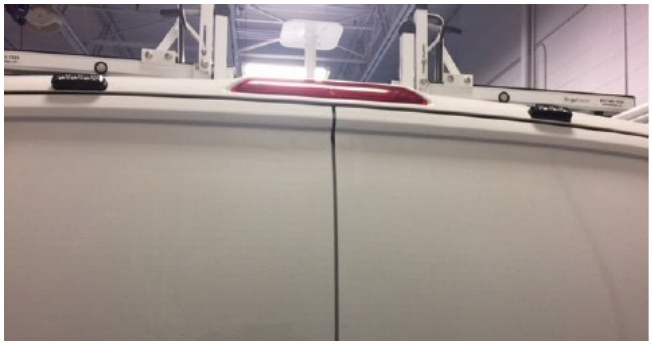
Introduction / Comments:

Install Instructions For Exterior Plug & Play Lights For Transit

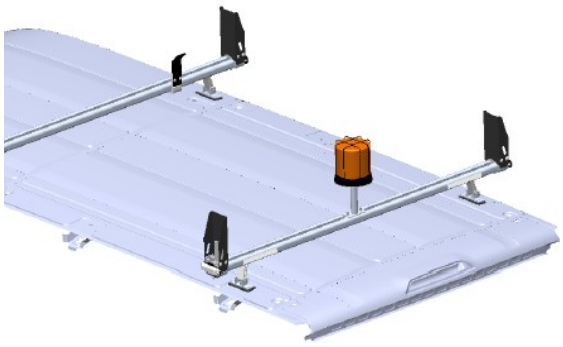
Note:

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 Transit

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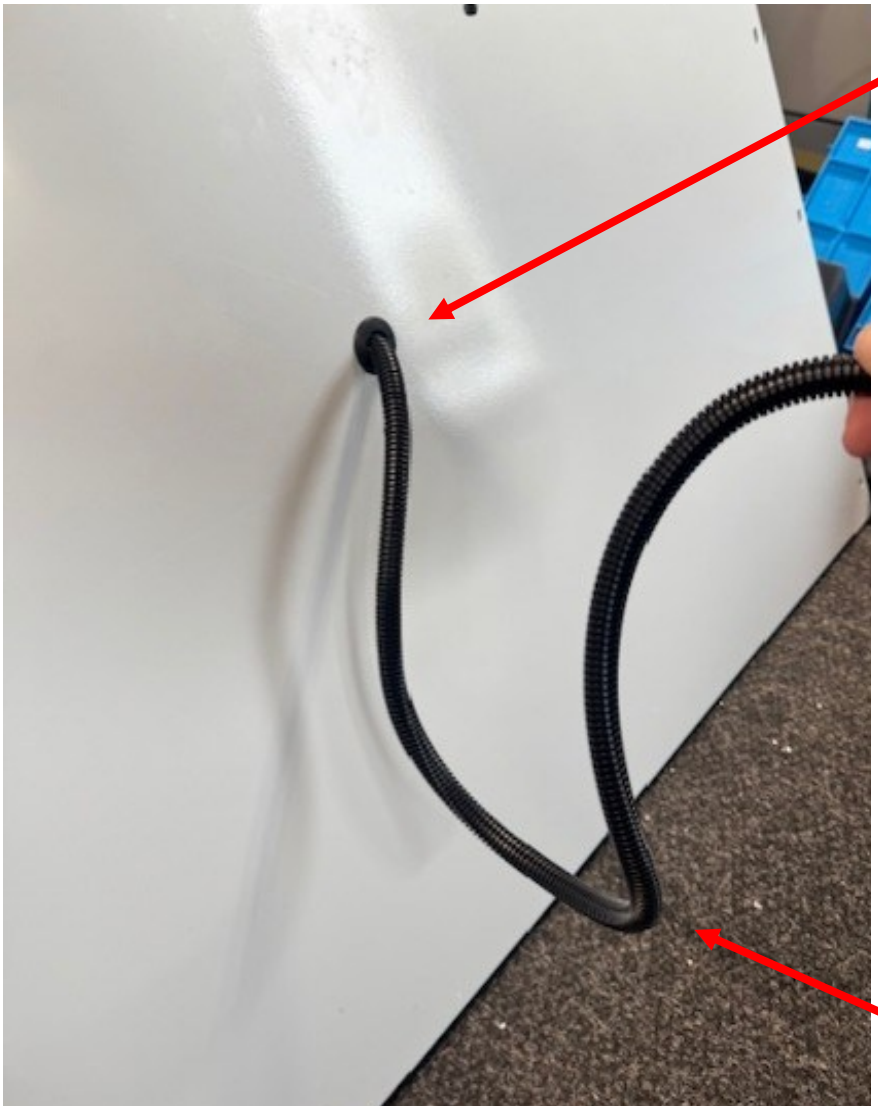
*****TORQUE*****
Torque all strobe fasteners to 10 in-lbs.
DO NOT OVER TIGHTEN

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.



Please read statement below before moving forward

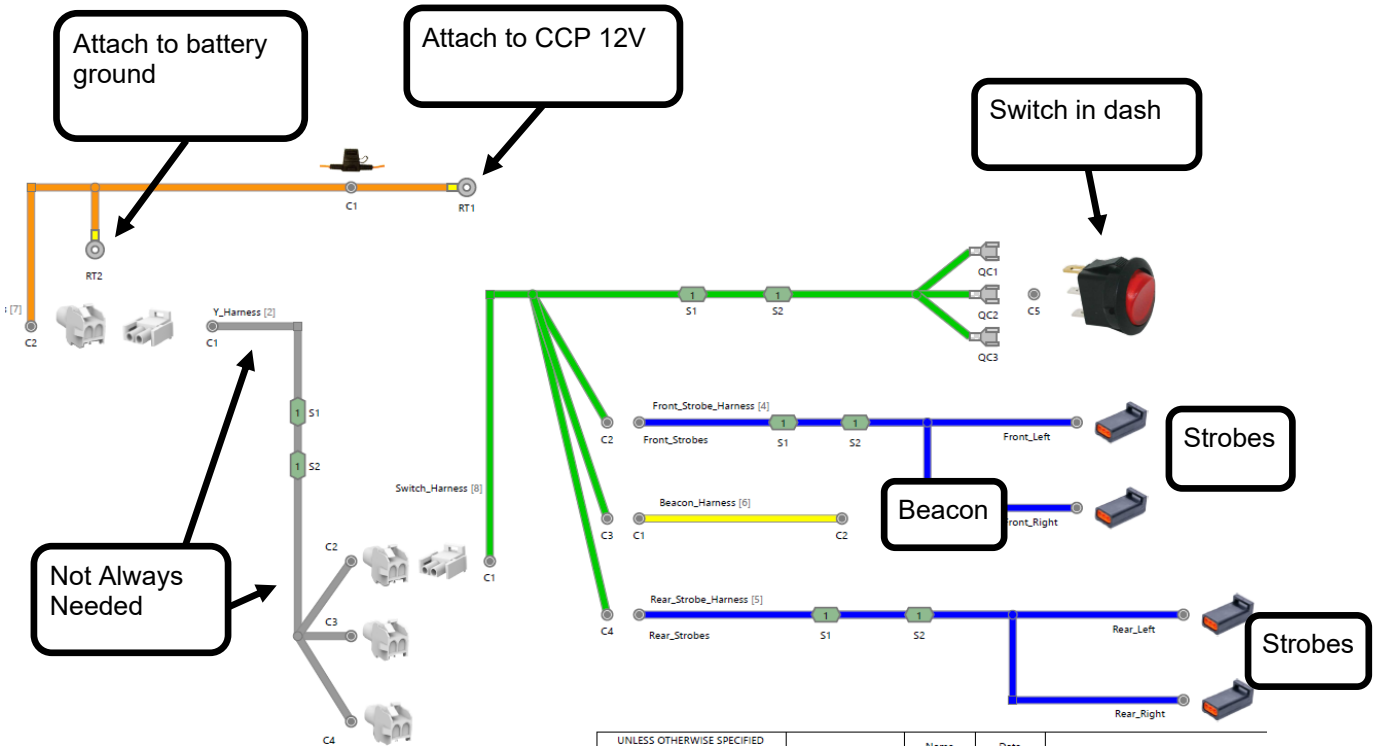
Before installation, disconnect the OEM negative battery cable.

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:



13mm and 10mm socket



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



Power drill and impact

Torque wrench

Components



	Part Number	Description
1	67092	Power Harness #1
2	67098	Switch Harness #2
3	67102	Front Strobe Harness #2 (If Applicable)
4	67109	Rear Strobe Harness #4 (If Applicable)
5	67114 or 67115	Beacon/Lightbar Harness #4 or 5 (If Applicable)
6	67686 or 67687	Strobes (If Applicable)
7	64531	Strobe Brackets (If applicable)
8	67689 or 67690	Beacons (If Applicable
9	51545	Beacon Ladder rack Mount (If Applicable)
10	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: Under Steering Wheel



Front Strobes: Outside Of Grill

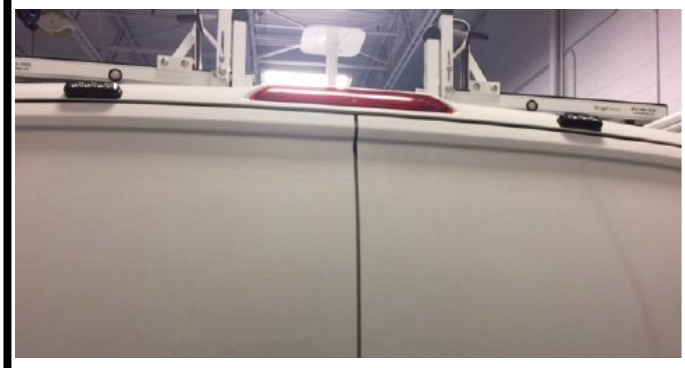


*****TORQUE STROBES TO 10-IN-LB'S MAXIMUM*****

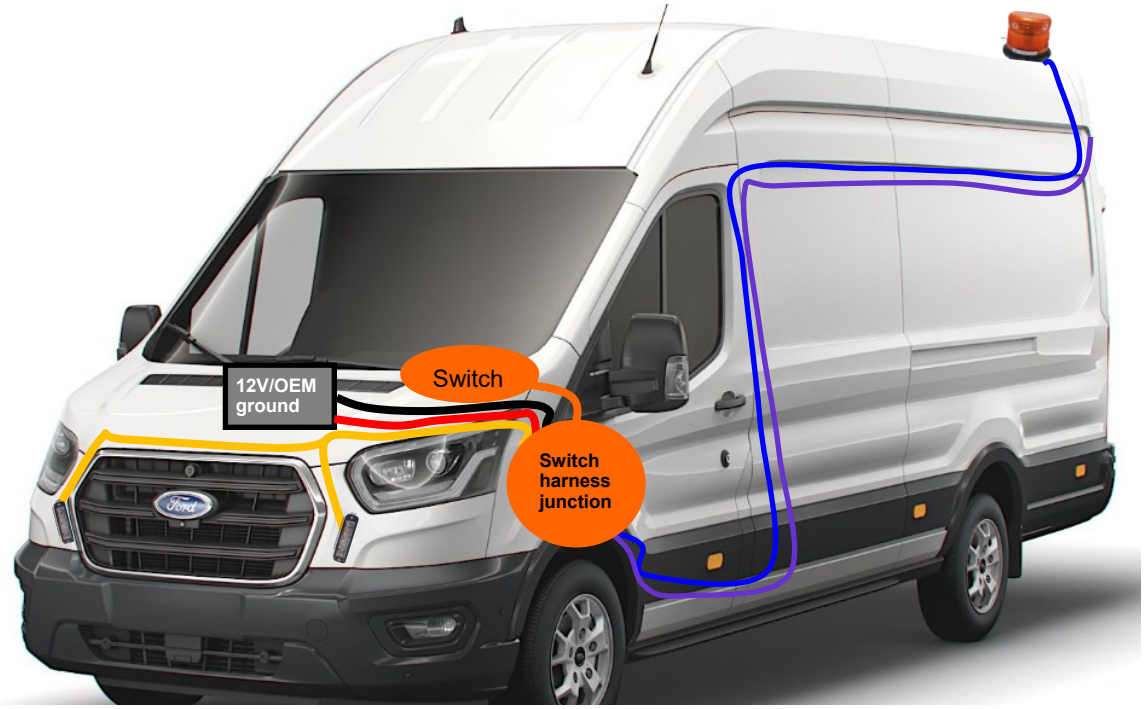
Beacon or Lightbar: On Roof (Or ladder rack)

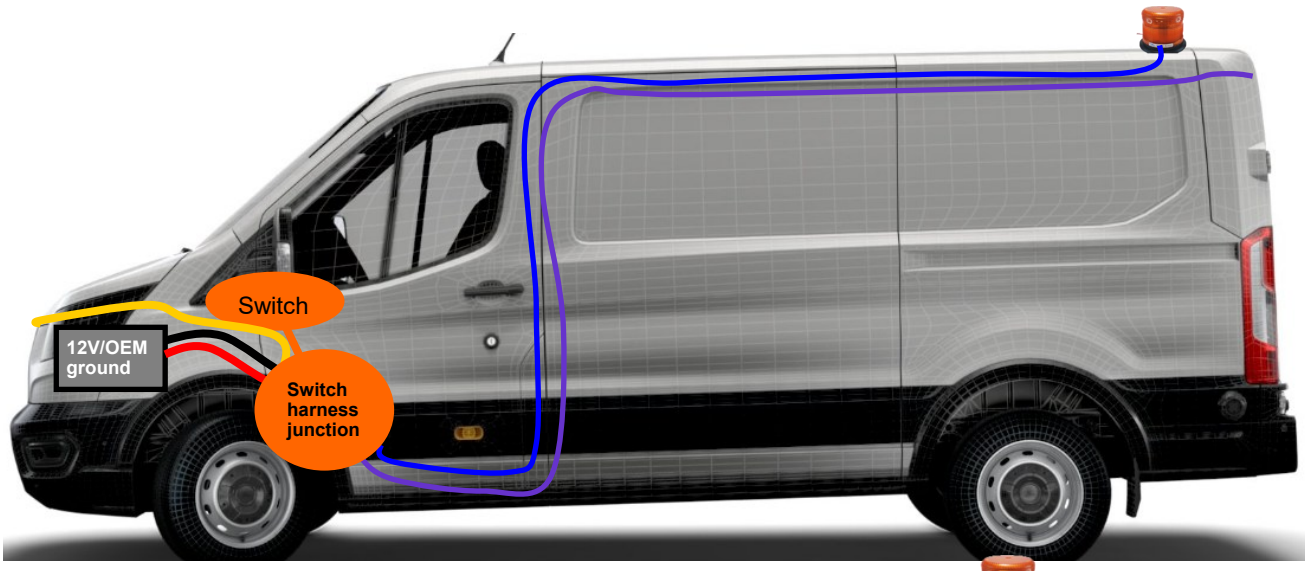


Rear Strobes: Above Rear Door



Routing Overview





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



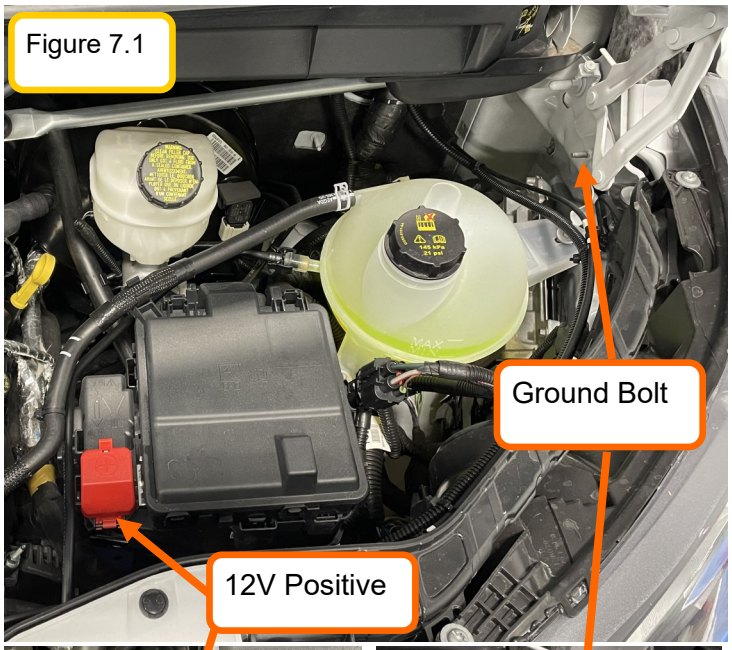


Figure 7.1

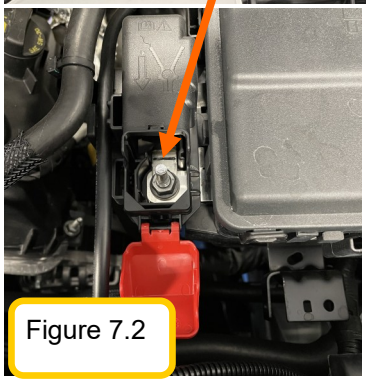


Figure 7.2

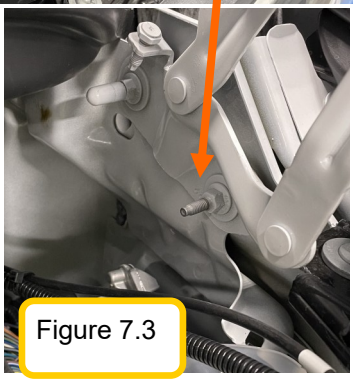


Figure 7.3


Figure 7.4

Reference Pg. 3 for how to route through the firewall.

Step 1: Locate the power harness #67092.

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

Under the hood:
Locate the 12V Power point on the fuse block and the OEM ground bolt on the driver's side body frame. Figure 7.1.

Step 2:
Attach the red wire with the ring terminal to the 12V positive post. Figure 7.2.

Attach the black wire with the ring terminal to the OEM ground post.
Figure 7.3.

Route the white connector end towards the cab and locate the OEM grommet (to the cab).
Figure 7.4.
Secure with zip ties.

Step 3:
Cut/drill a hole in the grommet to route the power harness through.

****If you are installing strobes on this install route the strobe harness interior connector in through the grommet at this time as well. Refer to page 11 for routing strobe instructions.**
Figure 7.5 for connector reference.

Silicone the grommet holes/wiring once all harnesses have been routed through. Make sure to have a drip loop.

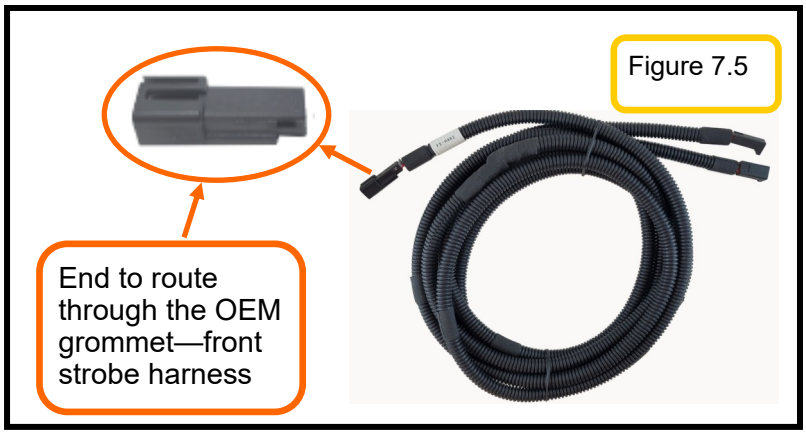


Figure 7.5

Power harness

Switch Harness



Figure 8.1

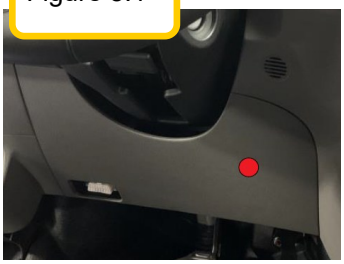


Figure 8.2



Figure 8.3

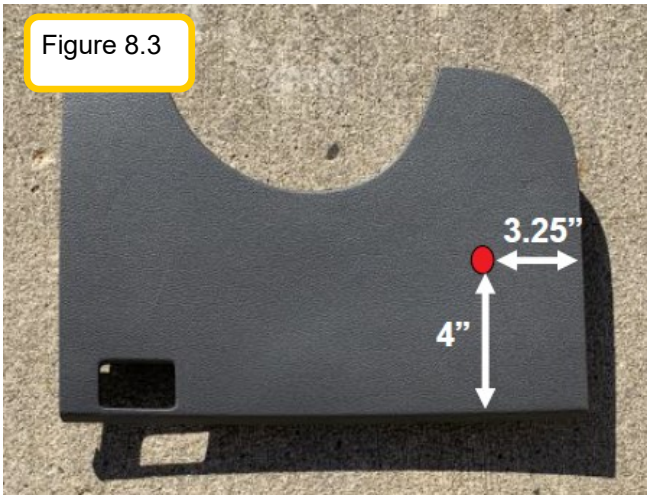
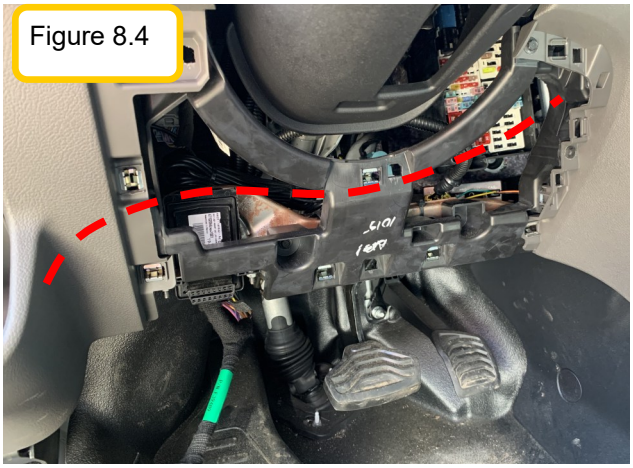


Figure 8.4



Step 4: Locate the switch harness #67098

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

Remove the knee bolster beneath the steering wheel. Figure 8.1 and 8.2.

Drill a hold in the trim panel for the switch: The button location is 3.25” from the right side edge and 4” above the bottom edge of the knee bolster panel.

A hole diameter of 3/4” (19mm) is necessary to install the snap in switch (do not insert switch yet).
Figure 8.3.

If an inverter switch is already in this place, move the strobe switch to the left of the inverter switch, directly in line with it.

Route the switch end of the switch harness under the steering column behind the panel and through the opening in the trim panel. AVOID MOVING/ROTATING OBJECTS.
Figure 8.4 and 8.5.
Secure with zip ties.

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

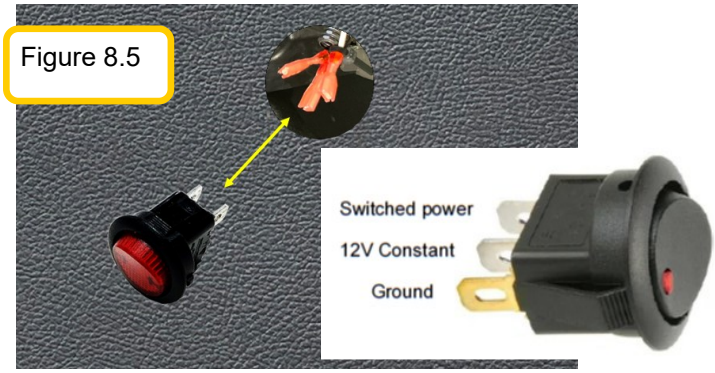
Connect the white battery power spade to the opposite terminal on the switch.

Connect the red spade to the middle pin.

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

Reassemble all trim and secure wiring.

Figure 8.5



Strobe Install—If Applicable

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


Figure 9.1

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

Locate the rear strobe harness #67109.

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

Step 2:
Locate the driver's side door sill area.
Figure 9.2.

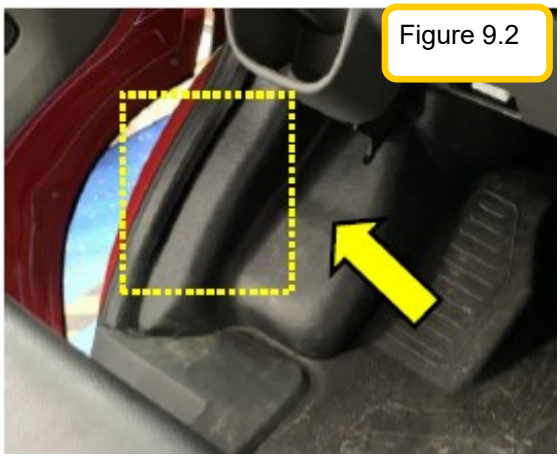


Figure 9.2

Carefully pull the rubber door trim up and route the strobe harness down to the floor.
Figure 9.3.

Replace the rubber trim back into its original position.

Continue routing the harness down to the floor, under the sill trim, and under the driver's seat.
See figure 9.4 for the routing path.

Re-insert trim that may have been pulled up after routing.

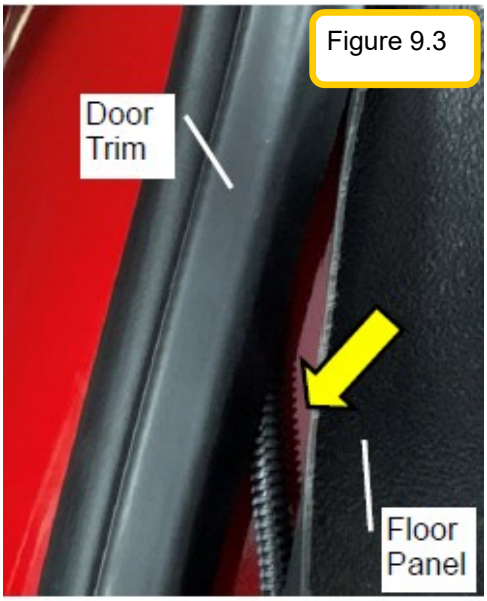


Figure 9.3


Figure 9.4

Figure 10.1



Measure from here

8”

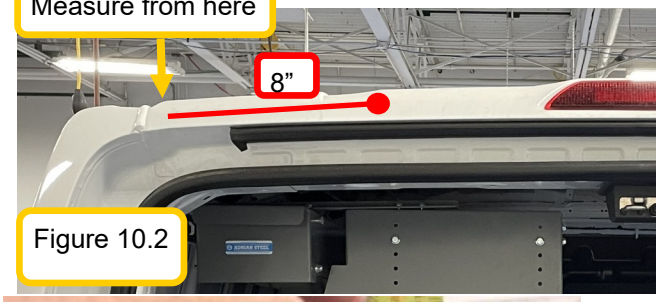


Figure 10.2

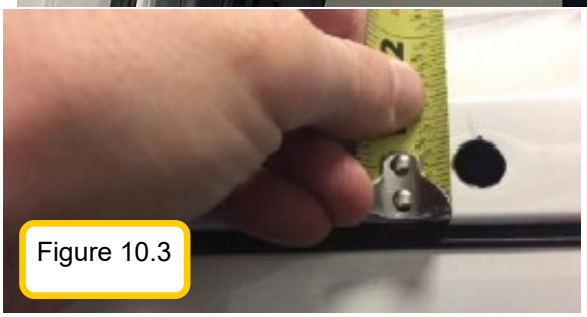


Figure 10.3



Figure 10.4

Strobes may be different than shown in pictures



Figure 10.5

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

Route the strobe harness up the backside of the partition and rearward following the OEM harness. The first strobe connection will be made in the top driver’s side D-pillar—circled in green. The second connection will be made in the top passenger side d-pillar, also circled in green. Figure 10.1.

Step 4: Mounting Strobes
Locate the rear side doors (outside of van). Measure and mark 8 inches right from the driver’s side roof panel protrusion and 0.5 inches above the lower lip. If the bracket is not fitting perfectly with the contour of the van, move it down until it does. This will be the center of the strobe.
Figures 10.2 and 10.3..

Drill a 1/2” hole for the wire pass through of the strobe. Figure 10.3.

Step 5: Locate the rear strobe bracket. Route the strobe light connector through the bracket and provided 3/8” grommet (34238-0) and attach it to the strobe harness. Figure 10.4.

Silicone the grommet hole opening and apply a small amount of silicone on the back of the bracket (van body side) around the hole.
Tape up the non-needed blue or yellow wire on the strobe.

Use the supplied 6–20X1.5” tek screws (FAS0476) to attach the strobe to the bracket, and mount it to the body of the van.

Be sure to silicone the wire hole and the put a small dab of silicone in the screw holes before completely mounting the strobe.

Place the strobes in their desired locations and fasten them onto the bumper with the supplied screws. You may want to drill pilot holes for ease of install.
Figure 10.5.

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

Repeat for the passenger side strobe.



Figure 11.1

Step 5: Locate the front strobe harness #67102.

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

Figure 11.2



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

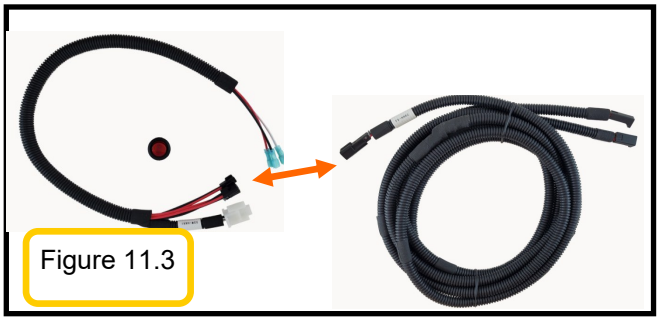


Figure 11.3

Step 6:
Route the strobe connector ends to the each of the strobes. Follow the routing path shown in red in figures 11.4 and 11.5.

Secure wiring with zip ties.
Figure 11.6.

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

Figure 11.6

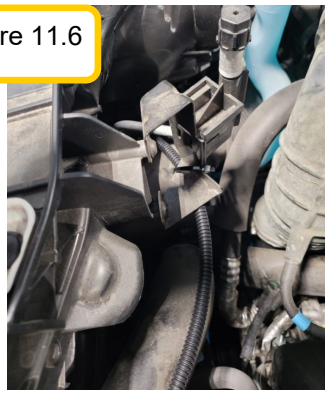


Figure 11.4

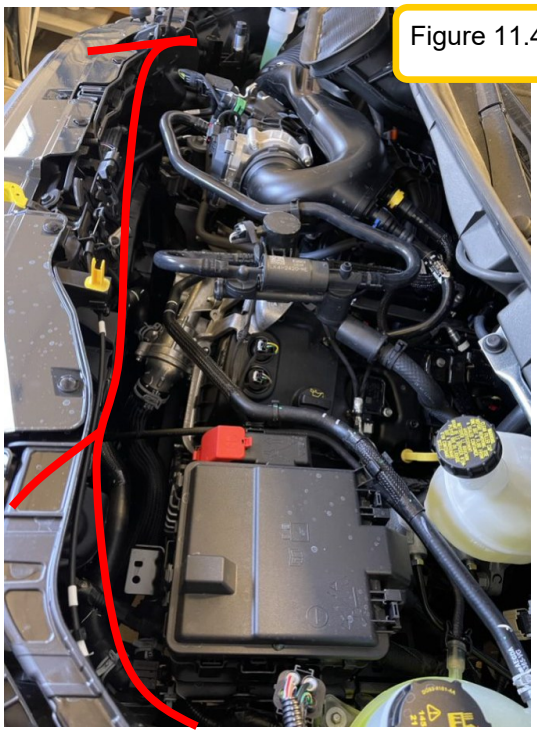
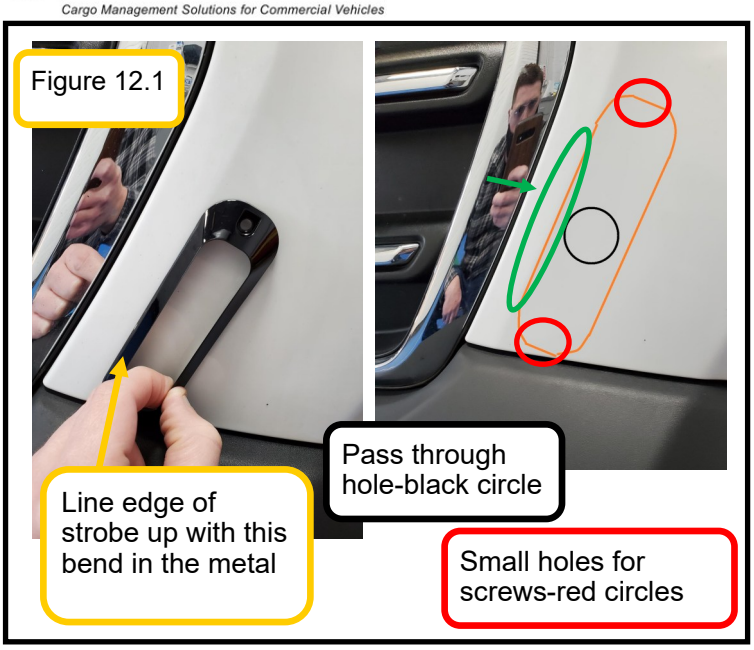
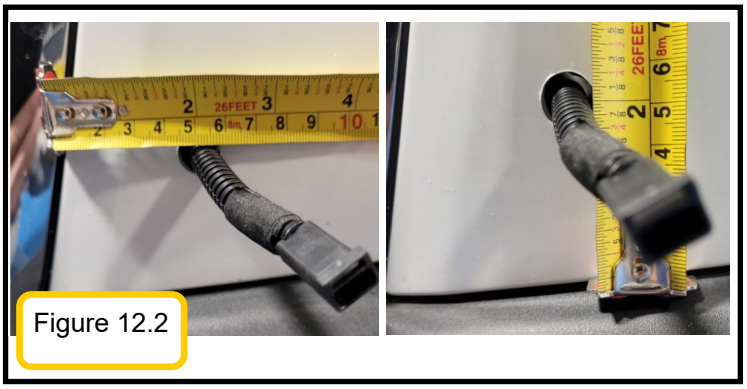
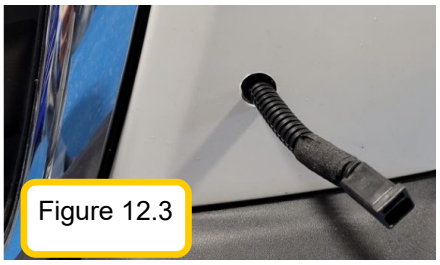


Figure 11.5











Step 7: Mounting Front Strobes
Locate the van front grill.

On the driver's side: Place the strobe on the lowest point of the contour, parallel with the bend in the sheet metal. See figurers 12.1 and 12.2 for placement. This should be around 2" right of the headlight edge and 2" up from the bumper trim.

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

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

Route the strobe harness connectors through the holes.
Figure 12.3.

Only silicone the holes on the inside of the vehicle.
DO NOT SILI-CONE ON THE OUTSIDE OF THE VEHICLE.

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

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

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

Repeat for the other side strobe.

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.

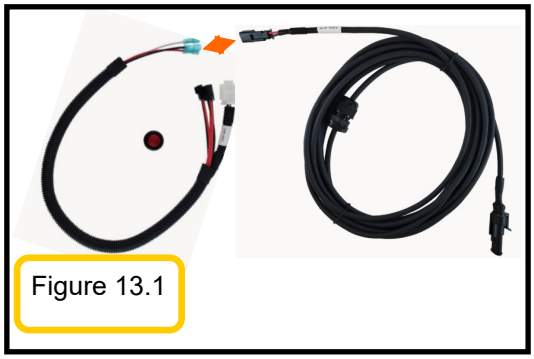


Figure 13.1

Step 1: Routing (Refer to routing diagrams at the beginning of the instructions)
Locate the beacon harness # 67114 or 67115.

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

Locate the driver's side door sill area.
Figure 13.2.

Carefully pull the rubber door trim up and route the strobe harness down to the floor.
Figure 13.3.

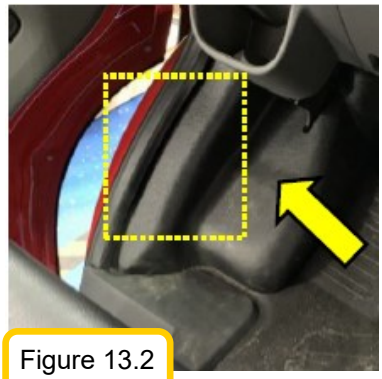


Figure 13.2

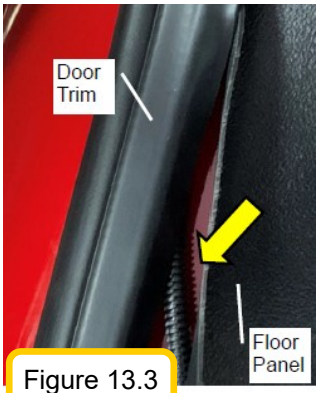


Figure 13.3

Replace the rubber trim back into its original position.

Continue routing the harness down to the floor, under the sill trim, and under the driver's seat.
See figure 13.4 for the routing path.

Re-insert trim that may have been pulled up after routing.

Route the beacon harness up the backside of the partition and rearward following the OEM harness.
Figure 13.5.



Figure 13.4

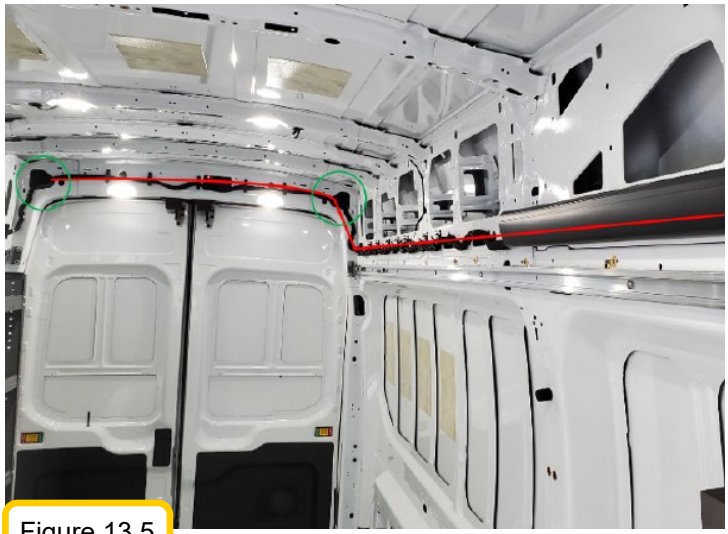


Figure 13.5

Figure 14.1



Figure 14.2

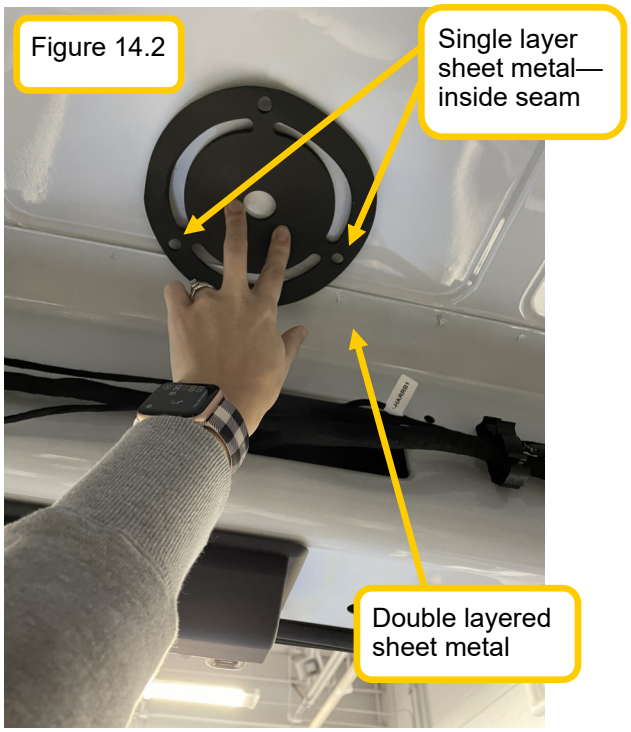


Figure 14.3



Roof mounted beacons:
Step 1: Locate the rear door area. Circled in figure 14.1.

Place the beacon or gasket in the center (between passenger and driver side). The two rear mounting screw locations should be through the single layer sheet metal, just ahead of the seam. See figure 14.2. for references on beacon mounting.

Use the beacon or gasket as a template and mark the holes.

Step 2: Drill the holes needed to mount the beacon.
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 for connector attachment.

Use primer on all the drilled holes.

Remove the cable gland off the beacon harness—you will not need this for roof mounting specifically, as the cable gland's job will be done with your grommet (and silicon) later. Figure 14.3.

*****TRANSIT HIGH ROOF ONLY: Nothing can be mounted on the roof for ship-thru (to meet train shipping restrictions). Ensure primer is dry. Then cover all drilled holes with waterproof tape and stow the remaining parts/instruction for final dealer assembly.*****

Insert the provided grommet, mentioned at the beginning of Step 2, into the wire pass through hole.

Route the beacon wires/connector through the grommet and use silicone to seal the hole.

Use the provided fasteners to mount the beacon to the roof.

Connect the beacon harness to the beacon.

Figure 15.1



Figure 15.2



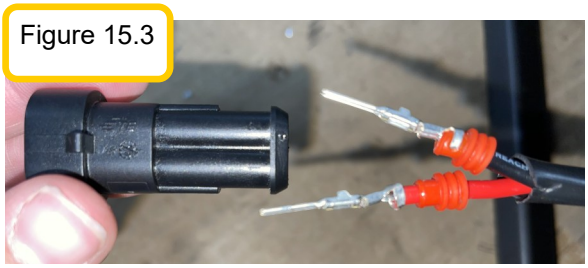
Locate the connector housing inside the lightbar/beacon box. Figure 15.1.

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.

Figure 15.3



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

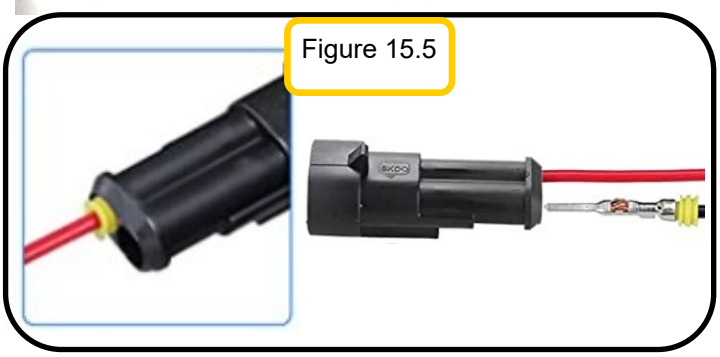
Figure 15.4



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.

Figure 15.5



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.

Figure 15.6

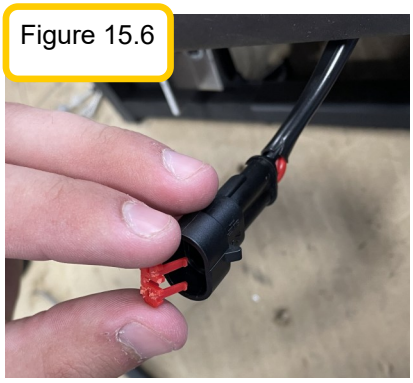


Figure 15.7



Silicone the grommet/wiring.

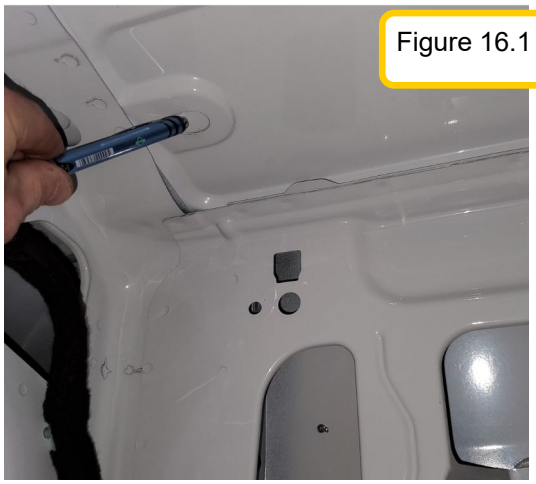


Figure 16.1

For ladder rack mounted beacon:
Step 1: Locate the OEM grommet/pass through at the rear driver's side d-pillar. Figure 16.1.

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

*****TRANSIT HIGH ROOF ONLY: Nothing can be mounted on the roof for ship-thru (to meet train shipping restrictions). Ensure primer is dry. Then cover all drilled holes with waterproof tape and stow the remaining parts/instruction for final dealer assembly.*****

Route the beacon wire harness through the hole and insert the cable gland. Tighten the cable gland.
Secure with zip-ties.

Step 2: Locate the beacon, beacon cage, and mount.

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

Use the provided nut, screw, and washer to mount the cage and beacon to the mount. Figure 16.1.

Assemble the beacon mount feet by inserting the bolt (FAS0799) through the lock washer (FAS0588) then flat washer (FAS0552) then through the foot into the slide. Do not tighten down at this point.
Figure 16.3.

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

Slide the beacon/mount to the center of the rail. Be cautious of the wire sliding through the rail. Figure 16.4.

Tighten the bolts once you have positioned the beacon. Figure 16.5.

Figure 16.2

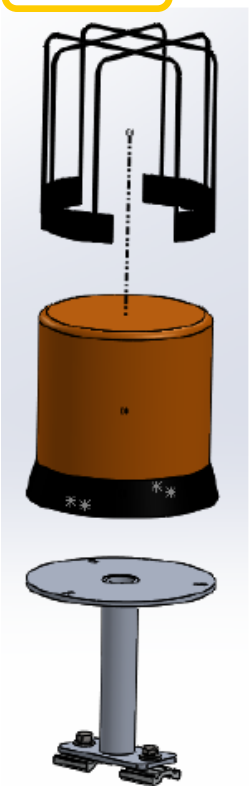
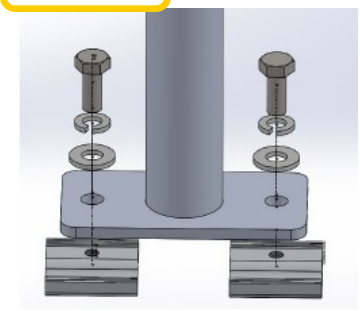


Figure 16.3



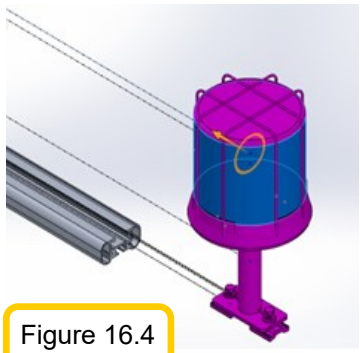


Figure 16.4

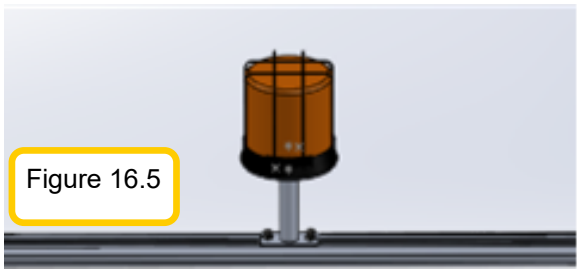
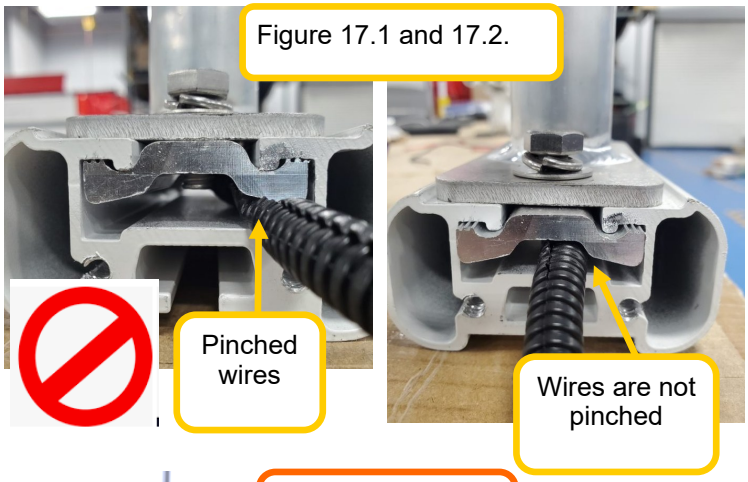
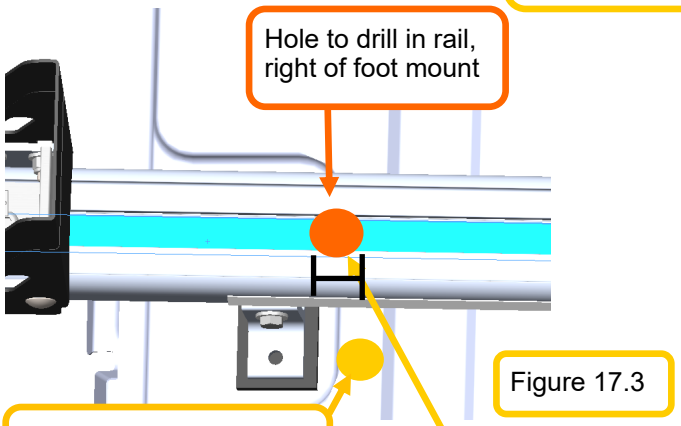
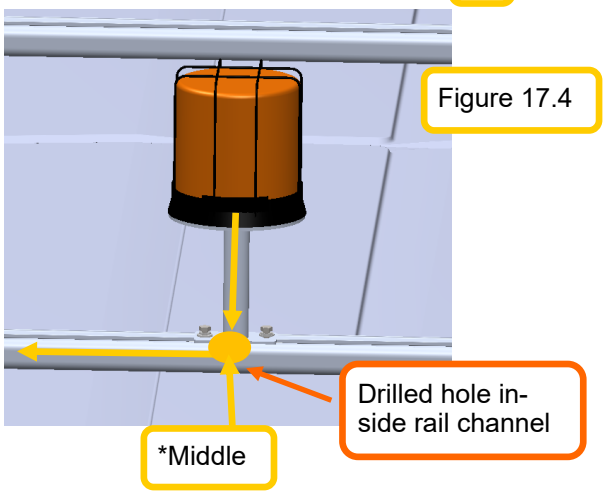
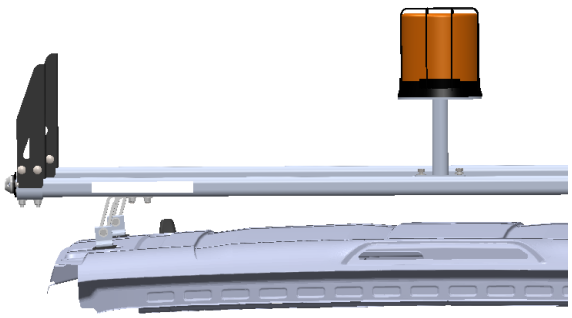


Figure 16.5









*****Be cautious the wires are not pinched after tightening the slides*****
See figures 17.1 and 17.2 for reference.

Step 4: Ladder Rack Routing

Option 1: (The preferred option)
Drill a 3/8” hole from the top channel to the bottom channel, 2’’ to the right of the where the foot mounts to the rail. See picture to the left for reference.

Route the wires in the top rail channel (before inserting the weather strip) to the drivers side area, through the hole in the rail, and down the foot to the hole in the roof. Figure 17.3.

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

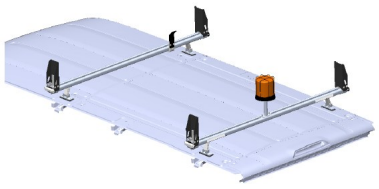
On the 68’’ rack, measure 34’’ from the end. On the 58’’ rack measure 29’’ from the end.

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

Routing is shown in yellow in figure 17.4. The hole is drilled beneath the beacon from the top channel to bottom.

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

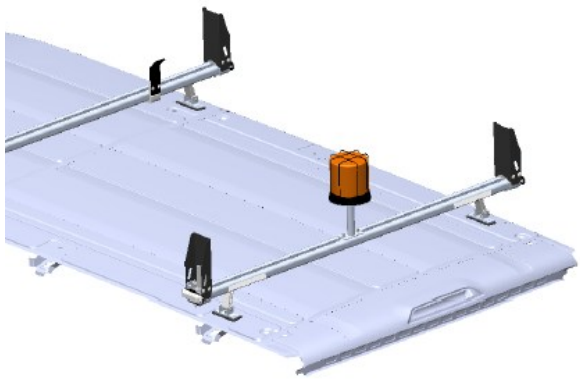
If you are installing a few accessories onto the rail that mount to the bottom channel, use the top channel for wire











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

PART NUMBER
26618-0

ITEM DESCRIPTION: SILICONE, 1oz. TUBE



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

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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VAN AND PICKUP EQUIPMENT
906 JAMES STREET
ADRIAN, MI 49221
517-265-6194
WWW.ADRIANSTEEL.COM

⚠ CAUTION ⚠

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

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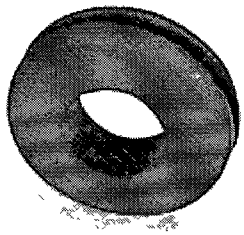
DRAWN BY	DATE DRAWN
JLC	7/21/2001
ECN NUMBER	ECN DATE
16551	7/22/2014
PART WEIGHT	REV. LEVEL
0.02 LBS.	C

PART NUMBER
26618-0

PART NUMBER
34238-0

ITEM DESCRIPTION: GROMMET,RUBBER,3/8 ID



MANUFACTURER: WAYTEK
MANUFACTURERS PART NUMBER: 24512

SPECIFICATIONS: 3/8" ID
1/2" OD

SPECIAL NOTES: NONE

SUPPLIED BY: THIS ITEM IS INSTALLER SUPPLIED!

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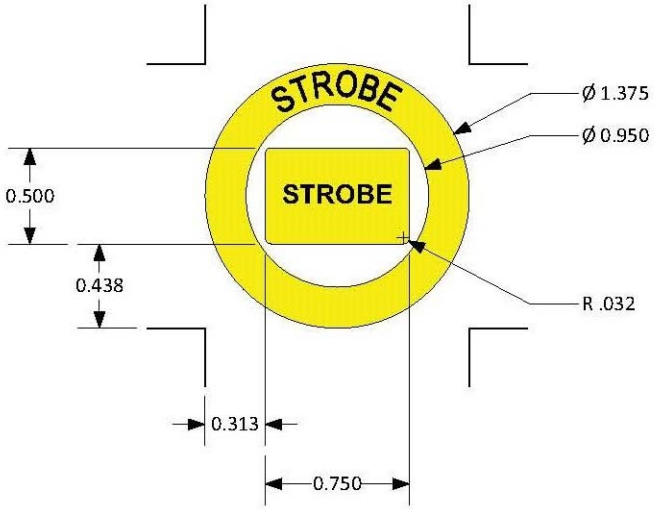
DRAWN BY	DATE DRAWN
APG	5/14/2007
ECN NUMBER	ECN DATE
10243	5/14/2007
PART WEIGHT	REV LEVEL
0.01 LBS.	A

PART NUMBER
34238-0

PART NUMBER **55073**

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!

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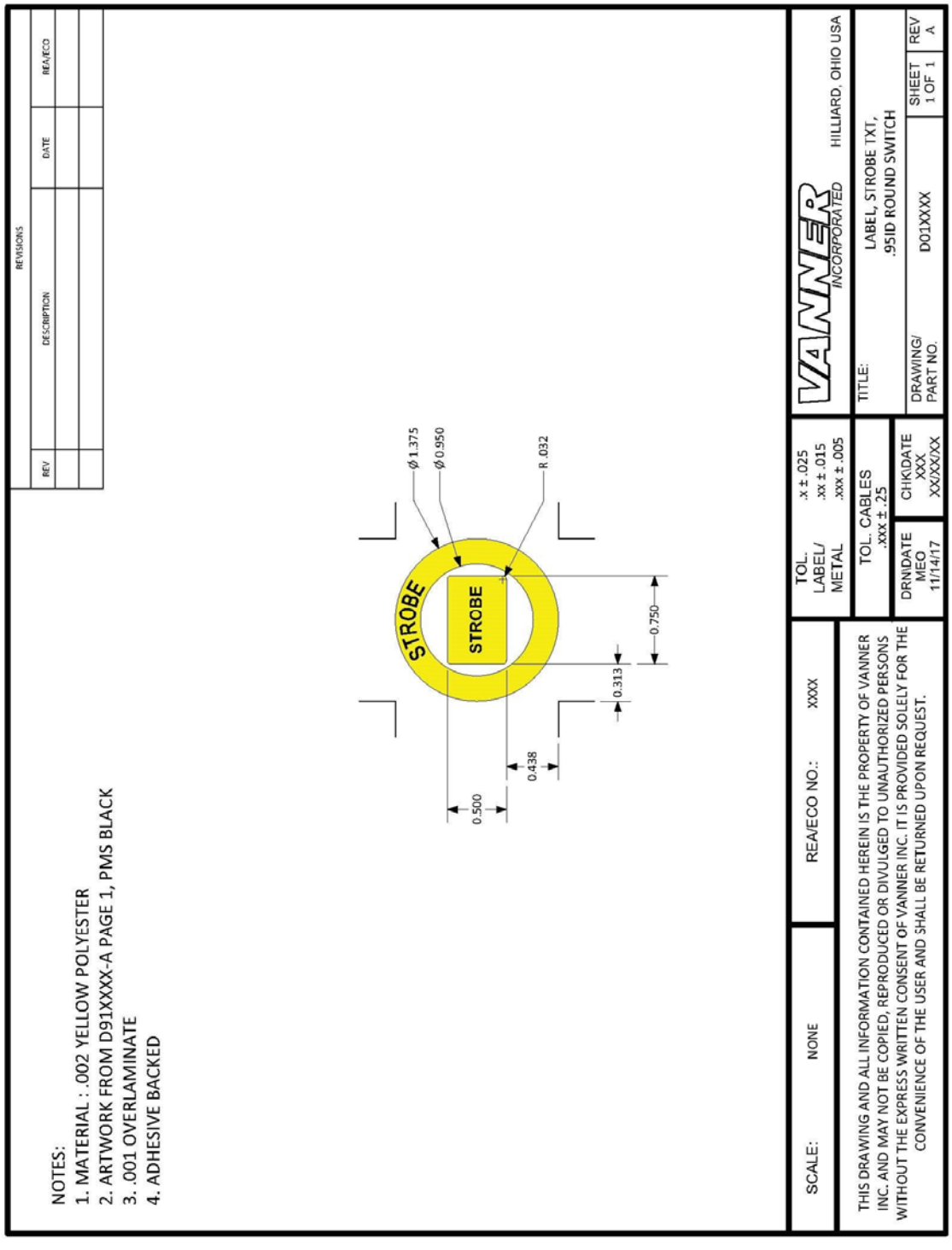
DRAWN BY	DATE DRAWN
RJB	**11/15/2017**
ECN NUMBER	**ECN DATE**
XXXX	**XXXXXX**
PART WEIGHT	**REV. LEVEL**
0.02 LBS.	**A**
PART NUMBER	
55073	

PART NUMBER
55073



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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.	A
PART NUMBER	
55073	

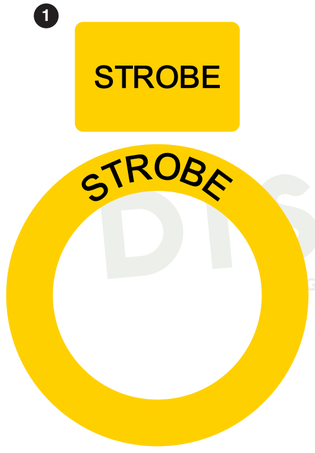
FINAL APPLICATION LAYOUT

IMPORTANT NOTE TO INSTALL CREWS:

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: Adrian Steel		Switch Decals		O-ID: O15319-1
	DATE: 05/31/2023	DESIGNER: TRN			Rev #: XXXX
					Opt #: A

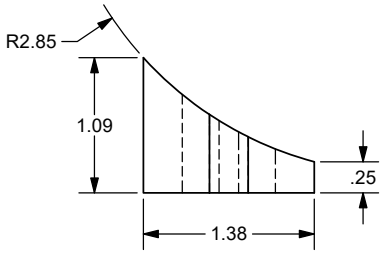
Please check information to confirm accurate vehicle specifications.

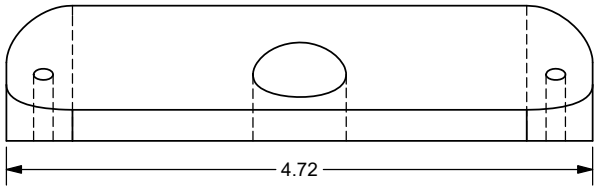
CLEANING INSTRUCTIONS All surfaces must be considered contaminated. Clean the vehicle surface immediately before applying the film. Dust and other contaminates can collect quickly on the surface and prevent the film from adhering properly. Even a freshly painted surface can collect dust before graphics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

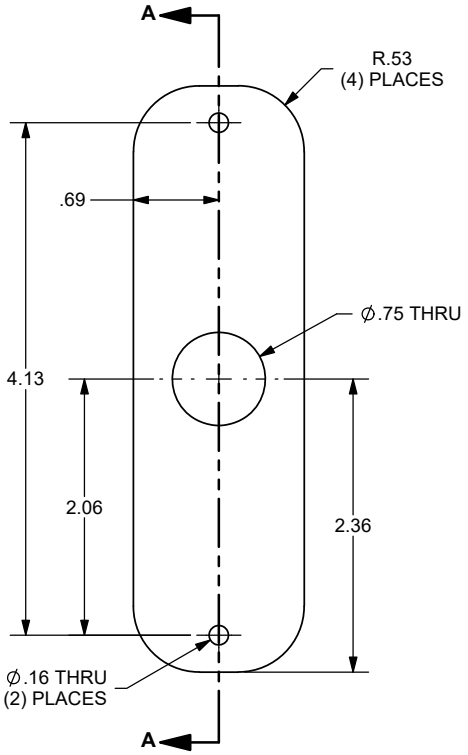
For the best success with the films recommended for vehicle graphics, always apply the graphics when the air and vehicle surface are both above 60°F (16°C) and below 90°F (32°C) before beginning the installation.

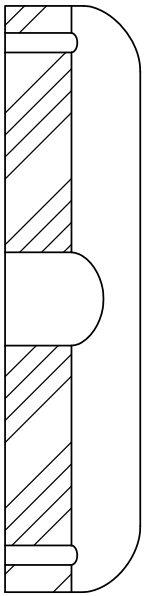
PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING) **SEE DRAWING**
LOAD/RATING REQUIREMENT **N/A**
MATERIAL REQUIREMENT **88A DUROMETER POLYURETHANE**
PACKAGING REQUIREMENT **N/A**
OTHER REQUIREMENTS **N/A**

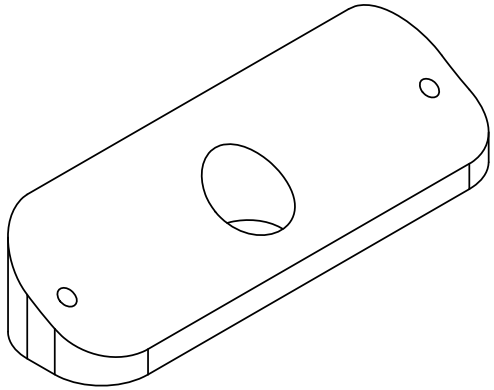








SECTION A-A
SCALE 1 : 1



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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: **24649**

CURRENT ECN: **24649**

ECN DESCRIPTION:
RELEASE TO PRODUCTION

REVISED BY: **N/A**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
DAYSTAR PRODUCTS INTERNATIONAL, INC

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
X23317

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.)
NO

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL: **A**

MAT'L USED:

DESIGNED BY: **B.BURKE**

DESCRIPTION: **BRKT,RR STROBE,ED3704,FT**

WEIGHT (Lbs.): **0.148**

SEGMENT CODE: **VSA**

PART NUMBER: **64531**

Bill of Materials

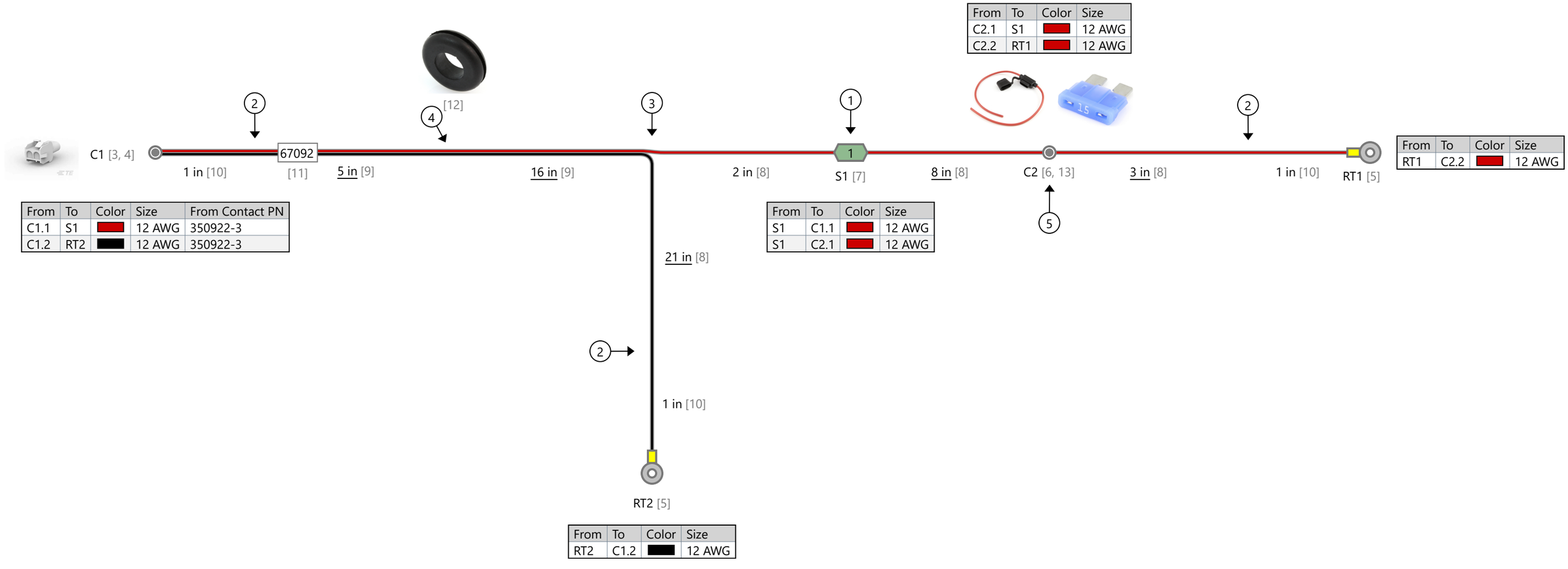
Id	Description	Manufacturer	Part Number	Quantity
1	Red, 12 AWG, TXL, 19/25 Stranding	Prysmian	140682-91W	24 in
2	Black, 12 AWG, TXL, 19/25 Stranding	Prysmian	145823-91W	44 in
3	MATE-N-LOK Connector, 2pos, Receptacle	TE Connectivity	1-480699-0	1
4	MATE-N-LOK Contact, 10-12 AWG, Pin	TE Connectivity	350922-3	2
5	Heat Shrink Ring Terminal, 12-10 AWG, 3/8" Stud	Molex	19164-0068	2
6	ATO/ATC In-Line Fuse Holder, 12 AWG, 30A	Egis	901028	1
7	Splice, Undetermined Length		Generic Splice	1
8	Corrugated Loom, Split Nylon, .250" ID, Black w/ Gray Stripe	Drossbach	014NPBSG BLACK/GRAY	34 in
9	Corrugated Loom, Split Nylon, .350" ID, Black w/ Gray Stripe	Drossbach	038NPBSG0000XZS	21 in
10	Anti-Abrasion Wire Harness Tape, Black	Tesa	TS51036 1.	
11	Generic Heat Shrink Label		Label	1
12	Rubber Grommet, 1/2" ID, 13/16" Panel Hole	Waytek	24514	1
13	ATOF Blade Fuse, 15A, 32VDC, Blue	Littelfuse	0287015.PXCN	1

Coverings

Id	Assembly
[8]	
[9]	
[10]	

Notes

1. Engineering Equivalence Allowed
2. Lock tape loom to wires with Tesa 51036
3. Tape joint with Tesa 51036
4. Install grommet over loom 6" from C1
5. Install 15A ATO fuse in fuse holder



Revisions

Rev.	Date	Author	Description
A	10/28/2026	Andrew Oswalt	Initial Drawing

Initial ECN	25378	Drawn By	APO	Part Number 67092 Or PWR-HAR1	Segment ELE
Current ECN	25378	Weight (lb)	0.2	Description POWER HARNESS EXTERIOR 1	
ECN Description: RELEASE FOR PRODUCTION		Sheet	1 of 1	All dimensions in inches unless otherwise specified. Harness length tolerance = +/- 5%, max ≤ 5 in. Loom/tape to connector gap = 1 in. +/- 10% Wires in bundle length tolerance = +/- 5%, max ≤ 1 in. Terminal/contact wire strip length tolerances controlled by MFR.	
		Size	11" x 17"		

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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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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-HAR2 OR 67098

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL **A**

MAT'L USED: **PURCHASED**

DESIGNED BY: **E.BURKE**

DESCRIPTION: **SWITCH HARNESS 2 EXTERIOR LIGHTING**

WEIGHT (Lbs.): **0.2**

SEGMENT CODE: **ELE**

PART NUMBER: **67098**

Coverings	
Id	Assembly
[12]	

Notes	
1	Lock Tape Loom with Tesa 51608
2	75mm between end of loom and Quick Connects



1

SSW-HAR1

[14]

C1 [7, 8]

75 mm [12]

From	To	Color	Gauge
C1.1	QC3		16 AWG
C1.2	S1		16 AWG

From	To	Color	Gauge
S1	C1.2		16 AWG
S1	C2.B		16 AWG
S1	C3.B		16 AWG
S1	C4.B		16 AWG
S1	QC1		16 AWG

From	To	Color	Gauge
S2	C2.A		16 AWG
S2	C3.A		16 AWG
S2	C4.A		16 AWG
S2	QC2		16 AWG

1

50 mm [12]

S1 [10, 11]

1

50 mm [12]

S2 [10, 11]

1

970 mm [12]

2

1

75 mm

QC1 [9]

QC2 [9]

QC3 [9]

From	To	Color	Gauge
QC1	S1		16 AWG
QC2	S2		16 AWG
QC3	C1.1		16 AWG

75 mm



C2 [4, 5, 6]

From	To	Color	Gauge
C2.A	S2		16 AWG
C2.B	S1		16 AWG

75 mm



C3 [4, 5, 6]

From	To	Color	Gauge
C3.A	S2		16 AWG
C3.B	S1		16 AWG

75 mm



C4 [4, 5, 6]

From	To	Color	Gauge
C4.A	S2		16 AWG
C4.B	S1		16 AWG



Loose Switch to be included with Harness

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

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN MILLIMETERS [INCHES]
TOLERANCES: ±5MM

PROPRIETARY AND CONFIDENTIAL

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	Name	Date
Designed By	Bennet Fisher	11/5/2021
Engineering Approval	----	----
Manufacturing Approval	----	----
Revision Approval	----	----
Quality Assurance	----	----

AAMP
ADVANCING VEHICLE TECHNOLOGY

Part Number: SSW-HAR2

Revision: ----

Description:
Strobe Switch Harness - 3 Outputs

Sheet:
1 of 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



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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
FS-HAR2 OR 67102

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

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: **FRONT STROBE HARNESS 2**

WEIGHT (Lbs.): **0.2**

SEGMENT CODE: **ELE**

PART NUMBER: **67102**

Coverings	
Id	Assembly
[12]	

Notes	
1	Lock Tape Loom with Tesa 51036



Front_Strobes [1, 2, 3]

From	To	Color	Gauge
Front_Strobes.A	S1		16 AWG
Front_Strobes.B	S2		16 AWG

1

FS-HAR2 [13]

1575 mm [12]

1

S1 [6, 7]

50 mm [12]

1

S2 [6, 7]

50 mm [12]

From	To	Color	Gauge
S1	Front_Left.1		20 AWG
S1	Front_Right.1		20 AWG
S1	Front_Strobes.A		16 AWG
S2	Front_Left.2		20 AWG
S2	Front_Right.2		20 AWG
S2	Front_Strobes.B		16 AWG

660 mm [12]

1

Front_Left [4, 5]



From	To	Color	Gauge
Front_Left.1	S1		20 AWG
Front_Left.2	S2		20 AWG

1

1750 mm [12]

Front_Right [4, 5]



From	To	Color	Gauge
Front_Right.1	S1		20 AWG
Front_Right.2	S2		20 AWG

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

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN MILLIMETERS [INCHES]
TOLERANCES: ±5MM

PROPRIETARY AND CONFIDENTIAL

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	Name	Date
Designed By	Bennet Fisher	11/5/2021
Engineering Approval	----	----
Manufacturing Approval	----	----
Revision Approval	----	----
Quality Assurance	----	----

AAMP
ADVANCING VEHICLE TECHNOLOGY

Part Number: FS-HAR2

Revision: ----

Description:
Front Strobe Harness

Sheet:
1 of 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



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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-HAR4 OR 67109

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

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: REAR STROBE HARNESS 4

WEIGHT (Lbs.): 0.2

SEGMENT CODE: ELE

PART NUMBER: 67109

Coverings	
Id	Assembly
[12]	

Notes	
1	Lock Tape Loom with Tesa 51036



Rear_Strobes [1, 2, 3]

From	To	Color	Gauge
Rear_Strobes.A	S1		16 AWG
Rear_Strobes.B	S2		16 AWG

1

RS-HAR4

[13]

7800 mm [12]

1

S1 [6, 7]

50 mm [12]

1

S2 [6, 7]

50 mm [12]

From	To	Color	Gauge
S1	Rear_Left.1		20 AWG
S1	Rear_Right.1		20 AWG
S1	Rear_Strobes.A		16 AWG
S2	Rear_Left.2		20 AWG
S2	Rear_Right.2		20 AWG
S2	Rear_Strobes.B		16 AWG

1350 mm [12]

1

Rear_Left [4, 5]



From	To	Color	Gauge
Rear_Left.1	S1		20 AWG
Rear_Left.2	S2		20 AWG

1

3050 mm [12]

Rear_Right [4, 5]



From	To	Color	Gauge
Rear_Right.1	S1		20 AWG
Rear_Right.2	S2		20 AWG

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

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN MILLIMETERS [INCHES]
TOLERANCES: ±5MM

PROPRIETARY AND CONFIDENTIAL

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	Name	Date
Designed By	Bennet Fisher	11/5/2021
Engineering Approval	----	----
Manufacturing Approval	----	----
Revision Approval	----	----
Quality Assurance	----	----

AAMP
ADVANCING VEHICLE TECHNOLOGY

Part Number: RS-HAR4 | Revision: ----

Description: Rear Strobe Harness | Sheet: 1 of 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 **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

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: **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.)
NO

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: **ECCO STROBE ED3801A W/CON**

WEIGHT (Lbs.): **0.5**

SEGMENT CODE: **EST**

PART NUMBER: **67686**