

#### **Introduction / Comments:**

Install Instructions For Exterior Plug & Play Lights For F250+

#### 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 MAN-UAL** (54479) before attempting installation.









Installation Instructions For Exterior Plug And Play Lights For F250+



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\*\*\*TORQUE\*\*\*

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

DO NOT MOUNT ON A CURVED SURFACE



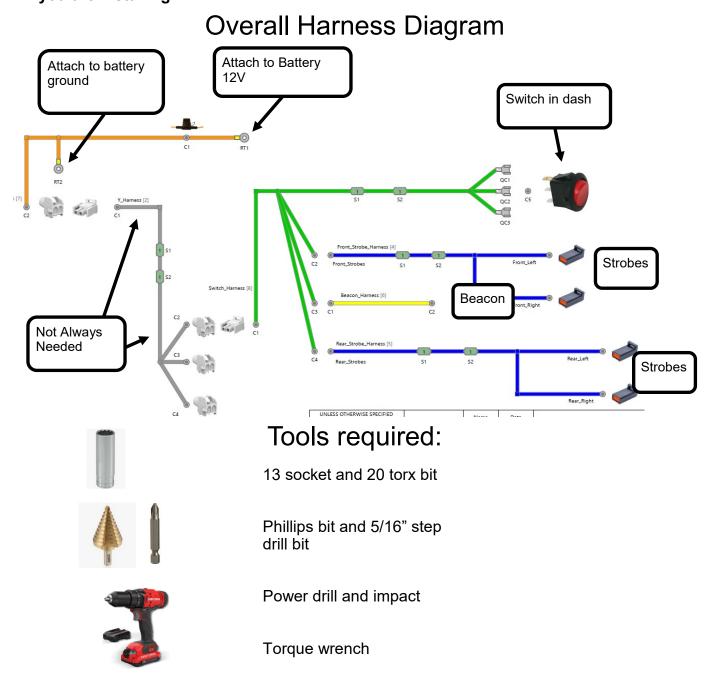
#### \*\*Please read statement below before moving forward\*\*

#### 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.





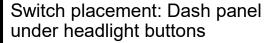
#### Part Number Description Components 67095 Power Harness #4 1 2 67097 Switch Harness #1 Front Strobe 3 67104 Harness #4 (If Applicable) 4 67108 Rear Strobe Harness #3 (If Applicable) 5 67113 Beacon/Lightbar Harness #3 (If Applicable) 6 67686 or 67687 **Strobes** (If Applicable) **Beacons** 7 67689 or 67690 (If Applicable 8 52769 or 56075 Beacon/Lightbar Mount (If Applicable) 9 67691 or 67692 Lightbars or 96118 or (If Applicable) 67693 9

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.

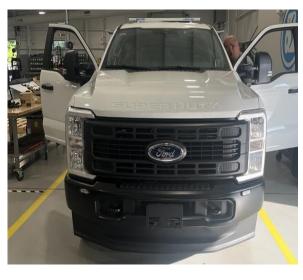


### **Placements**



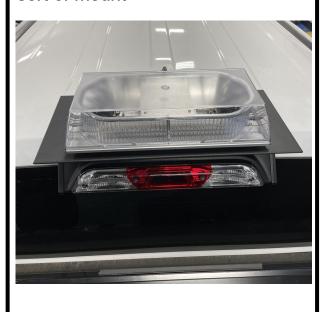


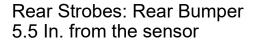
Front Strobes: Grill 1.25 In. from top

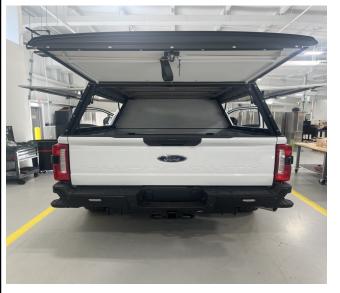


\*\*\*TORQUE STROBES TO 10-IN-LB'S MAXIMUM\*\*\*

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

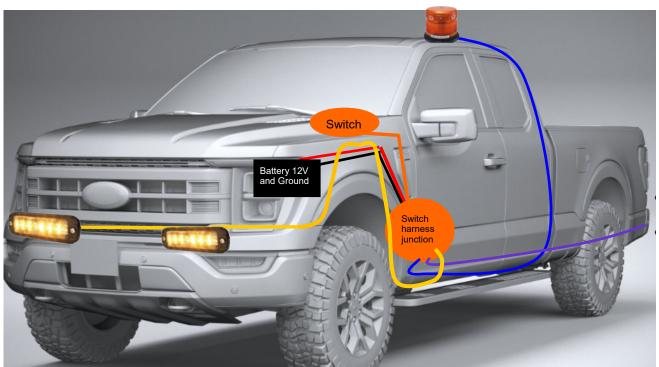


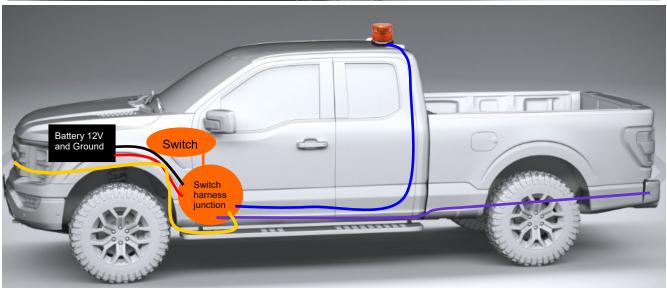






## **Routing Overview**



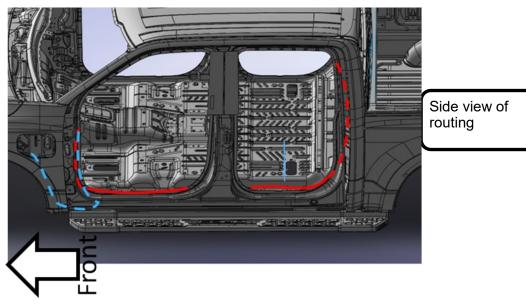


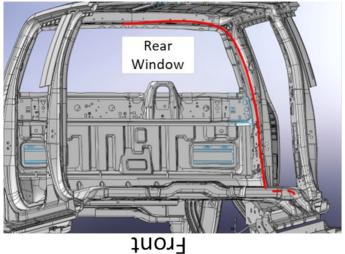
Color	Key - Items
Yellow	Strobes - Front strobe harness #4
Red/Black	Power harness: Battery to kick panel
Orange	Switch harness: Switch in dash
Blue	Beacon harness: Switch to beacon
Purple	Strobes - Rear strobe harness #3

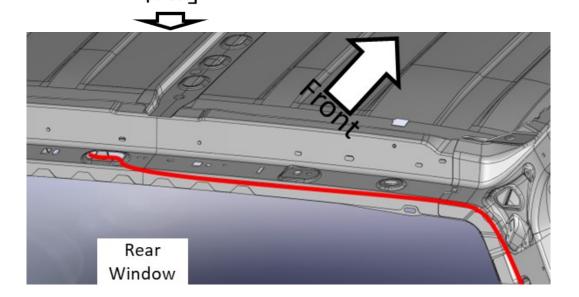




## Overview of Routing-Beacon/Lightbar Wire Harness:

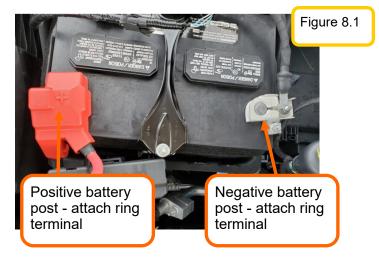






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**Step 1:** Locate the power harness #67095.

Remove the fuse from the inline fuse holder until he 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 along the underside of the cab filter (see figure 8.2 red dotted line) to the firewall. (You can tuck the wiring under the filter and hide it. Figure 8.3.)

#### Step3:

Locate the firewall grommet from underneath the kick panel inside the cab on the driver's side.

Figure 8.4.

Drill a hole (to fit the grommet on the power harness) to the right of BOTH OEM grommets, like shown in figure 8.5.

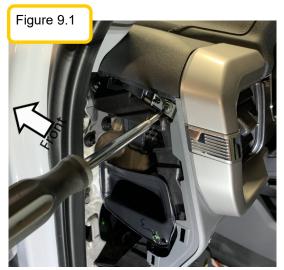
\*\*BE SURE TO CHECK THAT THE OPPOS-ING SIDE OF THE FIREWALL IS CLEAR BEFORE DRILLING.\*\*

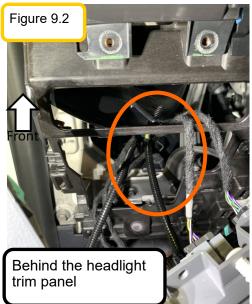
Route the white connector end through the firewall and insert the grommet on the sheet metal.













**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 like shown below.

The hole will be centered in the unused square box above the Emergency brake button. If this spot is un-attainable, move the switch to the right, where it can be located. Be sure the back side of the trim panel is open before drilling the hole. Figure 9.3.

Route the harnesses through the hole

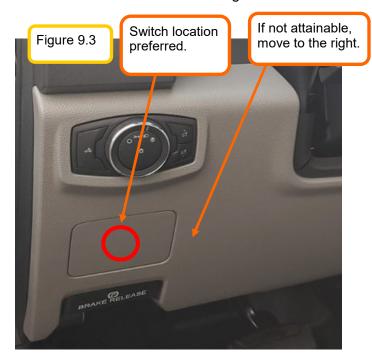
**Step 6:** Connect the ground spade to the gold pin on the rocker switch

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.



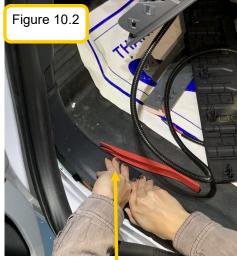
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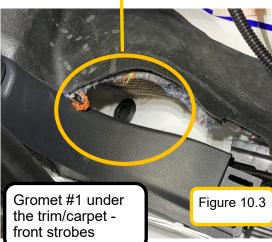


### Strobe Install—If Applicable

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







#### Step 1:

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 10.1.

#### Step 2:

Locate the driver's side door sill area. Figure 10.2.

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

Locate the OEM grommets under the carpet. There will be one right next t the foot sill area and one to the right closer to the driver's seat.

The front strobes will use the one closest to the foot sill and the rear strobes will use the grommet closest to the driver's seat.

Figure 10.3 and 10.4.

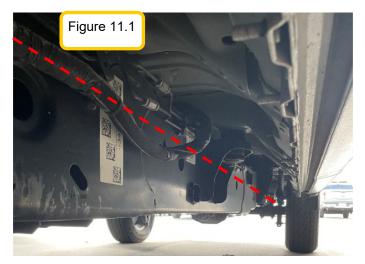
Cut an "X" in the grommet. Route the rear strobe harness through the grommet (by the seat) to the underneath of the vehicle.

Silicone the grommet when done.



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## 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 11.1 and 11.2.

#### **Step 4: Mounting Strobes**

Find the left most reverse senor.

Place the strobes in line with the sensor horizontally (about 1" down from the bumper crease) and 1" over from the sensor. Figure 11.3.

If truck does not have the sensor, measure from the left most edge of the bumper.

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 11.3.

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 ASCO SUPPLIED SCREW AND NUT: FAS0501 and FAS0503 (for rear bumper only—front will use Ecco supplied screws)

Figure 11.4 is a F150 for reference only. Repeat the F250 as close as possible t this reference.

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

Repeat for the right side strobe.

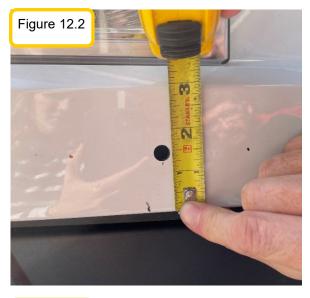


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Measure 1" left of here and place along dashed line (the contour).



#### **Step 7: Mounting Front Strobes**

Locate the left front headlight area.

Measure 1" left of the edge of the bumper. Place the right edge of the strobe on the 1" mark and in line the bumper contour. Figure 12.1.

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

Drill a 3/8" hole for the wire pass through on the strobe. Figure 12.2.

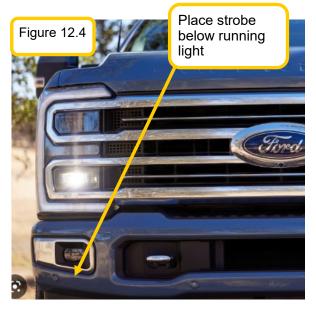
Place the strobes in their desired locations and fasten them onto the grill with the supplied screws. Figure 12.3.

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

Repeat for the other side strobe.

Note that if the truck comes with running lights, place the strobes below them. Figure 12.4 for reference.



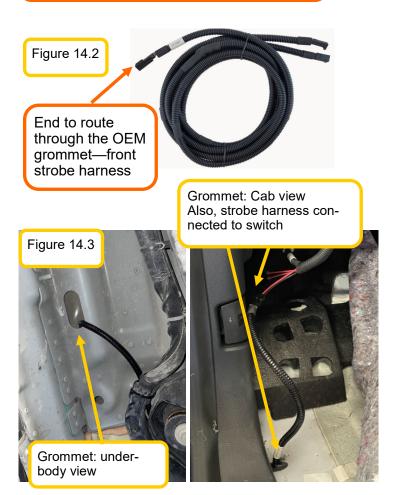


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Point of view in pictures: Laying under the front bumper looking up toward the backside of the bumper



Step 5: Locate the front strobe harness #67104.

Start by placing the harness strobe ends at each strobe location, beneath the vehi-

Connect the passenger side strobe to the harness. Then follow the OEM harness that runs beneath the grill over the driver's side. Zip tie the harness to the OEM harness. See figure 14.1 for routing.

Note: You can best see the OEM harness and routing by laying under the vehicle front the front end.

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

Connect the second connector to the driver's side strobe.

#### Step 6:

Start by routing the inside connector end of the harness to the firewall. Figure 14.2.

Locate the grommet by the driver's foot sill in the cab area (found previously on page 11)

Route the harness down to the underneath of the vehicle, following the OEM harnesses.

Cut and X in the grommet and route the connector though. Figure 14.3.

Connect the front strobe harness to the switch harness (one of the remaining unused connectors) in the driver's foot well. Figure 14.4.

Secure wiring with zip ties. Silicone the grommet. Figure 14.5.





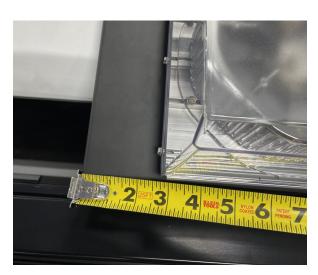


#### Beacon/Lightbar Install—If Applicable

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.

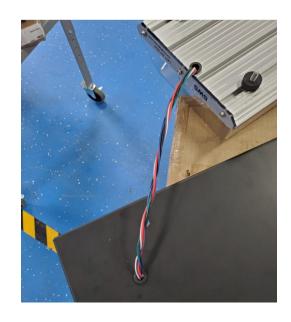
Note: Lightbar (SWS Apollo ) in pictures is for reference only.

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).

Silicone the grommet/pass thru wiring.

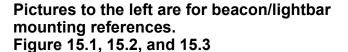














Step 2: Disconnect OEM Light
Using a torx T20 bit, remove the 4
screws holding the 3rd brake light to the
CHMSL. Figure 15.4.

Remove the OEM light from the CHMSL and disconnect the OEM harness clip. Figure 15.5.

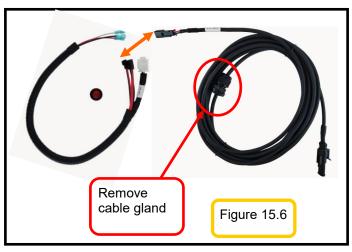
#### Step3:

Locate the beacon/lightbar harness (67113).

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 15.6.

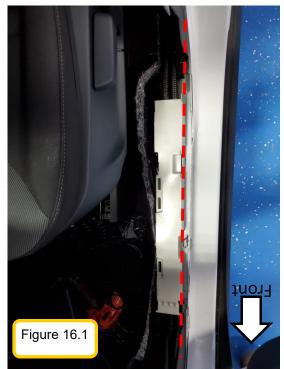




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## Beacon/Lightbar Install—If Applicable



## 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 16.1 and 16.2.

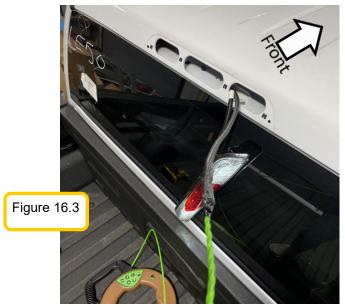
#### \*\*BE SURE TO AVOID ALL SEAT BELT RETEN-SIONERS\*\*

**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 16.3.

Make sure harness is tucked head liner and C pillar trim. Figure 16.4.

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











# Figure 17.2 Figure 17.3





#### **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 17.1, 17.2, and 17.3.

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.

Re-connect all the OEM light wiring and attach the light back to the Acari mount/ vehicle. Figure 17.4.



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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 quanity 21093C = 100 quanity

SPECIAL NOTES: PART NUMBER IS BLACK.

#### **SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!**

#### **PURCHASED PRODUCT DATA SHEET (PPDS)**

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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	DATE DRAWN		
MDG	10/26/2006		
ECN NUMBER	ECN DATE		
18021	11/13/2015		
PART WEIGHT	REV. LEVEL		
0.01 LBS.	D		
PART NUMBER 13905-0			

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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DRAWN BY JLC	DATE DRAWN 7/21/2001
ECN NUMBER 16551	ECN DATE 7/22/2014
PART WEIGHT	REV. LEVEL
0.02 LBS.	С
PART N	IUMBER

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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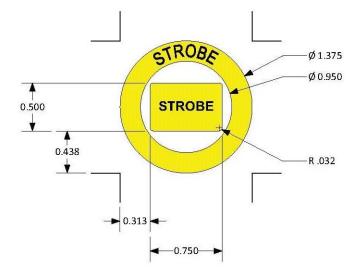
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DRAWN BY JLC	DATE DRAWN 7/21/2001
ECN NUMBER 16551	ECN DATE 7/22/2014
PART WEIGHT	REV. LEVEL
0.02 LBS.	С
PART N	IUMBER

26618-0

#### 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	ECN DATE		
XXXX	XXXXXX		
PART WEIGHT 0.02 LBS.	REV. LEVEL  A		
PART NUMBER			

55073

HILLIARD, OHIO USA SHEET 1 OF LABEL, STROBE TXT, .95ID ROUND SWITCH DATE DRAWING/ PART NO. CHKIDATE \$1.375 .x ± .025 .xx ± .015 .xxx ± .005 REV CABLES DRN/DATE MEO TOL. LABEL/ METAL STROBE WITHOUT THE EXPRESS WRITTEN CONSENT OF VANINER INC. IT IS PROVIDED SOLELY FOR THE CONVENIENCE OF THE USER AND SHALL BE RETURNED UPON REQUEST. THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF VANNER INC. AND MAY NOT BE COPIED, REPRODUCED OR DIVULGED TO UNAUTHORIZED PERSONS X REA/ECO NO.: 2. ARTWORK FROM D91XXXX-A PAGE 1, PMS BLACK 1. MATERIAL: .002 YELLOW POLYESTER 3. .001 OVERLAMINATE NON 4. ADHESIVE BACKED SCALE:

Page 2 of 1

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DRAWN BY	DATE DRAWN
RJB	11/15/2017
ECN NUMBER	ECN DATE
XXXX	XXXXXXX
PART WEIGHT	REV. LEVEL
0.02 LBS.	Α
PART N	UMBER

55073

LOC | QTY | Part # | Description | Size

Material: IJ39 | Lamination: 8518

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

DISTILL DISTILL
GRAPHIC SOLUTIONS
GRAPHIC SOLUTIONS

STROBE

DISTILL SOLUTIONS



Note: Part will not be weeded, just cut.

Kit# 8001872 | Adrian Steel Part # 55073

**O6/O1/2O23** • **JY** 2022 DISTYLL Graphics Solutions. All rights reserved.

ASCO REV.1 6/14/2023

CLIENT NAME:		Switch Decals	O-ID: O15319-1	
DISTYLL  GRAPHIC SOLUTIONS	Adrian Steel  DATE: DESIGNER:			Rev #: XXXX
FINAL DESIGN	O5/31/2O23	TRN		Opt #: A

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.

**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

 $0.0 = \pm .062$   $0.00 = \pm .031$ 

 $0.000 = \pm .015$ Material Thickness: per ASTM Std. Weld Callouts per AWS

#### **RELEASE & REVISIONS**

22671 **INITIAL ECN:** 

**CURRENT ECN:** 22671

ECN DESCRIPTION:

REVISED BY: EMS

**RELEASE TO PRODUCTION** 

## **PURCHASED** COMPONENT

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 REFERANCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.) NO

PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

## **ADRIAN STEEL**

ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221

**REVISION LEVEL** 

MAT'L USED:

DESIGNED BY: EMS

PART / PRODUCT IDENTIFICATION

Clip, Black UV Tie, HellermannTyton

WEIGHT (Lbs.): 0.5

SEGMENT ELE

**DESCRIPTION OF REQUIREMENTS** 

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

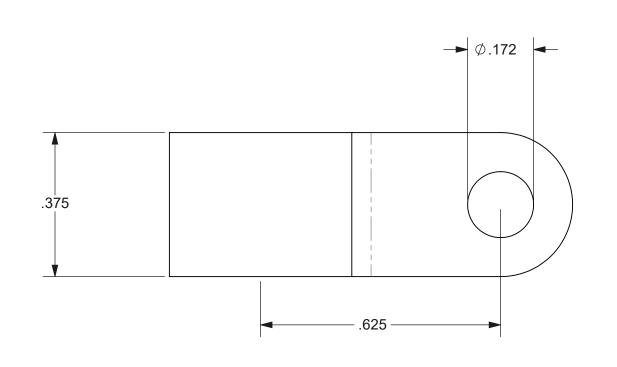
N/A

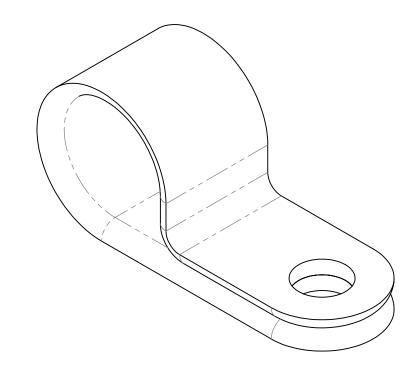
PACKAGING REQUIREMENT

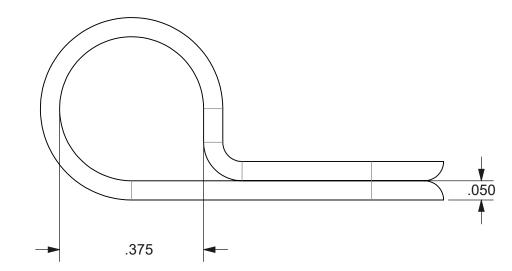
N/A

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

HOLES/SLOTS  $0.0 = \pm .062$   $0.00 = \pm .031$ 

 $0.000 = \pm .015$ 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:

ANGLES

## **PURCHASED** COMPONENT

MCMASTER-CARR OR EQUIVALENT

8876T38 OR EQUIVALENT

COLOR (ONLY LIST IF COLOR SPECIFIC) **BLACK** 

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

PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

#### **ADRIAN STEEL**

ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221

PART / PRODUCT IDENTIFICATION

**REVISION LEVEL** 

MAT'L USED:

DESIGNED BY: E.BURKE

**Nylon Plastic Loop Clamp** 

SEGMENT CODE: 0.001 **HDW** 

**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

 $0.0 = \pm .062$   $0.00 = \pm .031$ 

 $0.000 = \pm .015$ 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 67095 OR PWR-HAR4

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

## **(1)**

**ADRIAN STEEL** 

ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221

**REVISION LEVEL** 

MAT'L USED:

**PURCHASED** 

DESIGNED BY: E.BURKE

PART / PRODUCT IDENTIFICATION

**POWER HARNESS EXTERIOR 4** 

WEIGHT (Lbs.): **0.2** 

SEGMENT ELE

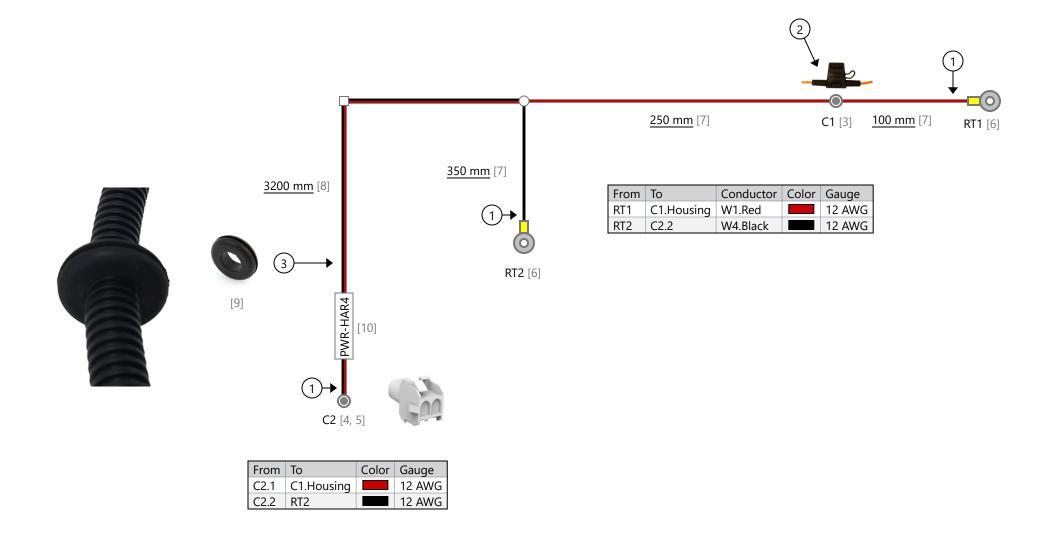
Coverings

Id Assembly

[7]

Notes

- 1) Lock Tape Loom with Tesa 51036
- (2) Add 15A Mini Fuse
  - Add rubber grommet over harness loom; 150mm behind C2



UNLESS OTHERWISE SPECIFIED		Name	Date	
DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM	Designed By	Bennet Fisher	11/5/2021	
PROPRIETARY AND CONFIDENTIAL	Engineering Approval			
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF	Manufacturing Approval			
AAMP GLOBAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	Revision Approval			Part N Descri
WRITTEN PERMISSION OF AAMP GLOBAL IS PROHIBITED.	Quality Assurance			Exterio

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
Part Number: PWR-HAR4	Revision:
Description:	Sheet:

Revisions			
Rev.	Date	Author	Description
Α	11/5/2021	Bennet Fisher	Initial Drawing

**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

 $0.0 = \pm .062$   $0.00 = \pm .031$ 

 $0.000 = \pm .015$ 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 REFERANCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

PRINTED DOCUMENT IS UNCONTROLLED

PART / PRODUCT IDENTIFICATION



## **ADRIAN STEEL**

ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221

**REVISION LEVEL** 

Sheet 1 of 1

MAT'L USED:

**PURCHASED** 

DESIGNED BY: E.BURKE

**SWITCH HARNESS 1 EXTERIOR LIGHTING** 

WEIGHT (Lbs.): **0.2** 

SEGMENT ELE

Coverings

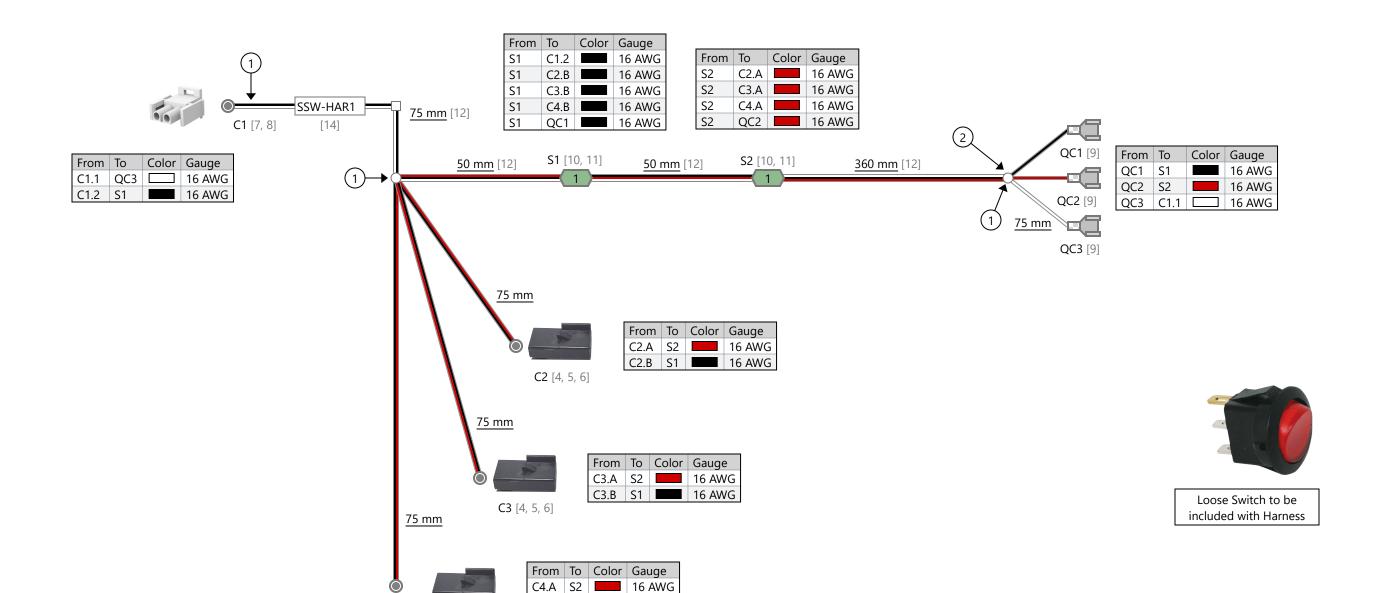
Id Assembly

[12]

Notes

1) Lock Tape Loom with Tesa 51608

(2) 75mm between end of loom and Quick Connects



C4.B S1 16 AWG

UNLESS OTHERWISE SPECIFIED		Name	Date	
DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM	Designed By	Bennet Fisher	11/5/2021	
PROPRIETARY AND CONFIDENTIAL	Engineering Approval			
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ADVANCING VEHICLE TECHNO	
Part Number: SSW-HAR1	Revision:
Description:	Sheet:
Strobe Switch Harness - 3 Outputs	1 of 1

Revisions				
Rev.	Date	Author	Description	
Α	11/5/2021	Bennet Fisher	Initial Drawing	

**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

 $0.0 = \pm .062$   $0.00 = \pm .031$  $0.000 = \pm .015$ 

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 FS-HAR4 OR 67104

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

## 

## **ADRIAN STEEL**

ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221

**REVISION LEVEL** 

MAT'L USED:

**PURCHASED** 

DESIGNED BY: E.BURKE

**PART / PRODUCT IDENTIFICATION** 

**FRONT STROBE HARNESS 4** 

WEIGHT (Lbs.): **0.2** 

SEGMENT ELE

360 mm [12] To Color Gauge 2800 mm [12] <u>50 mm</u> [12] <u>50 mm</u> [12] FS-HAR4 Front\_Left.1 S1 20 AWG Front\_Left.2 S2 20 AWG Front\_Left **S**1 S2 Front\_Strobes To Color Gauge Color Gauge From To Front\_Strobes.A S1 16 AWG 20 AWG Front\_Left.1 From To Color Gauge
Front\_Right.1 S1 20 AWG 1070 mm [12] Front\_Strobes.B S2 16 AWG Front\_Right.1 20 AWG Front\_Strobes.A 16 AWG Front\_Right Front Right.2 S2 20 AWG Front\_Left.2 20 AWG Front\_Right.2 20 AWG Front\_Strobes.B 16 AWG UNLESS OTHERWISE SPECIFIED Name Date DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM Bennet Fisher 03/15/2022 Designed By PROPRIETARY AND CONFIDENTIAL **Engineering Approval** THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF Manufacturing Approval AAMP GLOBAL. ANY REPRODUCTION IN Revisions Part Number: FS-HAR4 Revision: A PART OR AS A WHOLE WITHOUT THE **Revision Approval** Description Date Author Sheet: WRITTEN PERMISSION OF AAMP GLOBAL Description: 11/5/2021 Bennet Fisher Initial Drawing IS PROHIBITED. **Quality Assurance** Front Strobe Harness A 3/15/2022 Bennet Fisher Updated Part Number from FS-HAR5 to FS-HAR4

Coverings

Assembly

Notes

Lock Tape Loom with Tesa 51036

Bill of Materials

ld Type

12 Corrugated Tubing

Manufacturer | Part Number

Quantity

0.25" Nylon Split Wall 4330 mm

**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

 $0.0 = \pm .062$   $0.00 = \pm .031$  $0.000 = \pm .015$ 

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-HAR3 OR 67108

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

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Sheet 1 of 1

**REVISION LEVEL** 

# 

## **ADRIAN STEEL**

ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221

MAT'L USED:

**PURCHASED** 

DESIGNED BY: E.BURKE

**PART / PRODUCT IDENTIFICATION** 

**REAR STROBE HARNESS 3** 

WEIGHT (Lbs.): **0.2** 

SEGMENT ELE

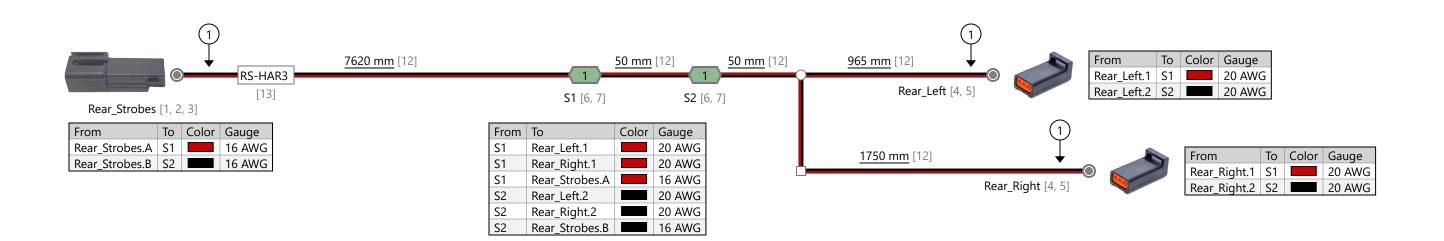
Coverings

Id Assembly

[12]

Notes

1 Lock Tape Loom with Tesa 51036



	UNLESS OTHERWISE SPECIFIED		Name	Date	
	DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM	Designed By	Bennet Fisher	11/5/2021	1
	PROPRIETARY AND CONFIDENTIAL	Engineering Approval			
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF	Manufacturing Approval			Ŀ
	WRITTEN PERMISSION OF AAMP GLOBAL	Revision Approval			Pa De
		Quality Assurance			Re

Part Number: RS-HAR3

Description:

Rear Strobe Harness

ADVANCING VEHICLE TECHNOLOGY

Revision: ---
Sheet:

1 of 1

Revisions				visions
	Rev.	Date	Author	Description
	Α	11/5/2021	Bennet Fisher	Initial Drawing

**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

**ECCO STROBE LIGHT: ED3801** WITH EXTERIOR PLUG AND PLAY CONNECTOR





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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

HOLES/SLOTS  $0.0 = \pm .062$   $0.00 = \pm .031$  $0.000 = \pm .015$ 

Material Thickness: per ASTM Std. Weld Callouts per AWS

#### **RELEASE & REVISIONS**

INITIAL ECN: 25921

CURRENT ECN: 25921

ECN DESCRIPTION:

**RELEASE TO PRODUCTION** 

REVISED BY: N/A

## **PURCHASED COMPONENT**

REFERENCED SUPPLIER AND/OR MANUFACTURER **ECCO** 

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

ED3801A-ADR COLOR (ONLY LIST IF COLOR SPECIFIC)

AMBER LED/CLEAR LENS COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERANCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

PRINTED DOCUMENT IS UNCONTROLLED

PART / PRODUCT IDENTIFICATION

## **ADRIAN STEEL**

ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221



Sheet 1 of 1

MAT'L USED: PURCHASED

DESIGNED BY: EMB

**ECCO STROBE ED3801A W/CON** 

WEIGHT 0.5

SEGMENT EST