

Introduction / Comments:

Install Instructions For Exterior Plug & Play Lights For RAM Truck

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 RAM Truck

Table of Contents:

Torque requirements.....	2
Introduction Statement.....	3
Overall Harness Diagram.....	3
Tools needed.....	3
Harnesses/Components Needed (If Applicable).....	4
Component Placements.....	5
Overall Harness Routing.....	6
Beginning Install.....	7
Strobe Installation Instructions.....	7

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

DO NOT MOUNT ON A
CURVED SURFACE

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

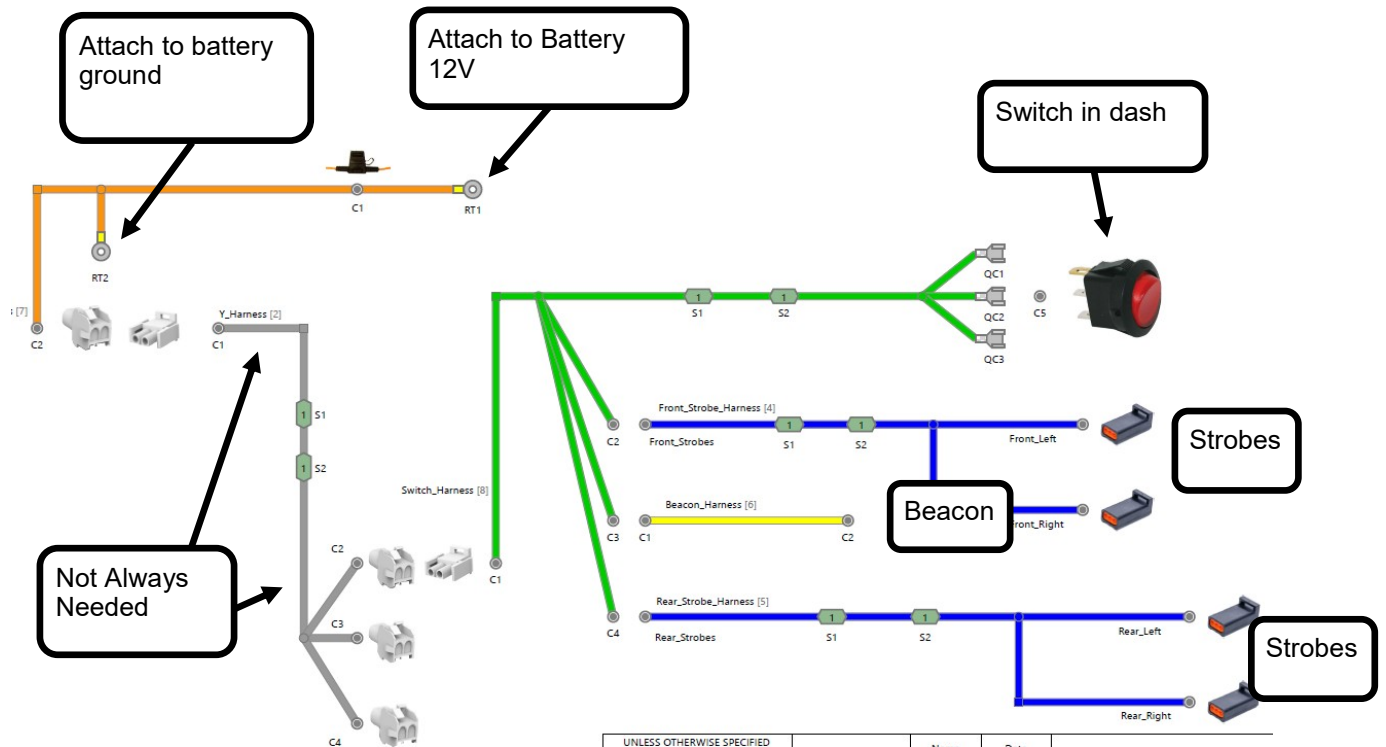
Before installation, disconnect the OEM negative battery cable.

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



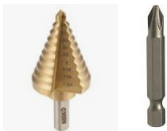
Tools required:

10mm socket

Phillips bit and 5/16" step drill bit

Power drill and impact

Torque wrench



Components



	Part Number	Description
1	67095	Power Harness #4
2	67097	Switch Harness #1
3	67102	Front Strobe Harness #2 (If Applicable)
4	67107	Rear Strobe Harness #2 (If Applicable)
5	67113	Beacon/Lightbar Harness #3 (If Applicable)
6	67686 or 67687	Strobes (If Applicable)
7	67689 or 67690	Beacons (If Applicable)
8	52769 or 56075	Beacon/Lightbar Mount (If Applicable)
9	67691 or 67692 or 96118 or 67693	Lightbars (If Applicable)



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: Dash panel
right of park brake.



Front Strobes: Grill

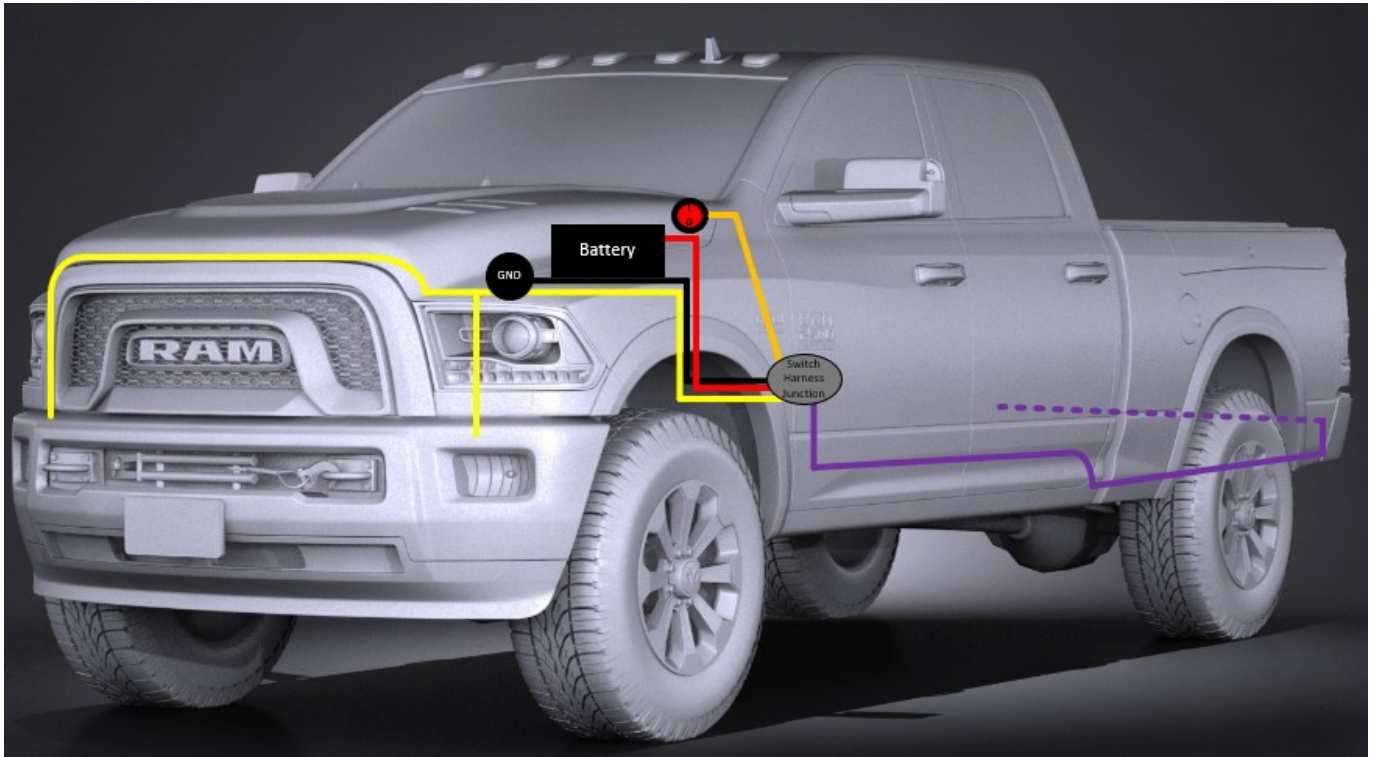


*****TORQUE STROBES TO 10-IN-LB'S
MAXIMUM*****

Rear Strobes: Rear Bumper



Routing Overview



Color	Key - Items
Yellow	Strobes - Front strobe harness #2
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 #2

Power harness

Switch Harness



Step 4:

Locate the switch harness #67097

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

Remove the knee bolster trim.

Route the switch end of the switch harness up the dash and through the opening.

Secure to the OEM harnesses behind the IP.



Figure 9.1

Step 5:

Drill a hole for the switch, in the trim panel like shown below.

The hole will be 2" inches up from the bottom of the trim panel and 1.5" from the right edge.

Route the harnesses through the hole.

Step 6:

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.



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 11.1



Step 1:

Locate the rear strobe harness #67107.

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

Step 2:

Locate the driver's side door sill area.

Use a trim tool to remove the trim panels in the driver's step well and dash/kick panel.

Continue routing to the rear door sill trim.





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

Lift the rear carpet and locate the OEM grommet.

From below the vehicle, use a knife to cut an 'X' into the grommet.

Route the harness under the carpet and through the grommet.

Follow the frame to the rear of the vehicle.

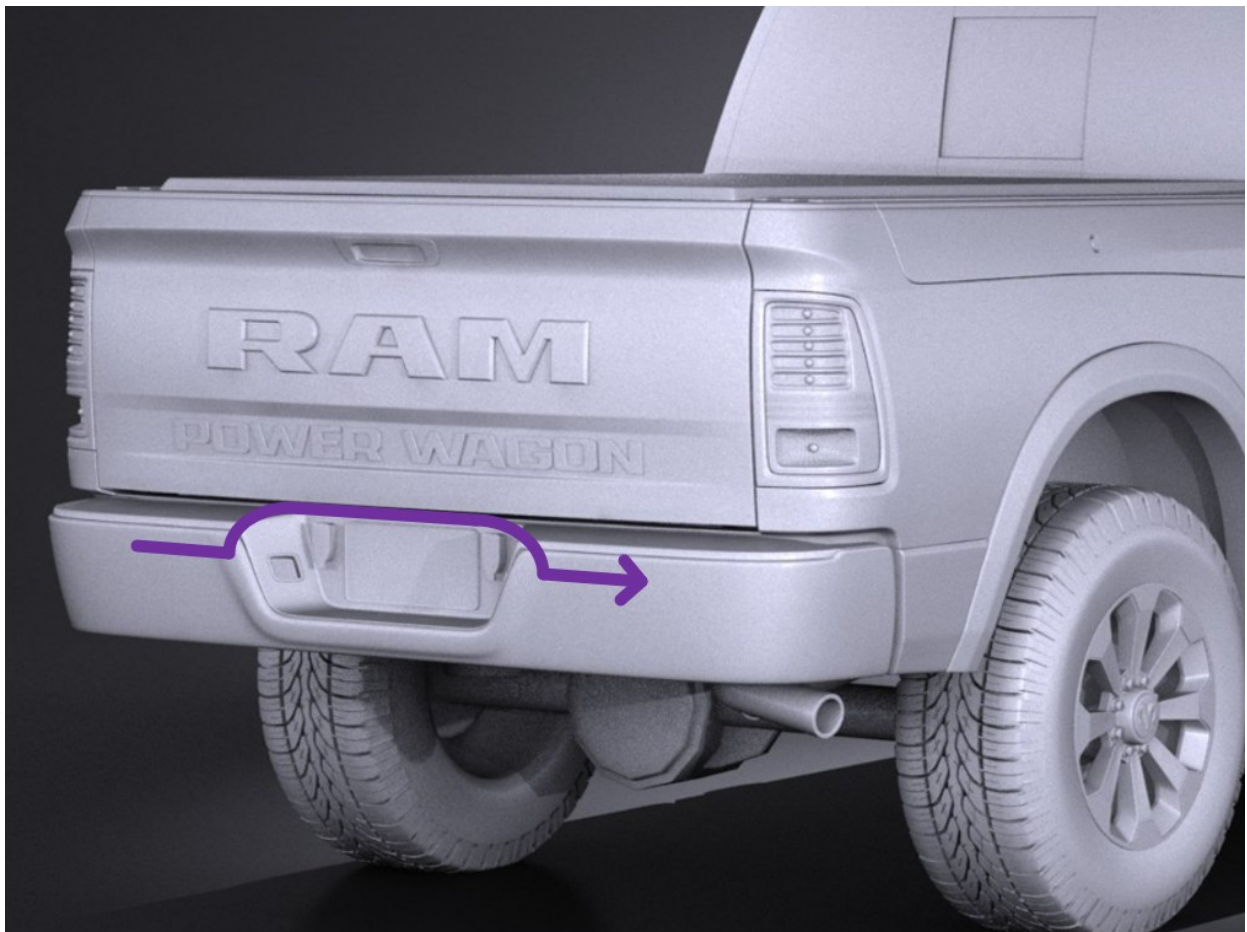




Step 4: Mounting Rear Strobes

From the trim split, measure 1.5" inward and 2" down. Mark and drill the hole for the cable passthrough.

Repeat for the passenger side.



Step 5: Routing (Refer to routing diagrams at the beginning of the instructions)

Using the front strobe harness, connect to the switch harness and pass through the firewall.

Remove the plastic cover from the front. Route the harness along the outside edge towards the front of the vehicle. Drop the shorter leg down and continue to the passenger side. Route the harness below the cover.



Step 6: Mounting Front Strobes

Locate the split in the headlight, this will be the horizontal indicator of where to place the strobes.

The bottom edge of the strobe will be flush with the bottom of the plastic panel.





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.

PART NUMBER

13905-0**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)

THIS DRAWING/INFORMATION IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER THAT IS DETRIMENTAL TO THE INTEREST OF ADRIAN STEEL. COPYRIGHTS AND OR PATENTS THAT MAY BE THE PROPERTY OF APPLICABLE OWNERS MAY PROTECT INFORMATION AND/OR DRAWINGS OF SUPPLIED PRODUCTS.



ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

906 JAMES STREET
ADRIAN, MI 49221
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!

PURCHASED PRODUCT DATA SHEET (PPDS)

THIS DRAWING/INFORMATION IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER THAT IS DETRIMENTAL TO THE INTEREST OF ADRIAN STEEL. COPYRIGHTS AND OR PATENTS THAT MAY BE THE PROPERTY OF APPLICABLE OWNERS MAY PROTECT INFORMATION AND/OR DRAWINGS OF SUPPLIED PRODUCTS.



ADRIAN STEEL
 VAN AND PICKUP EQUIPMENT

**906 JAMES STREET
 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
 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!

PURCHASED PRODUCT DATA SHEET (PPDS)

THIS DRAWING/INFORMATION IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER THAT IS DETRIMENTAL TO THE INTEREST OF ADRIAN STEEL. COPYRIGHTS AND OR PATENTS THAT MAY BE THE PROPERTY OF APPLICABLE OWNERS MAY PROTECT INFORMATION AND/OR DRAWINGS OF SUPPLIED PRODUCTS.



ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

906 JAMES STREET
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
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

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!

PURCHASED PRODUCT DATA SHEET (PPDS)

THIS DRAWING/INFORMATION IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER THAT IS DETRIMENTAL TO THE INTEREST OF ADRIAN STEEL. COPYRIGHTS AND OR PATENTS THAT MAY BE THE PROPERTY OF APPLICABLE OWNERS MAY PROTECT INFORMATION AND/OR DRAWINGS OF SUPPLIED PRODUCTS.



ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

906 JAMES STREET
ADRIAN, MI 49221
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
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

PART NUMBER

36096-0**ITEM DESCRIPTION: GROMMET,RUBBER,1" ID**

MANUFACTURER: CTW (or equiv.)
MANUFACTURERS PART NUMBER: G2930

SPECIFICATIONS: 1" I.D.
1-1/4" PANEL HOLE DIA.
3/16" MAX PANEL THICKNESS
1-1/2" O.D.
7/16" THICKNESS

SPECIAL NOTES: NONE

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

THIS DRAWING/INFORMATION IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER THAT IS DETRIMENTAL TO THE INTEREST OF ADRIAN STEEL. COPYRIGHTS AND OR PATENTS THAT MAY BE THE PROPERTY OF APPLICABLE OWNERS MAY PROTECT INFORMATION AND/OR DRAWINGS OF SUPPLIED PRODUCTS.



ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

906 JAMES STREET
ADRIAN, MI 49221
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
HJE

DATE DRAWN
04/01/2008

ECN NUMBER
19252

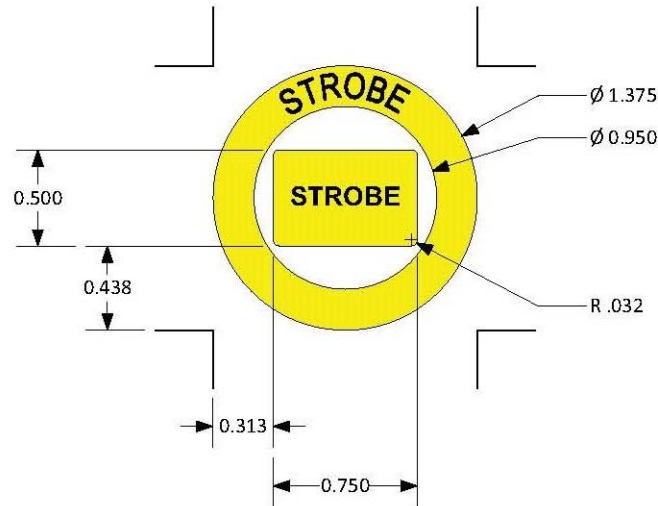
ECN DATE
01/31/2017

PART WEIGHT
0.01 LBS.

REV. LEVEL
D

PART NUMBER
36096-0

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

THIS DRAWING/INFORMATION IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER THAT IS DETRIMENTAL TO THE INTEREST OF ADRIAN STEEL. COPYRIGHTS AND OR PATENTS THAT MAY BE THE PROPERTY OF APPLICABLE OWNERS MAY PROTECT INFORMATION AND/OR DRAWINGS OF SUPPLIED PRODUCTS.



906 JAMES STREET
 ADRIAN, MI 49221
 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
 RJB

DATE DRAWN
 11/15/2017

ECN NUMBER
 XXXX

ECN DATE
 XXXXXX

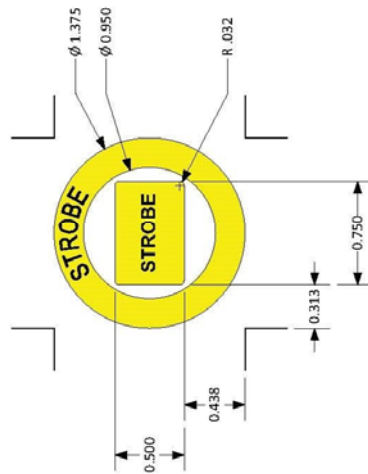
PART WEIGHT
 0.02 LBS.

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	CHKDATE XXX XXXXXX	DRAWING/ PART NO.	D01XXXX
DRNDATE MEO 11/14/17	REV A	SHEET 1 OF 1	REV A
SCALE:	NONE	REA/ECO NO.:	XXXX
THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF VANNER INC. AND MAY NOT BE COPIED, REPRODUCED OR DIVULGED TO UNAUTHORIZED PERSONS WITHOUT THE EXPRESS WRITTEN CONSENT OF VANNER INC. IT IS PROVIDED SOLELY FOR THE CONVENIENCE OF THE USER AND SHALL BE RETURNED UPON REQUEST.			

Page 2 of 1

THIS DRAWING/INFORMATION IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER THAT IS DETRIMENTAL TO THE INTEREST OF ADRIAN STEEL. COPYRIGHTS AND OR PATENTS THAT MAY BE THE PROPERTY OF APPLICABLE OWNERS MAY PROTECT INFORMATION AND/OR DRAWINGS OF SUPPLIED PRODUCTS.



906 JAMES STREET
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
XXXXXXX

PART WEIGHT
0.02 LBS.

REV. LEVEL
A

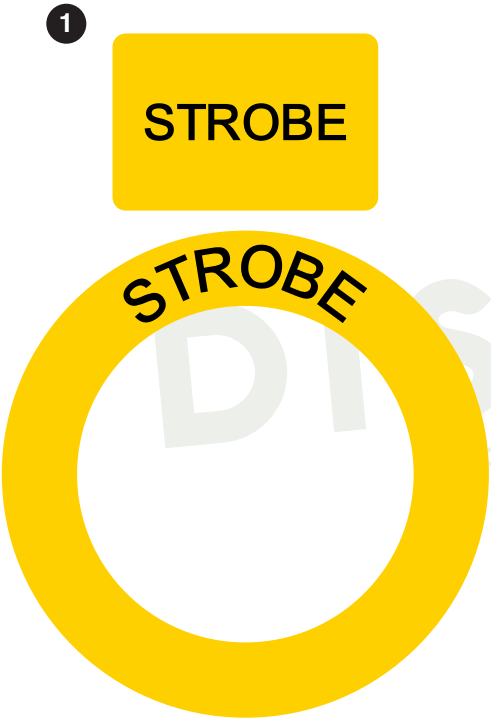
PART NUMBER
55073

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
© 2022 DISTYLL Graphics Solutions. All rights reserved.

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.

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: This is also from HellermannTyton: Their Part Number is 156-00592



THIS DRAWING IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER
DETRIMENTAL TO THE INTERESTS OF ADRIAN STEEL COMPANY

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	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS

INITIAL ECN:	22671
CURRENT ECN:	22671
ECN DESCRIPTION:	
RELEASE TO PRODUCTION	
REVISED BY: EMS	

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
Fastenal
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
0787863
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

AS ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	REVISION LEVEL A
MAT'L USED:		DESIGNED BY: EMS	
DESCRIPTION: Clip, Black UV Tie, HellermannTyton			
WEIGHT (Lbs.): 0.5	SEGMENT CODE: ELE	PART NUMBER: 59713	

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



PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

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	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
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

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	



THIS DRAWING IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF ADRIAN STEEL COMPANY		PRINTED DOCUMENT IS UNCONTROLLED		Sheet 1 of 1	
TOLERANCES & INSPECTION		PART / PRODUCT IDENTIFICATION			
UNLESS OTHERWISE SPECIFIED		AS ADRIAN STEEL® ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221			REVISION LEVEL A
ALL BEND ANGLES ARE 90 DEGREES					
ALL DIMENSIONS ARE IN INCHES.		DESIGNED BY: E.BURKE			
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		DESCRIPTION: POWER HARNESS EXTERIOR 4			
FEATURES		MAT'L USED: PURCHASED	WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67095
HOLES/SLOTS					
ANGLES					
0.0 = ± .125					
0.00 = ± .062					
0.000 = ± .031					
0.0 = ± .062					
0.00 = ± .031					
0.000 = ± .015					
Material Thickness: per ASTM Std. Weld Callouts per AWS					
RELEASE & REVISIONS		PURCHASED COMPONENT			
INITIAL ECN: 25378		REFERENCED SUPPLIER AND/OR MANUFACTURER AAMP GLOBAL			
CURRENT ECN: 25378		REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER 67095 OR PWR-HAR4			
ECN DESCRIPTION: RELEASE FOR PRODUCTION		COLOR (ONLY LIST IF COLOR SPECIFIC) NO			
REVISED BY:		COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)			

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	



THIS DRAWING IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF ADRIAN STEEL COMPANY		PRINTED DOCUMENT IS UNCONTROLLED		Sheet 1 of 1	
TOLERANCES & INSPECTION		PART / PRODUCT IDENTIFICATION			
UNLESS OTHERWISE SPECIFIED		AS ADRIAN STEEL® ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221			REVISION LEVEL A
ALL BEND ANGLES ARE 90 DEGREES					
ALL DIMENSIONS ARE IN INCHES.		DESIGNED BY: E.BURKE			
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		DESCRIPTION: SWITCH HARNESS 1 EXTERIOR LIGHTING			
FEATURES		MAT'L USED: PURCHASED	WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67097
HOLES/SLOTS					
ANGLES					
0.0 = ± .125					
0.00 = ± .062					
0.000 = ± .031					
0.0 = ± .062					
0.00 = ± .031					
0.0° = ± 2°					
0.0° = ± 1°					
Material Thickness: per ASTM Std. Weld Callouts per AWS					
RELEASE & REVISIONS		PURCHASED COMPONENT			
INITIAL ECN: 25378		REFERENCED SUPPLIER AND/OR MANUFACTURER AAMP GLOBAL			
CURRENT ECN: 25378		REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER SSW-HAR1 OR 67097			
ECN DESCRIPTION: RELEASE FOR PRODUCTION		COLOR (ONLY LIST IF COLOR SPECIFIC) NO			
REVISED BY:		COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)			

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



THIS DRAWING IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER
DETRIMENTAL TO THE INTERESTS OF ADRIAN STEEL COMPANY

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	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS

INITIAL ECN: 25378
CURRENT ECN: 26321
ECN DESCRIPTION:
RELEASE FOR PRODUCTION
REVISED BY:

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
BLB-HAR1 OR 67111
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

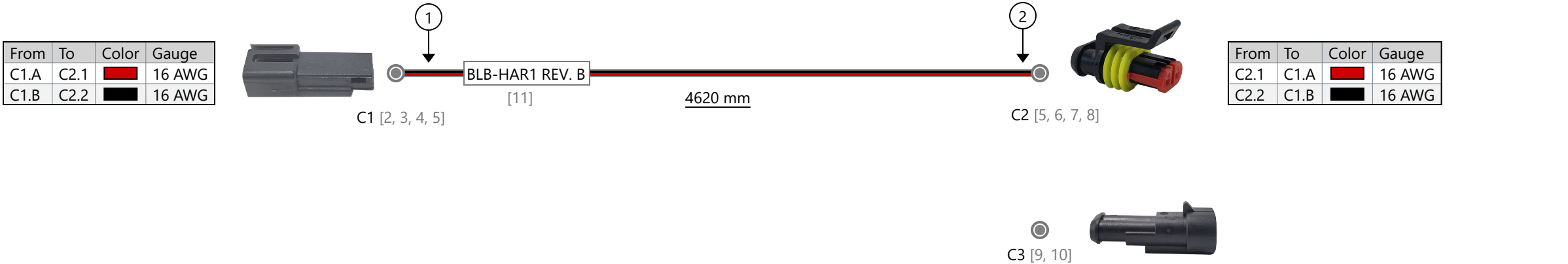
PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

PART / PRODUCT IDENTIFICATION		
 ADRIAN STEEL®	ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	
	REVISION LEVEL B	
MAT'L USED:	PURCHASED	DESIGNED BY: E.BURKE
DESCRIPTION:	BEACON/LIGHTBAR HARNESS 1	
WEIGHT (Lbs.):	0.2	SEGMENT CODE: EBE
		PART NUMBER: 67111

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Cable		16AWG 2C FT2 TPU Cable	4620 mm
2	Connector	Aptiv	12047663	1
3	Contact	Aptiv	12047581	2
4	Lock	Aptiv	12047665	1
5	Heat Shrink		Adhesive-Lined Heat Shrink	2
6	Connector	TE Connectivity	282080-1	1
7	Contact	TE Connectivity	282110-1	2
8	Wire Seal	TE Connectivity	281934-2	2
9	Connector	TE Connectivity	282104-1	1
10	Wire Seal	TE Connectivity	282081-1	2
11	Label		Heat Shrink Style Label	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	Plug C3 into C2
④	C3 Cavities are sealed

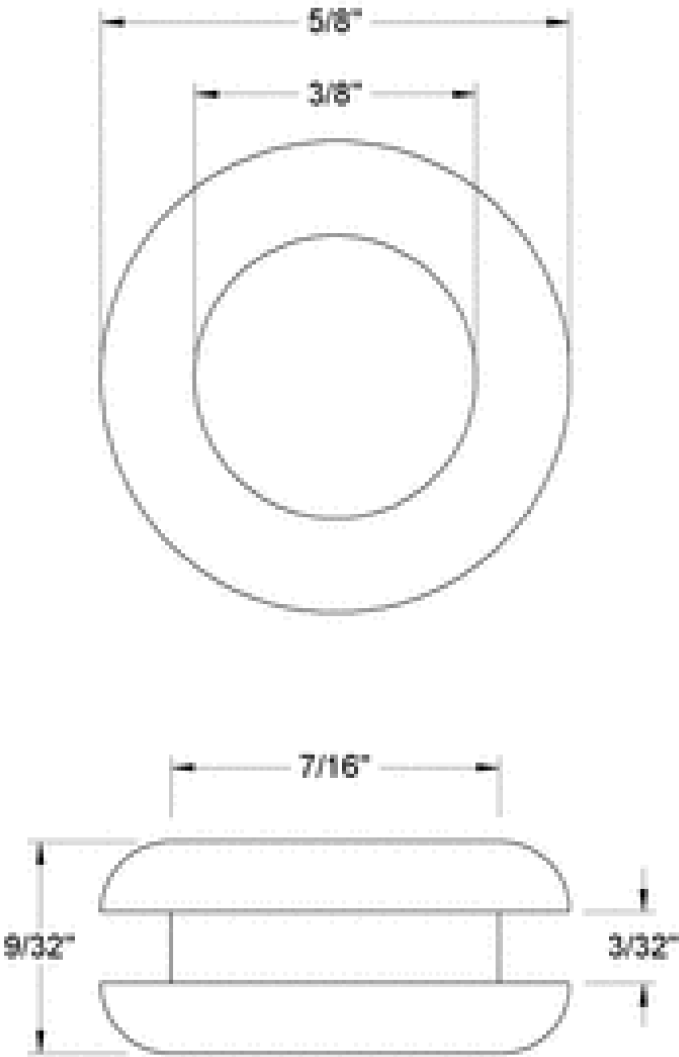


Revisions			
Rev.	Date	Author	Description
	11/5/2021	Bennet Fisher	Initial Drawing
	3/21/2022	Bennet Fisher	Added 300mm to harness; changed female connector
A	4/26/2022	Bennet Fisher	Added adhesive lined heat shrink to C2
B	4/3/2023	Bennet Fisher	Removed cable gland from harness

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	 — ADVANCING VEHICLE TECHNOLOGY — Part Number: BLB-HAR1 REV. B_Revision: B Description:Sheet: Beacon/Light Bar Harness - 4.62 Meters1
	Designed By	Bennet Fisher	04/26/2022	
	Engineering Approval			
	Manufacturing Approval			
	Revision Approval			
	Quality Assurance			

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
RUBBER GROMMET: MCMASTER-CARR 9600K33 INNER DIAMATER: 3/8" PANEL HOLE DIAMETER: 7/16" PANEL THICKNESS: 3/32"



THIS DRAWING IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER
DETRIMENTAL TO THE INTERESTS OF ADRIAN STEEL COMPANY

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	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS

INITIAL ECN: 26411
CURRENT ECN: 26411
ECN DESCRIPTION:
RELEASE TO PRODUCTION
REVISED BY: N/A

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
MCMASTR-CARR
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
9600K33
COLOR (ONLY LIST IF COLOR SPECIFIC)
BLACK/RUBBER
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

		ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		REVISION LEVEL A
MAT'L USED: PURCHASED				DESIGNED BY: EMB		
DESCRIPTION: GROMMET,3/8"ID 7/16"OD						
WEIGHT (Lbs.): 0.01		SEGMENT CODE: EBE			PART NUMBER: 70805	