

Introduction / Comments:

Install Instructions For Exterior Hood Mounted Strobes For Ranger

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 Hood Mounted Strobes For Ranger

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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****

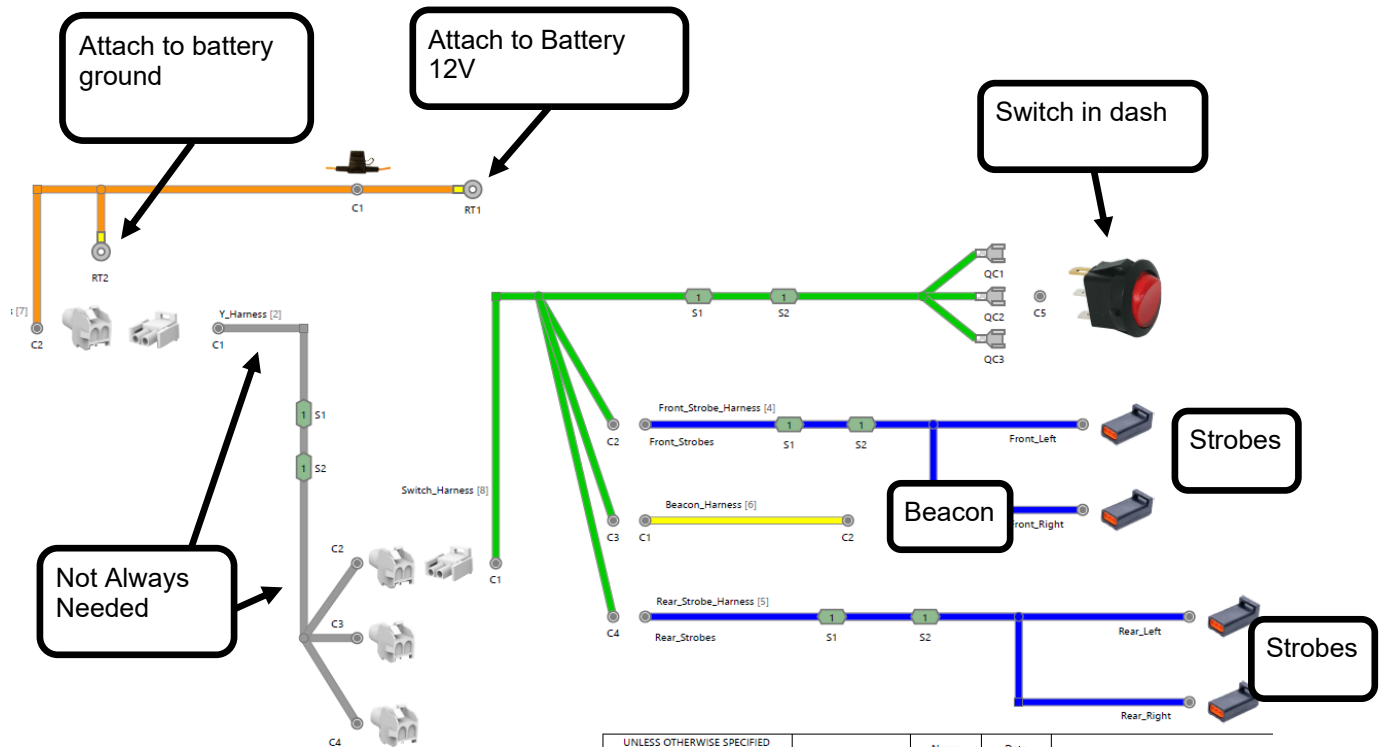
Before installation, disconnect the OEM negative battery cable.

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



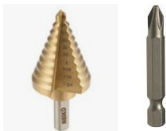
Tools required:

13 socket and 20 torx bit

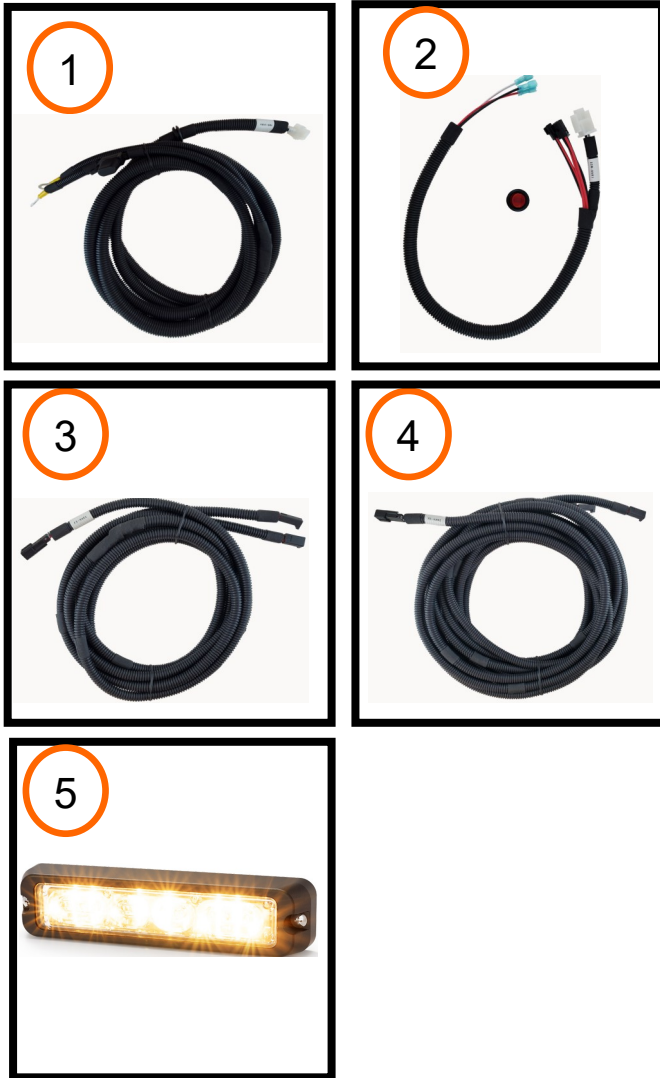
Phillips bit and 5/16" step drill bit

Power drill and impact

Torque wrench



Components



	Part Number	Description
1	67093	Power Harness #2
2	67097	Switch Harness #1
3	67101	Front Strobe Harness #1
4	67107	Rear Strobe Harness #2
5	78897	Strobes

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: Hood Mounted

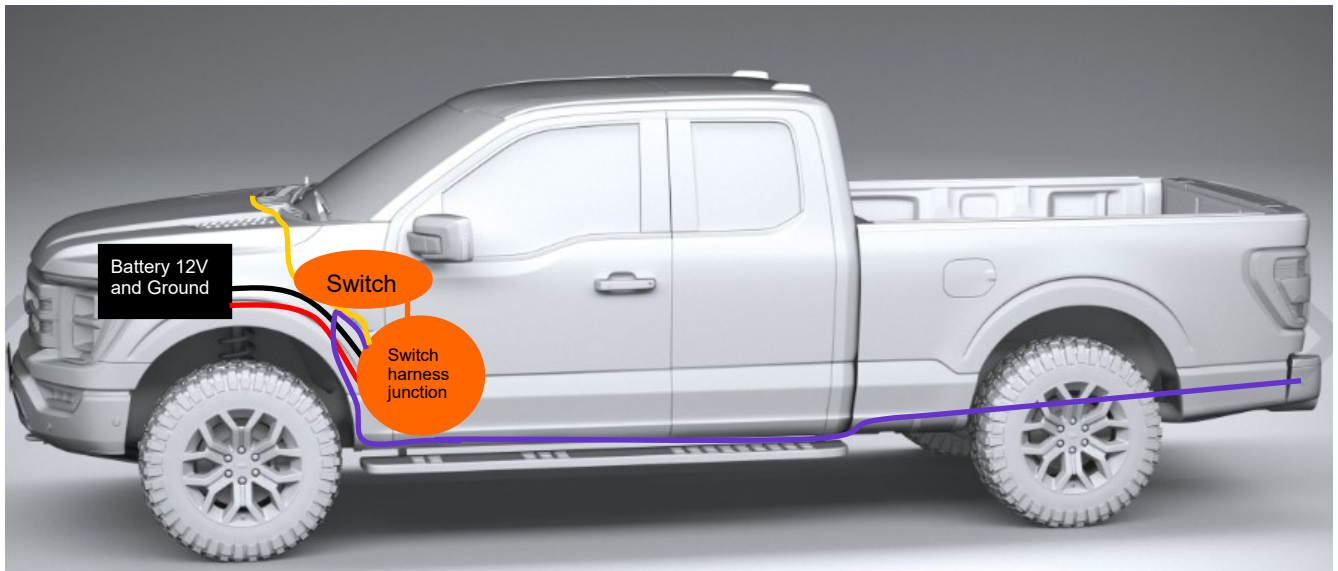
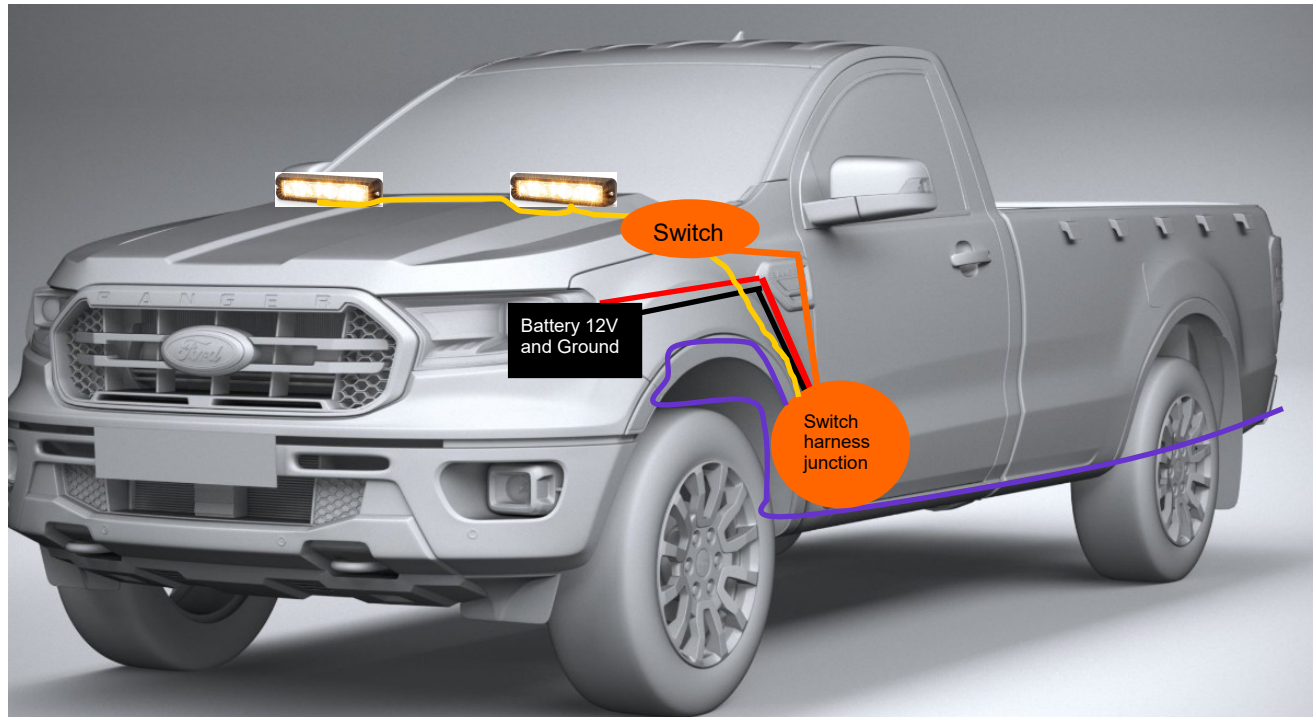


*****TORQUE STROBES TO 10-IN-LB'S
MAXIMUM*****

Rear Strobes: Rear Bumper

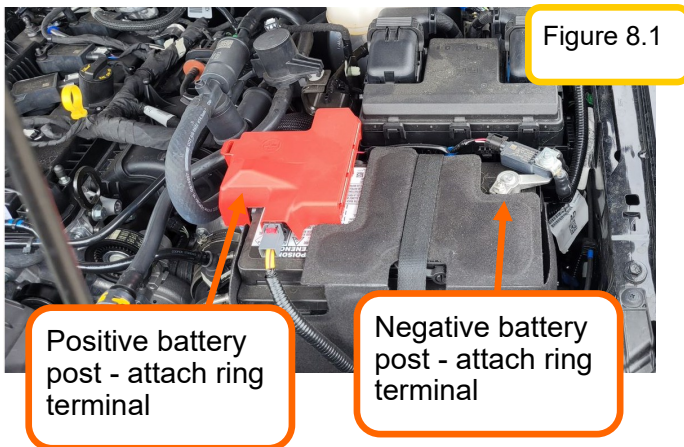


Routing Overview



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





Step 1: Locate the power harness #67093.

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

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 battery negative post.
Figure 8.1.



Route the white connector end rearward following the path called out in figure 8.2, to the firewall grommet.

Locate the firewall grommet. Refer to figure 8.3 and 8.4 for the location.

If installing strobes:

If there is a plug in the OEM grommet, see if you can cut an "X" and route the strobe harnesses through first. If this is not attainable, remove the plug and drill out the hole as needed, and insert the ASCO provided grommet (36096-0).

Then drill a second hole to the right of the grommet for the power harness. Drill out the needed hole size to fit the grommet on the power harness (67093).

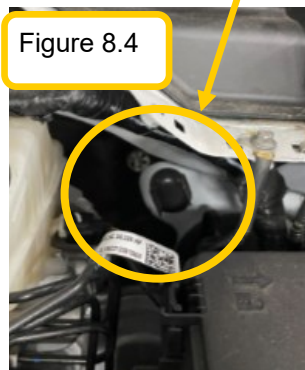
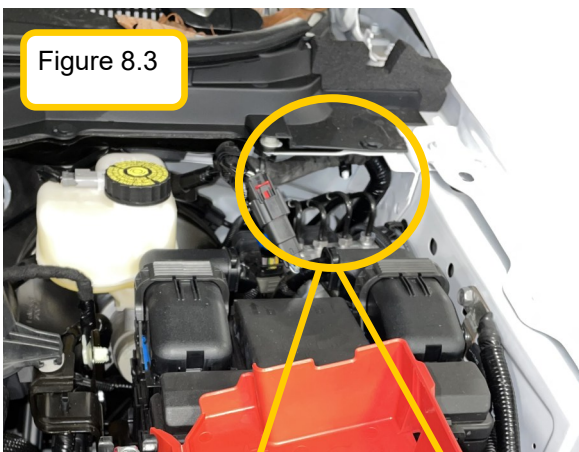
Route the power harness connector end through the hole and into the cab.

If not installing strobes:

Drill out the grommet to fit the power harness provided grommet. You will route the power harness through this grommet if not installing any strobes.

Route the power harness connector end through the hole and into the cab. Make sure to leave a drip loop with the harness.

Secure wiring with zip ties and Silicone the hole.



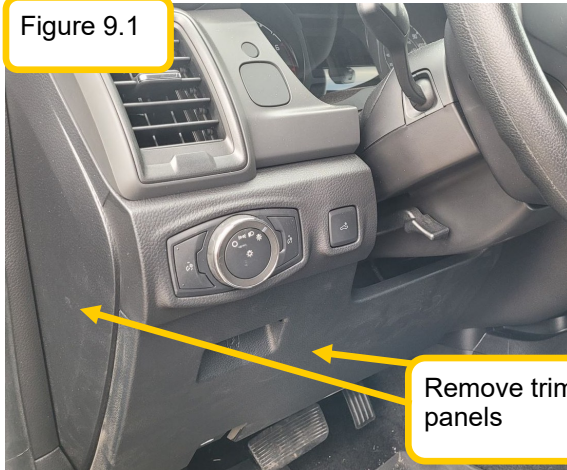
Reference Pg. 3 for routing through the firewall.

Power harness

Switch Harness



Figure 9.1



Remove trim panels

Figure 9.2

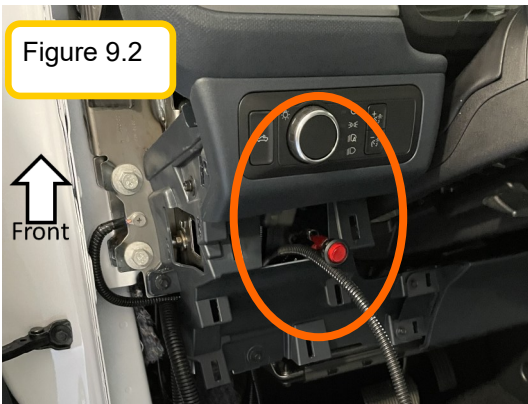


Figure 9.3

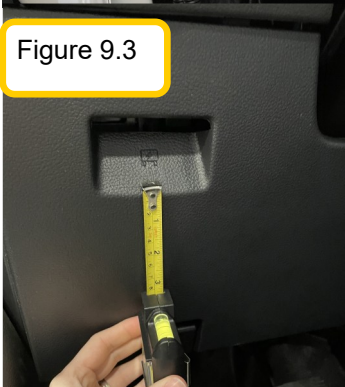
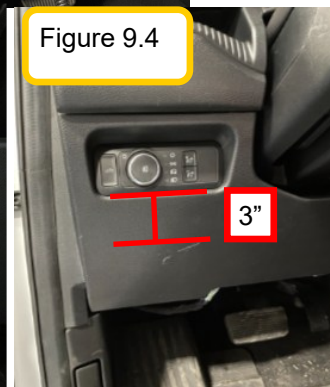


Figure 9.4



Step 4:

Locate the switch harness #67097

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

Disassemble the IP trim to gain access behind the dash. Figure 9.1.

Route the switch end of the switch harness up the dash and through the opening in the IP. Figure 9.2.

Secure to the OEM harnesses behind the IP.

Step 5:

Drill a hole for the switch in the trim panel: The hole will be 1" inch down from the OEM cut out in the dash panel. Center the hole with the cut out. Be sure the back side is free and able to be drilled out. Depending on year of the Ranger, you may need to drill through two layers of trim. Figure 9.3.

Please note if there is no cut out in the dash panel, center the switch side to side, and measure 3" down from the headlight switch cluster. Be sure to check the back side of the panel before drilling. If you need to adjust the switch position to clear harming any OEM wiring, you may do so. Refer to Figure 9.4.

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 front and rear strobe harnesses #67101 and #67107.

Connect both the front and rear strobe harnesses to the switch harness (two of the remaining unused connectors) in the driver's foot well. Figure 11.1.

Step 2:

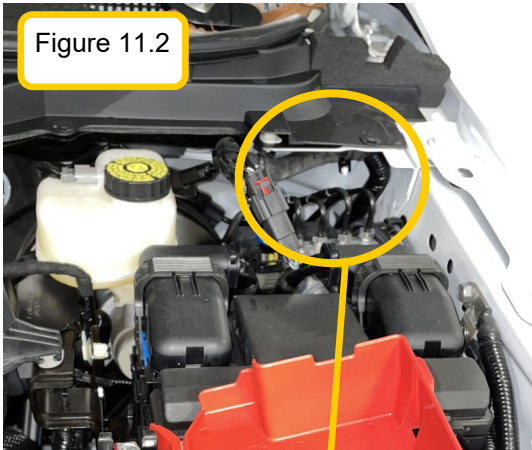
If you have not already drilled out the OEM firewall grommet, do that now (to fit the 36096-0 grommet).

Figure 11.2 and 11.3 for the OEM grommet location.

Route both the front and rear strobe harnesses through the grommet.

Silicone the hole once routed.

Figure 11.2



Leave the front strobe harness for now, locate the rear strobe harness.

Route the rear strobe harness down towards the wheel well, as close as possible to the firewall without interfering with any hot or rotating objects.

Continue routing the harness to the underbody frame.

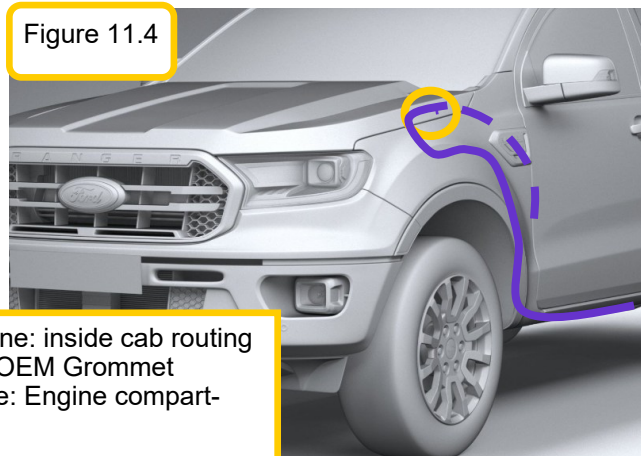
Refer to figure 11.4 for routing references.

Please note there will not be much slack in the harness, so please keep the harness tight.

Figure 11.3



Figure 11.4



Purple dotted line: inside cab routing
Orange circle: OEM Grommet
Purple solid line: Engine compartment routing

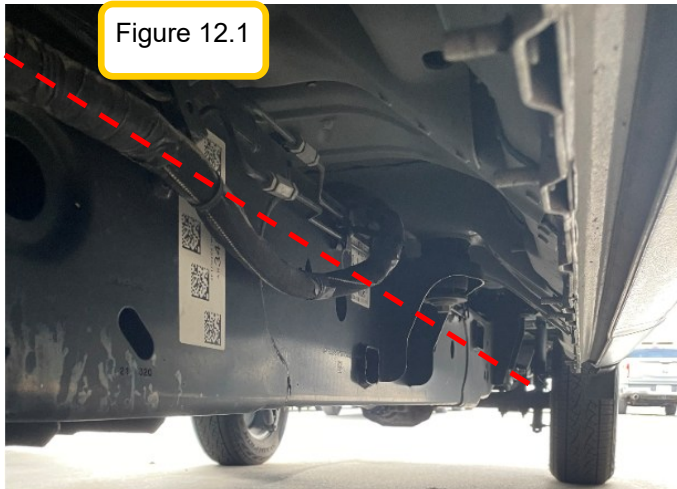


Figure 12.1

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

Route the strobe harness rearward following the frame (red dotted line). Secure with zip ties to the OEM harness. Figure 12.1 and 12.2.

Step 4: Mounting Strobes

Find the left most reverse sensor.

Place the strobes in line with the sensor horizontally (about 1" down from the bumper crease) and 1" over from the sensor. Figure 12.3.

If there is no sensor, measure ~1" over from the edge of the tailgate edge, or use your best judgement.

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

Drill a 3/8" hole for the wire pass through of the strobe. Use primer on the hole to prevent rusting. Figure 12.3.

Route the harness with the connector removed through the hole you just made. With butt splice connectors connect the **Red** wire to the **Red AND White** wires from the strobe. Connect the **Black** wire to the **Black** wire from the strobe. Figure 12.4

Drill two holes using a **9/64" Drill Bit** for the mounting screws. **YOU MUST DRILL A 9/64" HOLE OR FASTENERS WILL BREAK.**

Use the provided Flush-mount bracket and fasteners to mount the strobe to the bumper. Figure 12.5

Repeat for the right side strobe

Bezel Mount



Figure 12.2

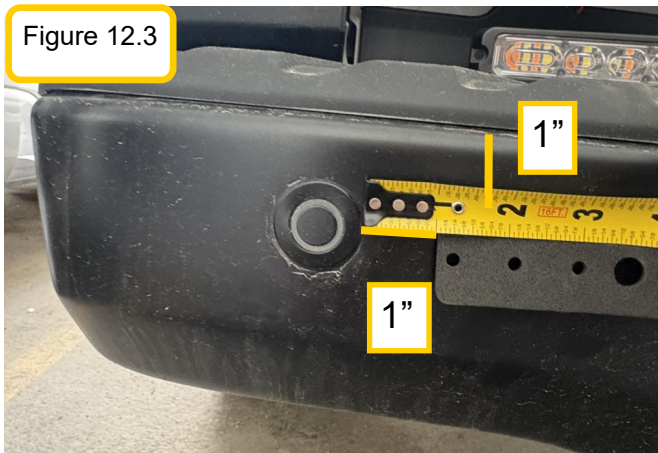


Figure 12.3

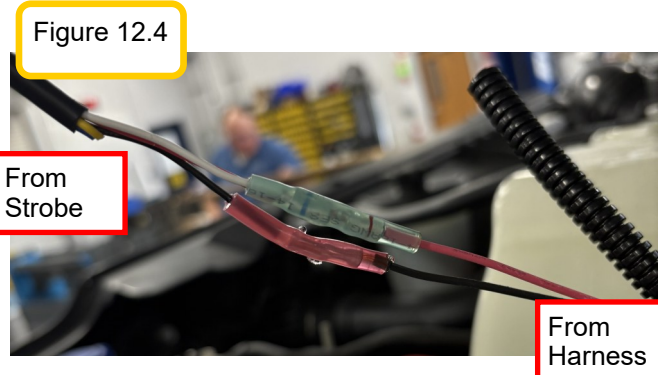


Figure 12.4

From Strobe

From Harness

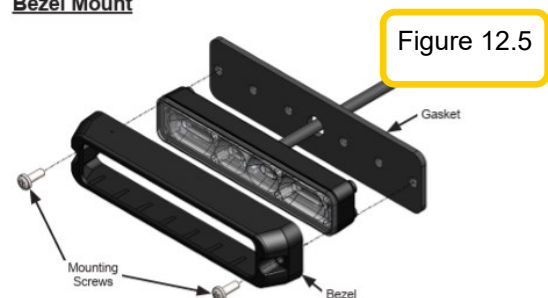
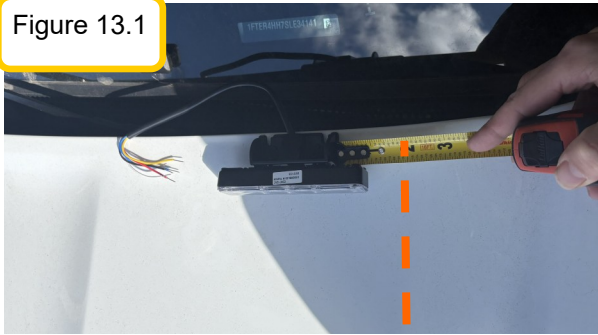


Figure 12.5

Figure 13.1



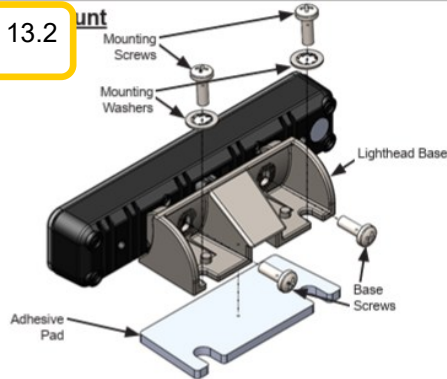
Step 5: Mounting Front Strobes

Move to the hood of the vehicle.

Using the body lines on the outer edges of the hood, place the bracket 2" inches away and square to the back edge of the hood. Figure 13.1.

Use the provided FAS1008 to mount the bracket to the hood.

Figure 13.2



Step 6: Use the provided fasteners from the strobes to mount the strobe to the bracket. Figure 13.2

Step 7: Locate the Front Strobe harness 67104.

Connect the front strobe harness to the switch harness (one of the remaining unused connectors) in the driver's foot well. Figure 13.3

Following the routing path shown in figure 13.3, route the harness through the engine compartment to the desired strobe locations.

Using a fish tape may help with the install.

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

Secure wiring with zip ties.

Figure 13.3

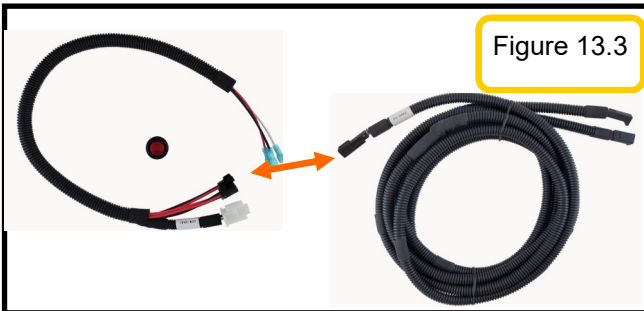
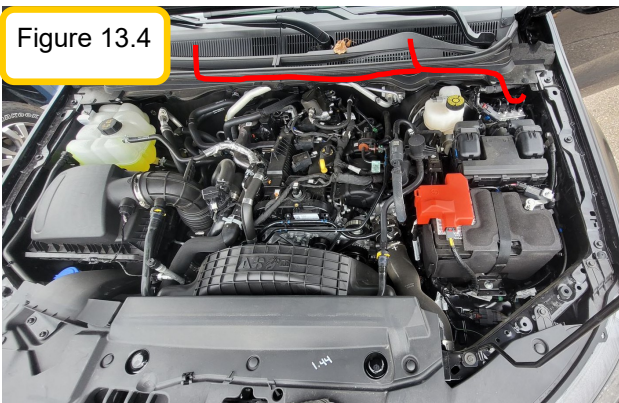


Figure 13.4



Step 8: Route the harness with the connector removed through the hole you just made. With butt splice connectors connect the **Red** wire to the **Red AND White** wires from the strobe. Connect the **Black** wire to the **Black** wire from the strobe. Figure 13.5

Step 9: Secure the harness underneath the hood using provided edge bitter zip ties as shown. Figure 13.6 Secure harness to underneath cabin filter as well

Repeat for the other side strobe

Figure 13.5

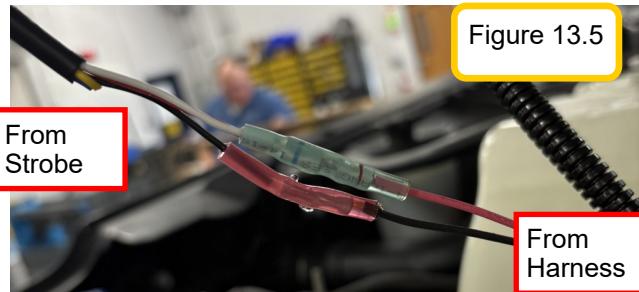
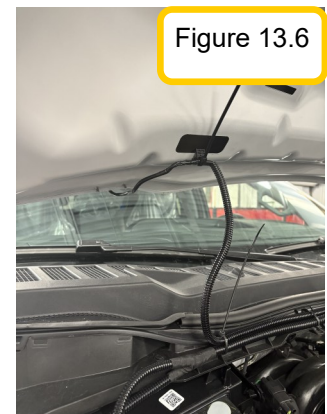


Figure 13.6





Step 10: Ensure Hood Mounted Strobes Harness route in the indent shown to the left. If not routed in indent, wire could become pinched causing strobes to not work



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:

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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:

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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

35353-0**ITEM DESCRIPTION: BUTT CONNECTOR FOR 22-18 GA WIRE, SEALED****MANUFACTURER: WAYTEK or CTW****MANUFACTURERS PART NUMBER: #30965 or #4-18-6****SPECIFICATIONS:** Red Color Insulated Butt Connector with Sealable Ends
For 18 – 22 GA Wire**SPECIAL NOTES: NONE****SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!****PURCHASED PRODUCT DATA SHEET (PPDS)**

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WHENEVER POSSIBLE!DRAWN BY
APGDATE DRAWN
11/9/2007ECN NUMBER
14810ECN DATE
5/31/2012PART WEIGHT
.01 LBS.REV. LEVEL
CPART NUMBER
35353-0

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

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WHENEVER POSSIBLE!

DRAWN BY
HJE

DATE DRAWN
04/01/2008

ECN NUMBER
19252

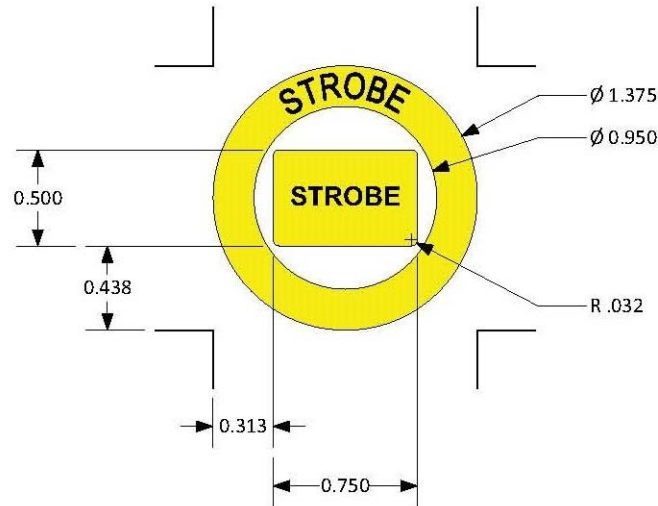
ECN DATE
01/31/2017

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)**

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DRAWN BY
 RJB

DATE DRAWN
 11/15/2017

ECN NUMBER
 XXXX

ECN DATE
 XXXXXX

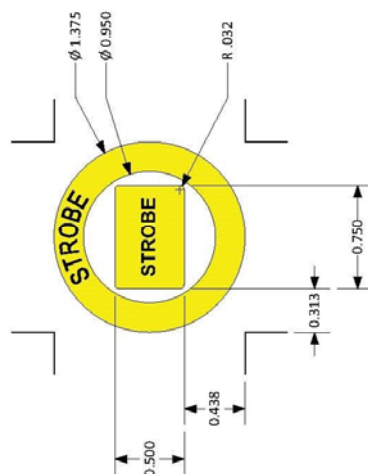
PART WEIGHT
 0.02 LBS.

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 REA/ECO NO.: XXXX			
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PART NUMBER
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11/15/2017

ECN NUMBER
XXXX

ECN DATE
XXXXXXXX

PART WEIGHT
0.02 LBS.

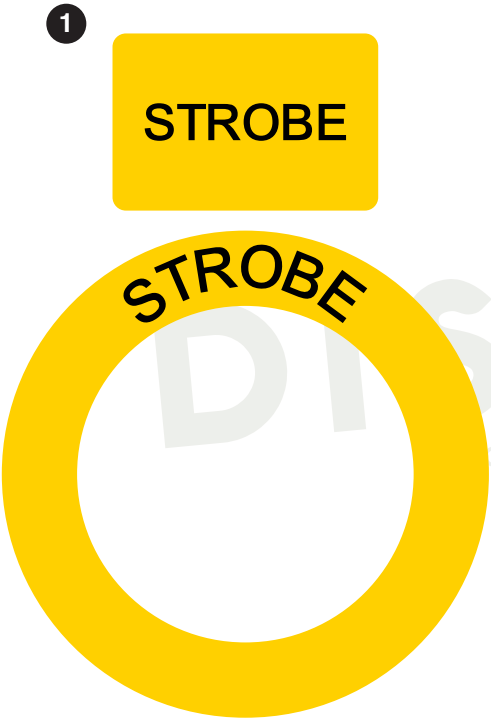
REV. LEVEL
A

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 contaminants 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



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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

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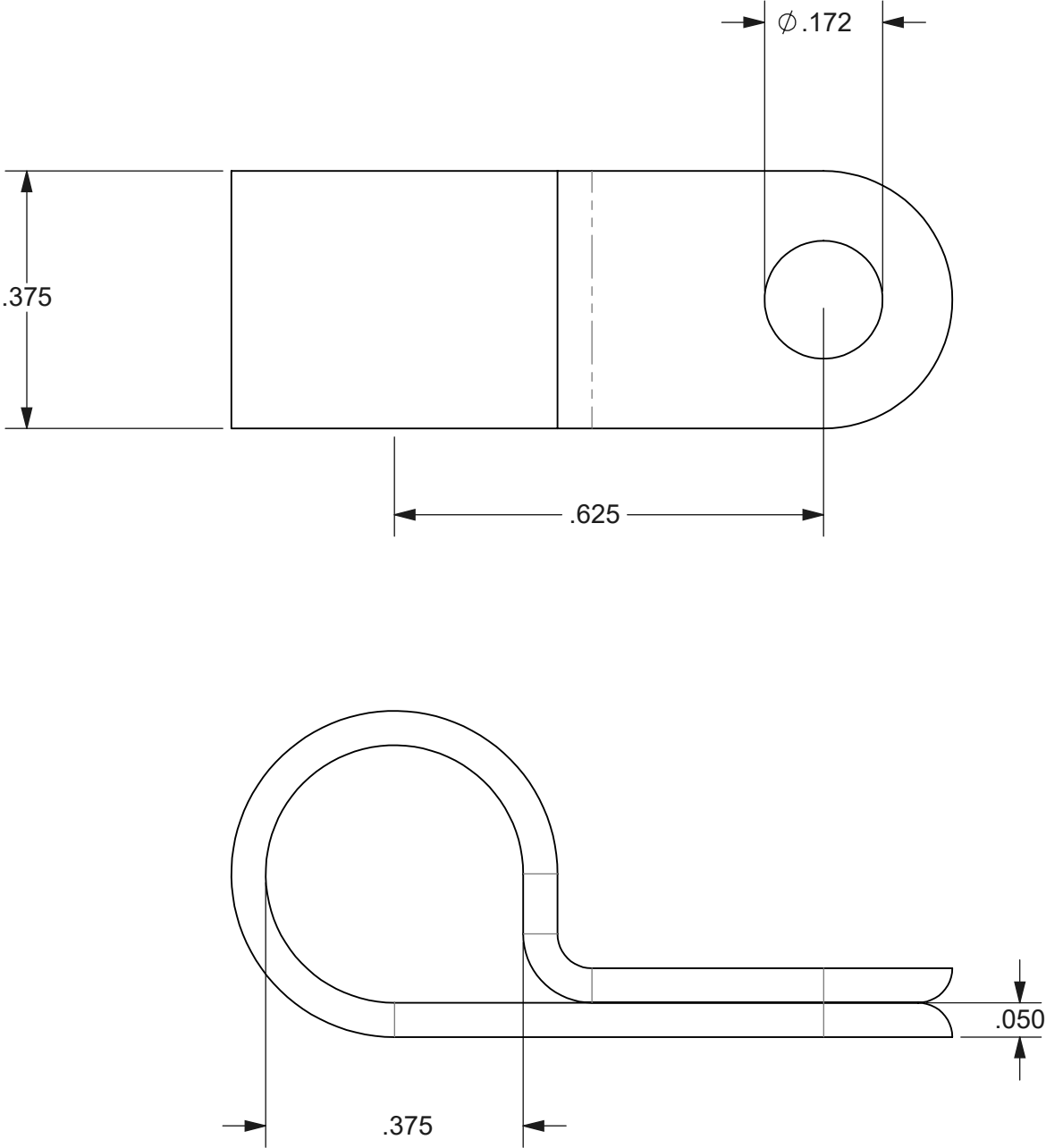
Sheet 1 of 1

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	REVISION LEVEL A
MAT'L USED:		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
N/A



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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: 25297
CURRENT ECN: 25334
ECN DESCRIPTION: UPDATE SUPPLIER TO SAY EQUIVALENT
REVISED BY:

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
MCMASTER-CARR OR EQUIVALENT
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
8876T38 OR EQUIVALENT
COLOR (ONLY LIST IF COLOR SPECIFIC)
BLACK
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

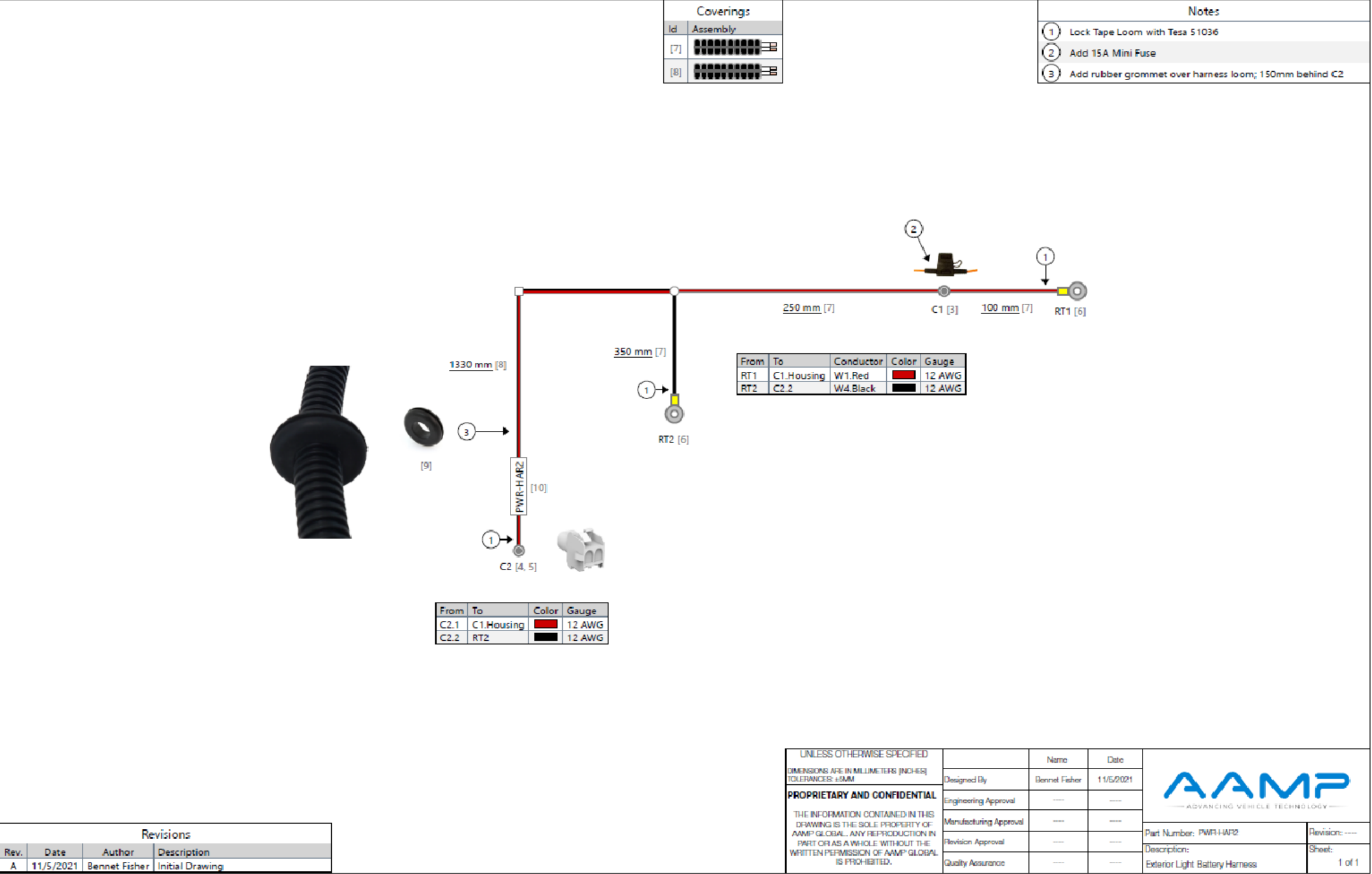
Sheet 1 of 1

PART / PRODUCT IDENTIFICATION

		ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		REVISION LEVEL B	
MAT'L USED:				DESIGNED BY: E.BURKE			
DESCRIPTION: Nylon Plastic Loop Clamp							
WEIGHT (Lbs.): 0.001		SEGMENT CODE: HDW		PART NUMBER: 66843			

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
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031 Material Thickness: per ASTM Std. Weld Callouts per AWS	REVISD BY:

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
67093 OR PWR-HAR2
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: POWER HARNESS EXTERIOR 2		
WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67093

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

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

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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:		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

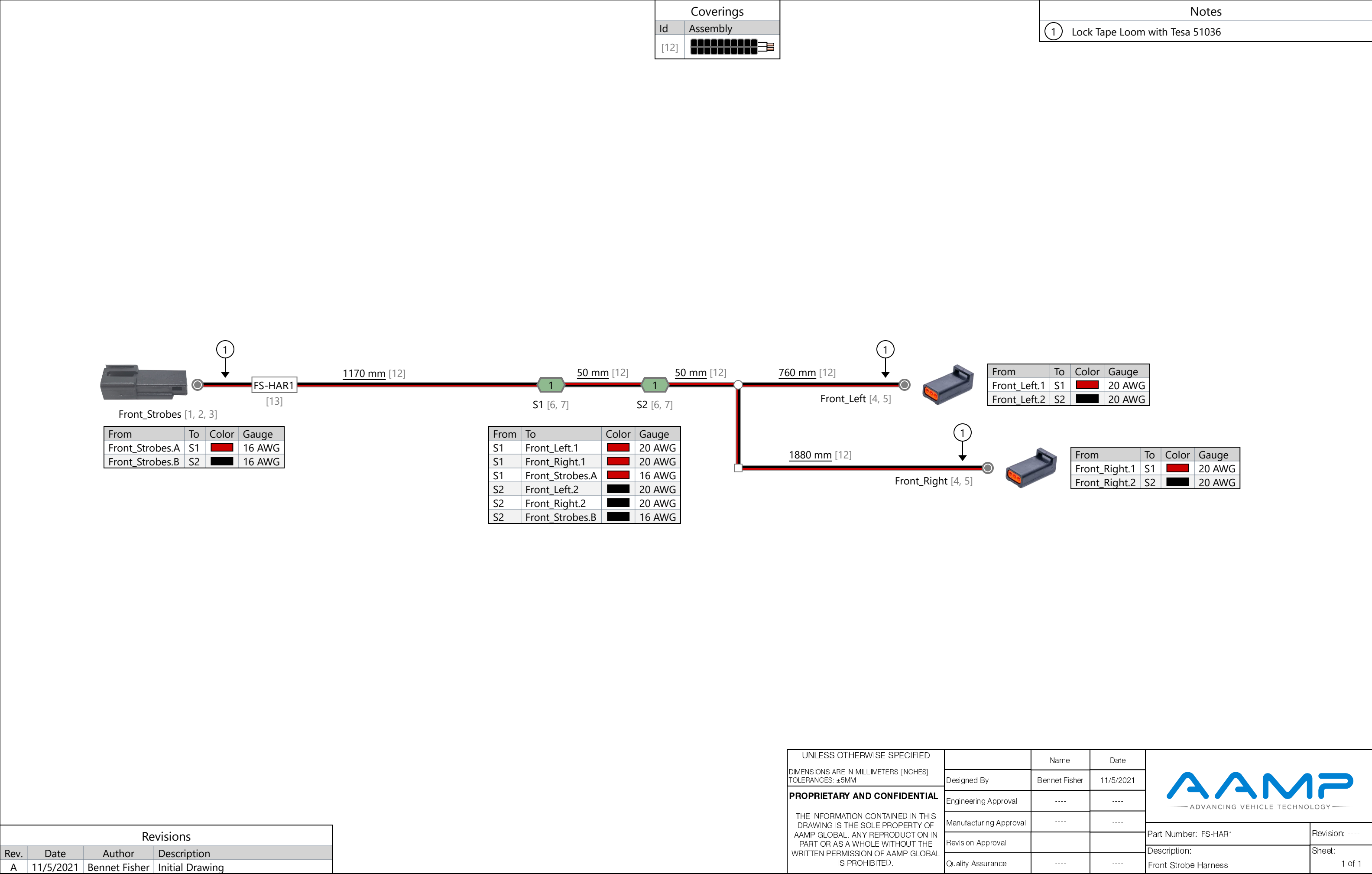


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TOLERANCES & INSPECTION			RELEASE & REVISIONS		
UNLESS OTHERWISE SPECIFIED			INITIAL ECN: 25378		
ALL BEND ANGLES ARE 90 DEGREES			CURRENT ECN: 25378		
ALL DIMENSIONS ARE IN INCHES.			ECN DESCRIPTION:		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION			RELEASE FOR PRODUCTION		
FEATURES	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.			REVISED BY:		
Weld Callouts per AWS					

PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
FS-HAR1 OR 67101
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
	DESIGNED BY: E.BURKE		REVISION LEVEL A
MAT'L USED:	PURCHASED	DESCRIPTION: FRONT STROBE HARNESS 1	
WEIGHT (Lbs.):	0.2	SEGMENT CODE: ELE	PART NUMBER: 67101



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		
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
RS-HAR2 OR 67107
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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PART / PRODUCT IDENTIFICATION			
 ADRIAN STEEL [®]		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	
MAT'L USED: PURCHASED		DESIGNED BY: E.BURKE	
DESCRIPTION: REAR STROBE HARNESS 2			
WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE		PART NUMBER: 67107

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	
N/A	



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TOLERANCES & INSPECTION		PART / PRODUCT IDENTIFICATION			
UNLESS OTHERWISE SPECIFIED		AS ADRIAN STEEL®			REVISION LEVEL
ALL BEND ANGLES ARE 90 DEGREES					A
ALL DIMENSIONS ARE IN INCHES.		MAT'L USED: PURCHASED		DESIGNED BY: A. GARAVALIA	
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		DESCRIPTION: HOOD MOUNTED EXTERIOR STROBE ECCO ED3712AC			
FEATURES		WEIGHT (Lbs.): 1.0 LBS		SEGMENT CODE: EST	
HOLES/SLOTS		PART NUMBER: 78897			
ANGLES					
0.0 = ± .125					
0.00 = ± .062					
0.000 = ± .031					
Material Thickness: per ASTM Std. Weld Callouts per AWS					
RELEASE & REVISIONS		PURCHASED COMPONENT			
INITIAL ECN: 28622		REFERENCED SUPPLIER AND/OR MANUFACTURER ECCO			
CURRENT ECN: 28622		REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER ED3712AC			
ECN DESCRIPTION:		COLOR (ONLY LIST IF COLOR SPECIFIC)			
RELEASE FOR MARKET FILL		COMMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)			
REVISED BY: A. GARAVALIA		NO			