cab). It is located behind the E-brake (cab side) Secure with zip ties.

Figure 7.3 routing.

Figure 7.4 OEM grommet looking from inside the cab.



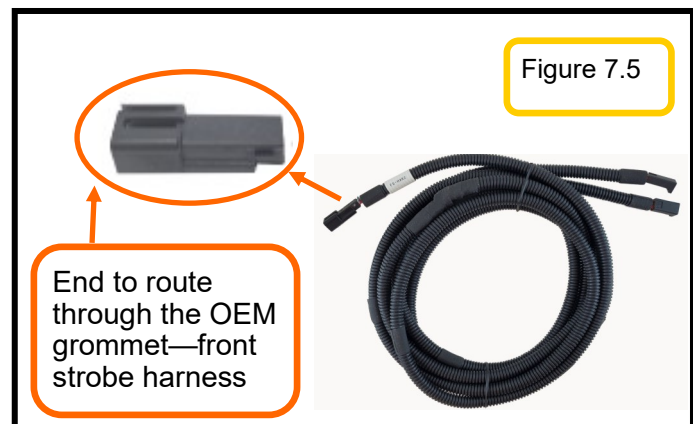
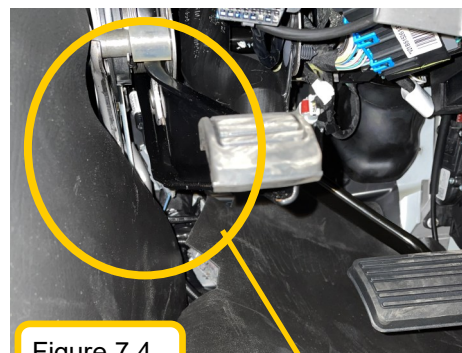
Step 3:

Cut/drill a hole in the grommet to route the power harness through.

****If you are installing strobes on this install route the strobe harness interior connector in through the grommet at this time as well. Refer to page 11 for routing strobe instructions.**

Figure 7.5 for connector reference.

Silicone the grommet holes/wiring once all harnesses have been routed through.



Power harness

Switch Harness

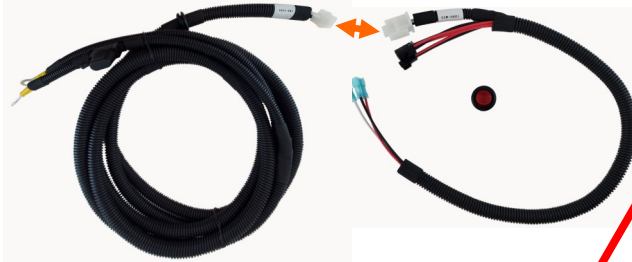


Figure 8.1



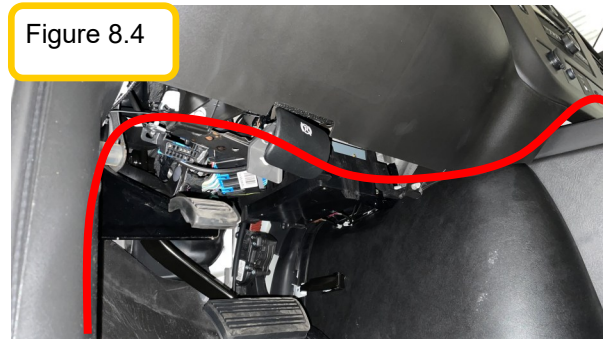
Figure 8.2



Figure 8.3



Figure 8.4



Step 4: Locate the switch harness #67098

Connect the switch harness connector to the power harness in the kick panel area.

Using a trim tool, carefully remove the empty square trim piece in the center dash. Figure 8.1 and 8.2.

If there is no inverter with this install: Drill a hole in the center of the trim panel for the switch:

A hole diameter of 3/4" (19mm) is necessary to install the snap in switch (do not insert switch yet).

If an inverter switch is already in this place, move the strobe switch to the left of the inverter switch, directly in line with it. Or however you can fit both switches in the same panel.

Using a fish tape: Route the switch end of the switch harness under the steering column behind the panels and through the opening in the switch location. AVOID MOVING/ROTATING OBJECTS. Figure 8.3, 8.4, and 8.5.

Secure with zip ties.

Connect the ground spade to the gold pin on the rocker switch

Connect the white battery power spade to the opposite terminal on the switch.

Connect the red spade to the middle pin.

Insert the switch into the hole and place the strobe/beacon decal (if supplied) around the switch.

Reassemble all trim and secure wiring.



Figure 8.5

Strobe Install—If Applicable

Strobe pictures are for reference only. Please refer to product structure/spec sheets for the actual strobes for the install.

Figure 9.1



Step 1: (If you are installing a beacon, follow these routing steps with the beacon harness)

Locate the rear strobe harness #67108.

Connect the rear strobe harness to the switch harness (one of the remaining unused connectors) in the driver's foot well. Figure 9.1.

Step 2:

Locate the driver's side door sill area. Figure 9.2.

Carefully route the strobe harness through the door trim down to the floor. Be sure not to interfere with the hood latch.

Continue routing the harness down to the floor, under the sill trim, and under the driver's seat. See figure 9.3 for the routing path.

Re-insert trim that was pulled up after routing.

Route the harness up the partition and secure with zip-ties. Figure 9.4.

Figure 9.2



Figure 9.3

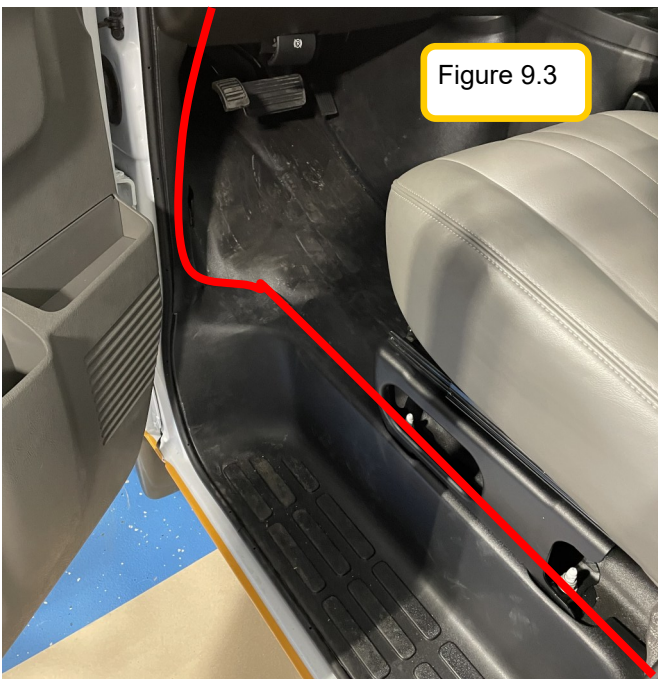


Figure 9.4



Figure 10.1



Step 3: Routing (Refer to routing diagrams at the beginning of the instructions)

Route the strobe harness rearward following the OEM harness. Figure 10.1.

The first strobe connection will be made in the top driver's side D-pillar—circled in green. The second connection will be made in the top passenger side d-pillar, also circled in green. Figure 10.2.

Figure 10.2



Figure 10.3



Step 4: Mounting Strobes

Locate the rear side doors (outside of van). Use the strobe as a template to make your needed holes. On the driver's side, center the strobe on the black trim housing above the tail lights. Figure 10.3.

Drill a 1/2" hole for the wire pass through of the strobe.

Step 5: Using a fish tape, route the wire harness through the D-pillar channel up through the strobe wire pass through hole. This may be tricky. Figures 10.4 and 10.5.

(If this is not manageable you may need to take the tail light and housing off the van and route through the taillight. Figure 10.6.)

Tape up the non-needed blue or yellow wire on the strobe.

Use silicone to seal the wire pass through hole.

Place the strobes in their desired locations and fasten them onto the bumper with the supplied screws. You may want to drill pilot holes for ease of install.

*****TORQUE STROBES TO 10-IN-LB'S MAXIMUM*****

Repeat for the passenger side strobe.

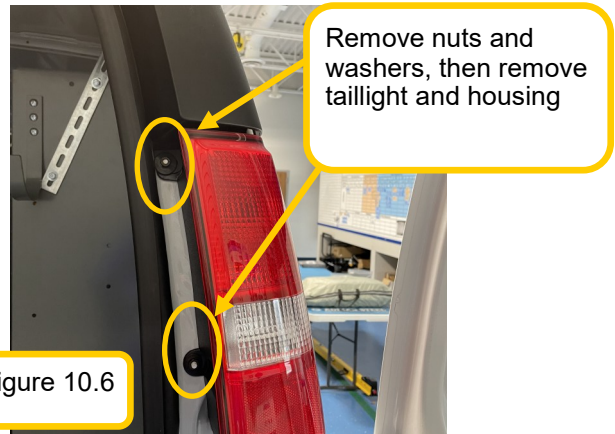
Figure 10.4



Figure 10.5



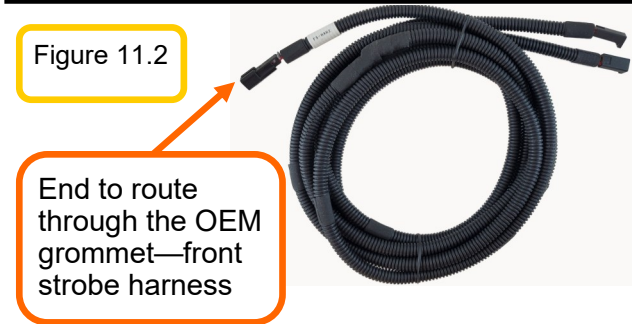
Figure 10.6



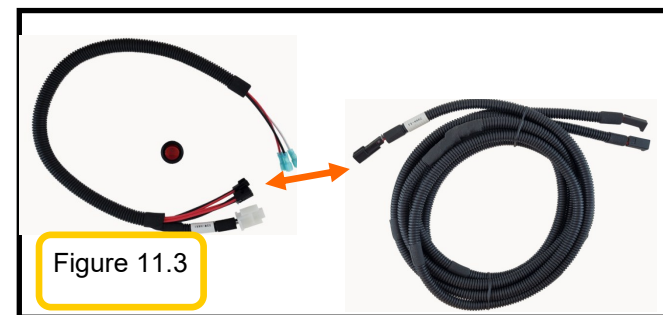


Step 5: Locate the front strobe harness #67101.

Start by routing the inside connector end of the harness to the firewall. This should be already routed through the grommet with the power harness and silenced. If this is not done, please do this now. Refer to page 7 on the grommet and silicone needed.
Figures 11.1 and 11.2.



Connect the strobe harness to one of the un-used connectors on the switch harness.
Figure 11.3.



Step 6:

Route the strobe connector ends to the each of the strobes. Follow the routing path shown in red in figures 11.4 and 11.5.

Secure wiring with zip ties.

Be sure not to secure or route the harness anywhere near moving or hot objects.

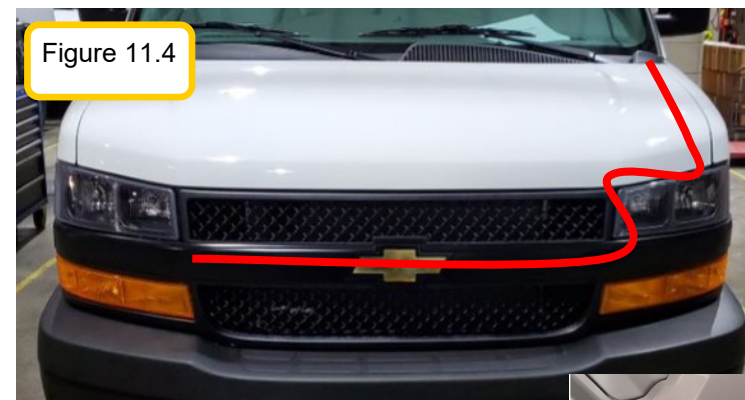


Figure 12.1



Step 7: Mounting Front Strobes

Locate the van front grill.

On the passenger's side: Place the strobe on the same trim panel as the Chevy logo. Measure 8" inward the edge of the headlight and centered vertically. See figures 12.1, 12.2, and 12.3 for placement.

Use the strobe as a template, mark the center hole location on the panel (for routing the wires through).

Drill a 1/2" hole for the wire pass through on the strobe.

Route the strobe harness connectors through the holes.

Only silicone the hole the holes on the inside of the vehicle.
DO NOT SILICONE ON THE OUTSIDE OF THE VEHICLE.

Connect the strobe to the strobe harness and tape up the non-needed blue or yellow wire.

Place the strobes in their desired locations and fasten them onto the grill with the strobe light supplied screws. Drill pilot holes for an easier installation. Figure 12.4.

*****TORQUE STROBES TO 10-IN-LB'S MAXIMUM*****

Repeat for the other side strobe.

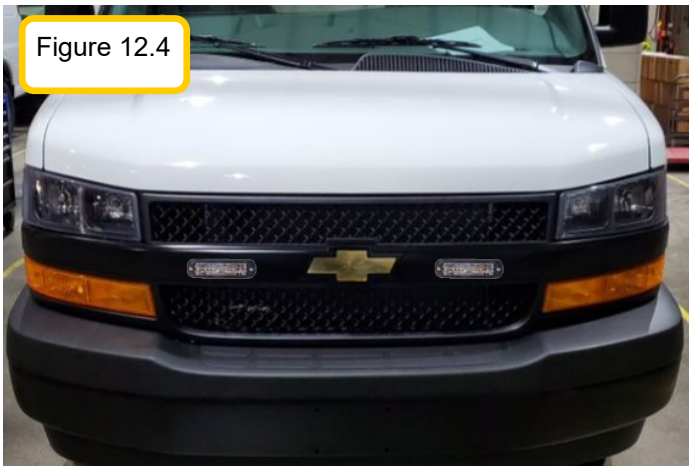
Figure 12.2



Figure 12.3



Figure 12.4



Beacon Install—If Applicable

Beacon and mount pictures are for reference only. Please refer to product structure/spec sheets for the actual beacon/mount for the install.



Step 1: Routing (Refer to routing diagrams at the beginning of the instructions)

Locate the beacon harness # 67114 or 67115.

Connect the harness to the switch harness (one of the remaining unused connectors) in the driver's foot well.

Figure 13.1.

Locate the driver's side door sill area.

Figure 13.2.

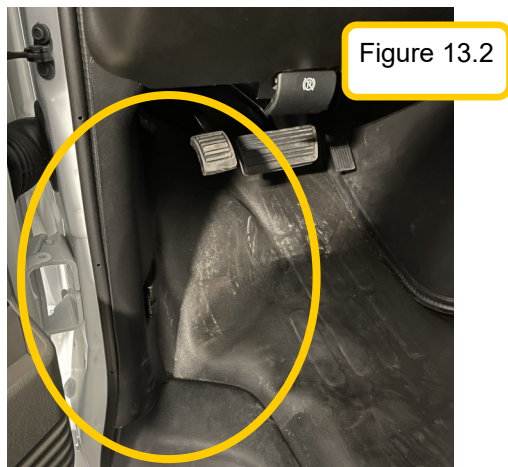
Carefully route the strobe harness through the door trim down to the floor. Be sure not to interfere with the hood latch.

Continue routing the harness down to the floor, under the sill trim, and under the driver's seat.

See figure 13.3 for the routing path.

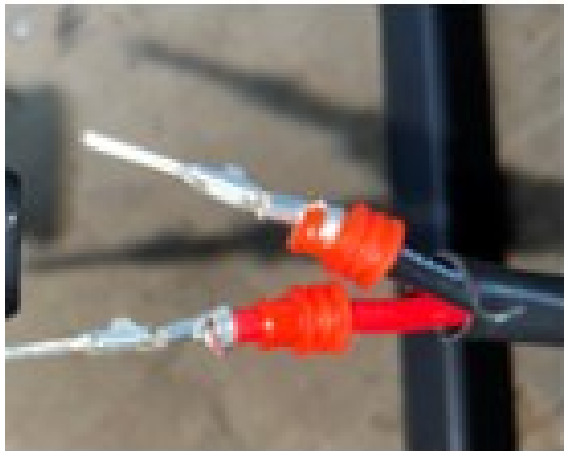
Re-insert trim that was pulled up after routing.

Route the harness up the partition and secure with zip-ties. Figure 13.4..



Beacon Installation

VERIZON ONLY



1. Use wire cutters to snip off the connector as this is no longer needed for these vehicles.
2. Use wire strippers to remove ¼" of insulation from the tips of both of the wires.
3. If not already done, strip the tips of the red and black wires coming from the beacon. The white wire from the beacon will not be needed.
4. Use a closed barrel crimp tool and heat shrinking butt splice connectors to connect the wire harness wires to the leads of the beacon, red to red and black to black.
5. Use a heat gun to shrink the insulation around the butt splice connectors to make a watertight seal.
6. Continue the installation steps to mount the beacon to the vehicle.

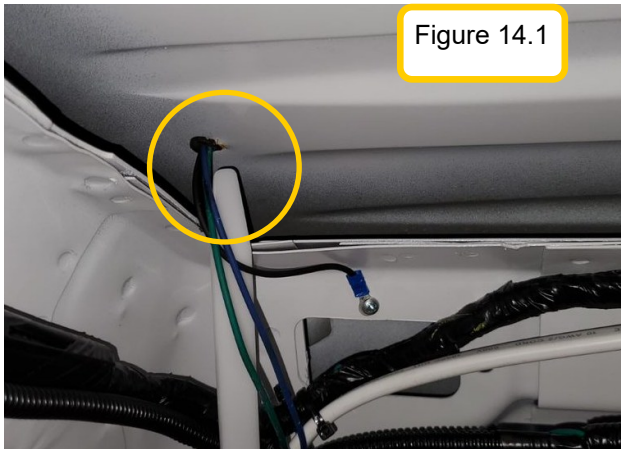


Figure 14.1

For ladder rack mounted beacon:

Step 1: Locate the rear driver's side D-pillar corner. Mark a location in the corner that will not interfere with the ladder rack foot mounting, but as close as possible.

Figure 14.1.

Drill a 5/8" (to fit the cable gland on the beacon harness) in the center for the wire pass through.

Route the beacon wire harness to the rear d-pillar following the OEM harness, then through the hole and insert the cable gland. Tighten the cable gland.

Secure with zip-ties.

Step 2: Refer to next page if beacon does not have a connector on the wire ends. Locate the beacon, beacon cage, and mount.

Run the beacon wires through the tube of the mount before mounting.

Use the provided nut, screw, and washer to mount the cage and beacon to the mount.

Figure 14.1.

Assemble the beacon mount feet by inserting the bolt (FAS0479) through the flat washer (FAS0555) then into the nut (FAS0554). Figure 14.2

Step 3: Connect the beacon harness to the beacon now. You will need to remove the cap on the beacon harness. Tape up the un-needed yellow wire. Tuck the connector part of the harnesses up into the tube for easier routing.

Mount the beacon to the lower bracket that will be mounted to the rail. 14.3

Tighten the bolts once you have positioned the beacon. Figure 14.4.

NOTE: 14.4 for REFERENCE ONLY

Figure 14.2



Figure 14.3

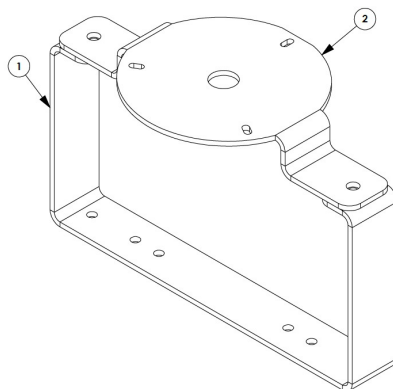
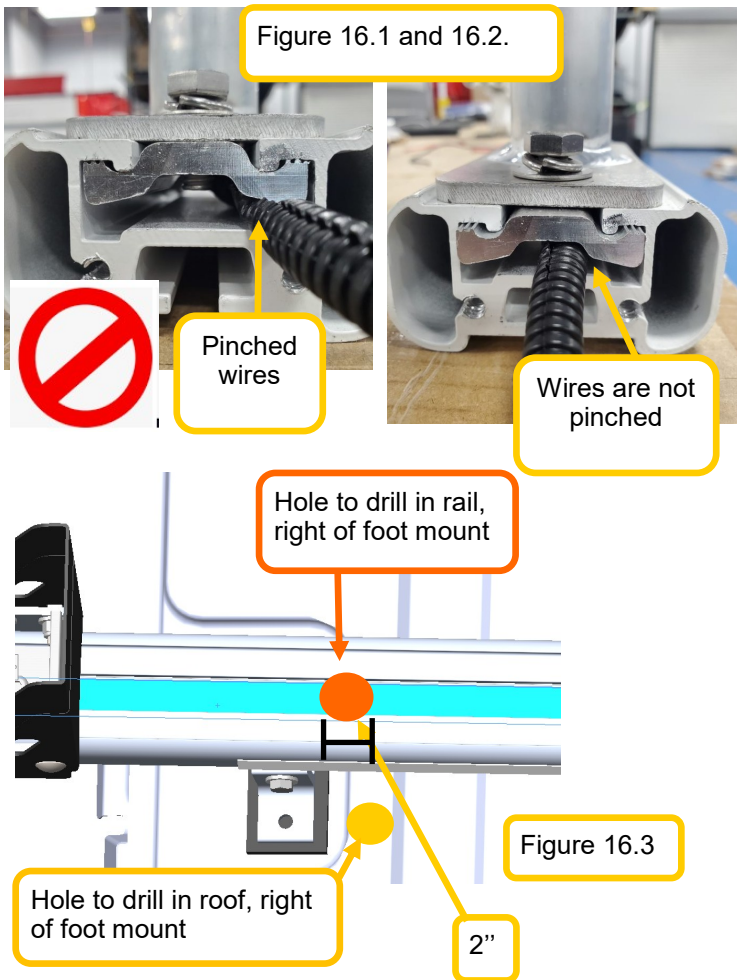


Figure 14.4



*****Be cautious the wires are not pinched after tightening the slides*****
See figures 16.1 and 16.2 for reference.

Step 4: Ladder Rack Routing

Option 1: (The preferred option)

Drill a 3/8" hole from the top channel to the bottom channel, 2" to the right of the where the foot mounts to the rail. See picture to the left for reference.

Route the wires in the top rail channel (before inserting the weather strip) to the drivers side area, through the hole in the rail, and down the foot to the hole in the roof. Figure 16.3.

Option 2: Drill a 3/8" hole from the top channel to the bottom channel directly under the beacon mount in the middle of the crossbow. Then route the wires through the hole to the bottom channel and down the channel to the end of the rail, drivers side.

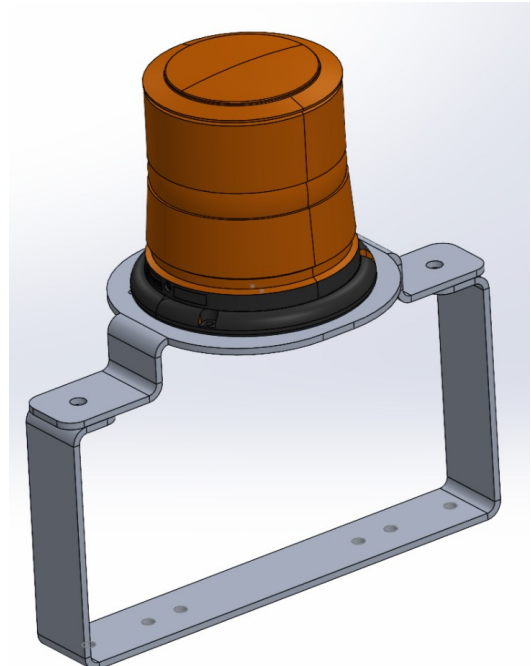
On 68" the rack, measure 34" from the end. On the 58" rack measure 29" from the end.

Use the tek screws (FAS0842) and nylon clips (66843) to secure the wiring under the utility rack.

The hole is drilled beneath the beacon from the top channel to bottom.

Where you route the wires will depend on what all options you are installing on the utility rack.

If you are installing a few accessories onto the rail that mount to the bottom channel, use the top channel for wire routing. Or vise versa.



Insert the fuse into the inline-fuse holder on the power harness. The install is now complete. Secure all wiring with zip ties. Re-attach all trim. Re-assure all pass through holes have been silicone. Double check the functionality of the lights and switches.

ITEM DESCRIPTION: WIRE TIE, NYLON 40Lb, 8.5" BLACK

MANUFACTURER: WAYTEK, INC. or equivalent
MANUFACTURERS PART NUMBER: 21093M or 21093C

SPECIFICATIONS: STANDARD CABLE TIE
 BLACK, NYLON
 8-1/2" LONG
 TENSILE STRENGTH: 40.0 LBS
 21093M = 1,000 quantity
 21093C = 100 quantity

SPECIAL NOTES: PART NUMBER IS BLACK.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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517-265-6194
WWW.ADRIANSTEEL.COM



CAUTION
WHEN INSTALLING EQUIPMENT IN OR ON
VEHICLES CHECK FOR FUEL TANKS, FUEL
LINES, CONTROL LINES AND ELECTRICAL
WIRING BEFORE DRILLING! ALWAYS USE
DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!

DRAWN BY
MDG

DATE DRAWN
10/26/2006

ECN NUMBER
18021

ECN DATE
11/13/2015

PART WEIGHT
0.01 LBS.

REV. LEVEL
D

PART NUMBER
13905-0

PART NUMBER

26618-0**ITEM DESCRIPTION: SILICONE, 1oz. TUBE**

SPECIFICATIONS: SU5005 RTV SILICONE
1oz. TUBE
CLEAR OR EQUIVILENT
SELF PIERCING CAP

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

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WHENEVER POSSIBLE!**

DRAWN BY
JLC

DATE DRAWN
7/21/2001

ECN NUMBER
16551

ECN DATE
7/22/2014

PART WEIGHT
0.02 LBS.

REV. LEVEL
C

PART NUMBER
26618-0

PART NUMBER

26618-0**ITEM DESCRIPTION: SILICONE, 1oz. TUBE**

SPECIFICATIONS: SU5005 RTV SILICONE
1oz. TUBE
CLEAR OR EQUIVILENT
SELF PIERCING CAP

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

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WHENEVER POSSIBLE!

DRAWN BY
JLC

DATE DRAWN
7/21/2001

ECN NUMBER
16551

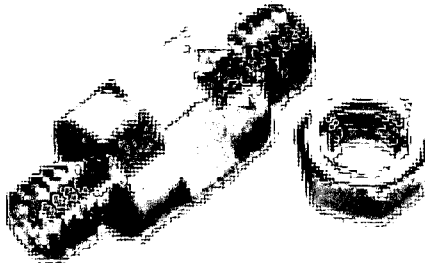
ECN DATE
7/22/2014

PART WEIGHT
0.02 LBS.

REV. LEVEL
C

PART NUMBER
26618-0

PART NUMBER

32649-0**ITEM DESCRIPTION: BATTERY BOLT EXTENDERS**

MANUFACTURER: WAYTEK WIRE
MANUFACTURERS PART NUMBER: 36244

SPECIFICATIONS: BATTERY BOLT EXTENDER FOR SIDE POST APPLICATIONS.
POWER HOOK-UP FOR DIRECT CONNECTIONS TO BATTERY.
SOLID BRASS BOLT EXTENDER AND PLATED STEEL NUT.

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS INSTALLER SUPPLIED!

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DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!

DRAWN BY
MDG

DATE DRAWN
03/29/2006

ECN NUMBER
8993

ECN DATE
03/29/2006

PART WEIGHT
0.05 LBS.

REV. LEVEL
PCS

PART NUMBER

32649-0

ITEM DESCRIPTION: BUTT CONNECTOR FOR 14-16 GA WIRE, SEALED



MANUFACTURER: WAYTEK or CTW

MANUFACTURERS PART NUMBER: #31965 or #4-14-6

SPECIFICATIONS: 16-14 GA SEALED BUTT CONNECTOR
HEAT SHRINK COVERED

SPECIAL NOTES: NONE

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

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LINES, CONTROL LINES AND ELECTRICAL
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WHENEVER POSSIBLE!

DRAWN BY
HJE

DATE DRAWN
11/29/2007

ECN NUMBER
14407

ECN DATE
12/27/2011

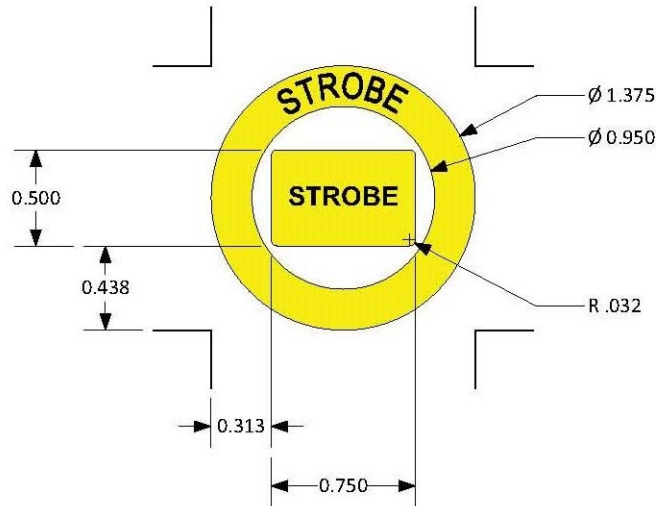
PART WEIGHT
.01 LBS.

REV. LEVEL
B

PART NUMBER

35468-0

ITEM DESCRIPTION: STROBE SWITCH DECAL SET



MANUFACTURER: VANNER

MANUFACTURERS PART NUMBER: TBD

SPECIFICATIONS: (1) Circular Yellow Decal (ID=0.950", OD=1.375") with "STROBE" in black letters
 (1) Rectangular Yellow Decal (H=0.500", L=0.750") with "STROBE" in black letters

SPECIAL NOTES: For round rocker switch (OD=0.780") and Ford Transit Upfitter Switches.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!**PURCHASED PRODUCT DATA SHEET (PPDS)**

Page 1 of 1

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 ADRIAN, MI 49221
 517-265-6194
 WWW.ADRIANSTEEL.COM



WHEN INSTALLING EQUIPMENT IN OR ON VEHICLES CHECK FOR FUEL TANKS, FUEL LINES, CONTROL LINES AND ELECTRICAL WIRING BEFORE DRILLING! ALWAYS USE DRILL BITS WITH INTEGRAL STOPS WHENEVER POSSIBLE!

DRAWN BY
 RJB

DATE DRAWN
 11/15/2017

ECN NUMBER
 XXXX

ECN DATE
 XXXXXX

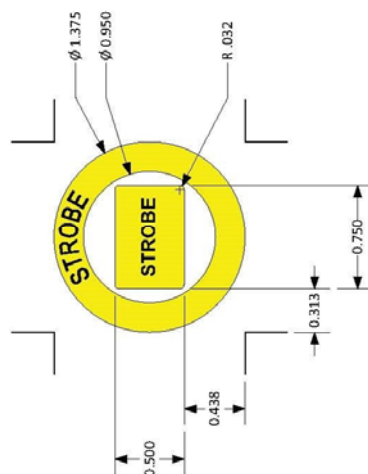
PART WEIGHT
 0.02 LBS.

REV. LEVEL
 A

PART NUMBER
55073

REVISIONS			
REV	DESCRIPTION	DATE	RE/ECO

- NOTES:
1. MATERIAL : .002 YELLOW POLYESTER
 2. ARTWORK FROM D91XXXX-A PAGE 1, PMS BLACK
 3. .001 OVERLAMINATE
 4. ADHESIVE BACKED



VANNER INCORPORATED		HILLIARD, OHIO USA	
TOL. LABEL/ METAL .x ± .025 .xx ± .015 .xxx ± .005		TITLE: LABEL, STROBE TXT, .95ID ROUND SWITCH	
TOL. CABLES .xxx ± .25		DRAWING/ PART NO. D01XXXX	
DRNDATE MCO 11/14/17	CHKDATE XXX XXXXXX	SHEET 1 OF 1	REV A
SCALE: NONE RE/ECO NO.: XXXX			
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PART NUMBER
55073

Page 2 of 1

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DRAWN BY
RJB

DATE DRAWN
11/15/2017

ECN NUMBER
XXXX

ECN DATE
XXXXXXX

PART WEIGHT
0.02 LBS.

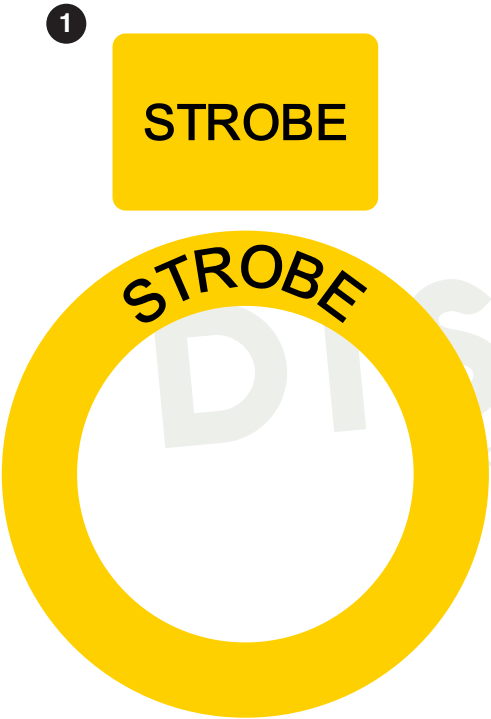
REV. LEVEL
A

PART NUMBER
55073

LOC | QTY | Part # | Description | Size

Material: IJ39 | Lamination: 8518

1 1: 6039597.Strobe Switch-1.52" x 2.07"



Note: Part will not be weeded, just cut.

Kit# 8001872 | Adrian Steel Part # 55073

06/01/2023 • JY
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ASCO REV.1 6/14/2023

DISTYLL GRAPHIC SOLUTIONS FINAL DESIGN	CLIENT NAME:		Switch Decals		O-ID: O15319-1
	Adrian Steel				Rev #: XXXX
	DATE:	DESIGNER:			Opt #: A
	O5/31/2023	TRN			

Please check information to confirm accurate vehicle specifications.

CLEANING INSTRUCTIONS All surfaces must be considered contaminated. Clean the vehicle surface immediately before applying the film. Dust and other contaminates can collect quickly on the surface and prevent the film from adhering properly. Even a freshly painted surface can collect dust before graphics can be applied.

For the best success with the films recommended for vehicle graphics, always apply the graphics when the air and vehicle surface are both above 60°F (16°C) and below 90°F (32°C) before beginning the installation.

ITEM DESCRIPTION: Step down butt connector, 22-18 to 16-14 AWG



MANUFACTURER: Waytek

MANUFACTURERS PART NUMBER: 38050

SPECIFICATIONS: Step down Butt connector, 22-18 to 16-14AWG (Blue to red)

SPECIAL NOTES: None.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

Page 1 of 1

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ADRIAN STEEL

Cargo Management Solutions for Commercial Vehicles

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CAUTION



WHEN INSTALLING EQUIPMENT IN OR ON VEHICLES CHECK FOR FUEL TANKS, FUEL LINES, CONTROL LINES AND ELECTRICAL WIRING BEFORE DRILLING! ALWAYS USE DRILL BITS WITH INTEGRAL STOPS WHENEVER POSSIBLE!

DRAWN BY
PJC

DATE DRAWN
6/18/2018

ECN NUMBER
28822

ECN DATE
11/10/2025

PART WEIGHT
0.00 LBS.

REV. LEVEL
B

PART NUMBER

56833

PURCHASED COMPONENT KEY FEATURES	
DESCRIPTION OF REQUIREMENTS	
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)	
N/A	
LOAD/RATING REQUIREMENT	
N/A	
MATERIAL REQUIREMENT	
N/A	
PACKAGING REQUIREMENT	
N/A	
OTHER REQUIREMENTS	
Note: Soundoff Signal 4500 Series Amber Beacon: - 12 LEDs -Eight flash patterns - 10-30V DC - 1A draw @ 12V DC; 5A draw @24V DC - 6-1/3" dia. -SAE J845 Class 1 certified	



Bottom View



TOLERANCES & INSPECTION	
UNLESS OTHERWISE SPECIFIED	
ALL BEND ANGLES ARE 90 DEGREES	
ALL DIMENSIONS ARE IN INCHES.	
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION	
FEATURES	HOLES/SLOTS
0.0 = ± .125	0.0 = ± .062
0.00 = ± .062	0.00 = ± .031
0.000 = ± .031	0.000 = ± .015
Material Thickness: per ASTM Std. Weld Callouts per AWS	
RELEASE & REVISIONS	
INITIAL ECN: 25624	
CURRENT ECN: 27608	
ECN DESCRIPTION:	
Edit Manuf# to New Replacement	
REVISED BY: MLH	

PURCHASED COMPONENT	
REFERENCED SUPPLIER AND/OR MANUFACTURER	
Sound Off Signal	
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER	
ELB45BCH0AA-VZN-DC	
COLOR (ONLY LIST IF COLOR SPECIFIC)	
Amber/Amber	
COMMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)	
NO	

PRINTED DOCUMENT IS UNCONTROLLED			Sheet 1 of 1
PART / PRODUCT IDENTIFICATION			
	ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221
			REVISION LEVEL B
MAT'L USED:		DESIGNED BY: SPL	
DESCRIPTION: Soundoff Signal 4500 Series Amber Beacon			
WEIGHT (Lbs.): 1.0	SEGMENT CODE: EBE		PART NUMBER: 66949

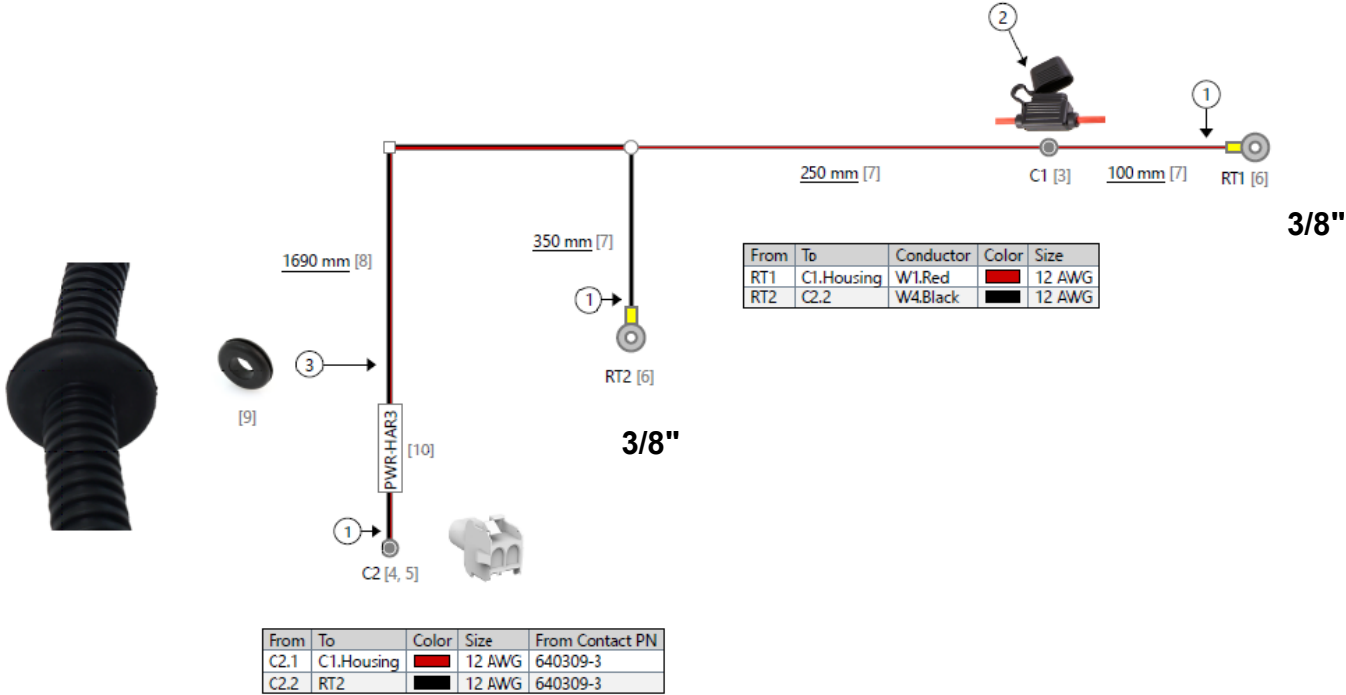
PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Wire		12 AWG Red GXL	2040 mm
2	Wire		12 AWG Black GXL	2040 mm
3	Fuse Holder	Egis Mobile Electric	901028	1
4	Connector	TE Connectivity	1-480699-0	1
5	Contact	TE Connectivity	640309-3	2
6	Ring Terminal	Molex	19164-0068	2
7	Corrugated Tubing		0.25" Nylon Split Wall	700 mm
8	Corrugated Tubing		10mm Nylon Split Wall	1690 mm
9	Grommet		14mm Grommet	1
10	Label		Heat Shrink Style Label	1

Coverings	
Id	Assembly
[7]	
[8]	

Notes	
①	Lock Tape Loom with Tesa 51036
②	Add 15A ATO/ATC Fuse
③	Add rubber grommet over harness loom; 150mm behind C2



Revisions			
Rev.	Date	Author	Description
	11/5/2021	Bennet Fisher	Initial Drawing
A	7/28/2022	Bennet Fisher	Changed fuse holder and fuse from ATM to ATO/ATC
B	2/2/2026	Bennet Fisher	Changed ring terminals from 5/16 to 3/8

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AAMP GLOBAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AAMP GLOBAL IS PROHIBITED.		Name	Date		
	Designed By	Bennet Fisher	11/05/2021		
	Engineering Approval				
	Manufacturing Approval				
	Revision Approval			Part Number: PWR-HAR3	Revision: B
Quality Assurance			Description: Exterior Light Battery Harness	Sheet: ----	

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DETRIMENTAL TO THE INTERESTS OF ADRIAN STEEL COMPANY

TOLERANCES & INSPECTION	RELEASE & REVISIONS
UNLESS OTHERWISE SPECIFIED ALL BEND ANGLES ARE 90 DEGREES ALL DIMENSIONS ARE IN INCHES. REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION	INITIAL ECN: 25378 CURRENT ECN: 29126 ECN DESCRIPTION: INCREASE RING TERMINALS TO 3/8"
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031 Material Thickness: per ASTM Std. Weld Callouts per AWS	REVISED BY: MLH

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
67094 OR PWR-HAR3

COLOR (ONLY LIST IF COLOR SPECIFIC)
NO

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

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SHEET 1 OF 1

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®
ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL
B

MAT'L USED: PURCHASED
DESIGNED BY: E.BURKE

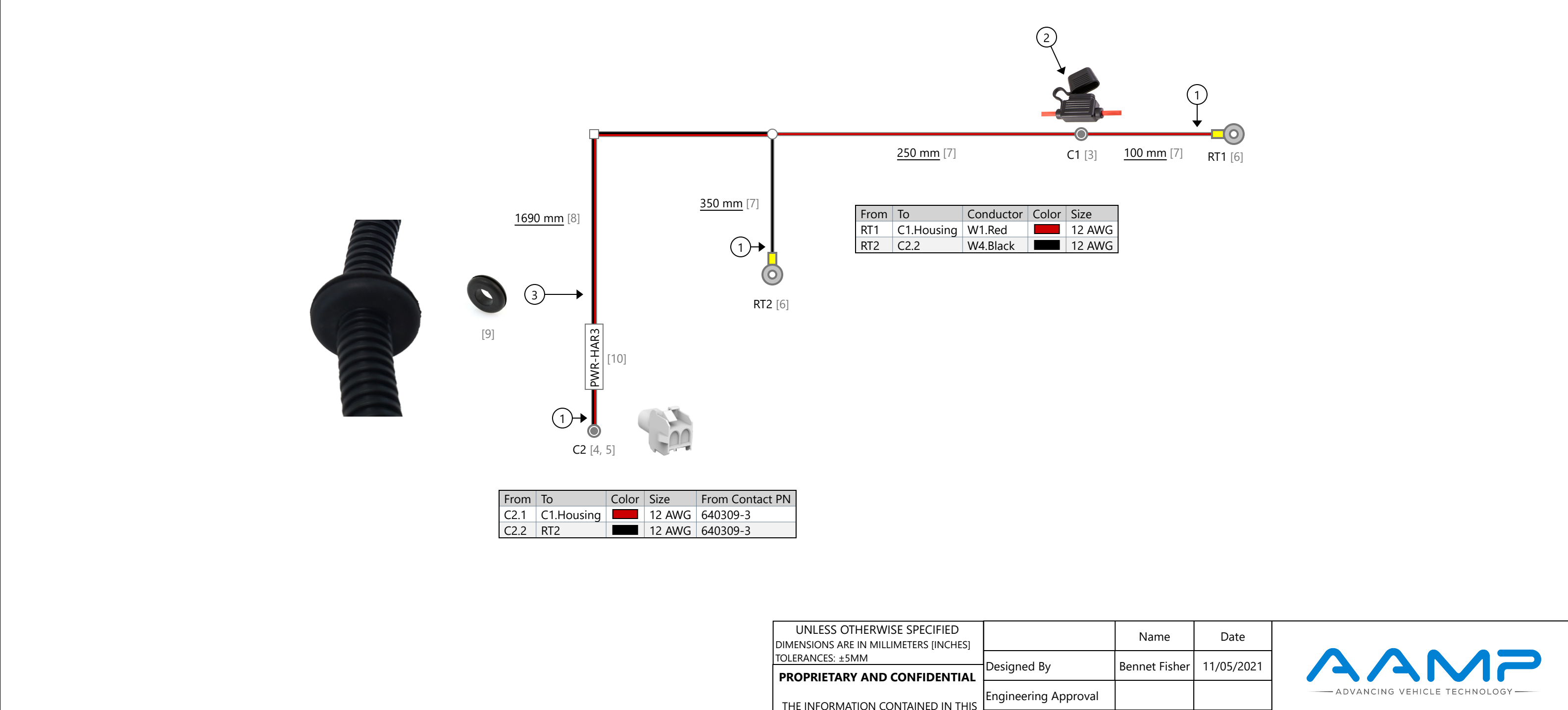
DESCRIPTION: POWER HARNESS EXTERIOR 3

WEIGHT (Lbs.): 0.2
SEGMENT CODE: ELE
PART NUMBER: 67094

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Wire		12 AWG Red GXL	2040 mm
2	Wire		12 AWG Black GXL	2040 mm
3	Fuse Holder	Egis Mobile Electric	901028	1
4	Connector	TE Connectivity	1-480699-0	1
5	Contact	TE Connectivity	640309-3	2
6	Ring Terminal	Molex	19164-0068	2
7	Corrugated Tubing		0.25" Nylon Split Wall	700 mm
8	Corrugated Tubing		10mm Nylon Split Wall	1690 mm
9	Grommet		14mm Grommet	1
10	Label		Heat Shrink Style Label	1

Coverings	
Id	Assembly
[7]	
[8]	

Notes	
①	Lock Tape Loom with Tesa 51036
②	Add 15A ATO/ATC Fuse
③	Add rubber grommet over harness loom; 150mm behind C2



Revisions			
Rev.	Date	Author	Description
	11/5/2021	Bennet Fisher	Initial Drawing
A	7/28/2022	Bennet Fisher	Changed fuse holder and fuse from ATM to ATO/ATC
B	2/2/2026	Bennet Fisher	Changed ring terminals from 5/16 to 3/8

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	Designed By	Bennet Fisher	11/05/2021		
	Engineering Approval				
	Manufacturing Approval			Part Number: PWR-HAR3	
	Revision Approval			Description:	
	Quality Assurance			Exterior Light Battery Harness	
				Revision: B	
				Sheet:	

PURCHASED COMPONENT KEY FEATURES	
DESCRIPTION OF REQUIREMENTS	
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)	N/A
LOAD/RATING REQUIREMENT	N/A
MATERIAL REQUIREMENT	N/A
PACKAGING REQUIREMENT	N/A
OTHER REQUIREMENTS	



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RELEASE & REVISIONS

<i>UNLESS OTHERWISE SPECIFIED</i>		
ALL BEND ANGLES ARE 90 DEGREES		
ALL DIMENSIONS ARE IN INCHES.		
REFERENCE DIMENSIONS (X.XXX)		
DO NOT REQUIRE INSPECTION		
FEATURES	HOLES/SLOTS	ANGLES
0.0 = $\pm$.125	0.0 = $\pm$.062	0° = $\pm$ 2°
0.00 = $\pm$.062	0.00 = $\pm$.031	0.0° = $\pm$ 1°
0.000 = $\pm$.031	0.000 = $\pm$.015	
Material Thickness: per ASTM Std.		
Weld Callouts per AWS		

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER

AAMP GLOBAL

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

SSW-HAR2 OR 67098

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

NO

Sheet 1 of 1

PART / PRODUCT IDENTIFICATION	
-------------------------------	--

 ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	REVISION LEVEL A
MAT'L USED:	PURCHASED	DESIGNED BY: E.BURKE	
DESCRIPTION: SWITCH HARNESS 2 EXTERIOR LIGHTING			
WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67098	

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS



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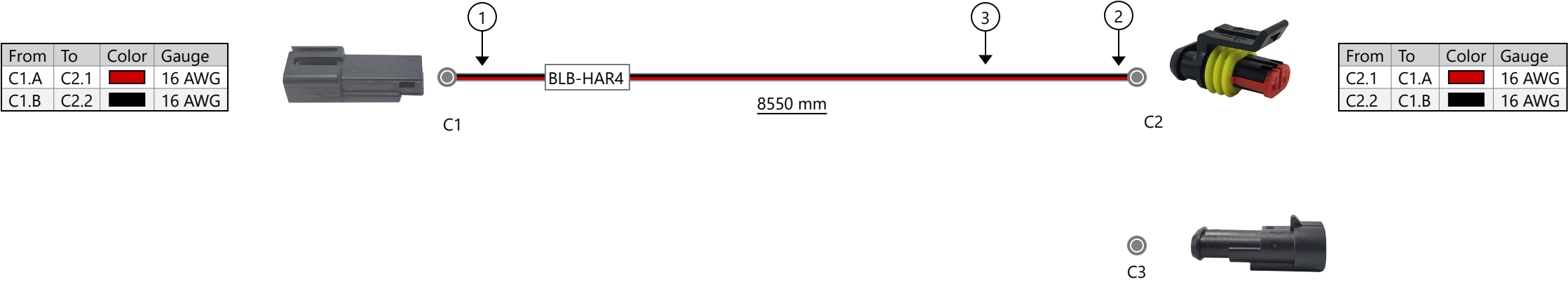
TOLERANCES & INSPECTION	RELEASE & REVISIONS
UNLESS OTHERWISE SPECIFIED	INITIAL ECN: 25378
ALL BEND ANGLES ARE 90 DEGREES	CURRENT ECN: 25378
ALL DIMENSIONS ARE IN INCHES.	ECN DESCRIPTION:
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION	RELEASE FOR PRODUCTION
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031	REVISED BY:
HOLES/SLOTS 0.0 = ± .062 0.00 = ± .031 0.000 = ± .015	
ANGLES 0° = ± 2° 0.0° = ± 1°	
Material Thickness: per ASTM Std. Weld Callouts per AWS	

PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
BLB-HAR4 OR 67114
COLOR (ONLY LIST IF COLOR SPECIFIC)
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

PRINTED DOCUMENT IS UNCONTROLLED			Sheet 1 of 1
PART / PRODUCT IDENTIFICATION			
MAT'L USED: PURCHASED		DESIGNED BY: E.BURKE	REVISION LEVEL A
DESCRIPTION: BEACON/LIGHTBAR HARNESS 4			
WEIGHT (Lbs.): 0.2	SEGMENT CODE: EBE	PART NUMBER: 67114	

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Cable		16AWG 2C FT2 TPU Cable	8550 mm
2	Cord Grip		PG11	1

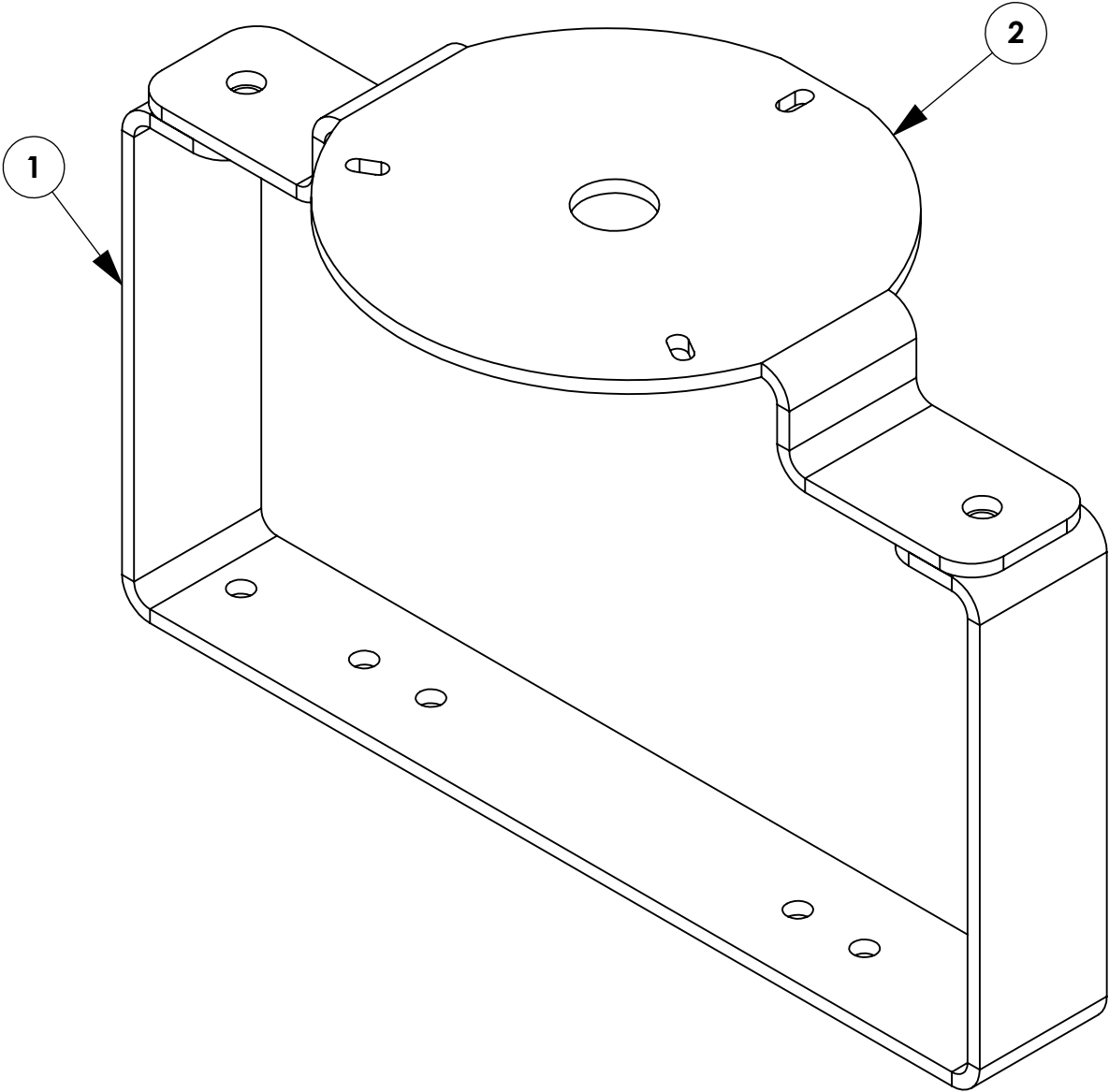
Notes	
①	Heat shrink cable jacket and wire 20mm behind connector (Heat shrink = 38mm long)
②	Place adhesive lined heat shrink over C2 connector wire cavities and cable jacket (Heat shrink = 38mm long)
③	Install Cable Gland/Cord Grip 300mm behind C2
④	Plug C3 into C2
⑤	C3 Cavities are sealed



Revisions			
Rev.	Date	Author	Description
	11/5/2021	Bennet Fisher	Initial Drawing
	3/21/2022	Bennet Fisher	Added 300mm to harness; changed female connector
A	4/26/2022	Bennet Fisher	Added adhesive lined heat shrink to C2

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	Designed By	Bennet Fisher	04/26/2022	
	Engineering Approval			
	Manufacturing Approval			
	Revision Approval			
	Quality Assurance			

INSTR. : 71838 NUMBER	PG: 1	REV: A	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
			1	71837-W	BEACON MOUNT, BOTTOM, WHITE	1
PART : 71834 NUMBER			2	71836-W	BEACON MOUNT, TOP, WHITE	1
PART : DESC. : BEACON MOUNT KIT						



- TOOLS NEEDED:**
- 1/2" WRENCH
 - 1/2" SOCKET
 - RATCHET
 - TAPE MEASURE

GET TO KNOW THE VEHICLE - AT THE BEGINNING OF ANY INSTALLATION, CHECK THE LOCATION OF THE FUEL TANK, FUEL LINES, BRAKE LINES, HIGH VOLTAGE BATTERIES AND WIRING HARNESSSES TO AVOID INJURY OR PROPERTY DAMAGE FROM TOOL CONTACT.

SEAL ALL EXTERIOR HOLES - ALL INSTALLATION HOLES SHOULD BE SEALED WITH BUTYL TAPE OR SILICON TO PREVENT WATER AND EXHAUST GASES FROM ENTERING THE VEHICLE.

CONTROL DRILL DEPTH - TO AVOID DAMAGE TO THE VEHICLE, USE A DRILL STOP OR CLEARED STEP BIT WHEN DRILLING INSTALLATION HOLES.

ALWAYS ADD PRIMER - WHEN ADDING INSTALLATION HOLES BE SURE TO USE A SELF-ETCHING PRIMER TO PREVENT CORROSION, FASTENER FAILURE AND INJURY.

MOUNTING POINTS MUST HAVE METAL-TO-METAL CONTACT - USE PROVIDED MOUNTING SPACERS TO ACCOMMODATE FOR VEHICLE FEATURES, CARPET OR SUBFLOORS.

PROVIDE CLEARANCE FOR SPACERS - IF THE INSTALLATION VEHICLE CONTAINS A CARPET OR SUBFLOOR, USE A 1-3/16" DIAMETER CARPET CUTTER (P/N: 31183-0) AT ALL MOUNTING LOCATIONS TO OPEN UP ROOM FOR SPACERS.

CHECK SPACER ORIENTATION - BE SURE THAT THE INDENT IN THE SPACER COVERS THE PLUSNUT HEAD; THIS ENSURES THE MOST METAL-TO-METAL CONTACT AND REDUCES VIBRATION.

PLUSNUT INSTALLATION - A PLUSNUT GUN IS RECOMMENDED FOR PLUSNUT INSTALLATION FOR ITS PRODUCTION SPEED. HOWEVER, A PLUSNUT SETTING TOOL CAN ALSO BE USED (P/N: 22200-0).

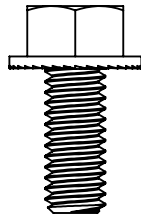
THRU-BOLT CLEARANCE - WHEN USING A THRU-BOLT AT ANY MOUNTING LOCATION, BE SURE THAT YOUR HOLE HAS 1/16" CLEARANCE.

PAGE:

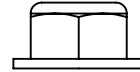
3

FASTENERS USED

BAG REFERENCE: BAG71834



FAS0438
BOLT 5/16-18
QTY: 2



FAS0440
NUT 5/16-18
QTY: 2

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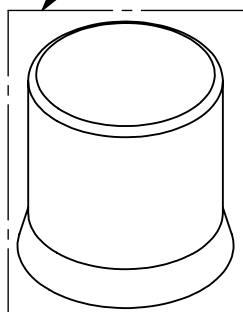
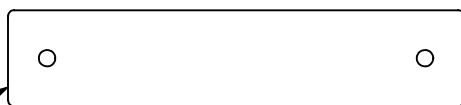
STEP 1 - BEACON MOUNT INSTALATION

PLATE 63497 FROM THE CONDUIT CARRIER KIT WILL NOT BE USED.

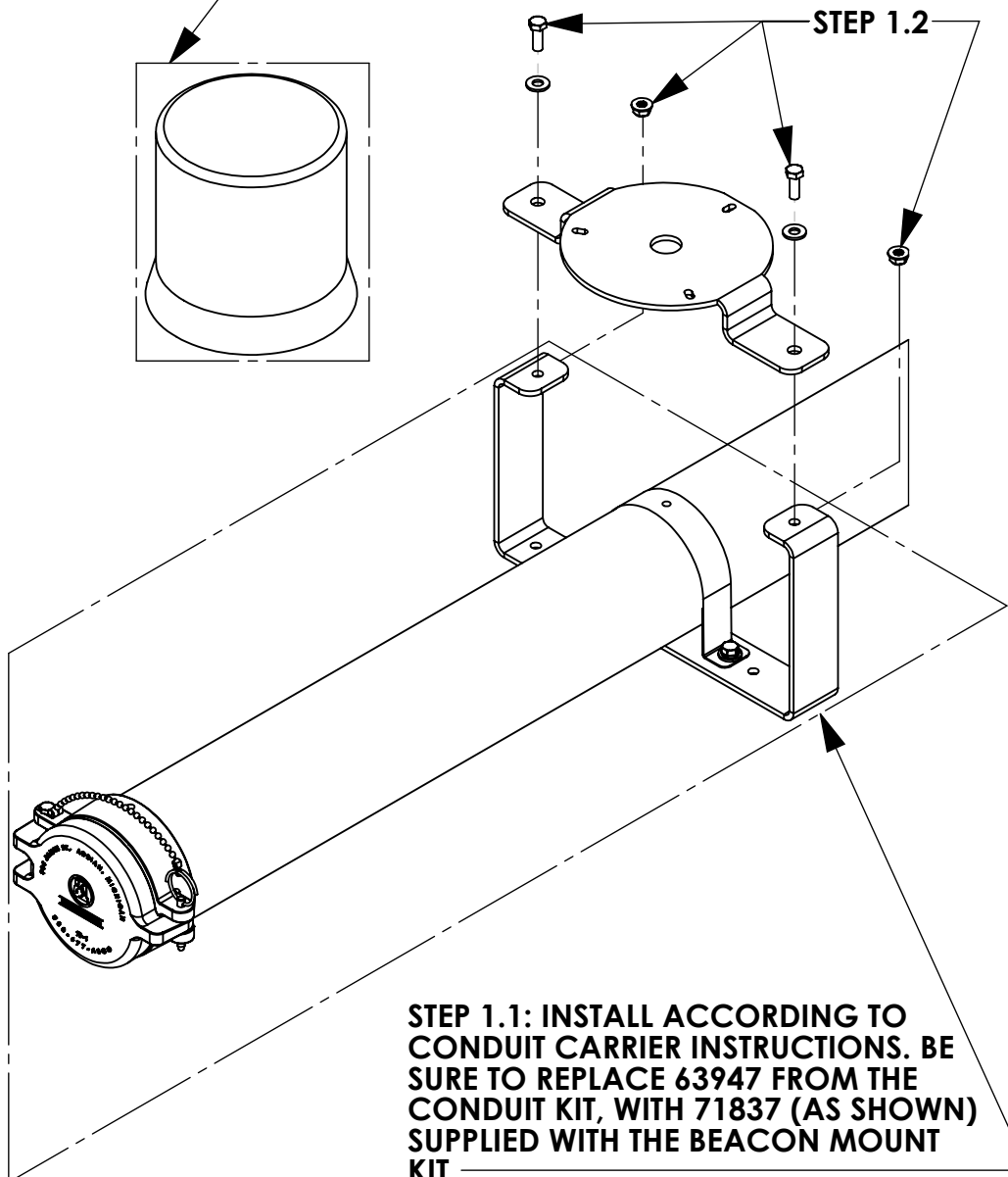
Step 1.1 FOLLOW THE INSTRUCTIONS SUPPLIED WITH THE CONDUIT CARRIER. REPLACE 63947 WITH 71837. ONLY IN THE LOCATION OF THE BEACON.

Step 1.2 INSTALL BEACON MOUNT TOP TO BEACON MOUNT BOTTOM AND FULLY TIGHTEN FAS0438 AND FAS0440 (2 PLACES) 1/2 WRENCH 1/2 SOCKET

Step 1.3 FOLLOW THE INSTRUCTIONS SUPPLIED WITH THE BEACON. INSTALL BEACON ON TO 71836 (BEACON MOUNT TOP)



STEP 1.3: INSTALL ON TO 71836 (BEACON MOUNT, TOP) ACCORDING TO THE BEACON INSTRUCTIONS.



STEP 1.1: INSTALL ACCORDING TO CONDUIT CARRIER INSTRUCTIONS. BE SURE TO REPLACE 63947 FROM THE CONDUIT KIT, WITH 71837 (AS SHOWN) SUPPLIED WITH THE BEACON MOUNT KIT.

VEHICLE REAR