

Introduction / Comments:

Install Instructions For Bluepeak Topper LR Beacon For F150

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 Bluepeak Topper Ladder Rack Beacon For F150

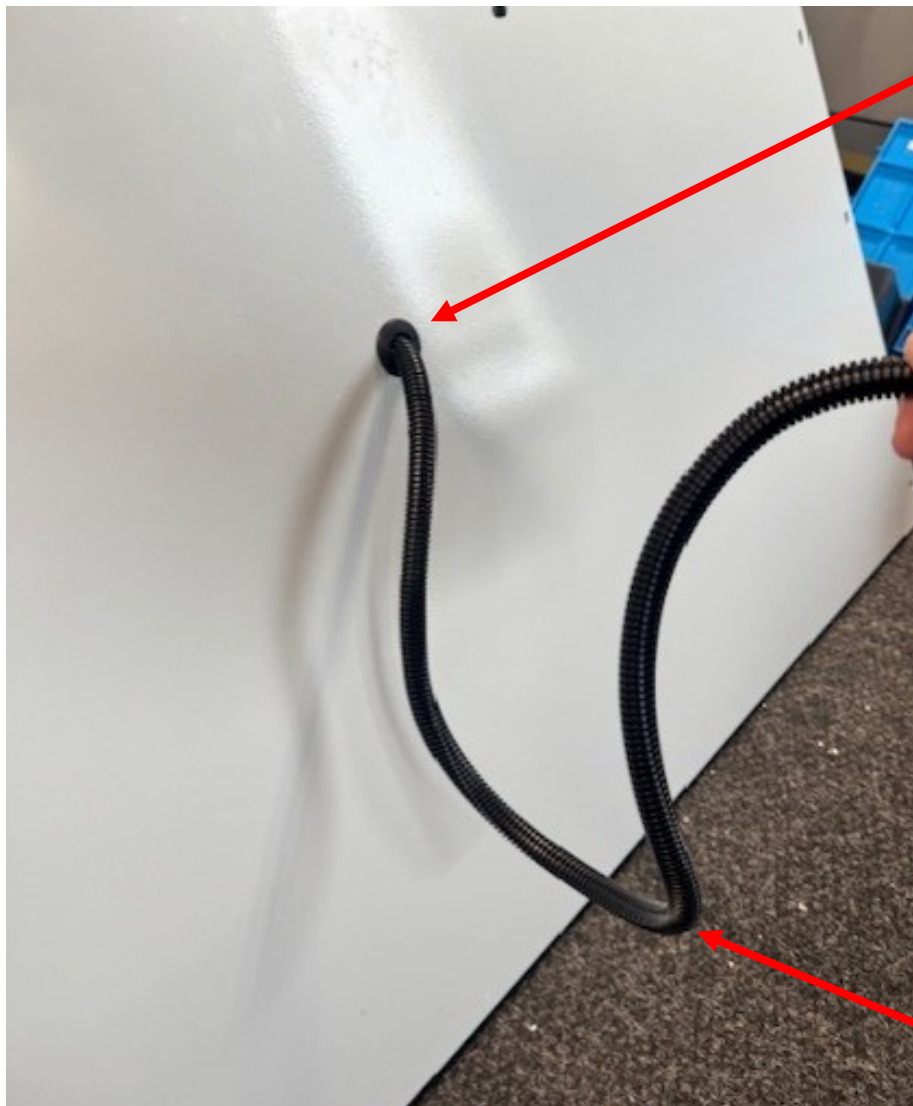
Section 1: Table of Contents

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Best Practices to Follow when Routing Through Firewall:

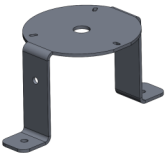
- Create a drip loop with the harness being routed through the firewall as shown so that the water does not flow into the grommet.
- Make sure that the proper grommet for the hole being routed through is used so that there are no openings for water to get through.
- Use silicone after routing and apply 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.

Section 3: Harnesses/Components Needed

Item	Part Number	Description	Photo/Picture	Qty
1	67095	Power Harness #4		1
2	67097	Switch Harness #1		1
3	67111	Beacon/Lightbar Harness #1		1
4	67622	Beacon Harness 58/68" Rack		1
5	67689	Beacon		1
6	72900	Beacon Mount		1
7	26618-0	SILICONE, 1 OZ TUBE		1
8	55073	YELLOW STRB SWITCH LABEL		1
9	13905-0	WIRE TIE, 8.5" BLACK		
10	73121	INS,P&P EXT BCN BLPK F1	Instructions	
11	34239-0	WIRE TIE W/CHRISTMAS TREE		6
12	68436	NYLON CLAMP 3/8" ID		4
13	FAS0503	SCREW,RHP 8-32X.75 SS		4
14	FAS0501	NUT,HEX NLK 8-32 SS		4
15	35735-0	GROMMET,RUBBER,1/2"ID	Not Pictured	4
16	16347-0	WIRE LOOM,1/4 ID /FT	Not Pictured	3 ft
17	70800	3/4" ELEC TP BLK /FT	Not Pictured	1 ft

Section 4: Component Placements

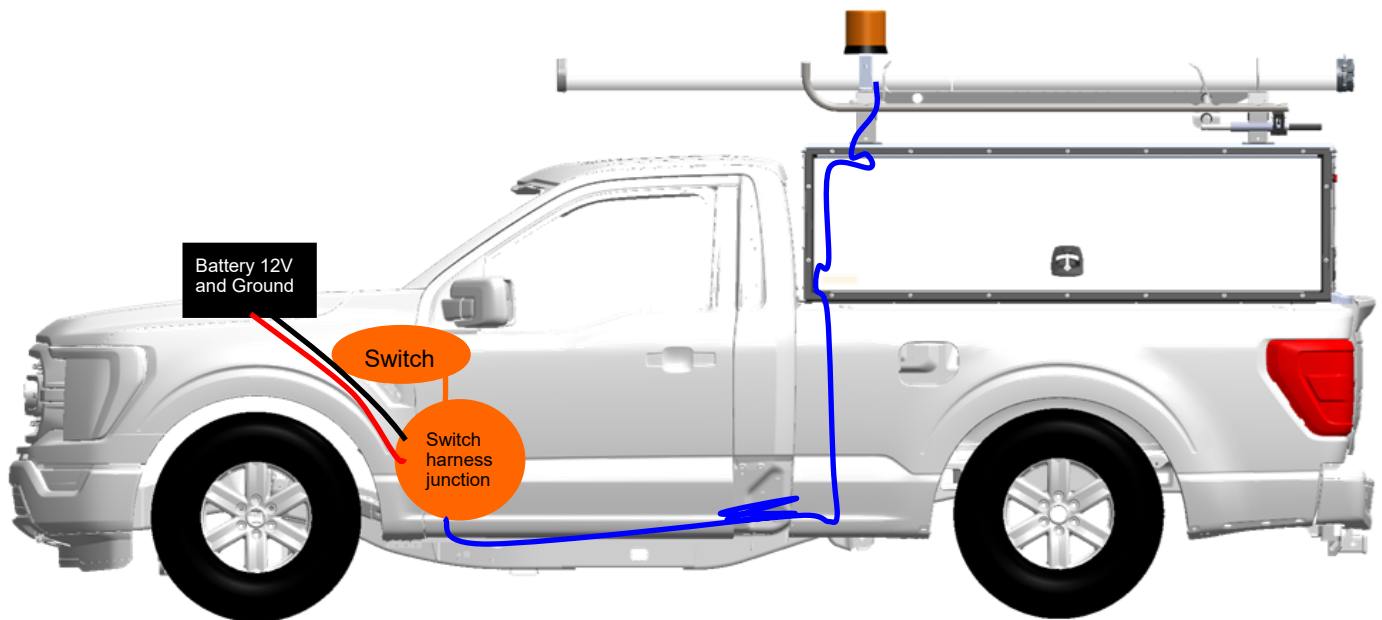
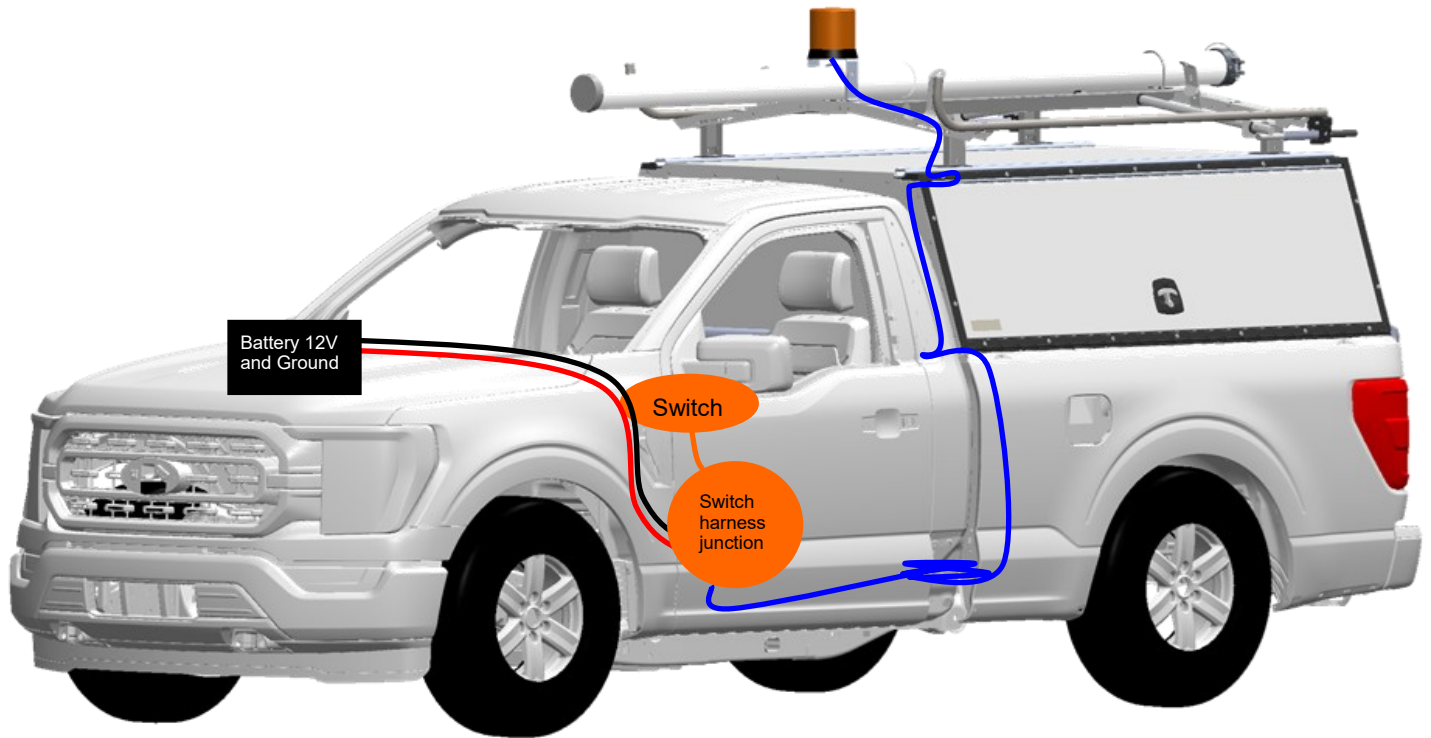
Switch placement: Dash panel
under headlight buttons



Beacon on mount



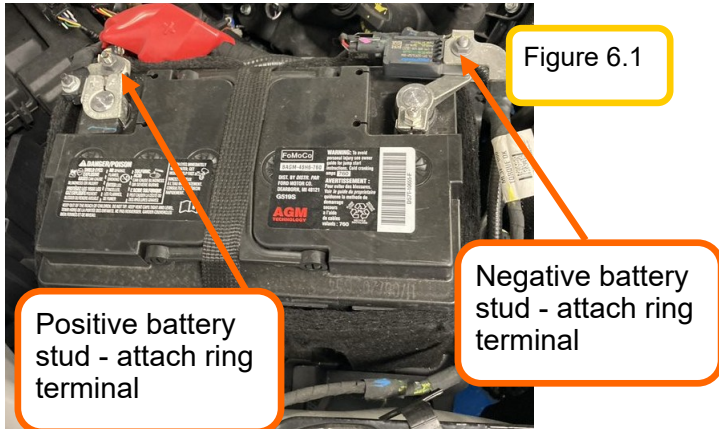
Section 5: Overall Harness Routing



Color	Key - Items
Red/Black	Power harness: Battery to kick panel
Blue	Beacon harness: Switch to beacon
Orange	Switch harness: Switch in dash

Section 6: Install 67095 Pwr HARN #4

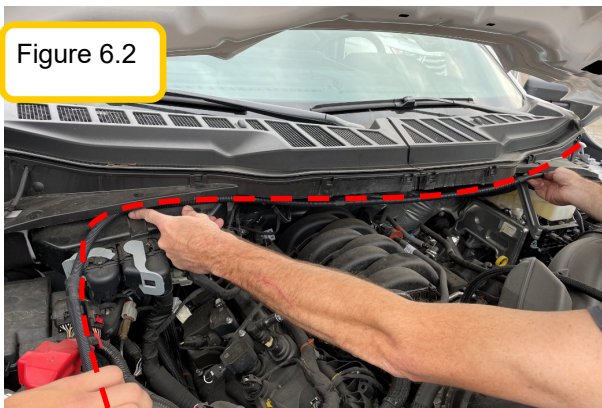
Step 6-1: Battery Connection



NOTE: Please remove the fuse before installation

- Locate the power harness **#67095**.
- Remove the fuse from the inline fuse holder until the end of the install
- Locate the OEM battery under the hood.
- 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 6.1.

Step 6-2: Engine Compartment routing



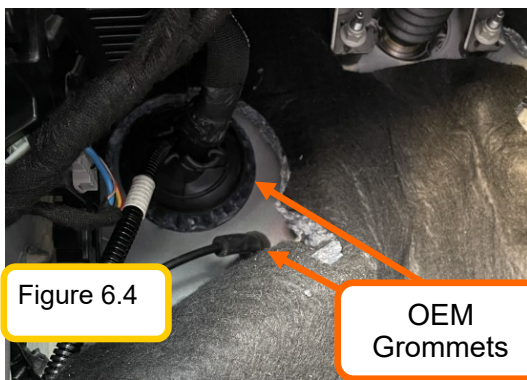
- Route the white connector end along the underside of the cab filter (see figure 6.2 red dotted line) to the firewall.
- Use cable ties to fasten the harness up out of the way. (You can tuck the wiring under the filter and hide it. Figure 6.3.)



NOTE: Please ensure silicone sealant is used

- Locate the firewall grommet from underneath the kick panel inside the cab on the driver's side. Figure 6.4.
- Drill a 5/8" hole (to fit the grommet on the power harness) to the right of BOTH OEM grommets, like shown in figure 6.5.
- ****BE SURE TO CHECK THAT THE OPPOSING SIDE OF THE FIREWALL IS CLEAR BEFORE DRILLING.****
- Route the white connector end through the firewall and insert the grommet on the sheet metal.
- Use silicone sealant generously to prevent water ingress (including inside split loom)
- Make sure to leave a drip loop with the harness.

Step 6-3: Firewall Grommet Install



Section 7: Install 67097 Switch HARN #1

Step 7-1: Switch Harness Connection

Power harness

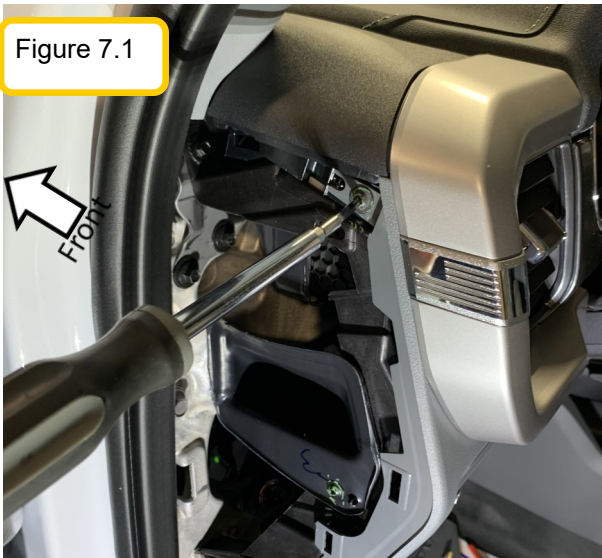
Switch Harness



- Locate the Switch Harness #1: 67097
- Connect the switch harness connector to the 67095 Pwr HARN #4 in the kick panel area (white bodies connector).

Step 7-2: IP Disassembly

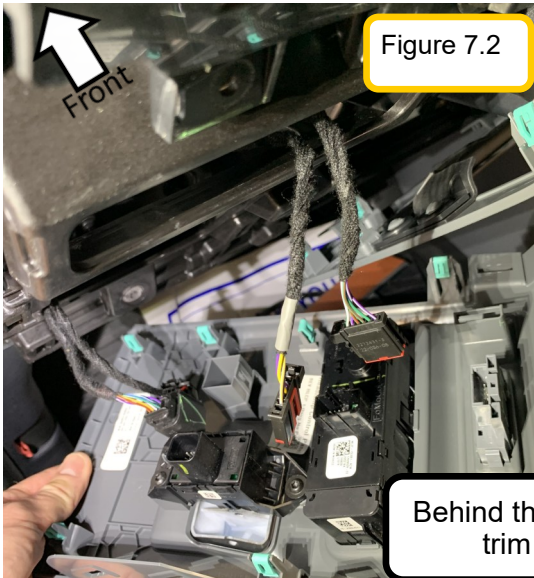
Figure 7.1



- Unclip the side panel to access IP fasteners
- Using a #20 Torx bit, disassemble the IP trim to gain access behind the dash. Figure 7.1 and 7.2.

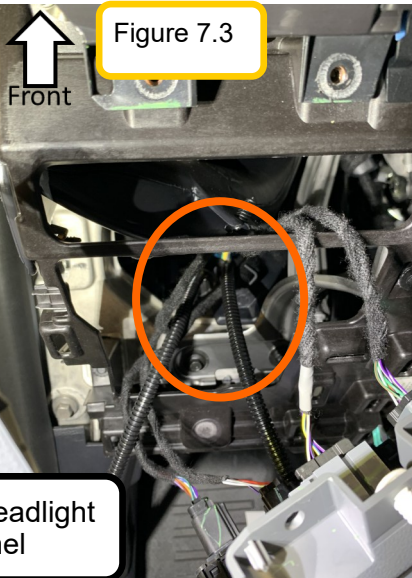
Step 7-3: IP Routing of Switch Harness

Figure 7.2



Behind the headlight trim panel

Figure 7.3



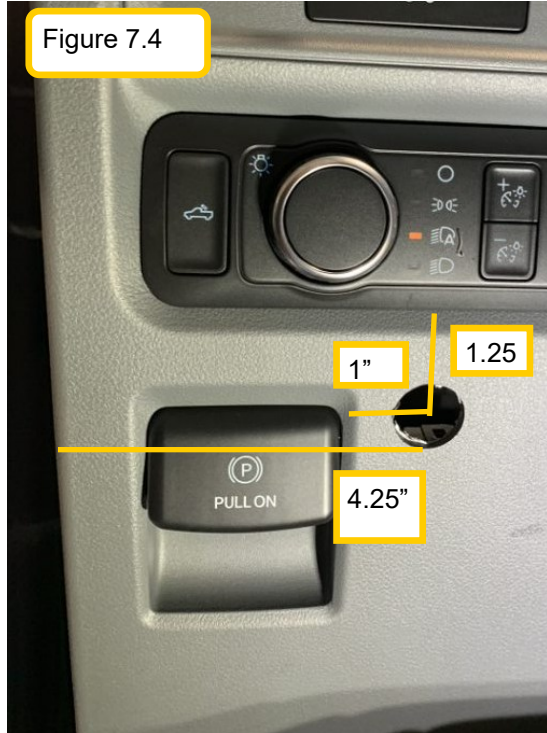
- Route the "switch" stake on terminals end of the switch harness up the dash and through the opening in the IP. (See Figure 7.3).
- Secure to the OEM harnesses behind the IP with cable ties.

Section 7: Install 67097 Switch HARN #1(Cont.)

Step 7-4: Battery Connection



Figure 7.4



NOTE: Be cautious not to over drill the hole for best fitment

- Drill a 20mm hole for the switch, in the trim panel like shown below. **NOTE:** Switch should give resistance to push in due to its locking feature.
- The hole will be 1.25" inches down from the bottom of the headlight trim panel and 1" from the edge of the parking brake button. (4.25" from the edge of the IP panel). Figure 7.4. .

Step 7-5: Engine Compartment routing

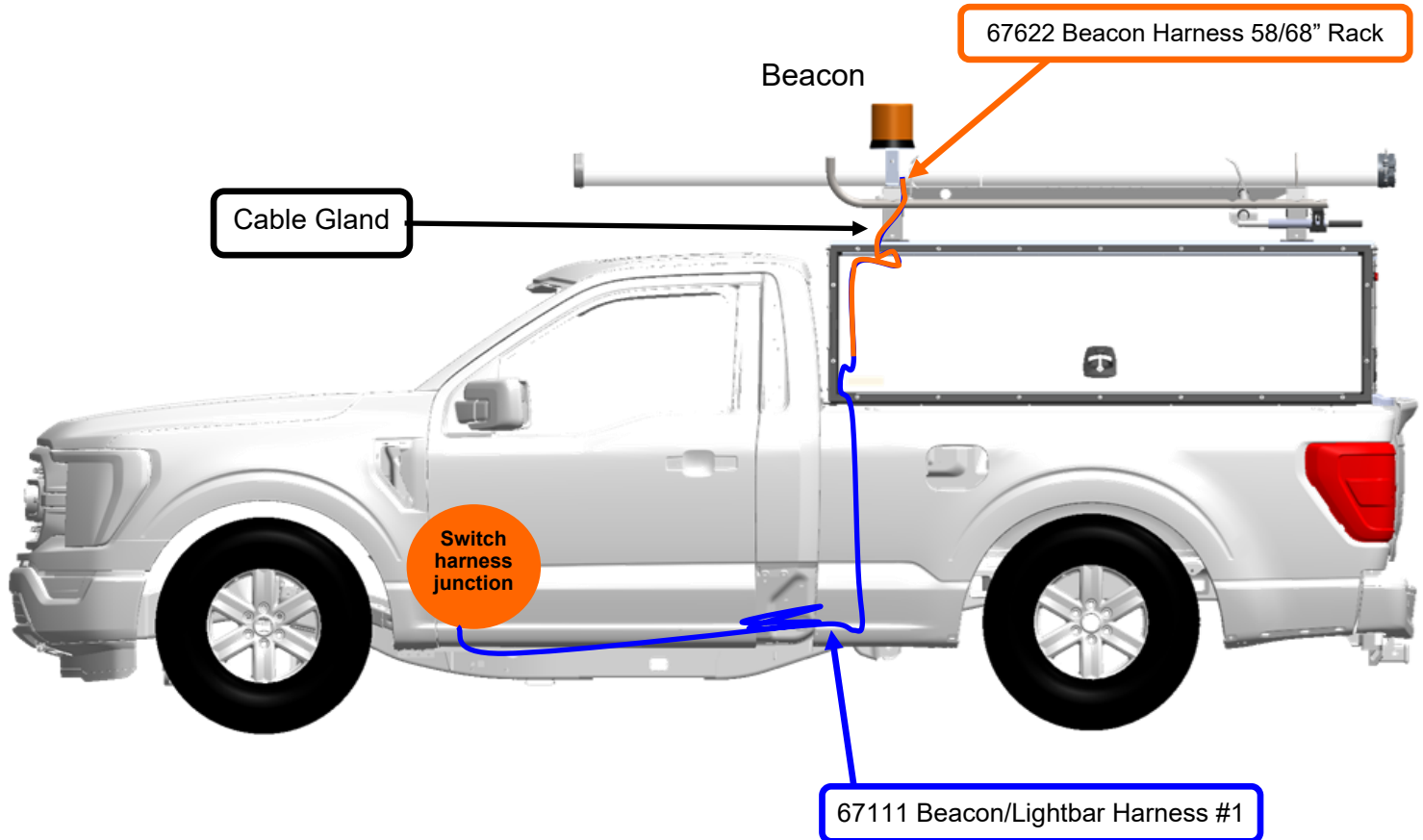


- Route the harnesses through the hole.
- Connect the ground spade [black wire] to the gold pin on the rocker switch.
- Connect the white battery power spade [white wire] to the opposite terminal on the switch.
- Connect the red wire spade to the middle pin. Insert the switch into the hole and place the strobe/beam decal around the switch.
- Reassemble all trim and secure wiring.



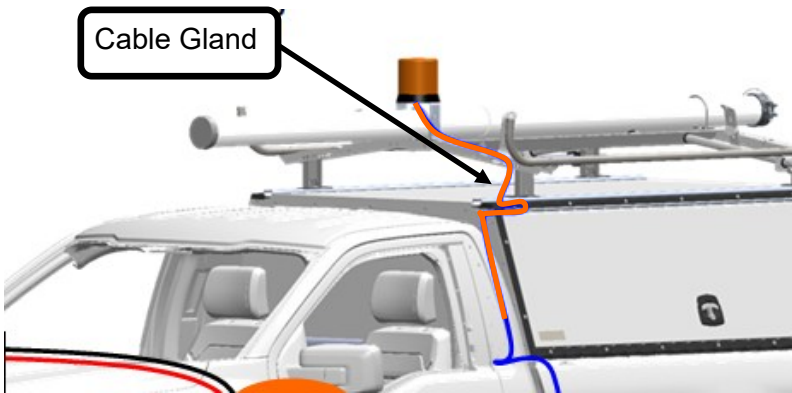
Section 8: Beacon and 67622 Beacon Harness 58/68" Rack

After switch harness is installed, routing backward from the topper/ladder rack beacon is recommended.



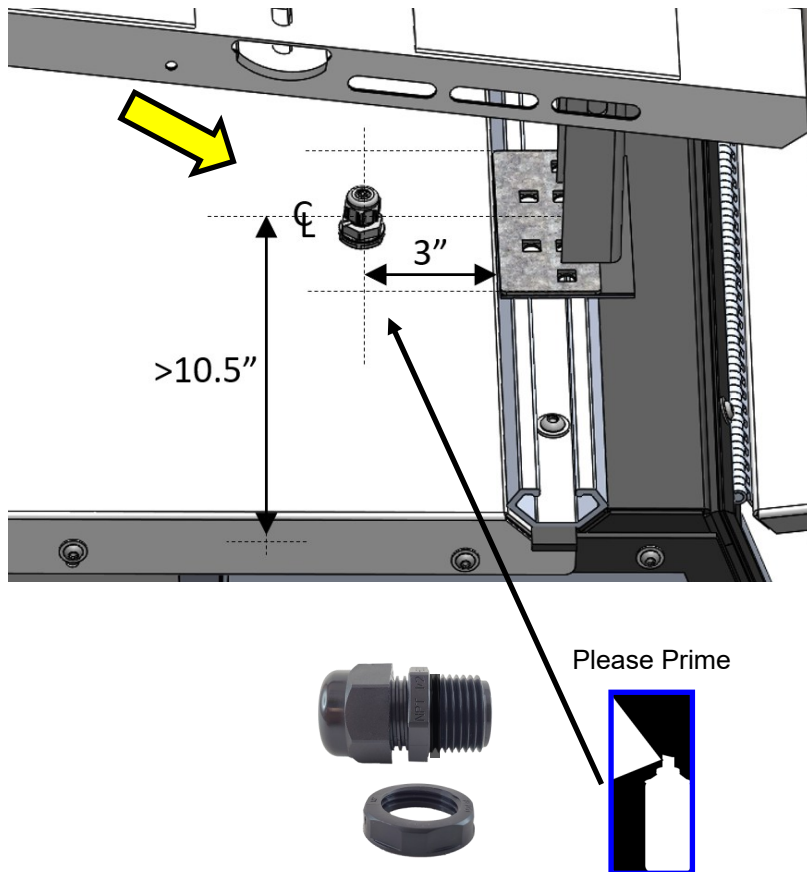
Section 8: Beacon and 67622 Beacon Harness installation

Step 8-1 :Beacon Mounting wiring overview



- NOTES:
- The beacon will be *temporarily* mounted during setup.
- The beacon will be permanently installed on the ladder rack **after** rail shipment.
- The ladder rack will be attached to the topper and the pre-wiring can be done.

Step 8-2: Installing Cable gland for 67622



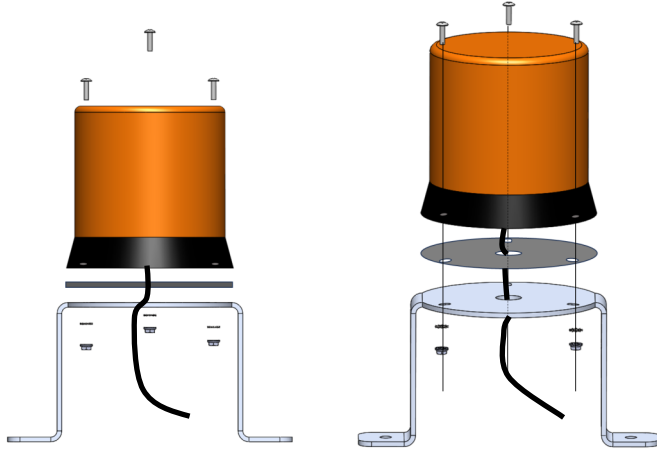
NOTE: Be sure there is nothing to be damaged below proposed drilling site and hole is beyond the under-roof crossmember

- Begin by installing the cable gland through the roof of the topper.
- Carefully drill a 19mm (3/4") hole in the location specified ==> 3 inches away and approximately centered with foot bracket of rack, **BUT >10.5' from front surface of the topper.**
- After burs are removed from hole– carefully prime the hole with matching paint.
- When paint is dry, the cable gland can be installed . Ensure that sealing washer is sealing the surface around the hole on the top of the topper.
 - The cable gland is IP68 when installed correctly.

Section 8: Beacon and 67622 Beacon Harness installation

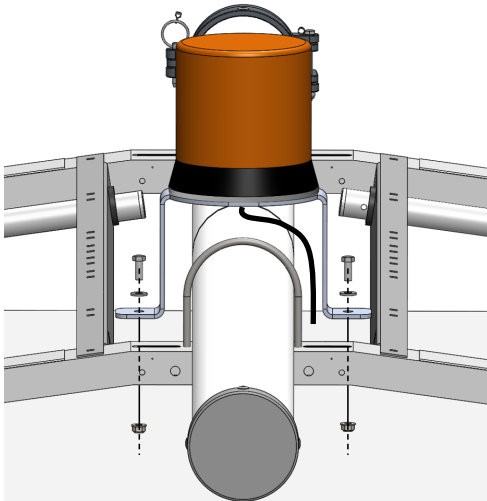
Step 8.3: Beacon Mounting to Bracket

 Beacon and MOUNT WILL BE ASSEMBLED. Then the assembly will be **temporarily loose-mounted** to rack in order to lay out harnessing and for functional check. THE BEACON AND MOUNT WILL THEN BE PUT INTO STOWAGE BOX FOR FINAL ASSEMBLY WITH LADDER RACK AT DESTINATION.



- On a table/bench: assemble the beacon
- Assemble the beacon to the mount, using the supplied fasteners and rubber spacer with the beacon.
- The beacon's harness pigtail will be routed through the hole in the mounting bracket.

Step 8.4: Bracket to Rack Mounting



- Mount the beacon onto the ladder rack, in the forward position, straddling the conduit carrier.
- Ensure to use proper fasteners:
 - FAS0861 NUT,
 - FAS0552 Washer,
 - FAS0283 Screw.

Step 8.5: Beacon Pigtail fastening



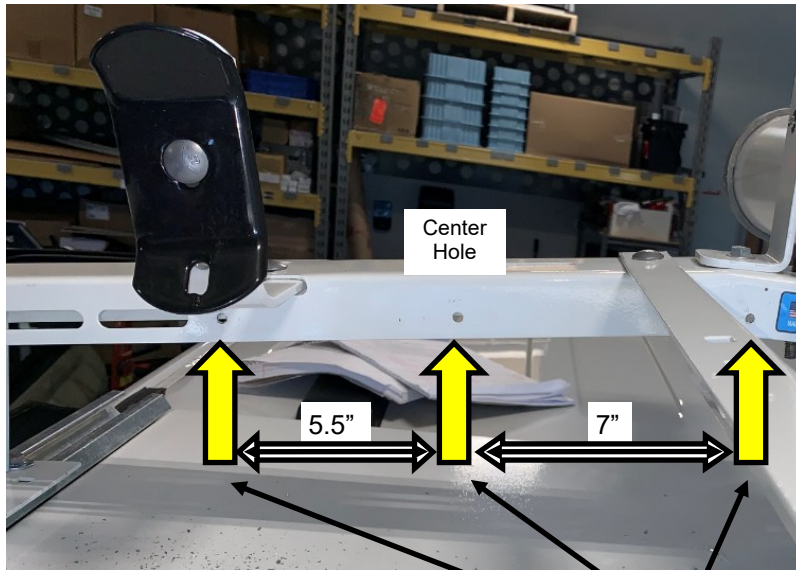
- Use one each of FAS0501, FAS0503, and clamp 68436 to fasten the beacon pigtail to the side of the beacon mount closest to the side with the cable gland install (drivers/street side).
- Leaving a moderate amount of slack, tighten the clamp.

Section 8: Beacon and 67622 Beacon Harness installation

Step 8.6: Make mounting holes for the 67622



NOTE: Holes may already be present in the ladder rack crossmember



- Two additional holes may need to be drilled into the rear side of the front crossmember of the rack.
- Measuring from the center hole— that should be predrilled in the crossmember – measure **7"** toward the center of the ladder rack, and 1/2" from the bottom edge, drill a 1/4" hole.
- Measuring towards the side of the rack, mark for a 1/4" hole approximately **5.5"** inches from the center hole.
- Be sure to carefully prime the holes from each side and let dry before continuing.
- Take Beacon Harness 58/68" Rack (PN:67622) and prepare to put the end with the terminals done into the installed cable gland by loosening the top portion of the gland.
- The "terminated" end of the 67622 harness will be brought down from the top of the topper into the inside of the topper and will hang for the time being.

Step 8.7: Routing the pigtail to 67622 connector



- The connector end of the 67622 harness will should be connected to the beacon pigtail and be brought down under the ladder rail and across and internal to the crossmember.
- The terminated end of the 67622 harness will go into the inside of the topper and will hang for the time being.

Section 8: Beacon and 67622 Beacon Harness installation

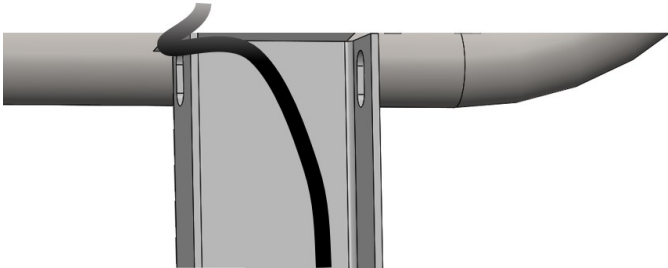
Step 8-8: Beacon wiring on the ladder rack



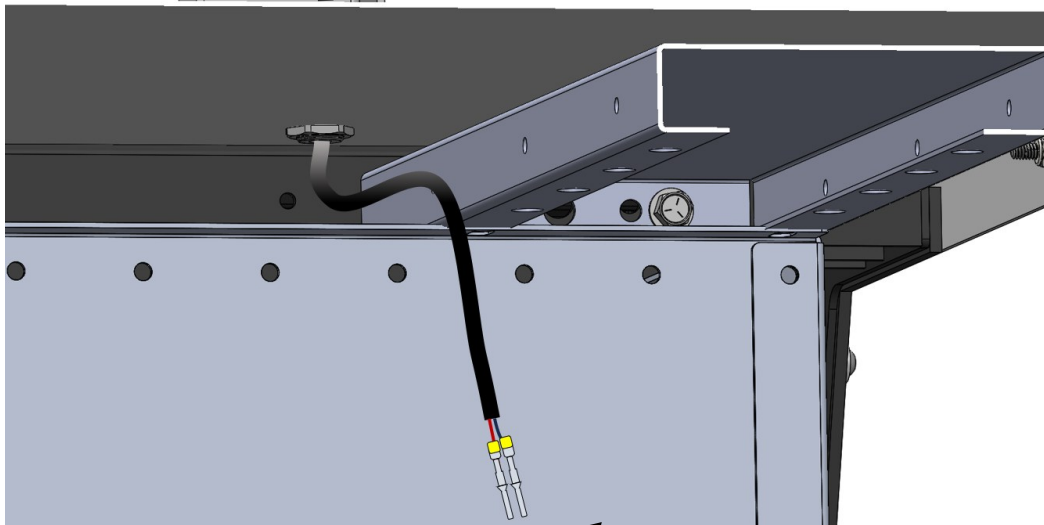
NOTE: Beacon and its pigtail will be removed after all pre-fitment occurs

- Use the P-Clips and stainless steel fasteners (68436,FAS0503,FAS0501)
- Put two of the nylon P-Clips onto the 67622 harness and mount them on the inside of the ladder rack crossmember (Yellow Arrows).
- Tighten those accordingly after pulling slack out of harness and pushing harness through the roof grommet.
- The 3rd nylon P-clip will remain empty, but it should be installed into the hole just below where the beacon mount will be (Red arrow)
- Use a #2 screw driver and a 9mm socket to partially engage the nylock nuts so that they stay for shipment.

Step 8-9: Installing Connector onto 67622



- After pulling through the “terminated” end of 67622, a connector can be put on.
- Observe the instructions on the following page for proper insertion and locking of terminals.



Terminated end of 67622

Section 8: Beacon and 67622 Beacon Harness installation

Step 8-10: Installing the 67622 Connector

Figure 8.1



Figure 8.2



Figure 8.3



Figure 8.4



Figure 8.5

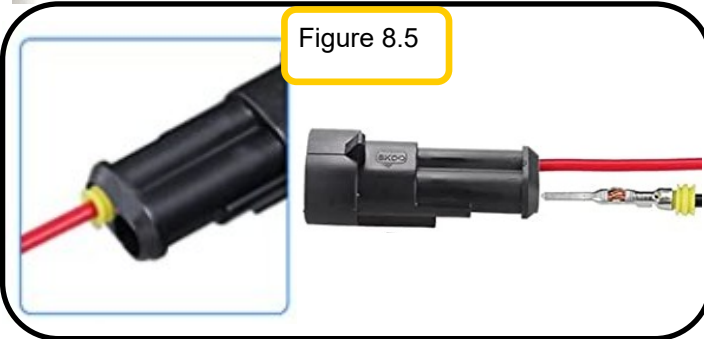


Figure 8.6

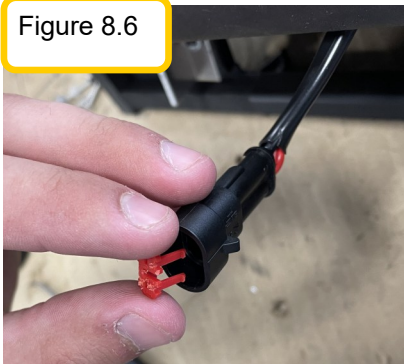
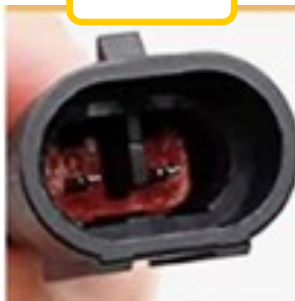


Figure 8.7



After pulling the wire through the cable gland:

Locate the connector housing inside the 67622 harness bag. Figure 8.1.

Note if it has a red insert inside the connector or not. Refer to figure 8.2 for red insert inside the connector.

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

- In these steps be very careful to place the terminals into the correct side of the connector.
- Line the red wire terminal up with cavity #1 and the black wire terminal up with cavity #2. Figure 8.3.
- Note the connector has a "1" and a "2" noted on the connector (circled in red). Figure 8.4. The red wire will be inserted into the #1 cavity of the connector. The black wire will be inserted into the #2 cavity on the connector.
- Be sure to align the terminal prongs up with the inside of the connector pin outs.
- Carefully insert the terminals into their designated section. Figure 8.5.
- 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 8.6 and 8.7.

Section 8: Beacon and 67622 Beacon Harness installation

Step 8-11 :Beacon wiring through the roof



NOTE: Please ensure silicone sealant is used

- After connector inside the topper is added– the rest of the harness can be straightened and pulled through.
- As the last 2” of 67622 harness is being pulled through the cable gland, apply silicone to the outside of the harness as it is being pulled through.
- Also add silicone to the inside of the split loom to prevent water intrusion through the looming.
- When completed and pulled to proper amount of harness remaining on top (small amount of slack), tighten the cable gland enough to constrict the harness and you can see a little silicone being squeezed out of the looming. Wipe off any extra.

Section 9: 67111 Beacon/Lightbar Harness #1

Step 9-1: Routing 67111 backwards



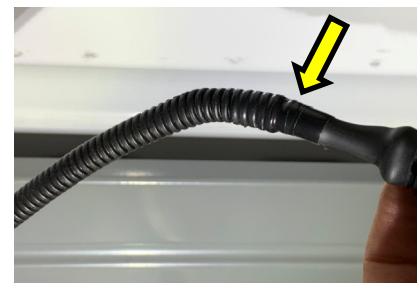
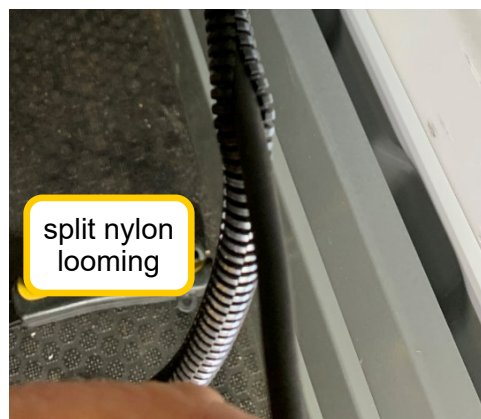
- On the side of the bed towards the cab there is an elongated hole (see yellow and red arrows).
- Put the smaller end of the 67111 Beacon/Lightbar Harness #1 into this hole and feed most of the harness down through the side of the bed cavity and let it drop to the floor.
- NOTE: be sure to push the small end in beyond the small box feature right beneath / behind the hole in the side of the bed— the wire will hang up on this—preventing it from dropping to the ground.



NOTE: Protective split looming is important to protect the harnessing as it goes through the hole.

- Add 3' long split nylon looming included with kit the last length of **67111** harness going into the hole.
- Lock tape the loom to the harness with the 3/4" electrical tape just behind the connector as shown in photo below (Yellow Arrows).

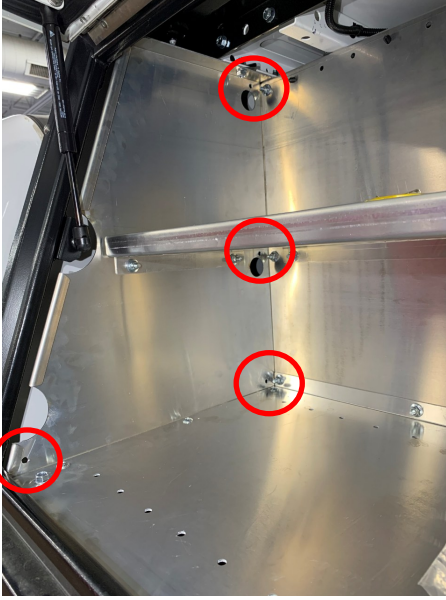
Step 9-2: Install protective looming



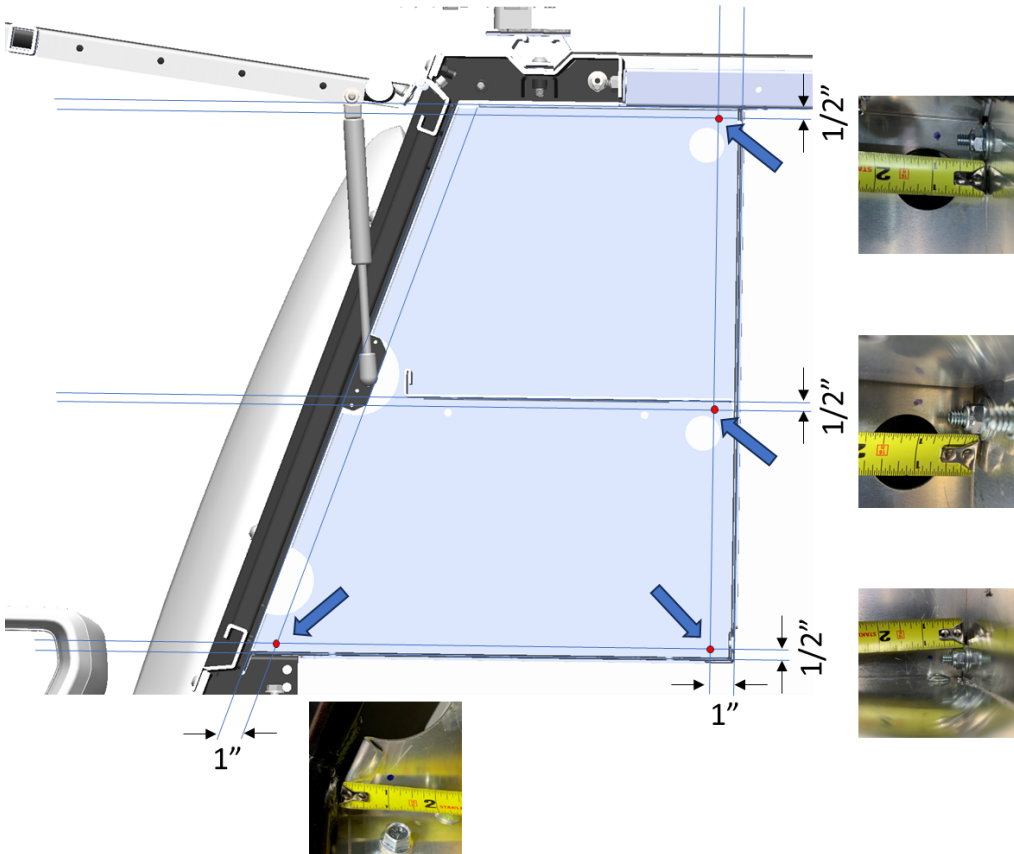
Section 9: 67111 Beacon/Lightbar Harness #1

Step 9-3: Make mounting holes for the 67111 and 67622

- Use a 1/4" drill to put holes in the designated areas in the tool box.
- Mark and drill from the outside of the topper's street side door



Step 9-4: Dimensioning mounting holes for the 6711 and 67622



Section 9: 67111 Beacon/Lightbar Harness #1

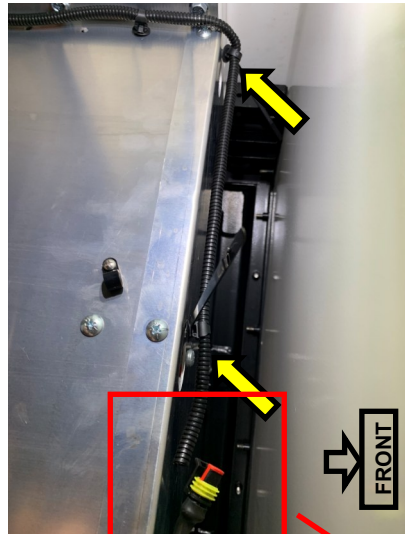
Step 9-5: Wire tie 67111 to toolbox side holes

- Use the Christmas tree wire ties to the



- Use the 34239-0 Christmas tree wire ties to attach the harness to the interior surface of the toolbox.
- NOTE: harness 67111 is shown without 3ft of split poly loom in this photo – which is not correct.
- Do not tighten these cable ties until the 6722 harness is fastened below...

Step 9-6: Wire tie to tool box holes for the 67622



- On the inside back of the toolbox, use the 34239-0 Christmas tree wire ties to mount the 67622 beacon harness coming through the cable gland.
- Bring it forward and down utilizing the holes already present in the top of the box and the vertical holes drilled into the side of the box.
- Connect the 67622 and 67111 connectors using the push-pull-push method to confirm connection.



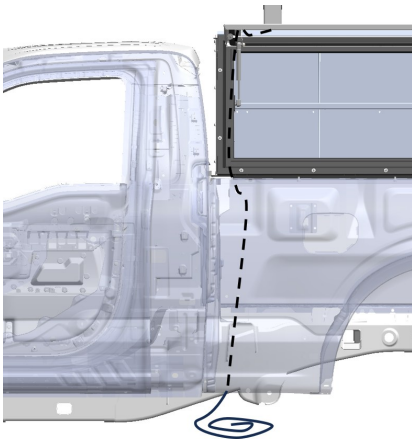
Section 9: 67111 Beacon/Lightbar Harness #1

Step 9-7: 67111 wire tie to toolbox side holes



- Take all the slack out of the harnessing and tighten and clip the cable ties.

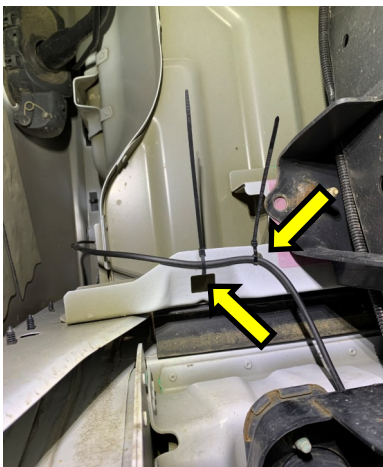
Step 9-8: Wire tie to holes for the 67111



- The extra length of 67111 harness should drop through the hole in the bed and into the side cavity of the bed and go to the ground under the vehicle.

Step 9-9: Wire tie to holes for the 67622

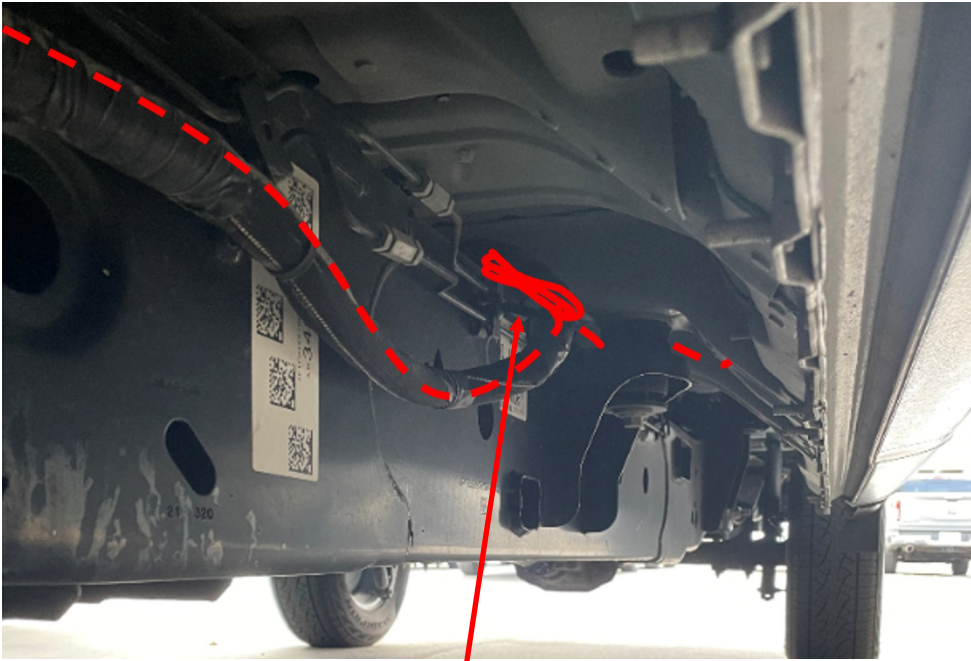
From
below on
Drivers
Side



- Use two cable ties to fasten the cable under the vehicle. This allows the cable to be directed over the flat edge without being pulled too taught.
- The harness is directed toward the front along the frame.

Section 9: 67111 Beacon/Lightbar Harness #1

Step 9-10: 67111 wire tie to protected harnessing under the vehicle



- The harness will follow along another harness and brake lines that go forward in the vehicle towards the cab.
- Do not tie directly to brake lines, but using bracket that hold brake lines is acceptable where there is no other harness to tie to.

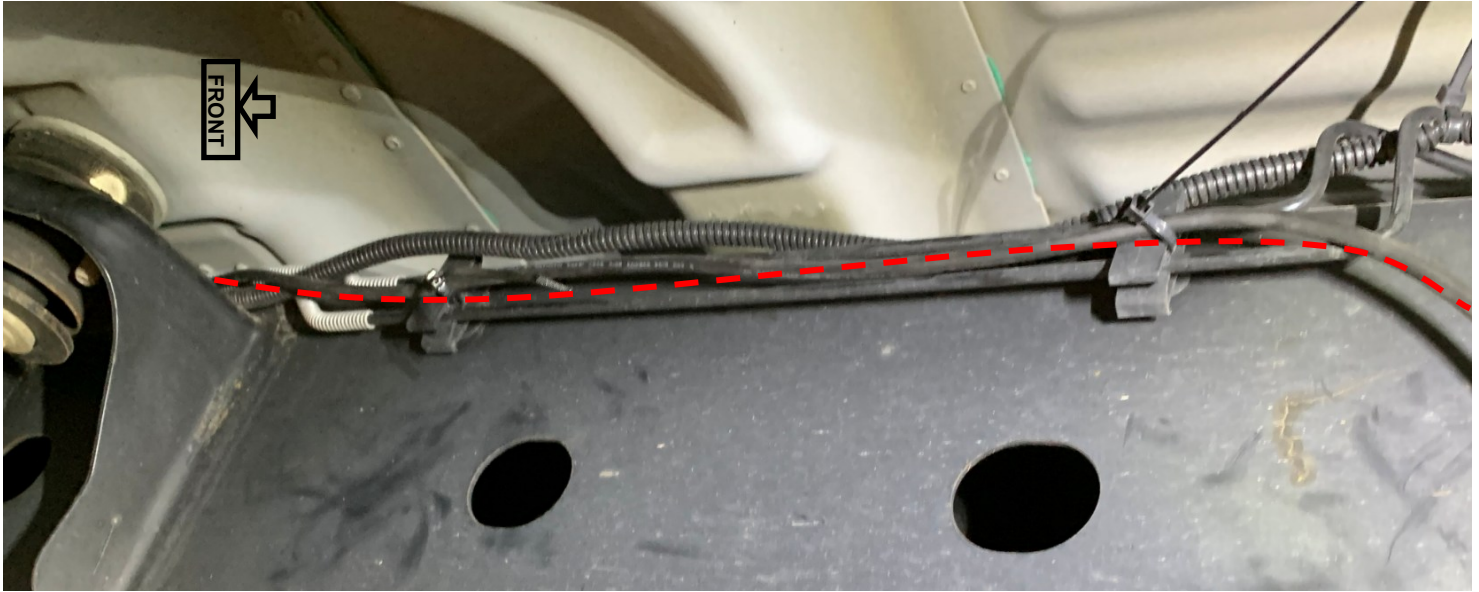


- There is extra length in this cable, so make accommodations to put a few wraps in a coil to keep it safely under the vehicle and well fastened to the underbody harness.
- Use several cable ties to hold firmly

Section 9: 67111 Beacon/Lightbar Harness #1

Step 9-11: 67111 wire tie to protected harnessing under the vehicle

- The harness will follow along another harness that goes forward in the vehicle towards the cab.



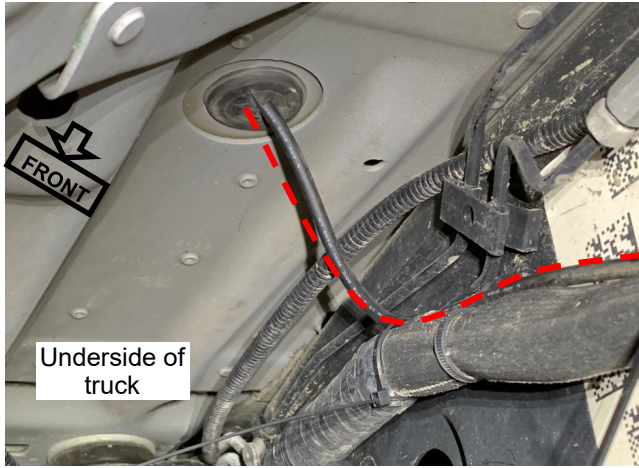
Step 9-12: Routing 67111 up to the floor grommet



- The harness continues to follow the harness forward until it reaches the hole in the floor pan under the drivers side foot-well.

Section 9: 67111 Beacon/Lightbar Harness #1

Step 9-13: Routing 67111 up to the floor grommet



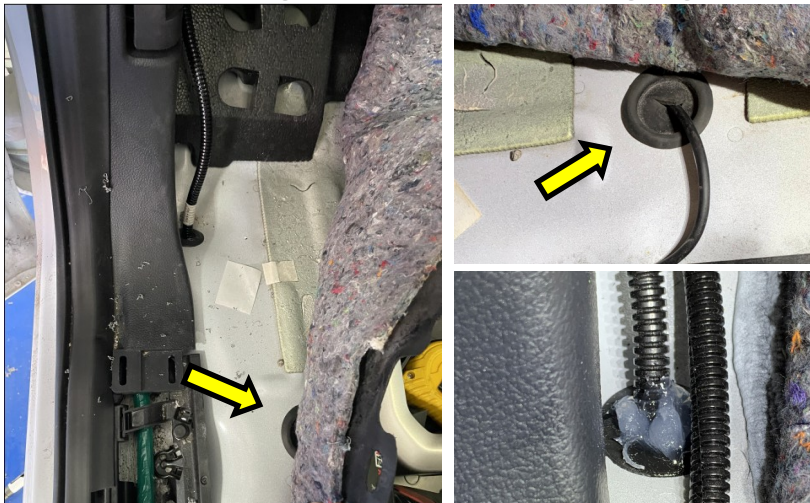
- The harness will follow along another harness that goes forward in the vehicle towards the cab.

Step 9-14: Remove floor trim and covering



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

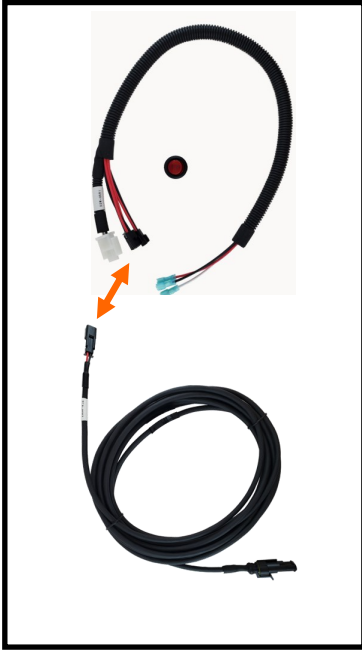
Step 9-15: Bring wire up and through grommet



- Locate the OEM grommets under the carpet. There will be one right next to the foot sill area and one to the right closer to the driver's seat.
- The Beacon will use the grommet closest to the driver's seat.
- Cut an "X" in the grommet. Pass the connector of the cable up through the grommet and into the cab
- Silicone the X cut in the grommet when done.

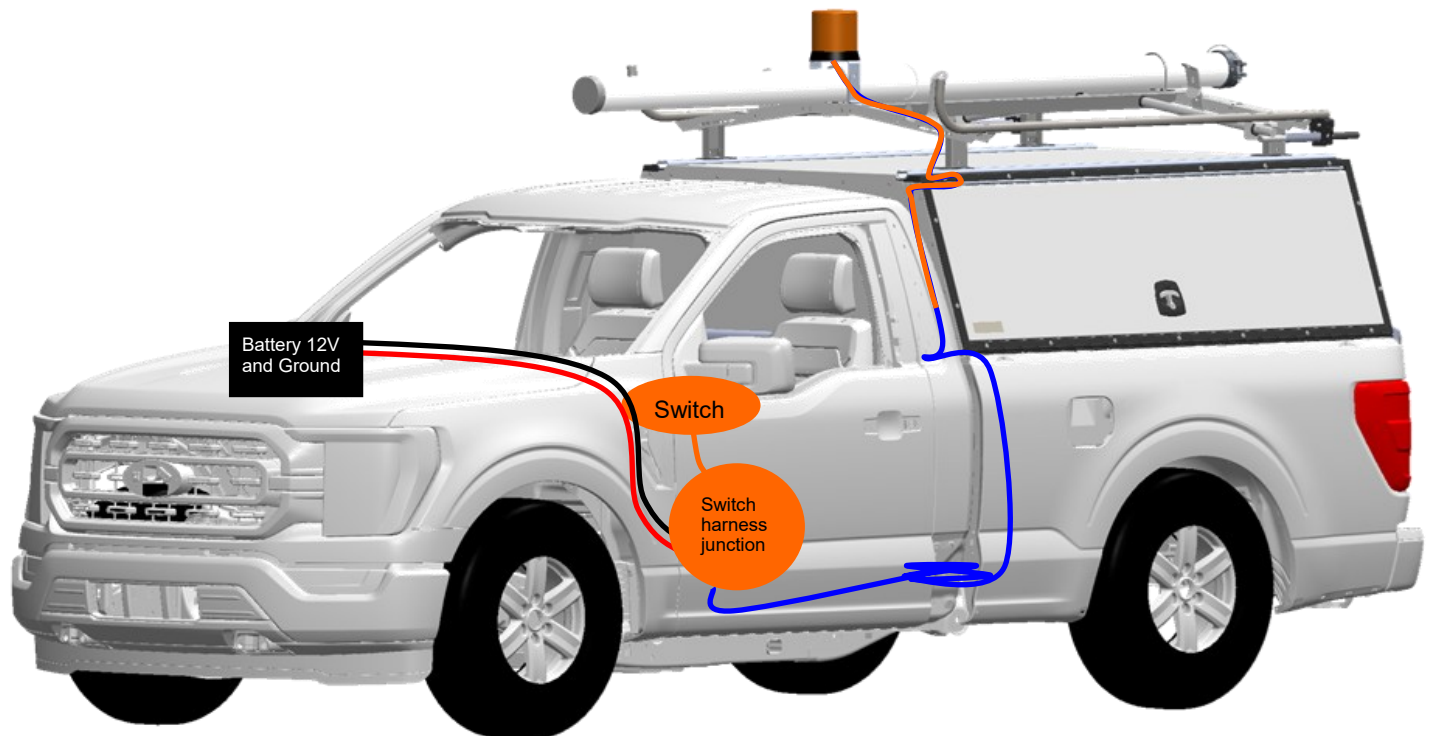
Section 9: 67111 Beacon/Lightbar Harness #1

Step 9-16: Connect the 67111 harness to 67907 Switch harness



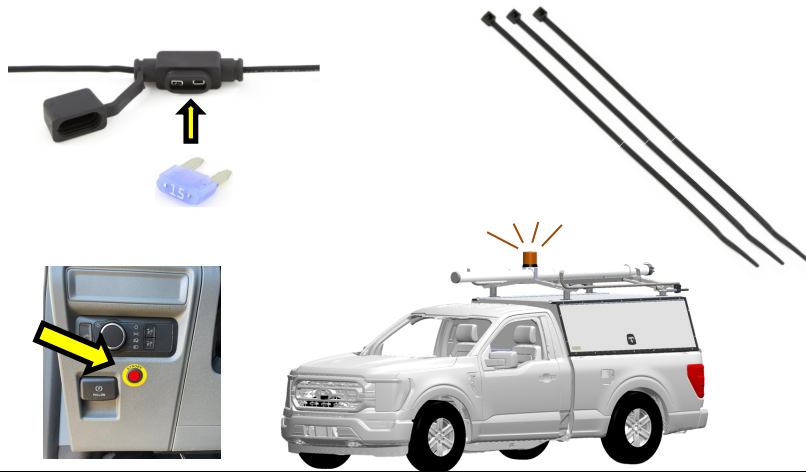
- Connect the harness to the switch harness (one of the remaining unused connectors) in the driver's foot well.
- Move harnessing to the edges of foot-well area, return the floor covering to its positions and replace the trim at the door sill

Step 9-14: Harnessing Complete



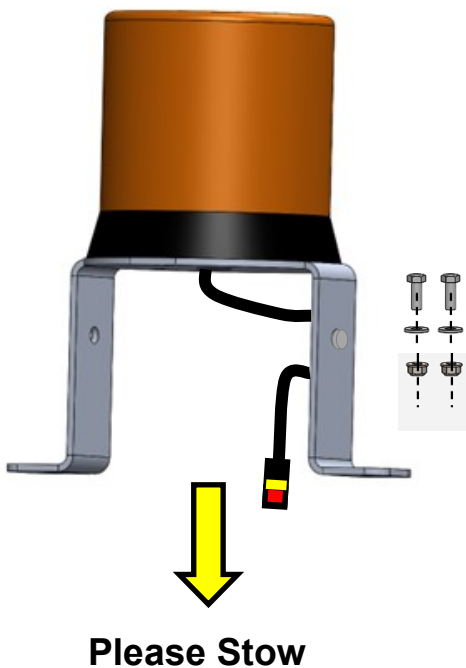
Section 10: Test and Stow

Step 15: Insert Fuse and Test



- Insert the fuse into the inline-fuse holder on the power harness.
- Push the switch to turn on the beacon.
- After beacon is confirmed working, be sure all wires are secured with wire ties especially under the vehicle, the drivers footwell, and in the topper around the tool box.
- Re-attach all trim.
- Re-assure all pass through holes have been siliconed.
- Double check the functionality of the lights and switches.

Step 15: Stow Beacon



- Disconnect the beacon pigtail from the 67622 harness at the ladder rack.
- Remove the beacon and its mount from the ladder rack and put in the stowage container.
- Be sure to also include hardware fasteners.
- Note: beacon pigtail can remain "P-clipped" onto the mount.

END INSTRUCTIONS

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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ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

906 JAMES STREET
ADRIAN, MI 49221
517-265-6194
WWW.ADRIANSTEEL.COM



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

DRAWN BY
MDG

DATE DRAWN
10/26/2006

ECN NUMBER
18021

ECN DATE
11/13/2015

PART WEIGHT
0.01 LBS.

REV. LEVEL
D

PART NUMBER
13905-0

ITEM DESCRIPTION: WIRE LOOM, 1/4 ID /FT



MANUFACTURER:

MANUFACTURERS PART NUMBER:

SPECIFICATIONS: CONVELUTED SPLIT LOOM, 1/4" ID /FT
NYLON OR POLYETHYLENE

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS INSTALLER SUPPLIED!

PURCHASED PRODUCT DATA SHEET (PPDS)

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LINES, CONTROL LINES AND ELECTRICAL
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DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!

DRAWN BY
JLG

DATE DRAWN
05/02/2006

ECN NUMBER
2957

ECN DATE
05/01/1992

PART WEIGHT
0.01 LBS.

REV. LEVEL
A

PART NUMBER

16347-0

PART NUMBER

26618-0**ITEM DESCRIPTION: SILICONE, 1oz. TUBE**

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

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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517-265-6194
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VEHICLES CHECK FOR FUEL TANKS, FUEL
LINES, CONTROL LINES AND ELECTRICAL
WIRING BEFORE DRILLING! ALWAYS USE
DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!

DRAWN BY
JLC

DATE DRAWN
7/21/2001

ECN NUMBER
16551

ECN DATE
7/22/2014

PART WEIGHT
0.02 LBS.

REV. LEVEL
C

PART NUMBER
26618-0

PART NUMBER

26618-0**ITEM DESCRIPTION: SILICONE, 1oz. TUBE**

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

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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VEHICLES CHECK FOR FUEL TANKS, FUEL
LINES, CONTROL LINES AND ELECTRICAL
WIRING BEFORE DRILLING! ALWAYS USE
DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!**

DRAWN BY
JLC

DATE DRAWN
7/21/2001

ECN NUMBER
16551

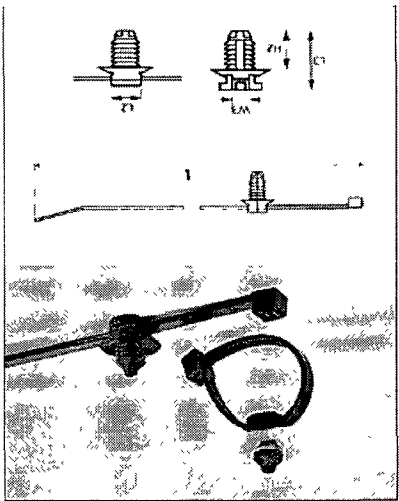
ECN DATE
7/22/2014

PART WEIGHT
0.02 LBS.

REV. LEVEL
C

PART NUMBER
26618-0

ITEM DESCRIPTION: WIRE TIE WITH CHRISTMAS TREE ATTACHMENT



MANUFACTURER: WAYTEK
MANUFACTURERS PART NUMBER: 21372

SPECIFICATIONS
FIR TREE MOUNT 50 LBS
PANEL THICKNESS .028"-.193"
MOUNTING HOLE .252 - .28"

SPECIAL NOTES: NONE

SUPPLIED BY: THIS ITEM IS INSTALLER SUPPLIED!

PURCHASED PRODUCT DATA SHEET (PPDS)

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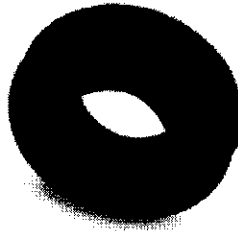
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517-265-6194
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CAUTION
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34239-0	PART NUMBER
10243	ECN NUMBER
5/14/2007	DATE DRAWN
APG	DRAWN BY
0.01 LBS.	PART WEIGHT
5/14/2007	REV LEVEL
A	REV LEVEL

PART NUMBER
34239-0

PART NUMBER

35735-0**ITEM DESCRIPTION: GROMMET,RUBBER,1/2"ID**

MANUFACTURER: WAYTEK
MANUFACTURERS PART NUMBER: 24516

SPECIFICATIONS: RUBBER GROMMET 3/4" O.D, 1/2" I.D.

SPECIAL NOTES: NONE

SUPPLIED BY: THIS ITEM IS INSTALLER SUPPLIED!

PURCHASED PRODUCT DATA SHEET (PPDS)

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LINES, CONTROL LINES AND ELECTRICAL
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DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!

DRAWN BY
APG

DATE DRAWN
2/11/2008

ECN NUMBER
11012

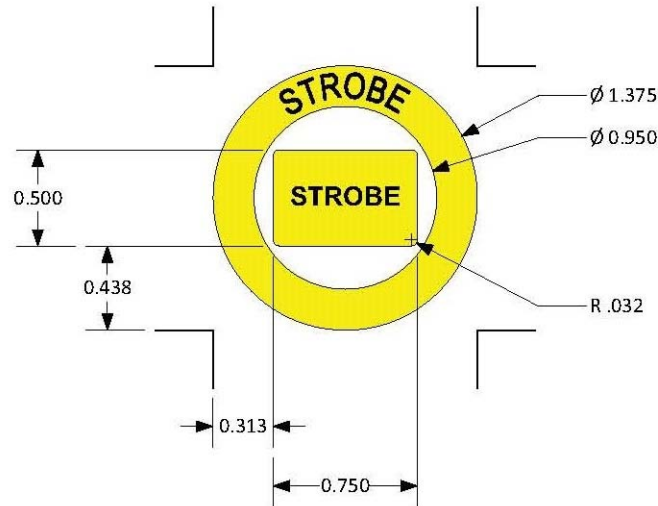
ECN DATE
2/11/2008

PART WEIGHT
0.00 LBS.

REV. LEVEL
A

PART NUMBER
35735-0

ITEM DESCRIPTION: STROBE SWITCH DECAL SET



MANUFACTURER: VANNER

MANUFACTURERS PART NUMBER: TBD

SPECIFICATIONS: (1) Circular Yellow Decal (ID=0.950", OD=1.375") with "STROBE" in black letters
 (1) Rectangular Yellow Decal (H=0.500", L=0.750") with "STROBE" in black letters

SPECIAL NOTES: For round rocker switch (OD=0.780") and Ford Transit Upfitter Switches.

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

Page 1 of 1

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CAUTION
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DRAWN BY
 RJB

DATE DRAWN
 11/15/2017

ECN NUMBER
 XXXX

ECN DATE
 XXXXXX

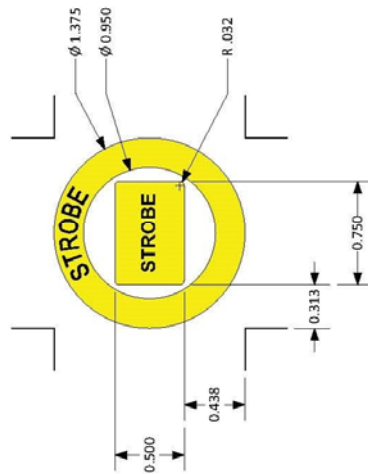
PART WEIGHT
 0.02 LBS.

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 MEO 11/14/17	CHKDATE XXX XXXXXX	SHEET 1 OF 1	REV A
SCALE: NONE RE/ECO NO.: XXXX			
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CAUTION

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DRAWN BY
RJB

DATE DRAWN
11/15/2017

ECN NUMBER
XXXX

ECN DATE
XXXXXXXX

PART WEIGHT
0.02 LBS.

REV. LEVEL
A

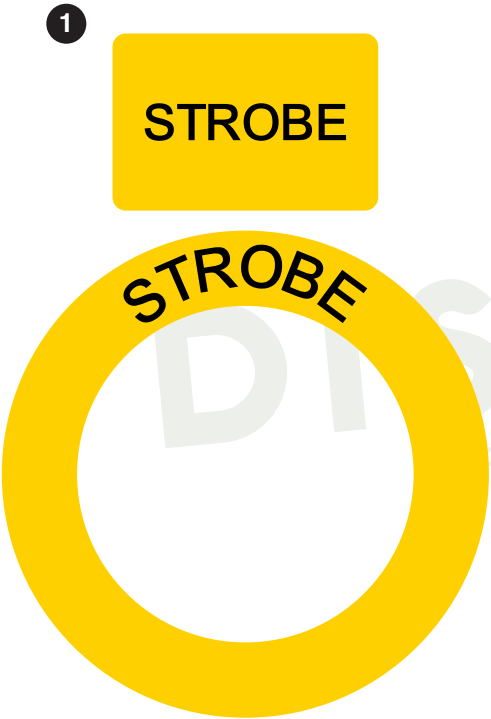
PART NUMBER
55073

PART NUMBER
55073

LOC | QTY | Part # | Description | Size

Material: IJ39 | Lamination: 8518

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



Note: Part will not be weeded, just cut.

Kit# 8001872 | Adrian Steel Part # 55073

06/01/2023 • JY
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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			

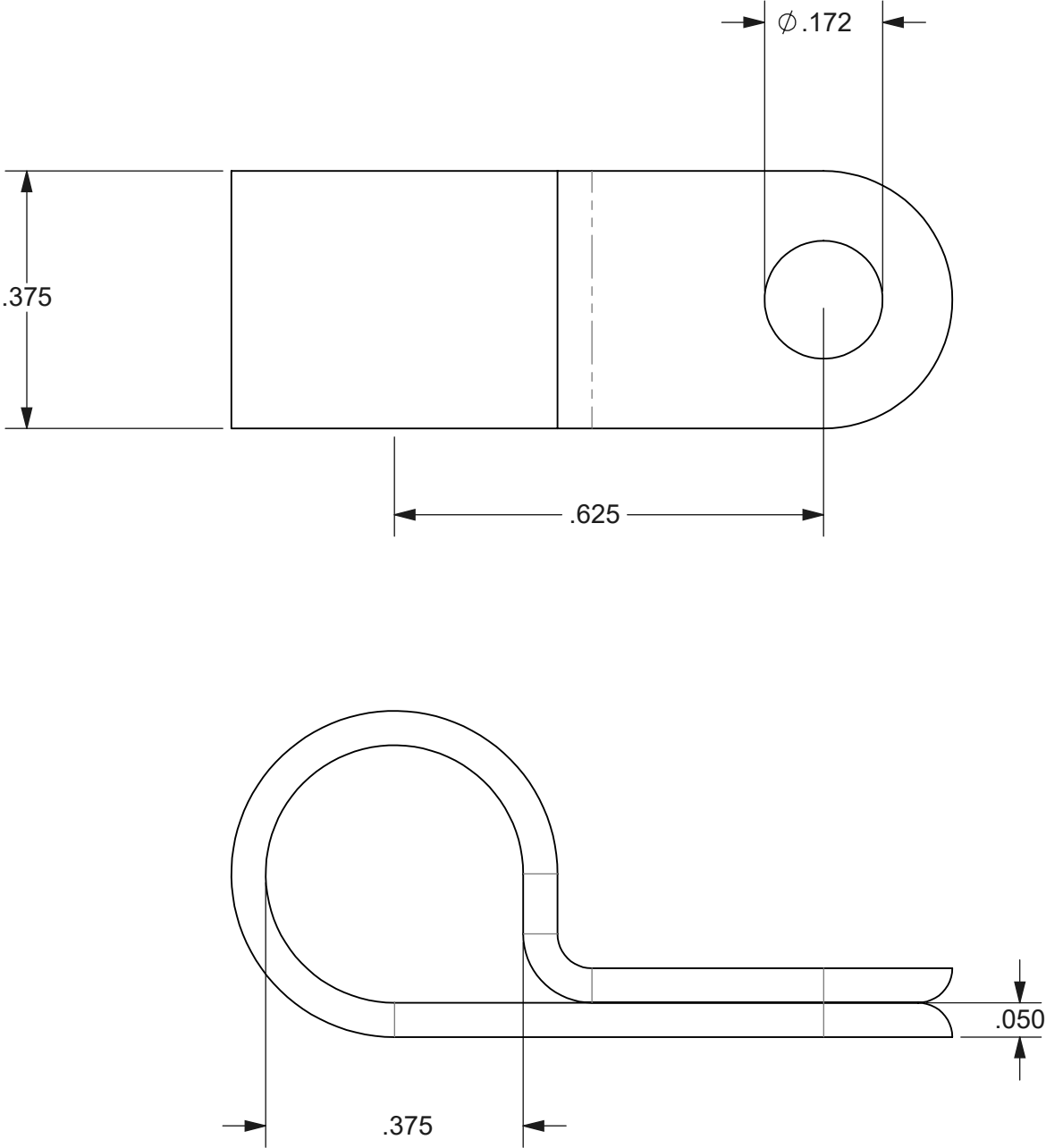
Please check information to confirm accurate vehicle specifications.

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

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

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS
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		PART / PRODUCT IDENTIFICATION			
UNLESS OTHERWISE SPECIFIED		AS ADRIAN STEEL® ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221			REVISION LEVEL A
ALL BEND ANGLES ARE 90 DEGREES					
ALL DIMENSIONS ARE IN INCHES.		MAT'L USED: PURCHASED		DESIGNED BY: E.BURKE	
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		DESCRIPTION: POWER HARNESS EXTERIOR 4			
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		PURCHASED COMPONENT			
INITIAL ECN: 25378		REFERENCED SUPPLIER AND/OR MANUFACTURER AAMP GLOBAL			
CURRENT ECN: 25378		REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER 67095 OR PWR-HAR4			
ECN DESCRIPTION: RELEASE FOR PRODUCTION		COLOR (ONLY LIST IF COLOR SPECIFIC) NO			
REVISED BY:		COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)			
		WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67095	

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

UNLESS OTHERWISE SPECIFIED		
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ALL DIMENSIONS ARE IN INCHES.		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		
FEATURES	HOLES/SLOTS	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS

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

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL

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

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

NO

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Sheet 1 of 1

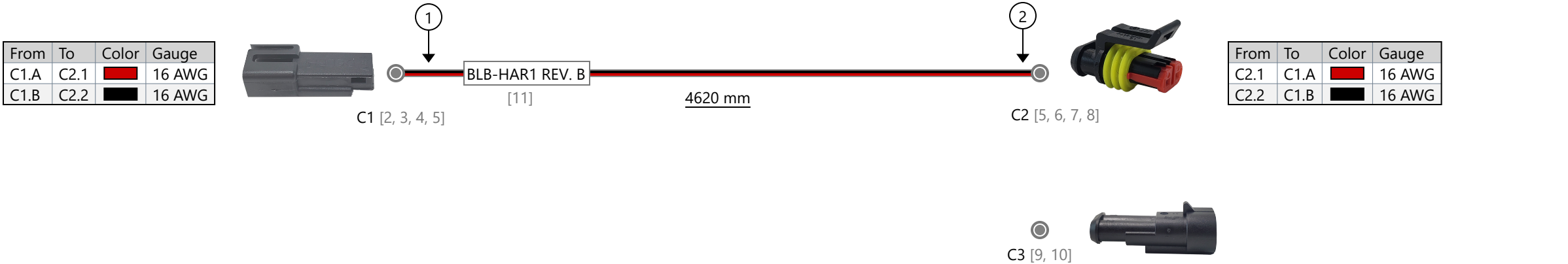
PART / PRODUCT IDENTIFICATION		
	ADRIAN STEEL®	
	ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	
MAT'L USED:	PURCHASED	DESIGNED BY: E.BURKE
DESCRIPTION:	BEACON/LIGHTBAR HARNESS 1	
WEIGHT (Lbs.):	0.2	PART NUMBER: 67111
SEGMENT CODE:	EBE	

REVISION LEVEL

B

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

Notes	
①	Heat shrink cable jacket and wire 20mm behind connector (Heat shrink = 38mm long)
②	Place adhesive lined heat shrink over C2 connector wire cavities and cable jacket (Heat shrink = 38mm long)
③	Plug C3 into C2
④	C3 Cavities are sealed

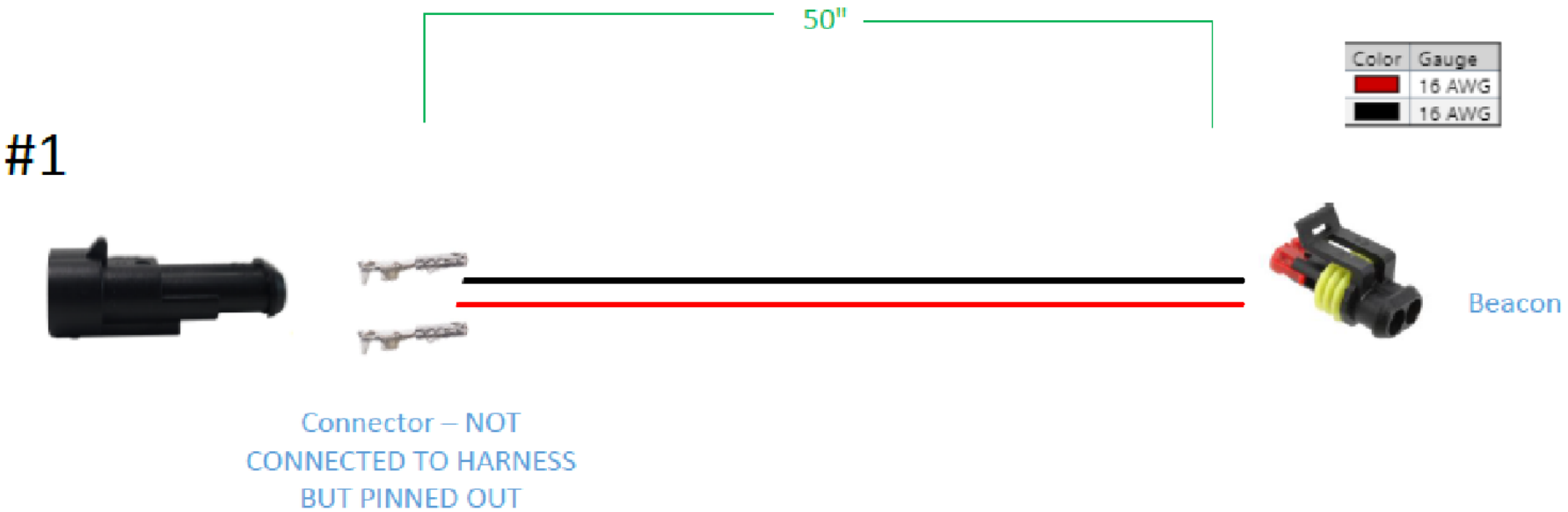


Revisions			
Rev.	Date	Author	Description
	11/5/2021	Bennet Fisher	Initial Drawing
	3/21/2022	Bennet Fisher	Added 300mm to harness; changed female connector
A	4/26/2022	Bennet Fisher	Added adhesive lined heat shrink to C2
B	4/3/2023	Bennet Fisher	Removed cable gland from harness

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AAMP GLOBAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AAMP GLOBAL IS PROHIBITED.		Name	Date	 — ADVANCING VEHICLE TECHNOLOGY —	
	Designed By	Bennet Fisher	04/26/2022		
	Engineering Approval				
	Manufacturing Approval				
	Revision Approval			Part Number: BLB-HAR1 REV. B_	
	Quality Assurance			Description: Beacon/Light Bar Harness - 4.62 Meters	
				Revision: B Sheet: 1	

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS
PLUG AND PLAY HARNESS FOR LADDER RACKS 1 BEACON IN THE MIDDLE OF 58" AND 68" RACK
INCLUDES: 10 CABLE TIES 1 CABLE GLAND 1 UN-CONNECTED TE282080-1 IN BAG 1 CAP FOR EXTERIOR 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: 26041
CURRENT ECN: 26788
ECN DESCRIPTION:
Update Revision
REVISED BY: SPL

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
67622
COLOR (ONLY LIST IF COLOR SPECIFIC)
NO
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

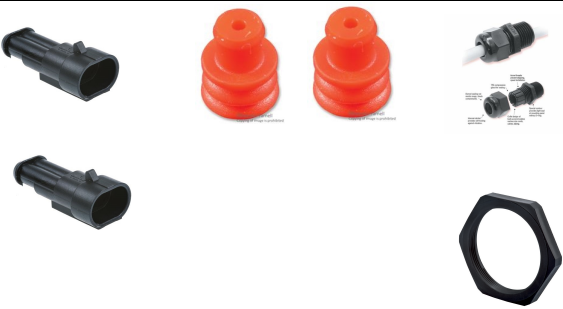
PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

PART / PRODUCT IDENTIFICATION

 ADRIAN STEEL® ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221			REVISION LEVEL C
MAT'L USED: PURCHASED		DESIGNED BY: E.BURKE	
DESCRIPTION: BEACON HARNESS 58/68"RACK			
WEIGHT (Lbs.): 0.1	SEGMENT CODE: ELE	PART NUMBER: 67622	

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Wire		16 AWG Black GXL	≥ 50 in
2	Wire		16 AWG Red GXL	≥ 50 in
9	Label		Heat Shrink Style Label	2
11	Corrugated Tubing		0.25" Nylon Non-Split Wall	50 in

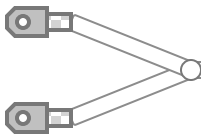


Coverings	
Id	Assembly
[11]	

2



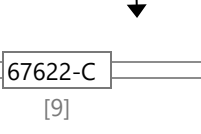
Notes	
①	Lock tape 1" behind each connector
2	Kit includes : -2Pos Conn (2) 1 w/Pluggs, 1 w/o Pluggs -Superseal Plug, inserted into above connector (2) -Cable Gland (1) -Lock Washer for Cable Gland (1) -Cable Tie (10) -10X10 Labeled Poly Bag (1)



QC1
QC2

From	To	Conductor	Color	Gauge
QC1	C2.1	W2.Red		16 AWG
QC2	C2.2	W1.Black		16 AWG

50 in [11]



C2

From	To	Conductor	Color	Gauge
C2.1	QC1	W2.Red		16 AWG
C2.2	QC2	W1.Black		16 AWG

Revisions			
Rev.	Date	Author	Description
A	5/13/2022	Melody Stanton	Initial Drawing
C	1/5/2023	Melody Stanton	Length Changes & Add Cable Gland

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AAMP GLOBAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AAMP GLOBAL IS PROHIBITED.		Name	Date		
	Designed By	Melody Stanton	1/5/23		
	Engineering Approval				
	Manufacturing Approval				
	Revision Approval			Part Number: 67622-C_	
	Quality Assurance			Description: Beacon Harness 58" Rack	
				Revision: C Sheet: 1	

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS
ECCO BEACON LIGHT: 7965A WITH EXTERIOR PLUG AND PLAY CONNECTOR AMBER LENS, WHITE LEDS



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

TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED		
ALL BEND ANGLES ARE 90 DEGREES		
ALL DIMENSIONS ARE IN INCHES.		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		
FEATURES	HOLES/SLOTS	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS

INITIAL ECN: 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
7965A-ADR
COLOR (ONLY LIST IF COLOR SPECIFIC)
AMBER LENS/WHITE LEDS
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

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Sheet 1 of 1

PART / PRODUCT IDENTIFICATION

		ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		REVISION LEVEL A
MAT'L USED: PURCHASED			DESIGNED BY: EMB			
DESCRIPTION: ECCO LED BCN 7965 W/CONN						
WEIGHT (Lbs.): 1.5		SEGMENT CODE: EBE		PART NUMBER: 67689		

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING) 3/4" WIDE X 66 FEET
LOAD/RATING REQUIREMENT N/A
MATERIAL REQUIREMENT APN:56710 / FASTENAL PART NO. 0747413
PACKAGING REQUIREMENT N/A
OTHER REQUIREMENTS Description: COLOR: BLACK BREAKING STRENGTH: >15.4 LB/IN VOLTAGE: 600



PICTURES FOR REFERENCE ONLY

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TOLERANCES & INSPECTION	RELEASE & REVISIONS	
UNLESS OTHERWISE SPECIFIED	INITIAL ECN: 26402	
ALL BEND ANGLES ARE 90 DEGREES	CURRENT ECN: 26402	
ALL DIMENSIONS ARE IN INCHES.	ECN DESCRIPTION:	
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION	Release to production	
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031	HOLES/SLOTS 0.0 = ± .062 0.00 = ± .031 0.000 = ± .015	ANGLES 0° = ± 2° 0.0° = ± 1°
Material Thickness: per ASTM Std. Weld Callouts per AWS		
REVISED BY: SPL (5/23)		

PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER Fastenal
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER 0747413
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	
MAT'L USED: PURCHASED		DESIGNED BY: S.LUKAS	
DESCRIPTION: Tape, Electrical, 3/4" /FT		REVISION LEVEL A	
WEIGHT (Lbs.): 0.01	SEGMENT CODE: RAW	PART NUMBER: 70800	