

Introduction / Comments:

Install Instructions For Exterior Plug & Play Lights For Ford Maverick

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 Ford Maverick

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*****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****

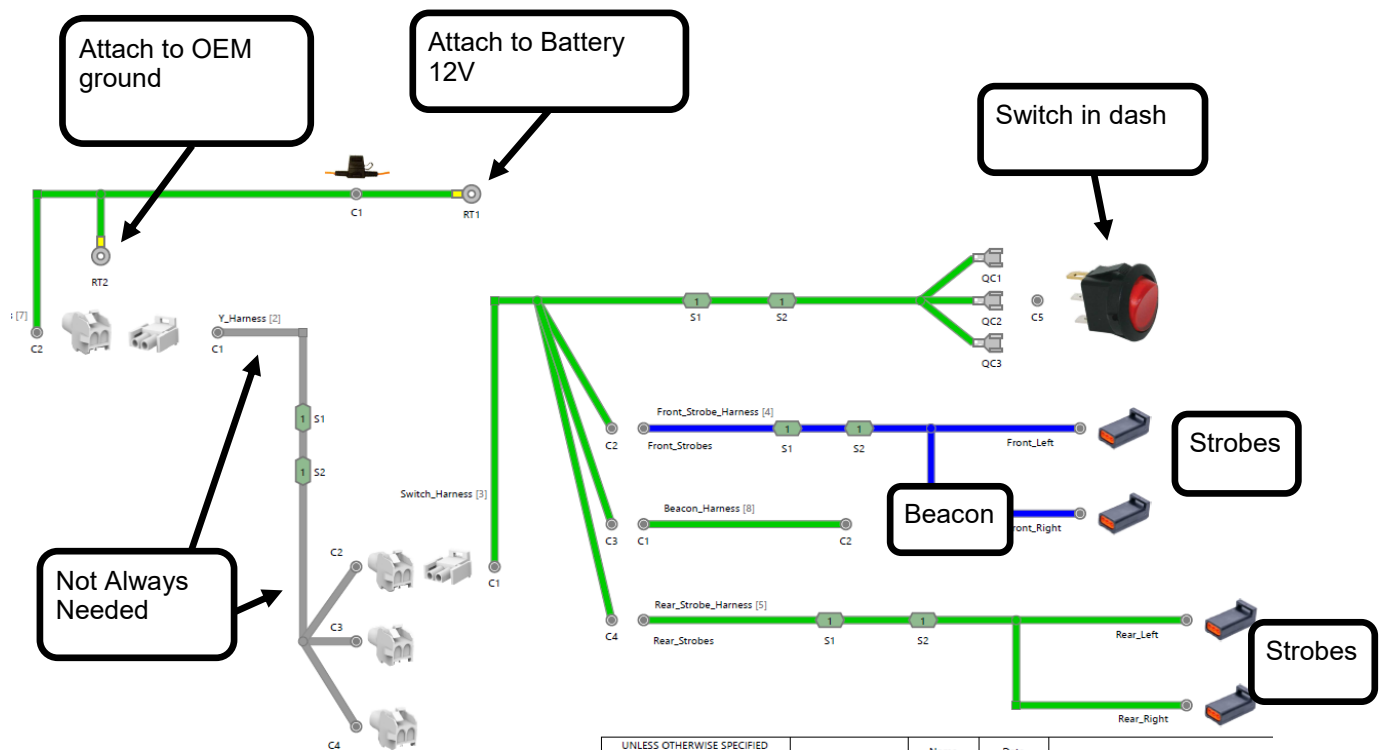
Before installation, disconnect the OEM negative battery cable.

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



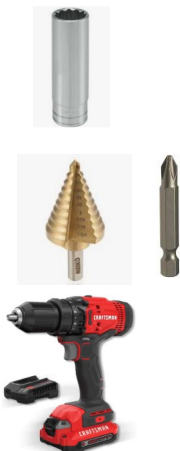
Tools required:

13 socket and 20 torx bit

Phillips bit and 5/16" step drill bit

Power drill and impact

Torque wrench



Components



	Part Number	Description
1	67092	Power Harness #1
2	67097	Switch Harness #1
3	67102	Front Strobe Harness #2 (If Applicable)
4	67106	Rear Strobe Harness #1 (If Applicable)
5	67111	Beacon/Lightbar Harness #1 (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
under headlight buttons

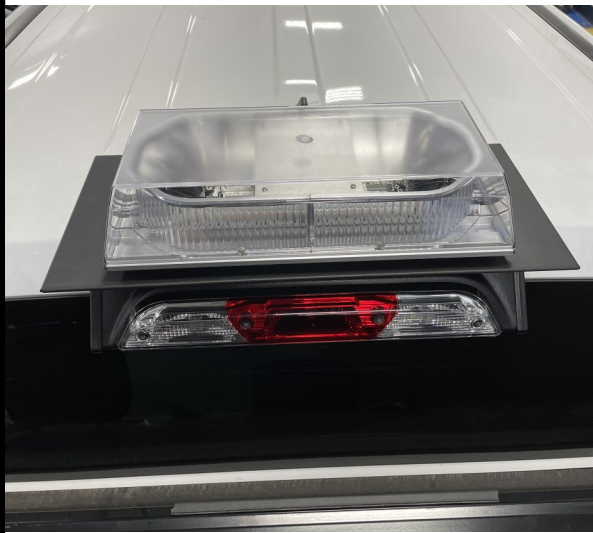


Front Strobes: Grill



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

Beacon or Lightbar: On CHMSL
above 3rd brake light—on some
sort of mount



Rear Strobes: Rear Bumper



Alternate Placement

Use when an OEM brack controller is present

Brake control in the way



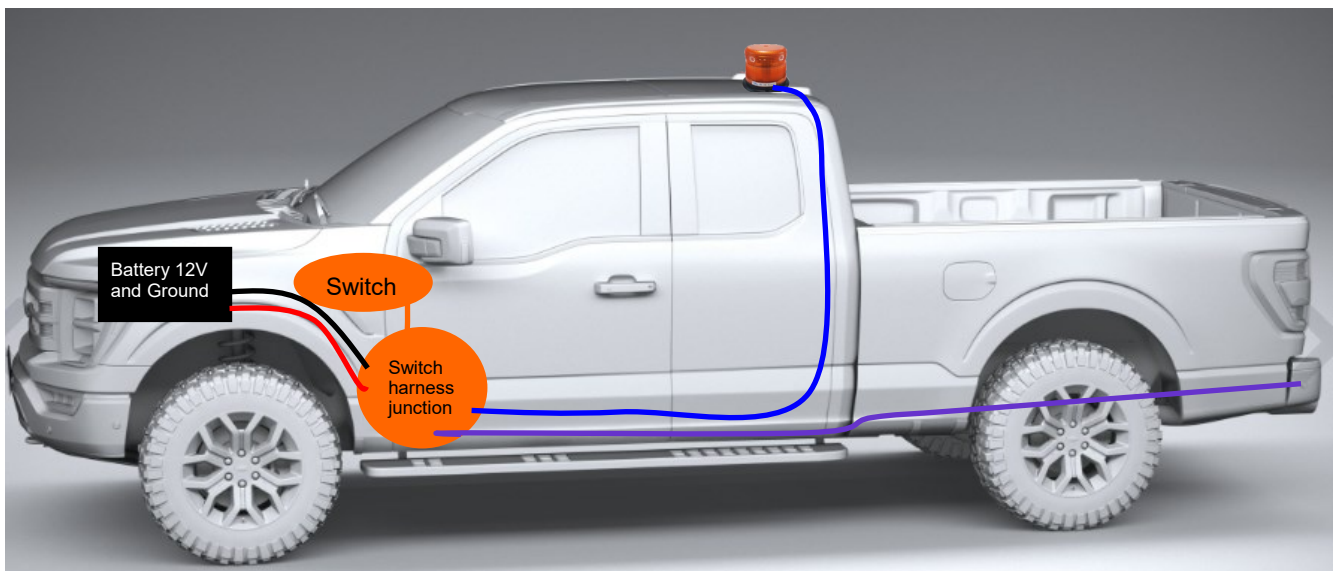
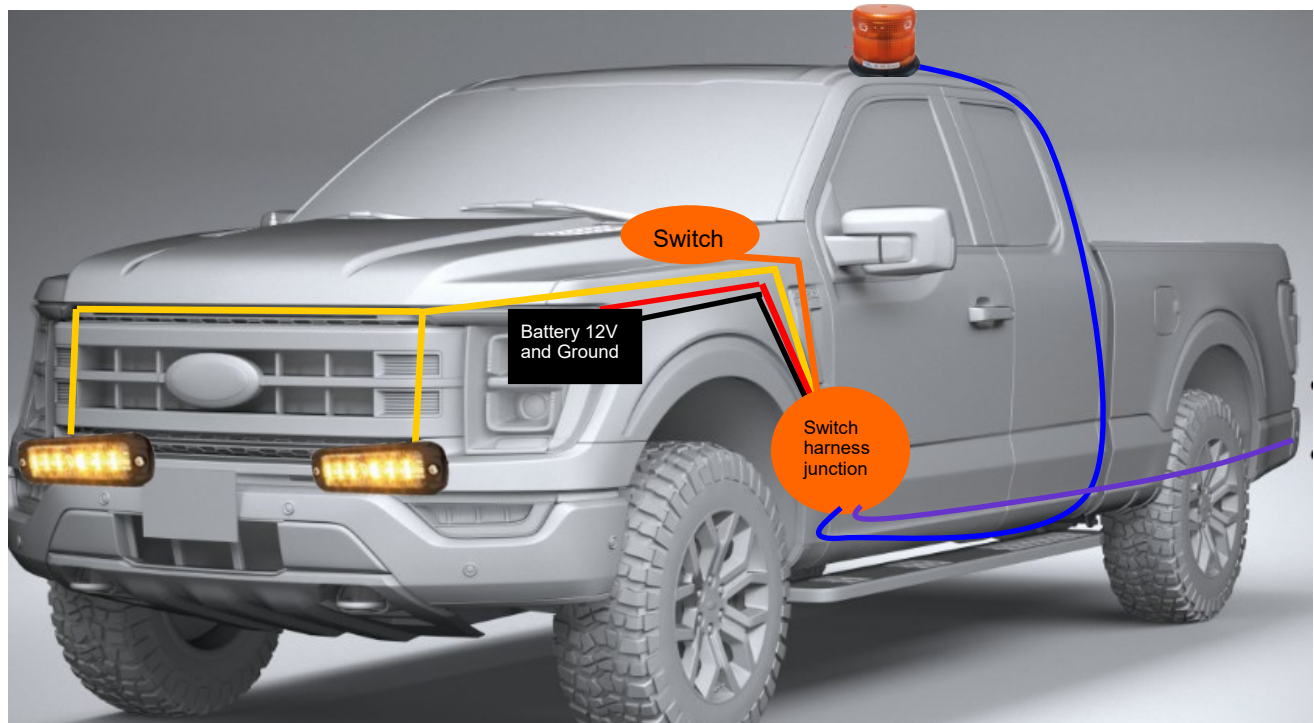
Brake controller under panel



New Switch Location and installed



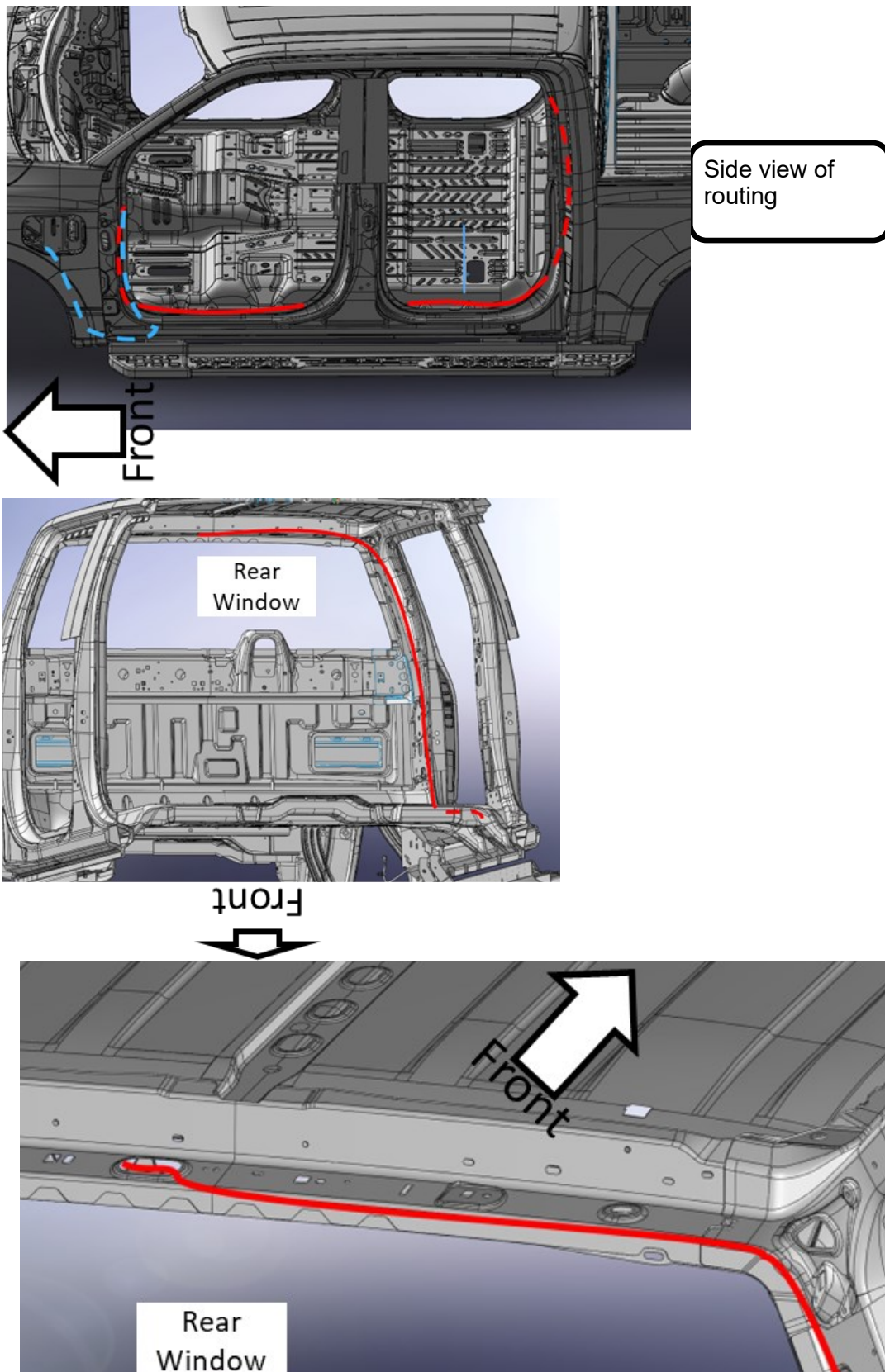
Routing Overview



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 #1



Overview of Routing-Beacon/Lightbar Wire Harness:





Step 1:

Locate the power harness #67092.

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



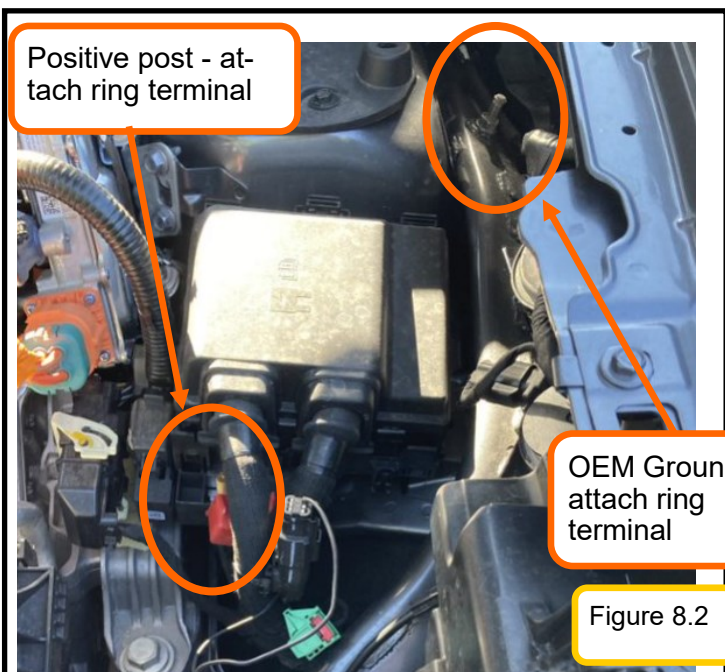
**FOR ICE Vehicles (Engine):
Figure 8.1.**

Locate the OEM battery under the hood.

Step 2:

Attach the red wire with the ring terminal to the battery positive post.

Attach the black wire with the ring terminal to the OEM ground located to the right of the battery.
Figure 8.1.



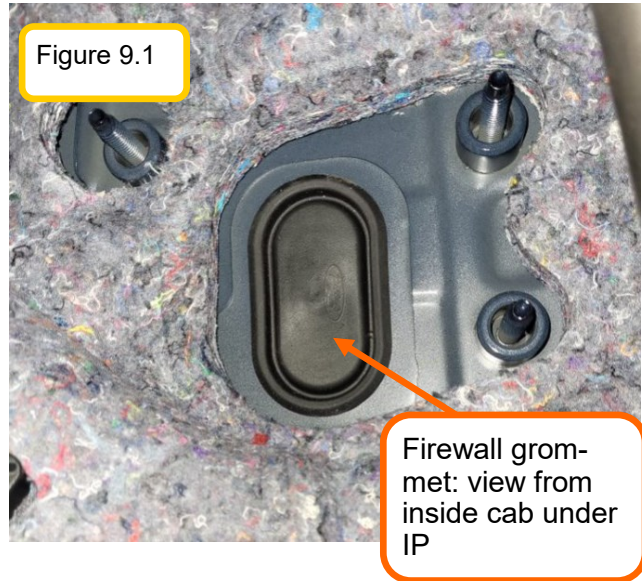
**FOR HYBRID Vehicles:
Figure 8.2.**

Locate the positive stud with the red cap, located on the driver's side of the vehicle engine compartment.

Step 2:

Attach the red wire with the ring terminal to the battery positive post.

Attach the black wire with the ring terminal to the OEM ground located to the right of the compartment.
Figure 8.2.



Step3:

Route the white connector end to the OEM grommet in the engine compartment, located on the driver's side firewall of the engine compartment. Secure wiring with zip ties. (You can see the grommet best from looking under the IP by the drivers seat area.) Figure 9.1.

****IF INSTALLING FRONT STROBES ON THIS INSTALL: LOCATE THE FRONT STROBE HARNESS #67102. ROUTE THE SINGLE CONNECTOR END THROUGH THE GROMMET WITH THE POWER HARNESS AT THIS TIME**** Figure 9.2.

Reference page 13 for routing.

Cut and X into the OEM grommet and rout the wire through, to the drivers foot well.

Silicone the wiring and grommet hole.

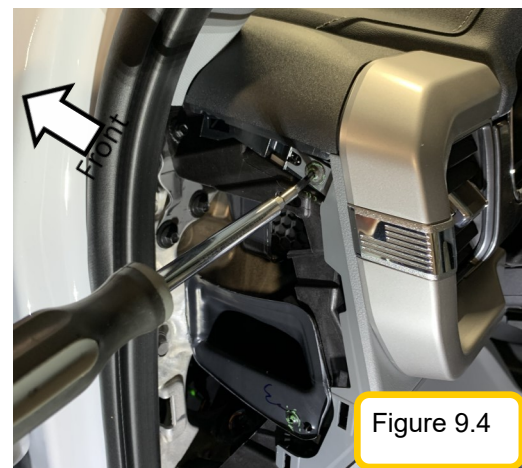
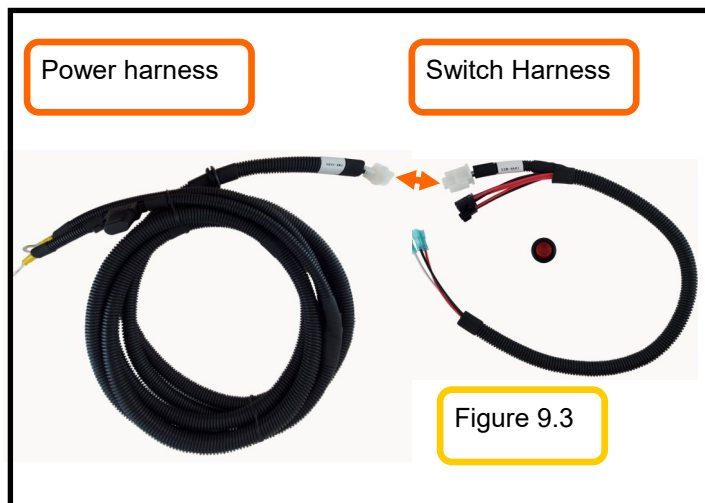
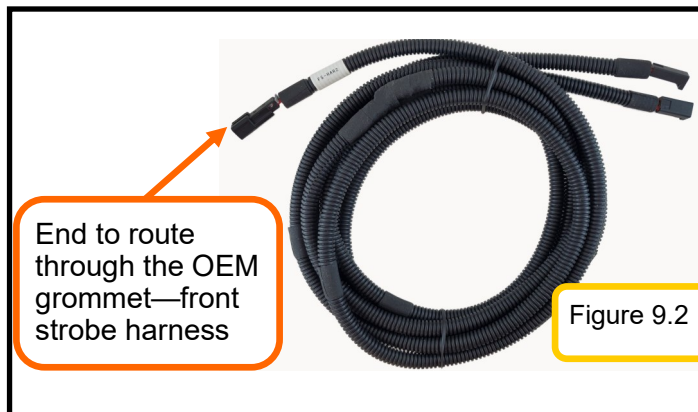
Secure wiring with zip ties.

Step 4:

Locate the switch harness #67097

Connect the switch harness connector to the power harness in the kick panel area. Figure 9.3.

Disassemble the IP trim to gain access behind the dash. Figure 9.4.



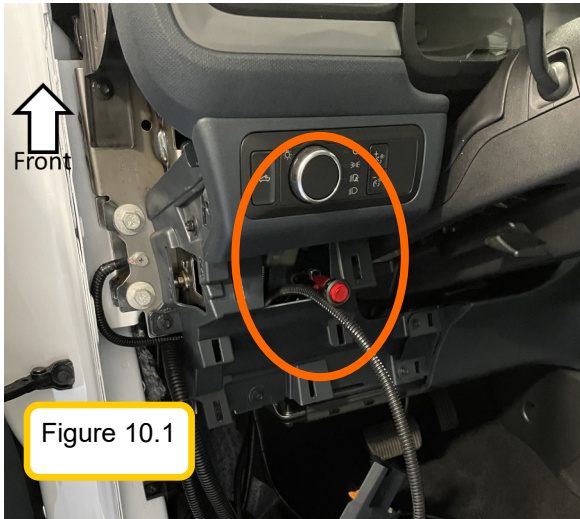


Figure 10.1

Route the switch end of the switch harness up the dash and through the opening in the IP.
Figure 10.1.

Secure to the OEM harnesses behind the IP.

Step 5:

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

Drill a hole for the switch in the dash panel using the dimension shown below (2" down and 2.5" from the left
Figure 10.2 and 10.3.

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.

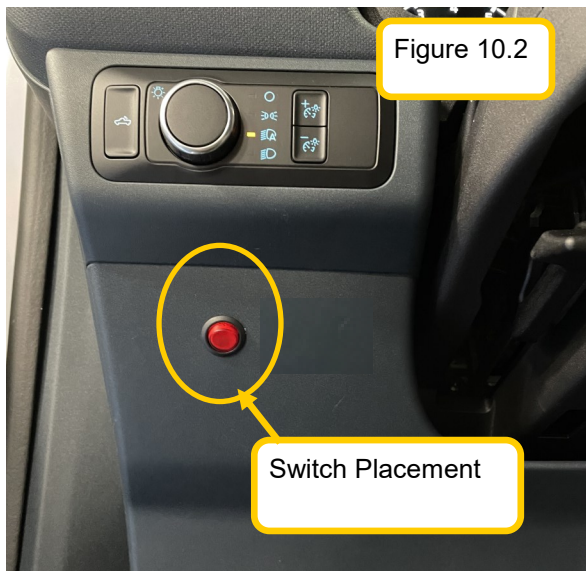


Figure 10.2

Switch Placement

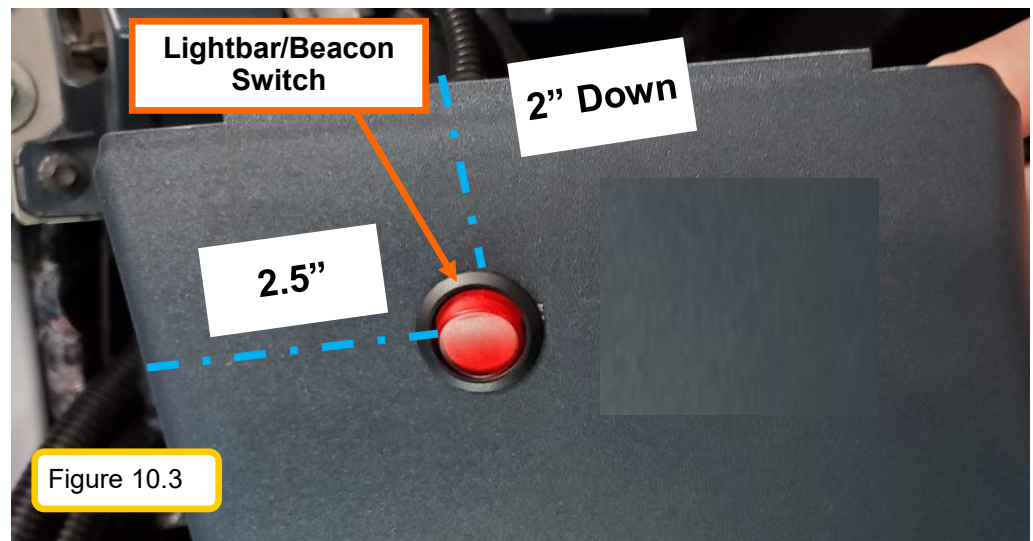


Figure 10.3

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 #67106.

Connect the rear strobe harness to the switch harness (one of the remaining unused connectors) in the driver's foot well. Figure 11.1.

Step 2:

Locate the driver's side door sill area. Figure 11.2.

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

Locate the OEM grommet under the carpet. Figure 11.3.

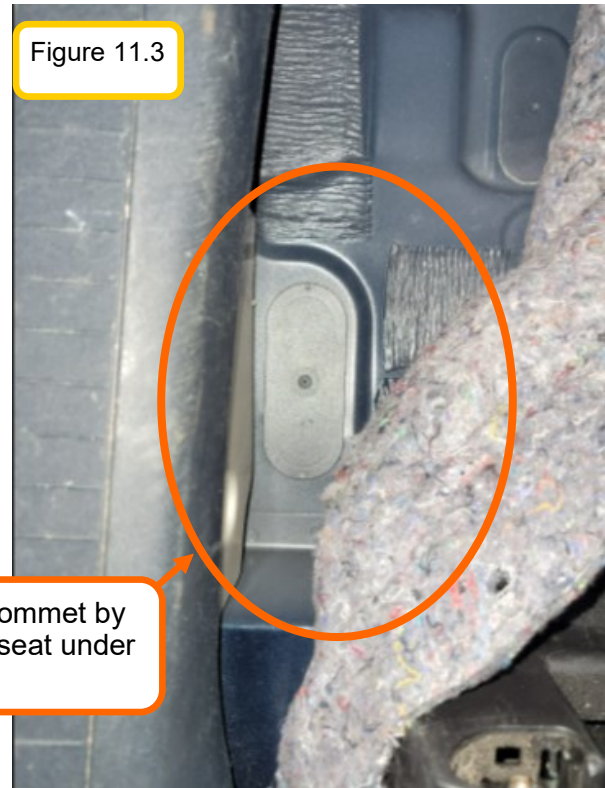
Cut an "X" in the grommet. Route the strobe harness through the grommet to the underneath of the vehicle.

Silicone the grommet when done.

Figure 11.2



Figure 11.3



OEM Grommet by Driver's seat under carpet

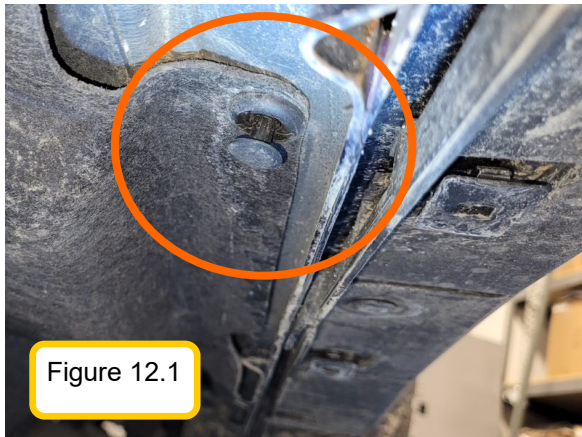


Figure 12.1

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

Locate the carpet shielding underneath the driver's seat (unbody of vehicle).

Remove the needed push pins to let the underneath carpet down. Figure 12.1

Route the strobe harness rearward following the OEM harnesses (red dotted line).

Secure with zip ties to the OEM harness. Figure 12.2.

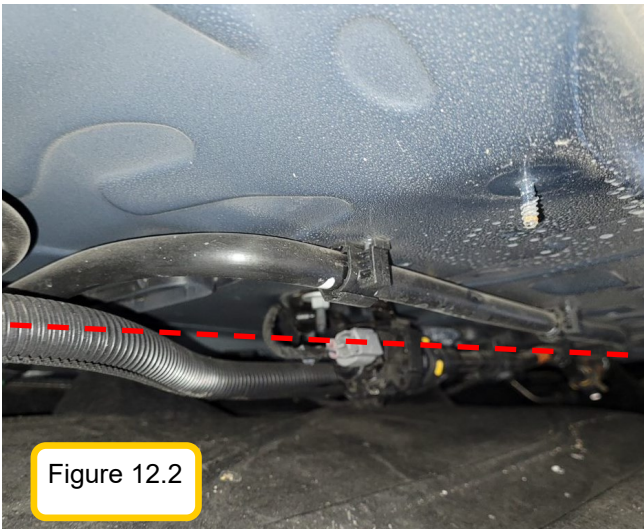


Figure 12.2

Step 4: Mounting Strobes

Place the strobes on the rear bumper.

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

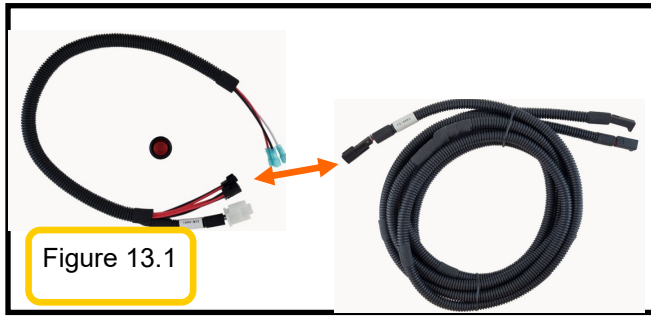
Drill out the center hole. Use primer on the hole to prevent rusting.

Connect the strobe light to the harness and silicone the hole.

Place the strobes in their desired locations and fasten them onto the bumper with the supplied screws.

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





Step 5:

Locate the front strobe harness #67102.

This harness should already be routed from the engine compartment to the driver side foot well, with the power harness. If this is not done, please do this now.

Connect the front strobe harness to the switch harness (one of the remaining unused connectors) in the driver's foot well. Figure 13.1.



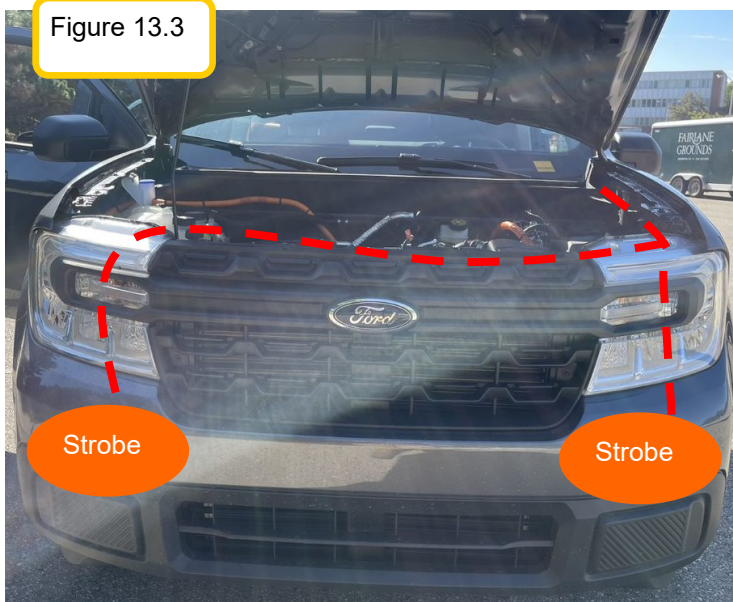
Step 6:

Route the strobe connector ends of the harness through the engine compartment to the strobe locations on the grill. Routing referenced with red dotted lines. Figures 13.2 and 13.3.

The harness will be secured to OEM harnesses and the frame when able.

Be sure NOT to secure wiring or route against moving or hot objects.

Secure harness with zip ties.



Step 7: Mounting Strobes

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

Drill out the center hole.

Connect the strobe light to the harness and silicone the hole.

Place the strobes in their desired locations and fasten them onto the grill with the supplied screws.

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

Beacon/Lightbar Install—If Applicable

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



Step 1: On a table/bench: Assemble the light

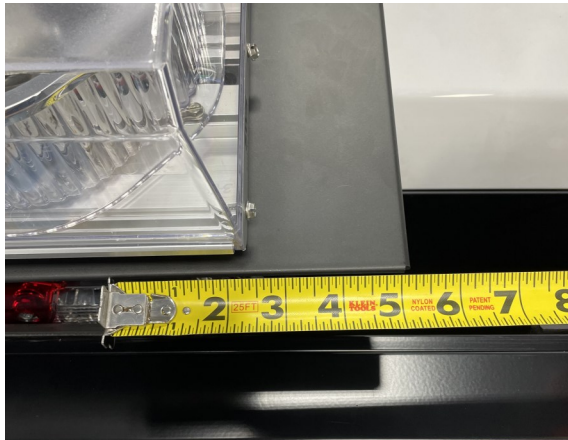
Assemble the lightbar or beacon to the mount, using the supplied fasteners and rubber spacers with the lightbar.

If installing a Whelen lightbar, use the provided screws (FAS0869), washers (FAS0871), and nuts (FAS0501) in the ASCO kit. They are not provided with the light.

All other lights will have their own hardware.

Note: Lightbar (SWS Apollo) in pictures is for reference only.

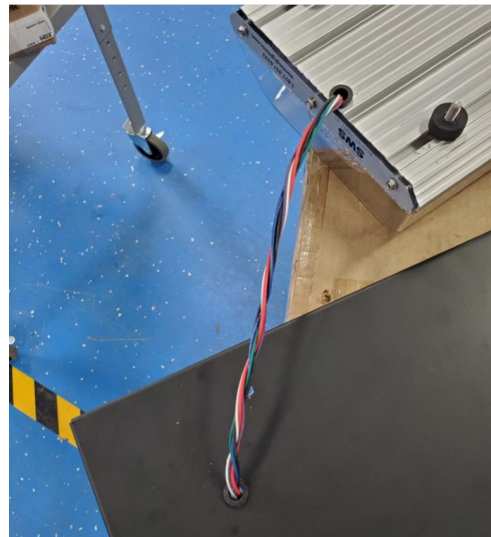
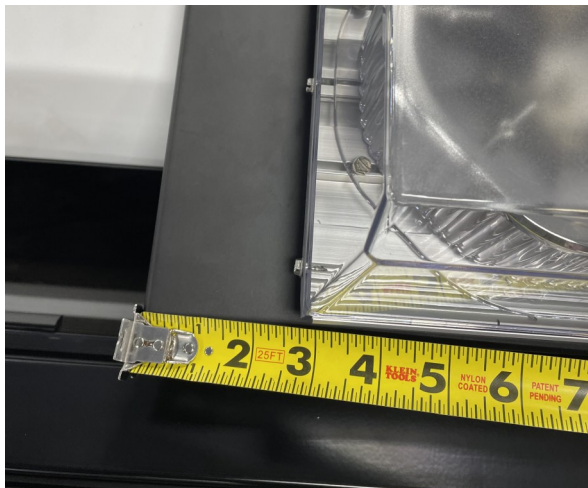
Center the lightbar or beacon onto the mount, side to side, then slide the lightbar to the rear of the mount until it is flush. See pictures for reference.



Use the lightbar/beacon as template, mark the needed holes for mounting. Drill the needed holes for mounting.

Drill the hole for the wiring pass through and insert the provided grommet (if applicable). **If there is a connector on the end of the lightbar/beacon, use the 1" grommet (36096-0). If there is not a connector, use the 3/8" grommet (70805) and refer to the next page.**

Silicone the grommet/pass thru wiring.



If Lightbar/Beacon does not have a connector on the wires:

Figure 15.1



Figure 15.2



After mounting the light to the Acari mount and pulling the wire through the grommet (70805)

Locate the connector housing inside the lightbar/beacon box. Figure 15.1.

Note if it has a red insert inside the connector or not. Refer to figure 15.2 for red insert inside the connector.

Insert the lightbar wire terminals into the connector. **See steps below:**

In these steps be very careful to place the terminals into the correct side of the connector.

Line the red wire terminal up with cavity #1 and the black wire terminal up with cavity #2. Figure 15.3.

Note the connector has a "1" and a "2" noted on the connector (circled in red). Figure 15.4. The red wire will be inserted into the #1 cavity of the connector. The black wire will be inserted into the #2 cavity on the connector.

Be sure to align the terminal prongs up with the inside of the connector pin outs.

Carefully insert the terminals into their designated section. Figure 15.5.

Also be sure the terminals snap into position. You should feel or hear a click when they are correctly inserted.

Pull on the wiring to be sure the connectors have been inserted completely.

If not already done:

Insert the red plastic piece into the top end of the connector. This will also click into place. Figure 15.6 and 15.7.

Silicone the grommet/wiring.

Figure 15.3



Figure 15.4



Figure 15.5

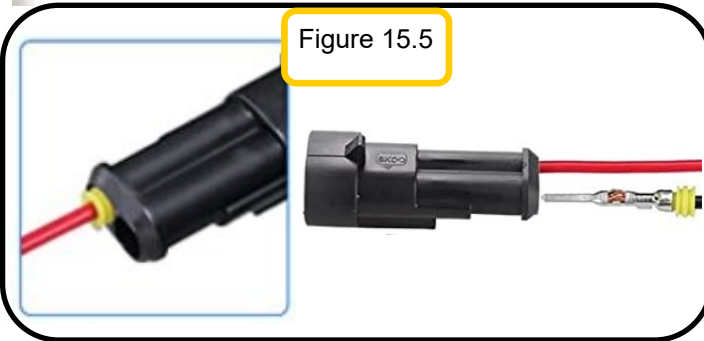


Figure 15.6

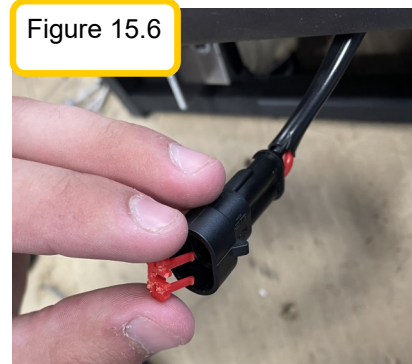


Figure 15.7

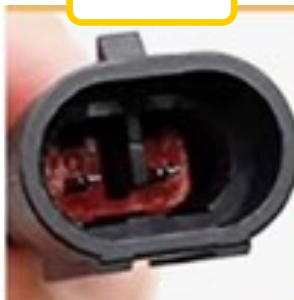




Figure 16.1



Figure 16.2

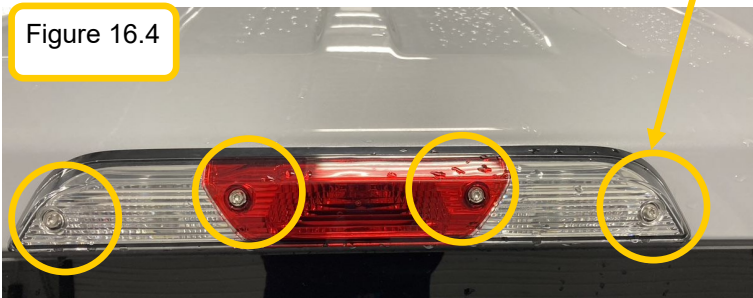


Figure 16.4

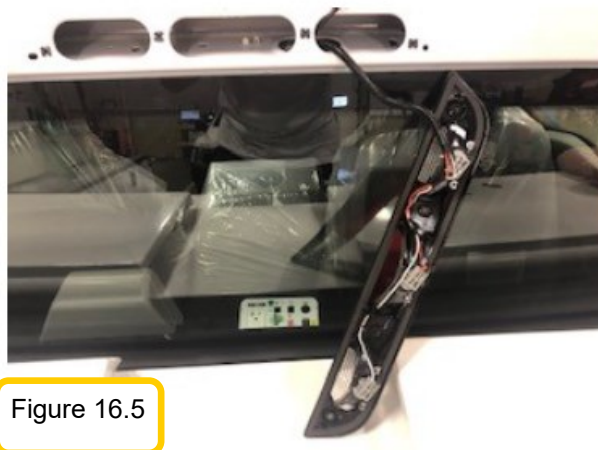


Figure 16.5

Pictures to the left are for beacon/lightbar mounting references.

Figure 16.1, 16.2, and 16.3



Figure 16.3

Step 2: Disconnect OEM Light

Using a torx T20 bit, remove the 4 screws holding the 3rd brake light to the CHMSL. Figure 16.4.

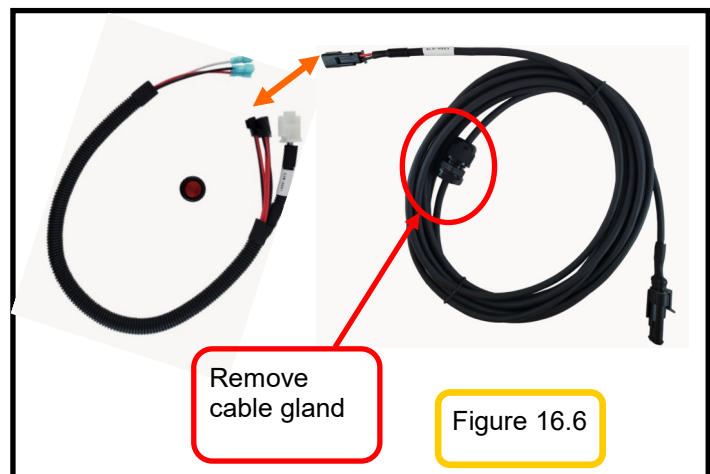
Remove the OEM light from the CHMSL and disconnect the OEM harness clip. Figure 16.5.

Step3:

Locate the beacon/lightbar harness (67111).

Remove the cable gland off the beacon/lightbar harness. This will not be needed to the CMSL mounted light install.

Connect the harness to the switch harness (one of the remaining unused connectors) in the driver's foot well. Figure 16.6.



Remove cable gland

Figure 16.6

Beacon/Lightbar Install—If Applicable



Figure 17.1

Step 4: Routing (Refer to routing diagrams at the beginning of the instructions)

Route the beacon harness following the OEM harness rearward along the foot sill and then up the rear C pillar. Figure 17.1, 17.2, and 17.3.

****BE SURE TO AVOID ALL SEAT BELT RETENTIONERS****

Step 5: Feed the fish tape through the CHMSL opening towards the driver's side C pillar. Tape the harness to the fish tape and pull through the CHMSL opening. Figure 17.4.

Make sure harness is tucked head liner and C pillar trim. Figure 17.5.

See pictures for routing references. Secure all wiring with cable ties and trim panels.

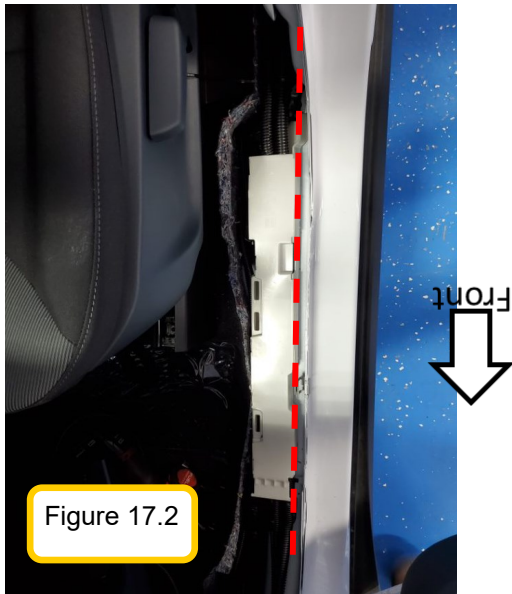


Figure 17.2

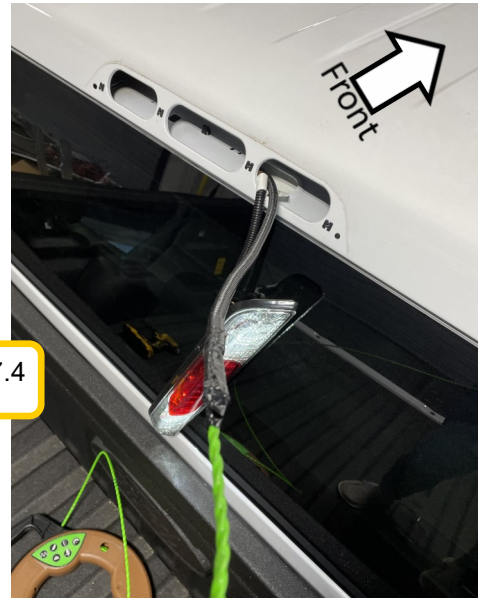


Figure 17.4



Figure 17.3



Figure 17.5



Figure 18.1

Step 5: Mounting the light:

Using the mount manufacturer supplied instructions, attach the mount to the vehicle body.

Pull the lightbar harness through the mount opening like seen in the picture to the left—before re-installing the OEM light and black trim plastic piece. Figure 18.1, 18.2, and 18.3.



Figure 18.2

Connect the beacon/lightbar harness with the beacon/lightbar.

Tape up all non-needed wires from the lightbar/beacon.

Assemble the rest of the needed lightbar/beacon mount pieces.



Figure 18.3

Re-connect all the OEM light wiring and attach the light back to the Acari mount/vehicle. Figure 18.4.



Figure 18.4



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!

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VAN AND PICKUP EQUIPMENT

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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!

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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!

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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

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)**

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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

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
<div>Note: This is also from HellermannTyton: Their Part Number is 156-00592</div>



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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

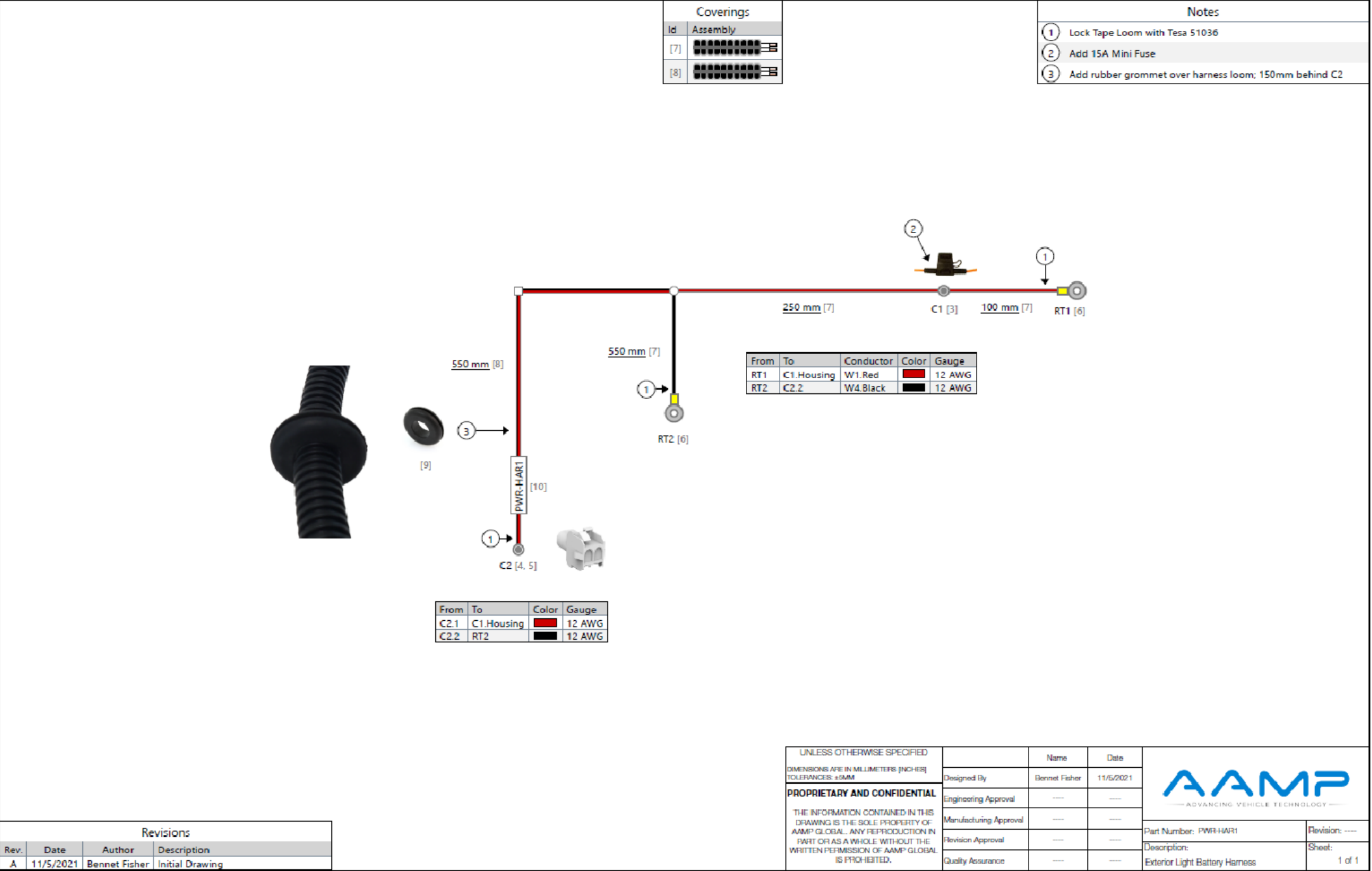
Sheet 1 of 1

PART / PRODUCT IDENTIFICATION

<div><div></div><div>ADRIAN STEEL®</div></div>		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



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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: 25378 ECN DESCRIPTION: RELEASE FOR PRODUCTION REVISED BY:
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031 Material Thickness: per ASTM Std. Weld Callouts per AWS	
HOLES/SLOTS 0.0 = ± .062 0.00 = ± .031 0.000 = ± .015	
ANGLES 0° = ± 2° 0.0° = ± 1°	

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
67092 OR PWR-HAR1
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

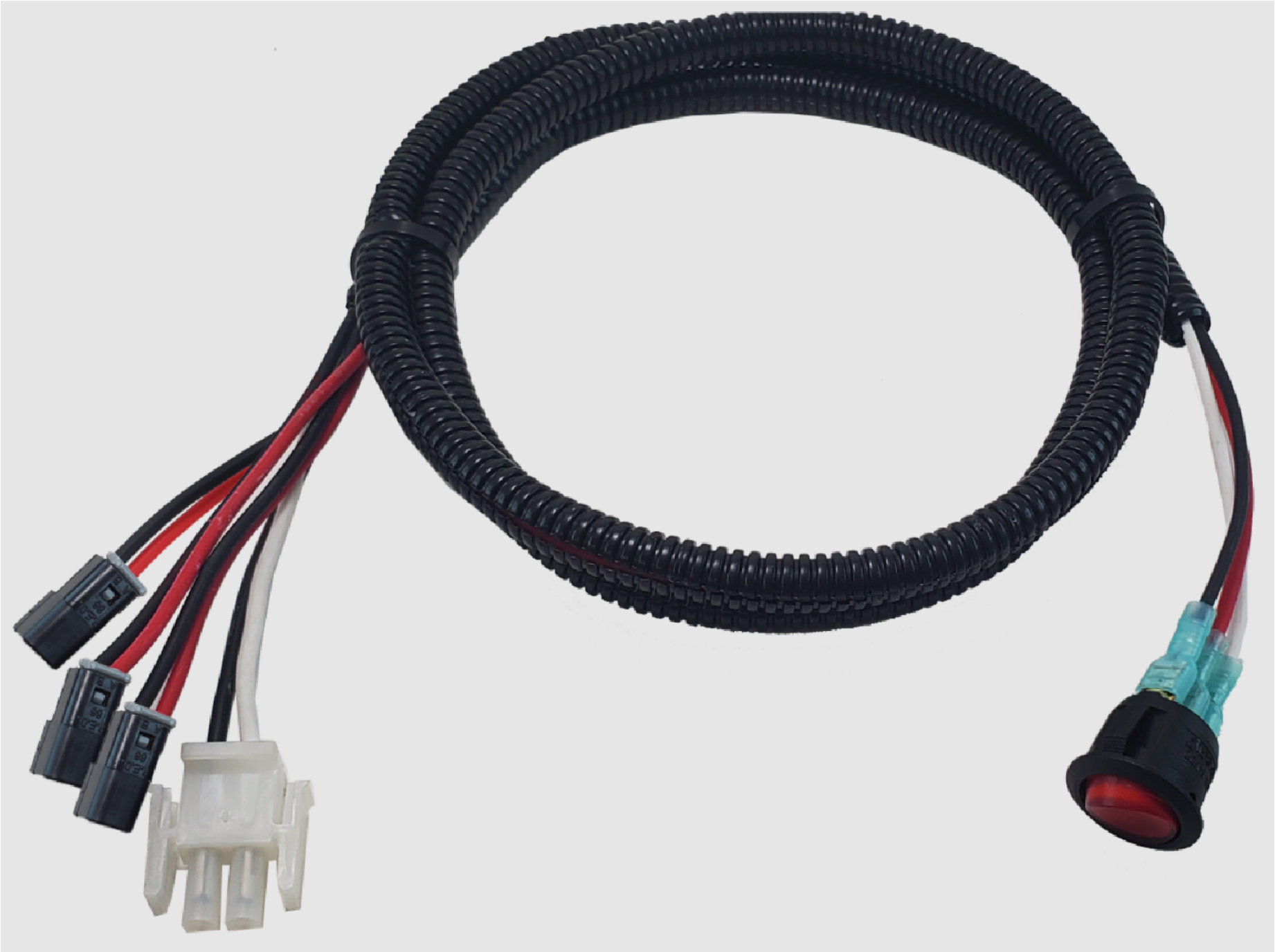
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Sheet 1 of 1

PART / PRODUCT IDENTIFICATION		
<div><div></div><div>ADRIAN STEEL®</div></div>		REVISION LEVEL <div>A</div>
ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		
MAT'L USED: PURCHASED	DESIGNED BY: E.BURKE	
DESCRIPTION: POWER HARNESS EXTERIOR 1		
WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67092

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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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: 25378
ECN DESCRIPTION:
RELEASE FOR PRODUCTION
REVISED BY:


PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
SSW-HAR1 OR 67097
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 A	
MAT'L USED:		PURCHASED		DESIGNED BY:		E.BURKE	
DESCRIPTION:		SWITCH HARNESS 1 EXTERIOR LIGHTING					
WEIGHT (Lbs.): 0.2		SEGMENT CODE: ELE		PART NUMBER: 67097			

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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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

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Sheet 1 of 1

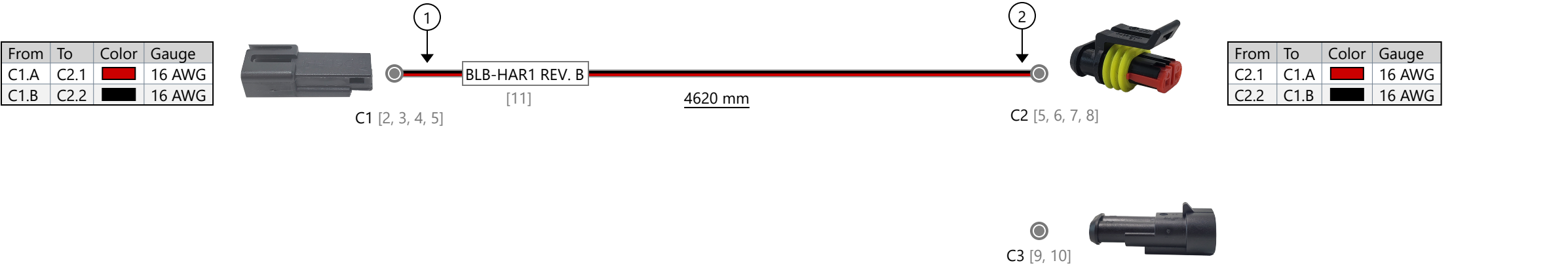
PART / PRODUCT IDENTIFICATION		
	ADRIAN STEEL®	
	ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	
MAT'L USED:	PURCHASED	DESIGNED BY: E.BURKE
DESCRIPTION:	BEACON/LIGHTBAR HARNESS 1	
WEIGHT (Lbs.):	0.2	SEGMENT CODE: EBE
		PART NUMBER: 67111

REVISION LEVEL


B

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	<div> — ADVANCING VEHICLE TECHNOLOGY —</div>	
	Designed By	Bennet Fisher	04/26/2022		
	Engineering Approval				
	Manufacturing Approval				
	Revision Approval			Part Number: BLB-HAR1 REV. B_	
	Quality Assurance			Description: Beacon/Light Bar Harness - 4.62 Meters	
				Revision: B Sheet: 1	

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
WHELEN LIGHTBAR: R2LPPCA WITH EXTERIOR PLUG AND PLAY CONNECTOR CLEAR LENS AMBER LED'S
CUSTOM R2LPPCA WITH W446, WPF. 2 SOCK CONNECTR KIT AMP WITH LOOM / GROMET / PATTERN WIRE TAPE / SETTING OF THE PATTERN
WHELEN PART NUMBER: R2LPPCA-AS CUSTOM / 01-0689088C1P0



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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: 25921
CURRENT ECN: 28678
ECN DESCRIPTION:
Add Updated Part Number to PPDS
REVISED BY: LJK


PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
WHELEN
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
R2LPPCA-AS CUSTOM / 01-0689088C1P0
COLOR (ONLY LIST IF COLOR SPECIFIC)
CLEAR LENS / AMBER LED'S
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: EMB			
DESCRIPTION: WHELEN LP LGHTBR AM W/CON							
WEIGHT (Lbs.): 1.5		SEGMENT CODE: EBE			PART NUMBER: 67692		

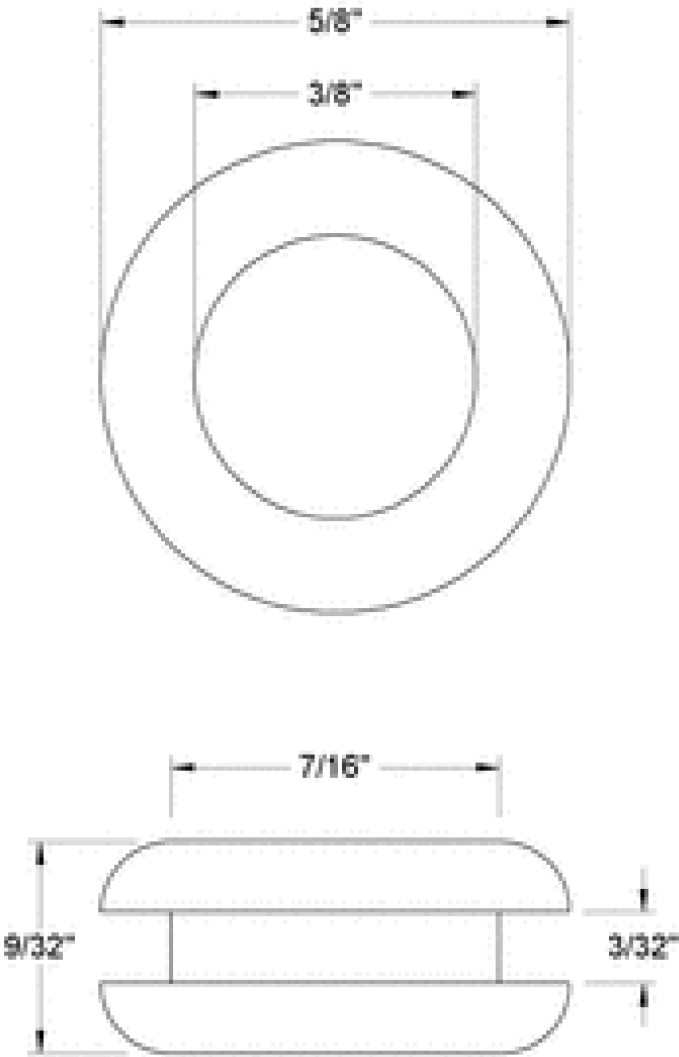
<div>PURCHASED COMPONENT KEY FEATURES</div>	
DESCRIPTION OF REQUIREMENTS	
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING) N/A	
LOAD/RATING REQUIREMENT N/A	
MATERIAL REQUIREMENT N/A	
PACKAGING REQUIREMENT N/A	
OTHER REQUIREMENTS THIRD BRAKE CHMSL LIGHTBAR/BEACON MOUNT FOR FORD MAVERICK TRUCKS - LOW PROFILE	



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TOLERANCES & INSPECTION			PART / PRODUCT IDENTIFICATION				
UNLESS OTHERWISE SPECIFIED ALL BEND ANGLES ARE 90 DEGREES ALL DIMENSIONS ARE IN INCHES. REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION			ADRIAN STEEL® ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221			REVISION LEVEL <div>A</div>	
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031			HOLES/SLOTS 0.0 = ± .062 0.00 = ± .031 0.000 = ± .015			MOUNT,NO DRILL,LOW,FD MV	
ANGLES 0° = ± 2° 0.0° = ± 1°			MATERIAL USED: PURCHASED				
Material Thickness: per ASTM Std. Weld Callouts per AWS			DESIGNED BY: E.BURKE			WEIGHT (Lbs.): 5.00 SEGMENT CODE: EBE PART NUMBER: 68457	
RELEASE & REVISIONS			INITIAL ECN: 25689 CURRENT ECN: 25689 ECN DESCRIPTION: RELEASE TO PRODUCTION REVISED BY: E.BURKE				
PURCHASED COMPONENT			REFERENCED SUPPLIER AND/OR MANUFACTURER ACARI REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER RTM-101-LP-FORD-M COLOR (ONLY LIST IF COLOR SPECIFIC) N/A COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.) NO				

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



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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

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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		