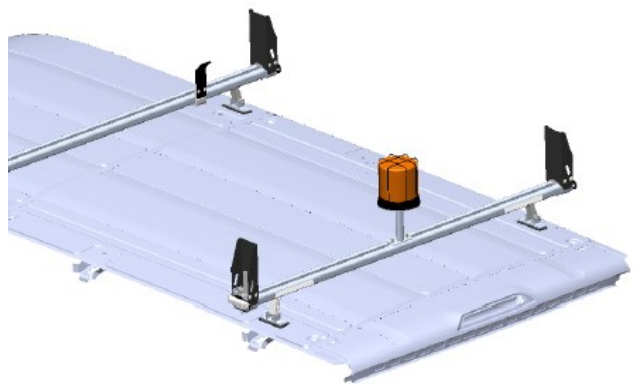
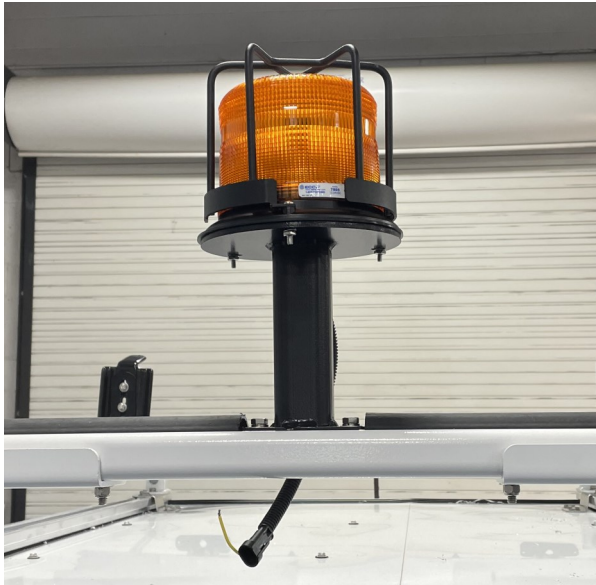


Introduction / Comments:

Install Instructions Ladder Rack Lighting for Promaster City Vans

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 Ladder Rack Lighting For Promaster City Vans

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*****TORQUE*****

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

DO NOT MOUNT ON A CURVED SURFACE

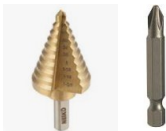
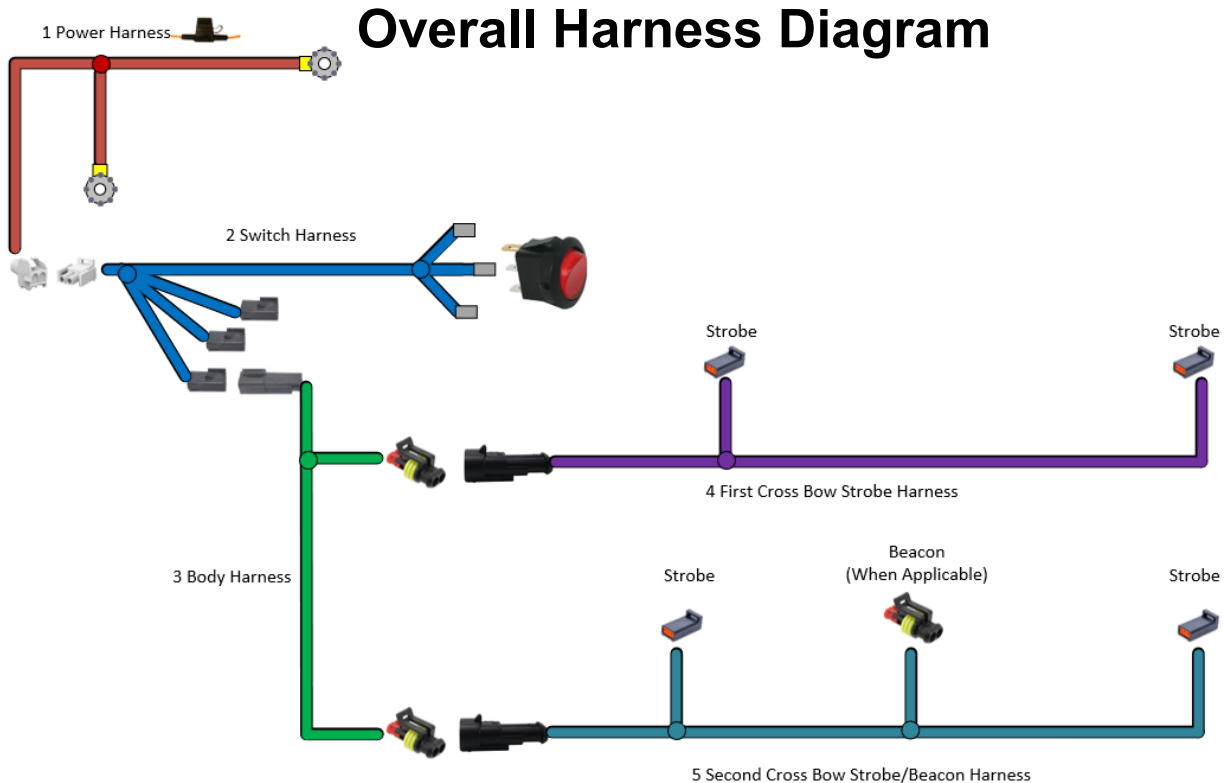
****Please read statement below before moving forward****

Before installation, disconnect the OEM's 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.



Tools required:

13mm and 10mm socket
and wrenches

Phillips #1 and #3 bit,

1/2" drill bit and 5/16"
step drill bit

Power drill and impact

Torque wrench

Trim tools

Promaster City Ladder Rack Lighting Harnesses

71013 / 71017 / 71021: 4 Corner Strobes On Utility Rack, Grip Lock, And Prolift

Num	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4/5	2	67614	Strobe Harness For 58" Rack

71058: Beacon Only On Utility Rack, Grip Lock, And Prolift

Num	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
5	1	67622	Beacon Harness For 58"/68" Rack

71014: Front And Rear Strobes On Utility Rack, Grip Lock, And Prolift

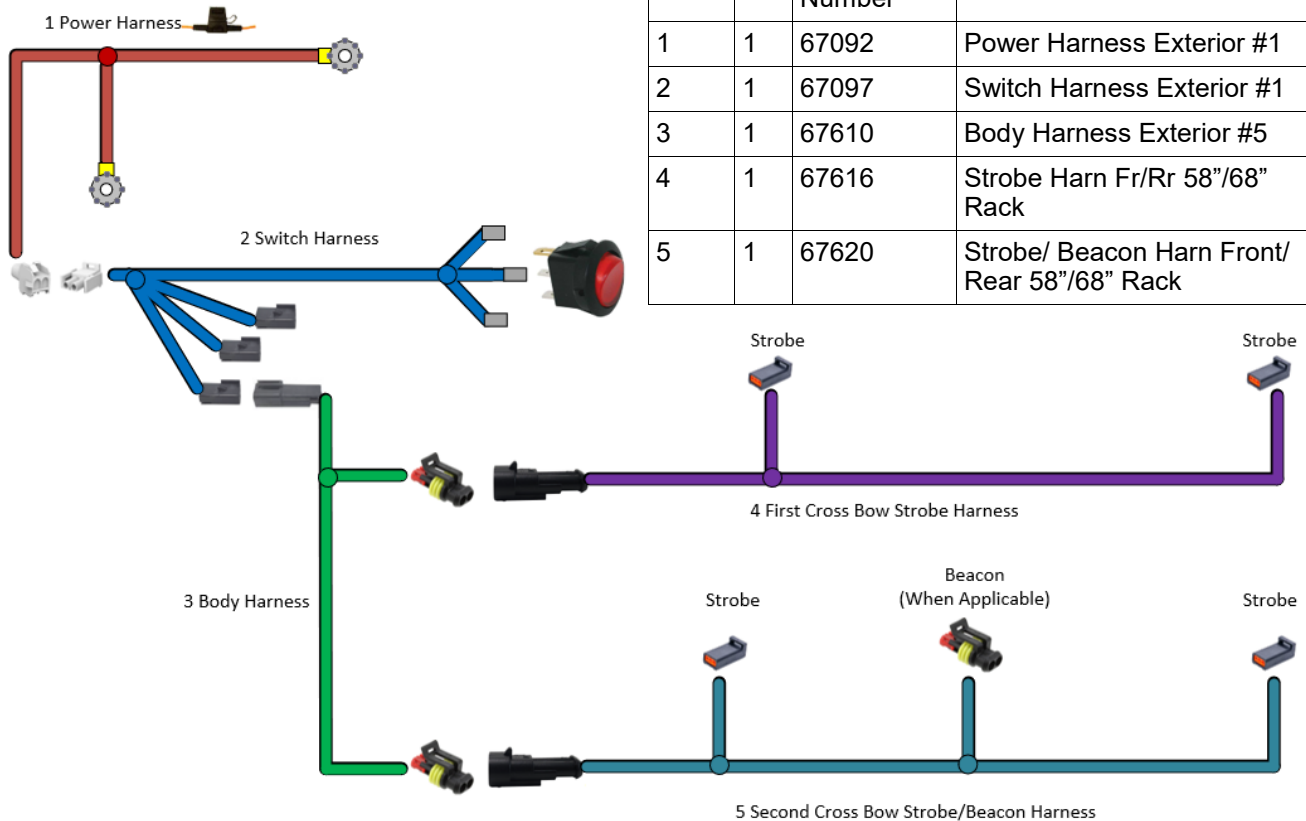
Num	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4/5	2	67616	Strobe Harn Front/Rear 58"/68" Rack

71015 / 71019 / 71023: 4 Corner Strobes And Beacon On Utility Rack, Grip Lock, And Prolift

Num	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4	1	67614	Strobe Harness For 58" Rack
5	1	67618	Strobe/Beacon Harn For 58" Rack

71016: Front And Rear Strobes With Beacon On Utility Rack, Grip Lock, And Prolift

Num	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4	1	67616	Strobe Harn Fr/Rr 58"/68" Rack
5	1	67620	Strobe/ Beacon Harn Front/ Rear 58"/68" Rack



Promaster City Ladder Rack Brackets And Bags

71013: 4 Corner Strobes On Utility Rack

Num	Q	Part Number	Description
N/A	1	BAG66095	Bag For Strobes On Utility Rack
1	4	67686	Ecco Plug And Play Strobes
2	4	66103-B	Strobe Bracket For Utility Rack

71017: 4 Corner Strobes On Grip Lock

Num	Q	Part Number	Description
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
1	4	67686	Ecco Plug And Play Strobes
3	4	67130-B	Strobe Bracket For Grip Lock

71021: 4 Corner Strobes On Prolift

Num	Q	Part Number	Description
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
1	4	67686	Ecco Plug And Play Strobes
4	4	67136-B	Strobe Bracket For Prolift

71015: 4 Corner Strobes And Beacon On Utility Rack

Num	Q	Part Number	Description
N/A	1	BAG66095	Bag For Strobes On Utility Rack
N/A	1	BAG66092	Bag For Beacon On Utility Rack
1	4	67686	Ecco Plug And Play Strobes
2	4	66103-B	Strobe Bracket For Utility Rack
6	1	70970	Beacon Assembly Kit—Boxed

71023: 4 Corner Strobes And Beacon On Prolift

Num	Q	Part Number	Description
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
N/A	1	BAG66092	Bag For Beacon On Utility Rack
1	4	67686	Ecco Plug And Play Strobes
4	4	67136-B	Strobe Bracket For Prolift
6	1	70970	Beacon Assembly Kit—Boxed

71058: Beacon Only On Utility Rack, Grip Lock, And

Num	Q	Part Number	Description
N/A	1	BAG66092	Bag For Beacon On Utility Rack
6	1	70970	Beacon Assembly Kit—Boxed

71019: 4 Corner Strobes And Beacon On Grip Lock

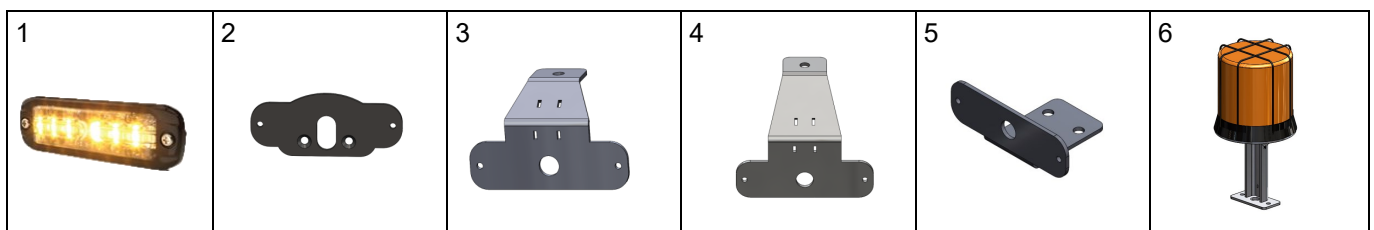
Num	Q	Part Number	Description
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
N/A	1	BAG66092	Bag For Beacon On Utility Rack
1	4	67686	Ecco Plug And Play Strobes
3	4	67130-B	Strobe Bracket For Grip Lock
6	1	70970	Beacon Assembly Kit—Boxed

71014: Front And Rear Strobes On Utility Rack, Grip

Num	Q	Part Number	Description
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
1	4	67686	Ecco Plug And Play Strobes
5	4	67824-B	Front/Rear Strobe Bracket All Racks

71016: Front And Rear Strobes With Beacon On Utility Rack, Grip Lock, and Prolift

Num	Q	Part Number	Description
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
N/A	1	BAG66092	Bag For Beacon On Utility Rack
1	4	67686	Ecco Plug And Play Strobes
5	4	67824-B	Front/Rear Strobe Bracket All Racks
6	1	70970	Beacon Assembly Kit—Boxed



Promaster City Half/Half Ladder Rack Lighting Harnesses

71541: 4 Corner Strobes: Half Utility / Half Grip Lock

Num	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4/5	2	67614	Strobe Harness For 58" Rack

71542: 4 Corner Strobes: Half Utility / Half Prolift

Num	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4/5	2	67614	Strobe Harness For 58" Rack

71543: 4 Corner Strobes: Half Grip Lock / Half Prolift

Num	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4/5	2	67614	Strobe Harness For 58" Rack

71544: 4 Corner Strobes With Beacon: Half Utility / Half Grip Lock

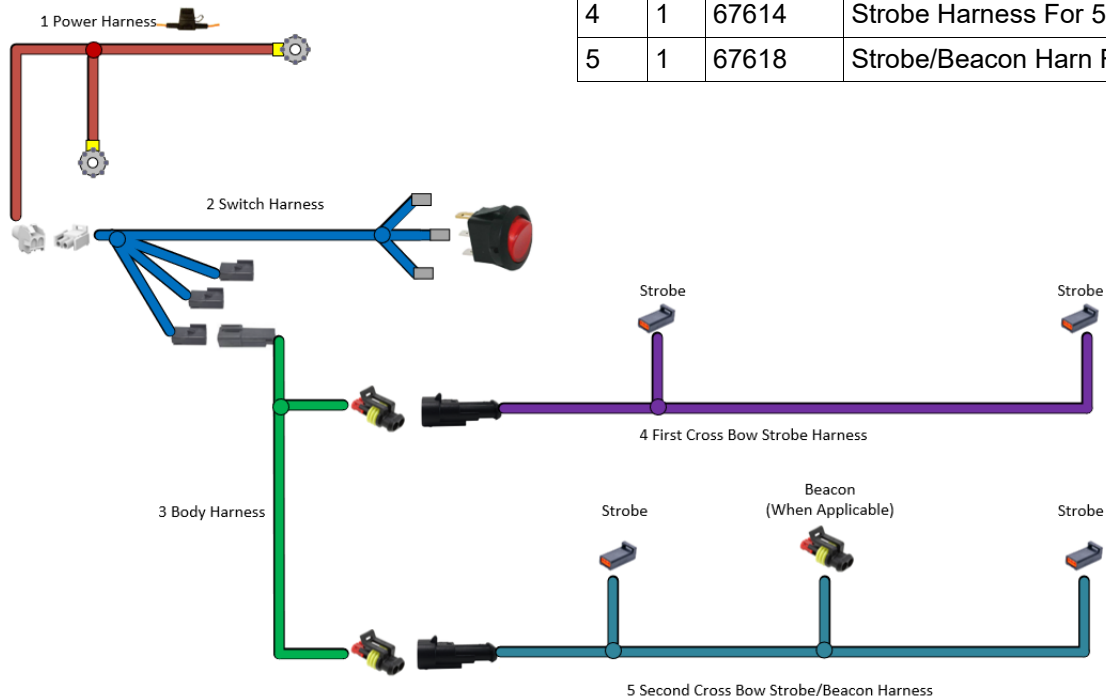
Nu m	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4	1	67614	Strobe Harness For 58" Rack
5	1	67618	Strobe/Beacon Harn For 58" Rack

71545: 4 Corner Strobes With Beacon: Half Utility / Half Prolift

Nu m	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4	1	67614	Strobe Harness For 58" Rack
5	1	67618	Strobe/Beacon Harn For 58" Rack

71546: 4 Corner Strobes With Beacon: Half Grip Lock / Half Prolift

Nu m	Q	Part Number	Description
1	1	67092	Power Harness Exterior #1
2	1	67097	Switch Harness Exterior #1
3	1	67610	Body Harness Exterior #5
4	1	67614	Strobe Harness For 58" Rack
5	1	67618	Strobe/Beacon Harn For 58" Rack



Promaster City Half/Half Ladder Rack Brackets And Bags

71541: 4 Corner Strobes: Half Utility / Half Grip Lock

Num	Q	Part Number	Description
N/A	1	BAG66095	Bag For Strobes On Utility Rack
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
1	4	67686	Ecco Plug And Play Strobes
2	2	66103-B	Strobe Bracket For Utility Rack
3	2	67130-B	Strobe Bracket For Grip Lock

71542: 4 Corner Strobes: Half Utility / Half Prolift

Num	Q	Part Number	Description
N/A	1	BAG66095	Bag For Strobes On Utility Rack
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
1	4	67686	Ecco Plug And Play Strobes
2	2	66103-B	Strobe Bracket For Utility Rack
4	2	67136-B	Strobe Bracket For Prolift

71543: 4 Corner Strobes: Half Grip Lock / Half Prolift

Num	Q	Part Number	Description
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
1	4	67686	Ecco Plug And Play Strobes
3	2	67130-B	Strobe Bracket For Grip Lock
4	2	67136-B	Strobe Bracket For Prolift

71544: 4 Corner Strobes With Beacon: Half Utility / Half Grip Lock

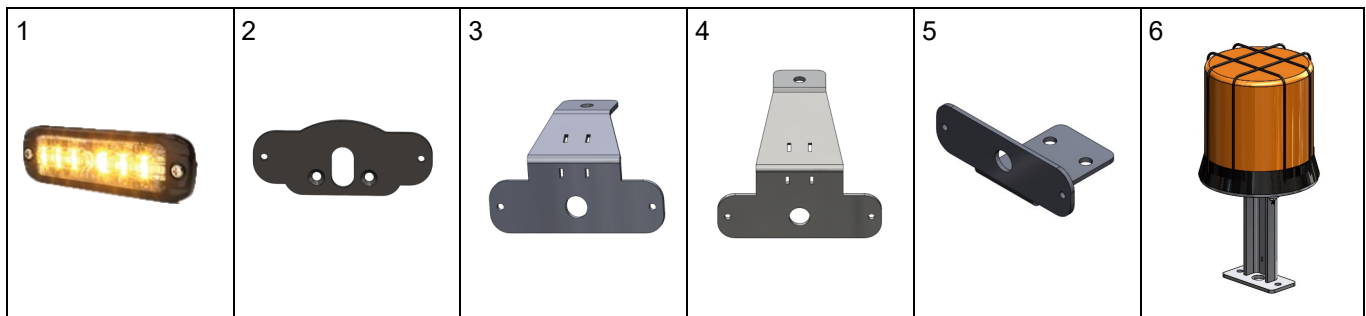
Num	Q	Part Number	Description
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
N/A	1	BAG66092	Bag For Beacon On Utility Rack
N/A	1	BAG66095	Bag For Strobes On Utility Rack
1	4	67686	Ecco Plug And Play Strobes
2	2	66103-B	Strobe Bracket For Utility Rack
3	2	67130-B	Strobe Bracket For Grip Lock
6	1	70970	Beacon Assembly Kit—Boxed

71545: 4 Corner Strobes With Beacon: Half Utility / Half Prolift

Num	Q	Part Number	Description
N/A	1	BAG66095	Bag For Strobes On Utility Rack
N/A	1	BAG66092	Bag For Beacon On Utility Rack
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
1	4	67686	Ecco Plug And Play Strobes
2	2	66103-B	Strobe Bracket For Utility Rack
4	2	67136-B	Strobe Bracket For Prolift
6	1	70970	Beacon Assembly Kit—Boxed

71546: 4 Corner Strobes With Beacon: Half Grip Lock / Half Prolift

Num	Q	Part Number	Description
N/A	1	BAG70965	Bag For Strobes On Grip/Prolift
N/A	1	BAG66092	Bag For Beacon On Utility Rack
1	4	67686	Ecco Plug And Play Strobes
3	2	67130-B	Strobe Bracket For Grip Lock
4	2	67136-B	Strobe Bracket For Prolift
6	1	70970	Beacon Assembly Kit—Boxed

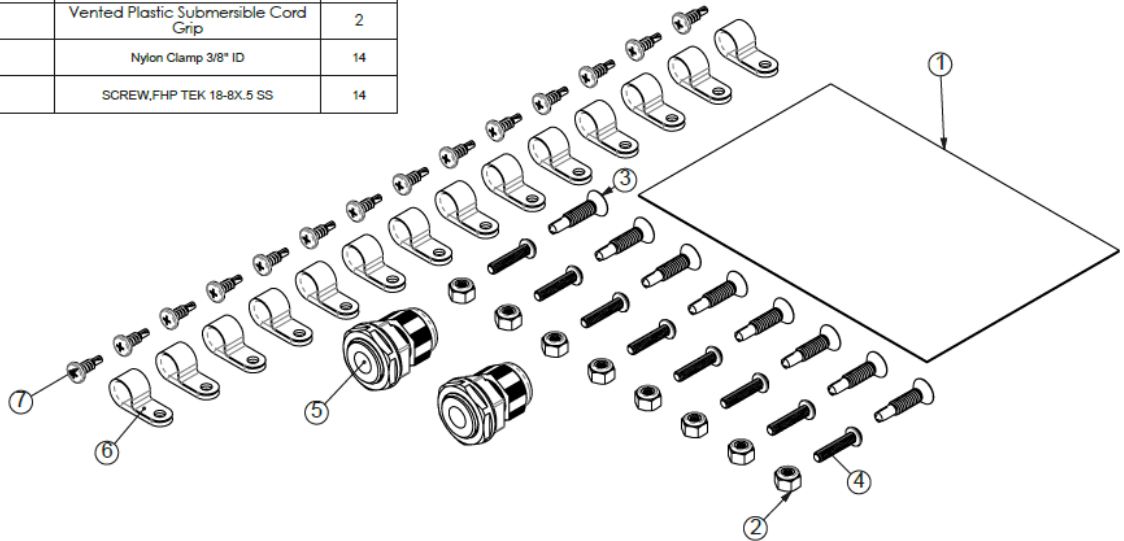


Fastener Bags

Note: Not all components in the bags will be used on every install

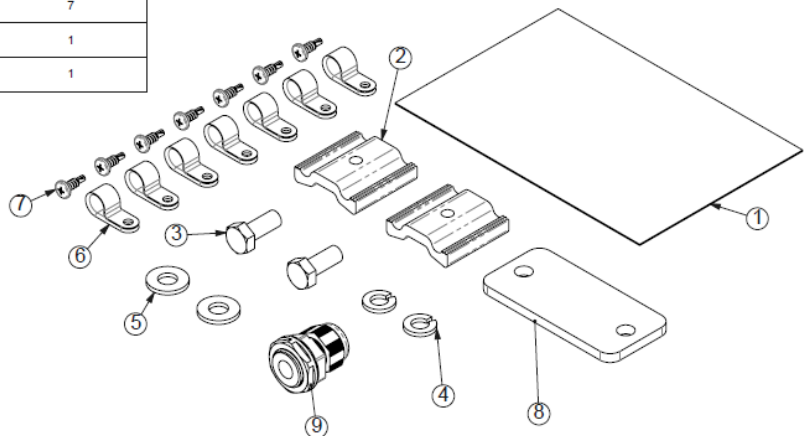
BAG66095 For utility rack strobe kit only:

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0406-A	4" x 6" 3MIL AUTOBAG	1
2	FAS0501	NUT, HEX NLK 8-32 SS	8
3	FAS0502	SCREW, FHPSD 12-14X1.00 SS	8
4	FAS0503	SCREW, RHP 8-32X.75 SS	8
5	65314	Vented Plastic Submersible Cord Grip	2
6	66843	Nylon Clamp 3/8" ID	14
7	FAS0842	SCREW, FHP TEK 18-8X.5 SS	14



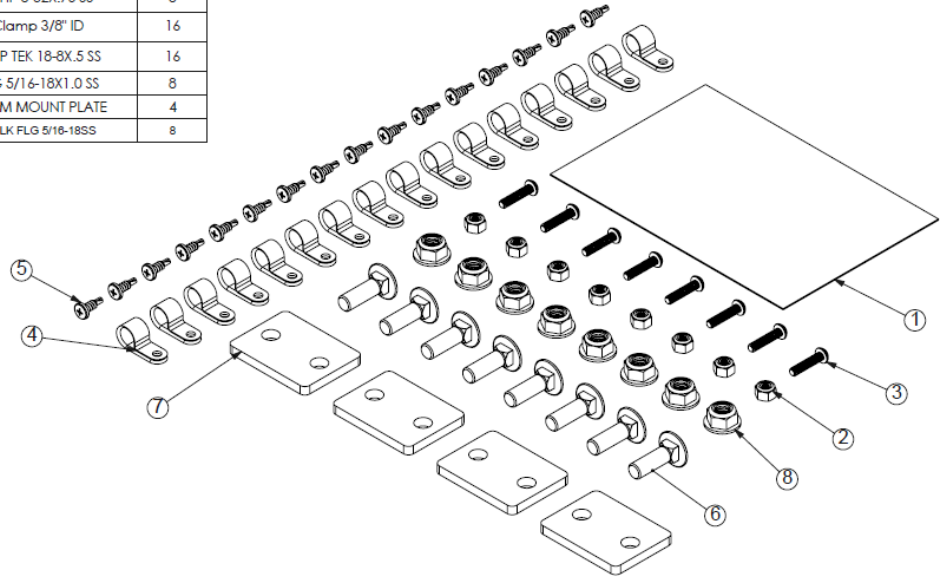
BAG66092 For all ladder rack beacon kits:

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0406-A	4" x 6" 3MIL AUTOBAG	1
2	35335-0	SLIDE, 1.5" / AD RAIL	2
3	FAS0799	Screw, Hex Hd, 5/16-18x0.75 SS	2
4	FAS0588	Washer, Lock, Split, 5/16, SS	2
5	FAS0552	Washer, Flat, 5/16, SST	2
6	66843	Nylon Clamp 3/8" ID	7
7	FAS0842	SCREW, FHP TEK 18-8X.5 SS	7
8	64831	REAR ROLLER, SPACER	1
9	65314	Vented Plastic Submersible Cord Grip	1



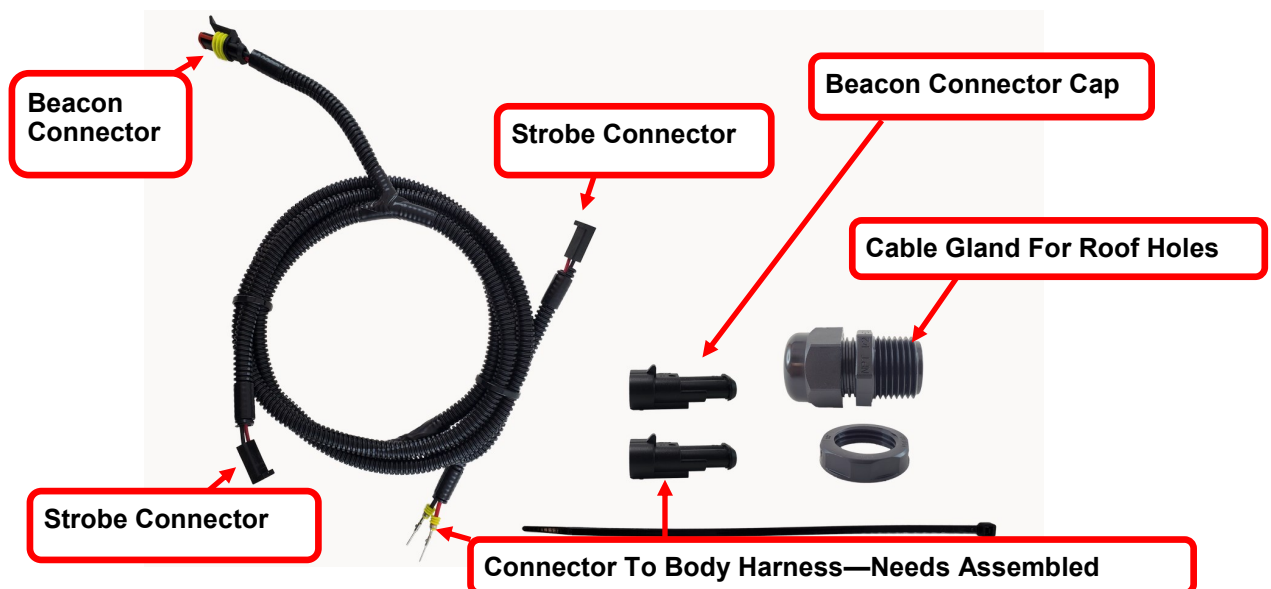
BAG70965 For all grip lock and prolift rack strobe kits -4 corner strobes and front / rear strobes:

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0406-A	4" x 6" 3MIL AUTOBAG	1
2	FAS0501	NUT, HEX NLK 8-32 SS	8
3	FAS0503	SCREW, RHP 8-32X.75 SS	8
4	66843	Nylon Clamp 3/8" ID	16
5	FAS0842	SCREW, FHP TEK 18-8X.5 SS	16
6	FAS0398	BOLT, CRG 5/16-18X1.0 SS	8
7	63933	UTILITY, COM MOUNT PLATE	4
8	FAS0861	NUT, HEX NLK FLG 5/16-18SS	8



****Important note: Installing the beacon hardware, strobes, and wiring may be much easier to do before installing anything onto the ladder rack cross bows. Also, before installation of the ladder rack to the vehicle.****

67618 Cross Bow Harness Reference Diagram:



Placements

Switch placement: On Dash Trim Panel

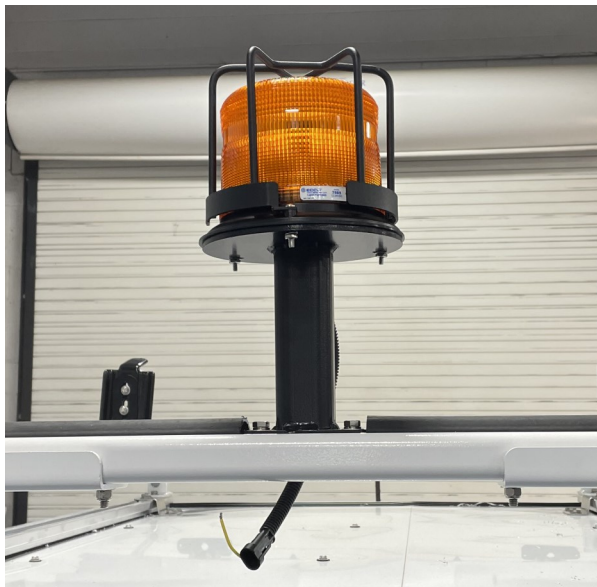


Corner Strobes: On Corners Of All Ladder Rack Cross Bows



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

Beacon: Middle Of Rear Cross Bow

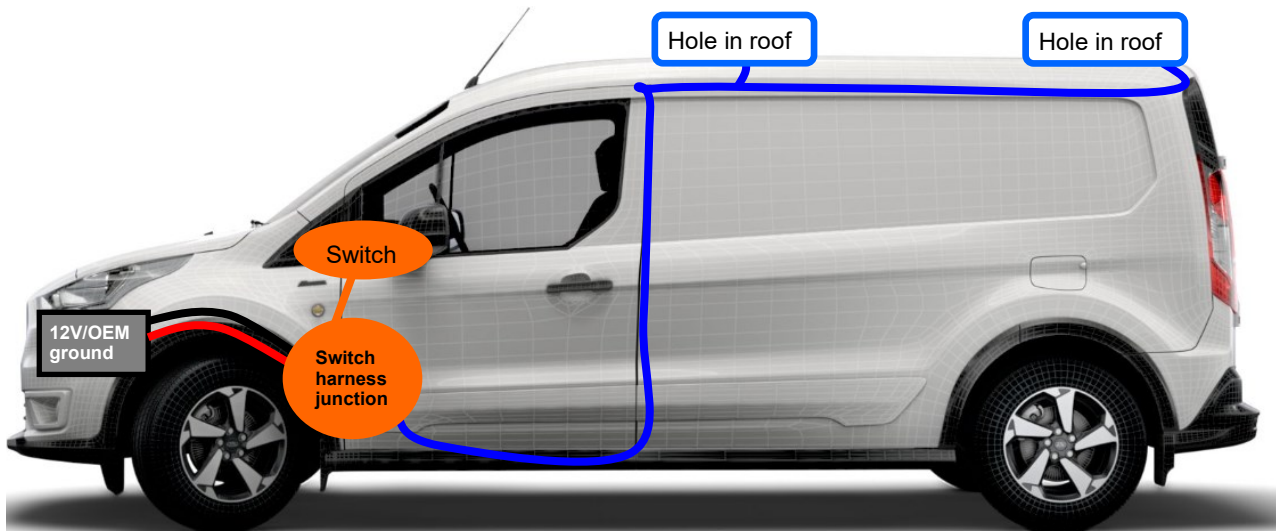
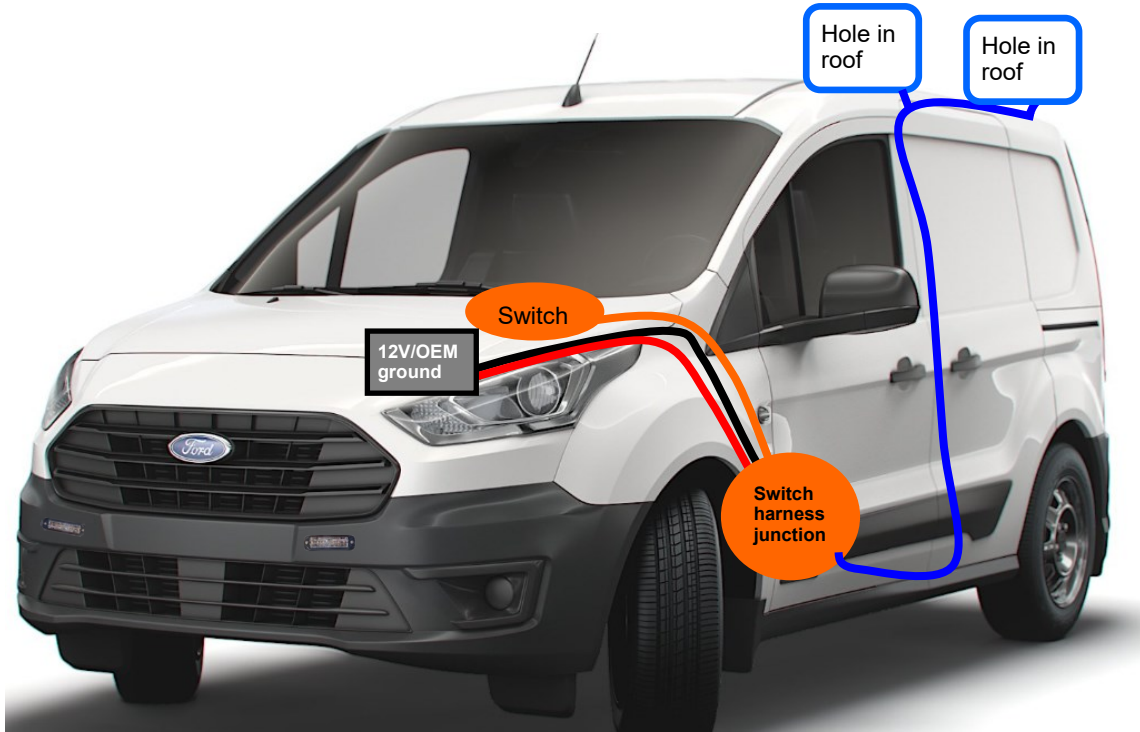


Front / Rear Strobes: Middle Of Cross Bows



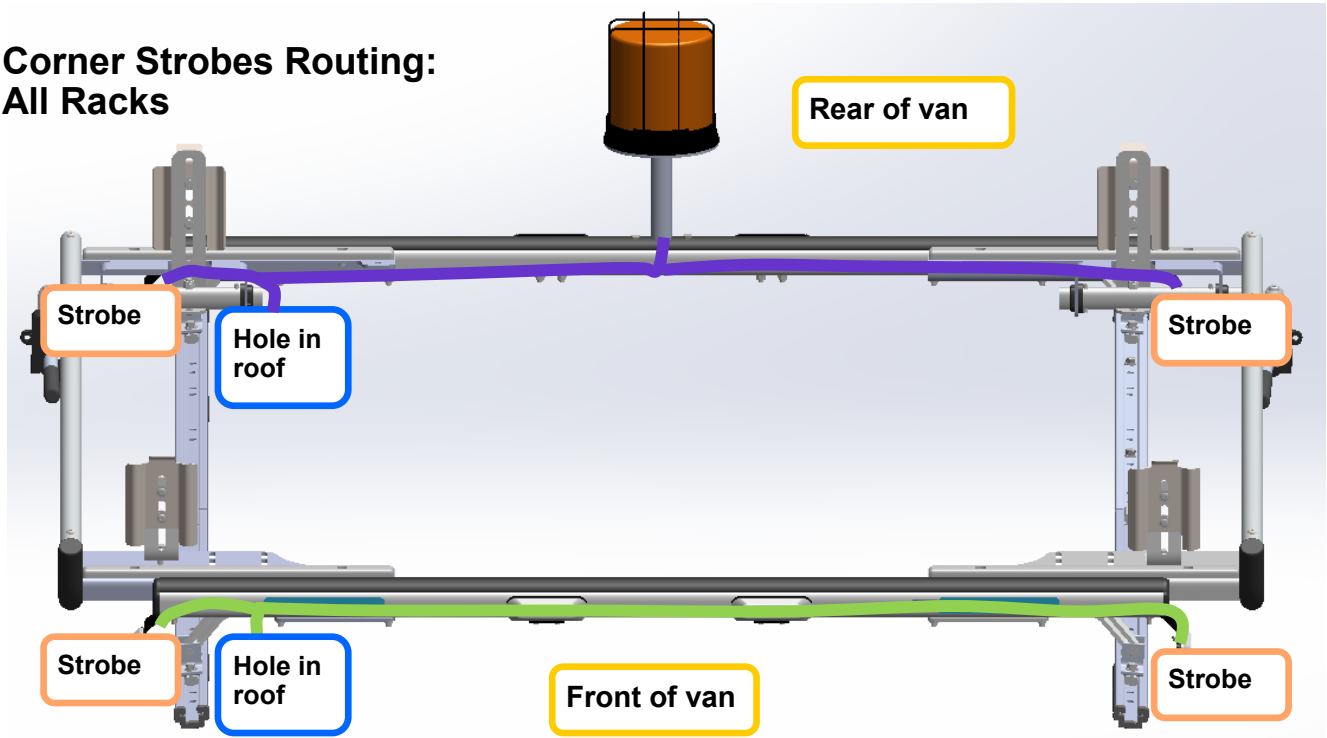
The purpose of plug and play lighting is to be completely modular. Due to this feature, refer to the order drawing for all exact lighting placements. These installation instructions are for most cases and for reference. Not all installs will have strobes or beacons. Reference the instructions for only what you are installing.

Routing Overview



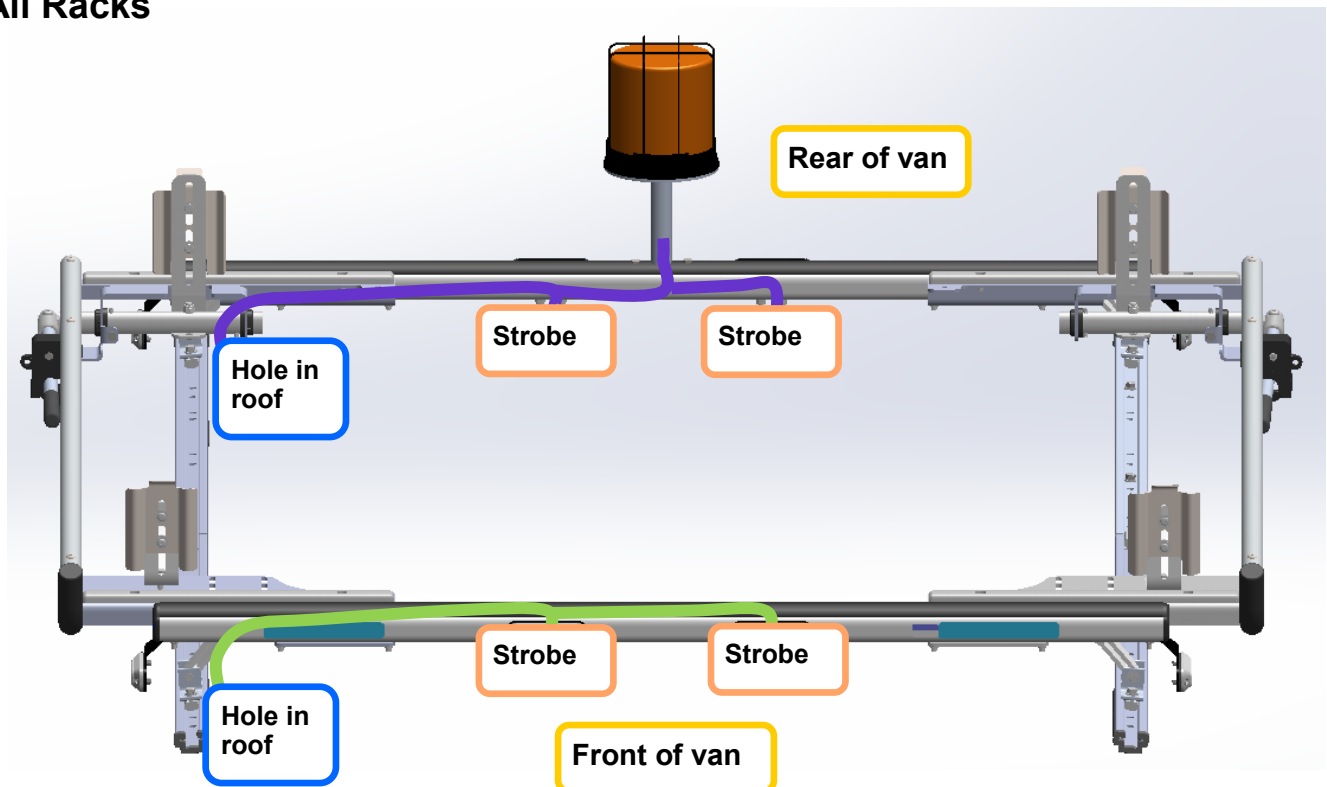
Color	Key - Items
Red/Black	Power harness: Battery to kick panel
Orange	Switch harness: Switch in dash
Blue	Body Harness: Switch to ladder rack harnesses

Corner Strobes Routing: All Racks

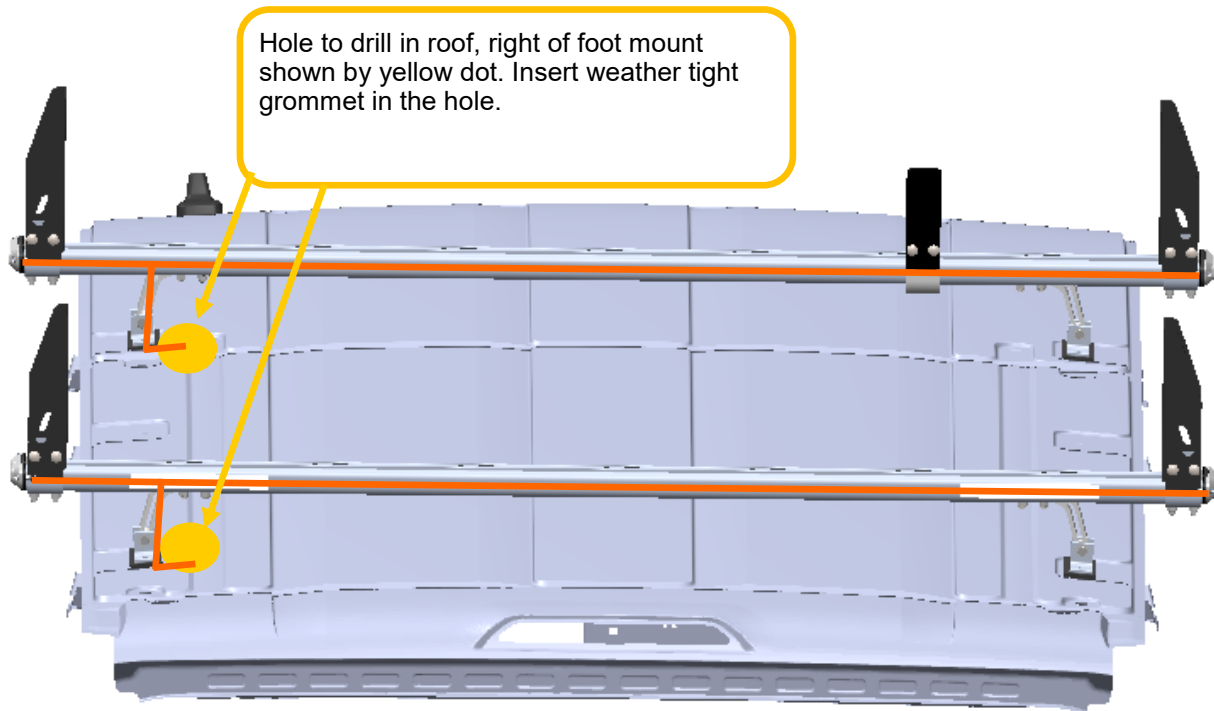


Color	Key - Items
Green	Front Cross Bow Strobe Harness
Purple	Rear Cross Bow Strobe / Beacon Harness

Front/Rear Strobe Routing: All Racks



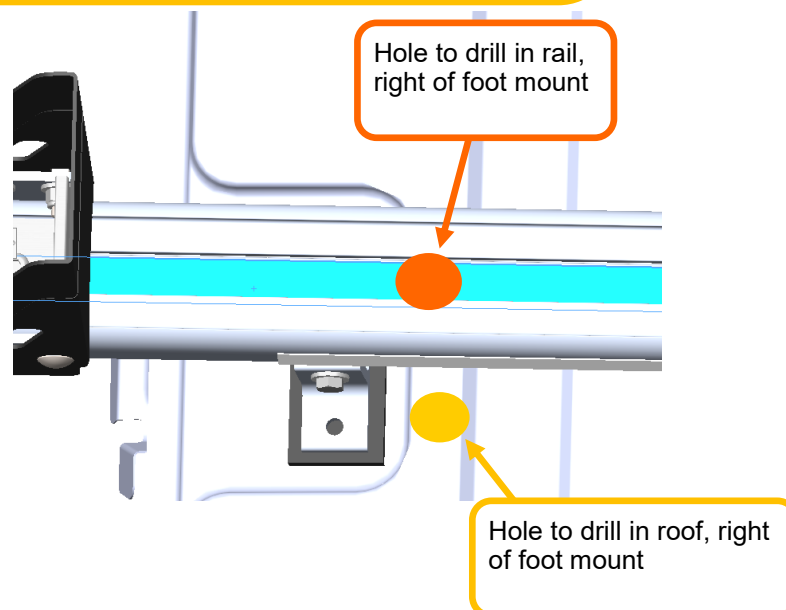
Utility Rack Routing



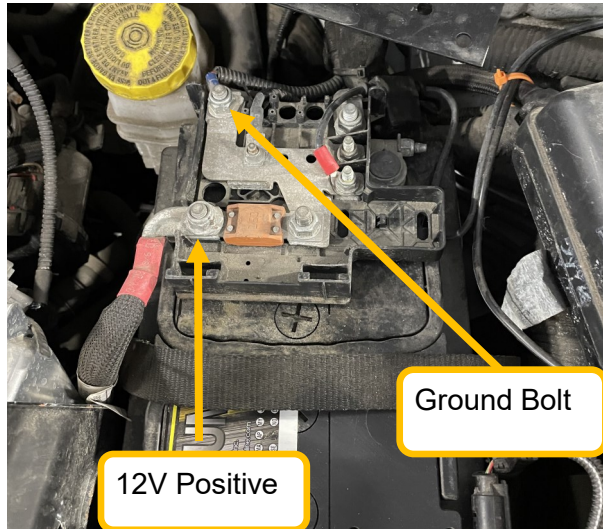
Drill hole in rail through the channels, to the right of the foot mount. (Shown Below) in orange.

Routing shown in orange. Route through the hole/grommet in roof, up the foot, then to both strobes. Route using the upper channel.

If need be, route the wires using the bottom channel. Then use the self tapping screws and nylon clips to secure the wiring.



Beginning Install



Step 1: Locate the power harness #67092.

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

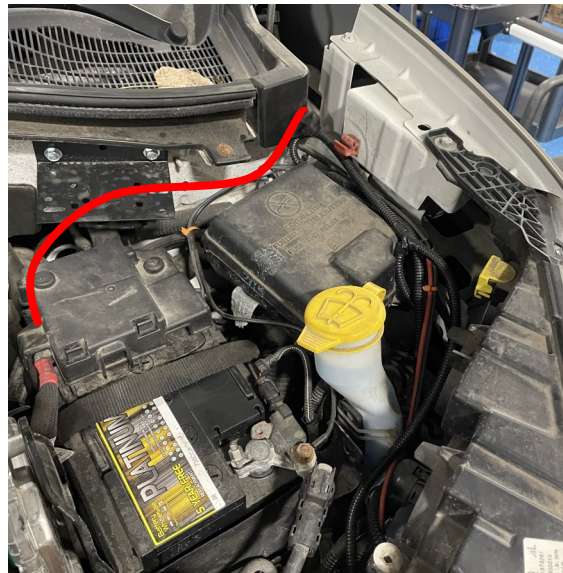
Under the hood: Locate the OEM battery.
Remove the cover to expose the terminals

Step 2:

Attach the red wire with the ring terminal to the 12V positive post.

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

Route the white connector end of the harness towards the cab and locate the OEM grommet (to the cab). It's best seen looking from the cab area under the steering wheel. Routing shown in red.



Step 3:

Cut/drill a hole in the grommet to route the power harness through. Be careful not to cut any OEM wires when cutting the grommet.

Silicone the grommet holes/wiring once the harness has been routed through.



Power harness

Switch Harness



Step 4: Continue routing the power harness up into the knee bolster area.

Locate the switch harness #67097

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



Step 5: Disassemble the knee bolster trim panel.

If there is NOT inverter with this install; Drill a hole 1.5" down measured from the edge of the trim panel and 7" from the left trim edge (Or measured 2.25" to the right edge:) A hole diameter of 3/4" (19mm) is necessary to install the snap in switch (do not insert switch yet). Be sure the area behind the trim panel is clear before drilling.

If there is an inverter with this install, Move the switch to the right as needed.

Route the switch end of the switch harness up underneath the trim panel, through the switch hole. AVOID MOVING/ROTATING OBJECTS. Secure with zip ties.



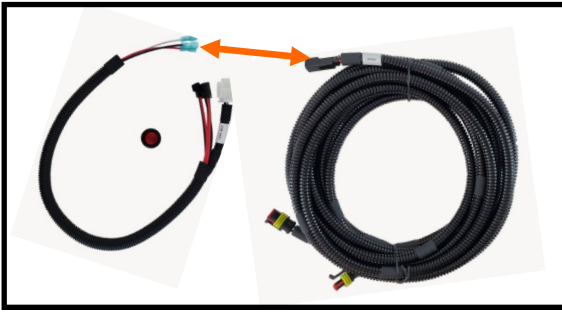
Step 6: Connect the ground spade to the gold pin on the rocker switch

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

Connect the red spade to the middle pin.

Insert the switch into the hole and place the strobe/ beacon decal (if supplied) around the switch. Reassemble all trim and secure wiring. Figure 8.4.





Step 7: Locate the body harness: 67610

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



Step 8:

Locate the driver's side door sill area.



Carefully remove the trim around the hood release handle by using a trim tool and removing the retraining screw underneath. Then remove the foot sill trim.



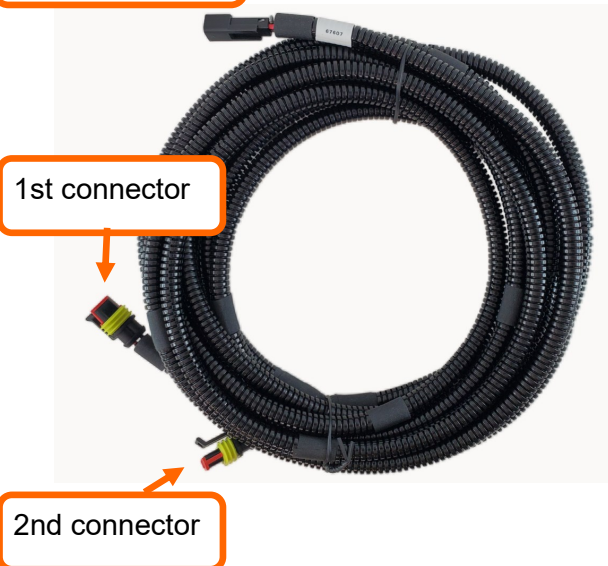
Continue routing the harness down to the floor, under the sill trim, rearward to the partition. See figure 9.6 for the routing path.

Re-insert trim that was pulled up after routing.





Body Harness



Route the body harness up the backside of the partition and rearward following the OEM harness on the driver's side wall.

Loosely secure the wiring to the OEM harness, as you may need to adjust the harness once the ladder rack has been installed and holes have been drilled in the roof.

The first body harness connector to the ladder rack harness should be loosely placed where the front cross bow will sit. Then the second connector should be placed loosely where the rear cross bow will sit.

Please note there will be slack in the harness, tie these up with zip ties.

Once the ladder rack harnesses are connected to the body harness, you can completely secure the body harness.

Please read carefully for next steps to the install:

You will not need to reference the entirety of the following instructions. You will only need to reference per the install you are completing.

Please note there are many configurations of the ladder racks. Refer to the order drawing for type of ladder rack per each side of the vehicle. (There can half grip lock / half prolift / half utility rack, full grip lock, full prolift, full utility rack, etc). Then assemble the corresponding bracketry per each ladder rack. Note there are different brackets for the strobes for the utility rack, grip lock, and prolift. For any uncertainties please refer to pages 4-15 for the needed harnesses and bracketry per the kit installing.

Please note the following strobe brackets per ladder rack:

Front/rear strobe brackets: 67824-B

Utility rack corners: 66103-B

Grip lock corners: 67130-B

Prolift corners: 67136-B

Utility Rack Corner Strobe Install

Note: utility rack wiring will be ran inside the cross bow channels of the ladder rack for 4 corner strobes.



Step 1: Locate the strobe harnesses for both the front and rear cross bows.

List of applicable part numbers:

67614 - 58" cross bow corner strobe harness

67615 - 68" cross bow corner strobe harness

67618 - 58" cross bow corner strobe with beacon harness

67619 - 68" cross bow corner strobe with beacon harness



Step 2: Preassemble wiring and lights to the utility rack before mounting to the roof of the van.

The channel you will use to route the wire harness will depend on the utility rack uprights being installed onto the rack.

If the uprights use the upper channel for mounting, use the bottom channel for wire routing. And Vice Versa.

****You may also need to go back and fourth between the upper and lower channel depending on the utility rack accessories. Drill a 3/8" hole in the rack to move the wire harness between the two channels****

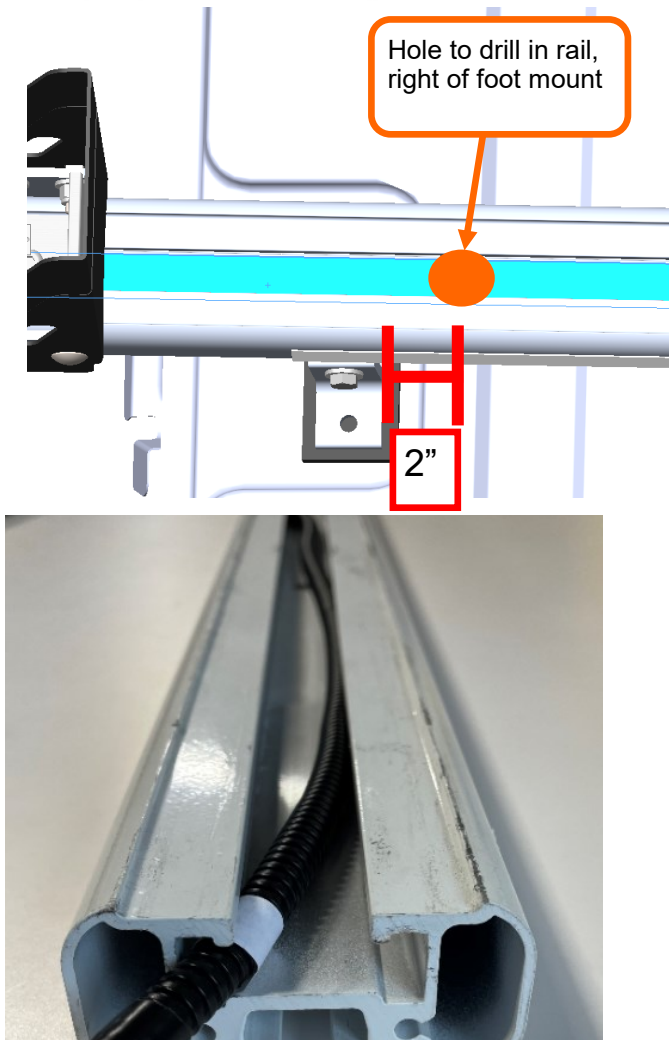
If using the bottom channel immediately after the strobe, notch the utility rack middle, to relieve space for the strobe wires. See pictures to the left for reference.

Use the self tapping screws and nylon clips to secure wiring if using the bottom channel.

*****Be sure NOT TO PINCH any wiring when tightening down utility rack accessories with sides*****

You do NOT want to pinch wires like shown in this picture





Step 3: Route the wires between the strobes (on both racks)

Option 1: (The preferred option)

Drill a 3/8" hole from the top channel to the bottom channel, 2 inches to the right of the where the foot mounts to the rail.

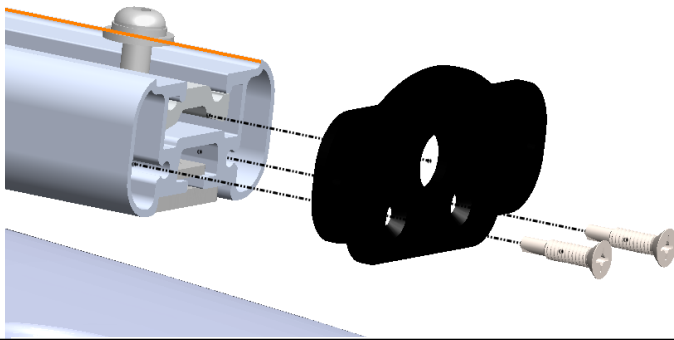
Route the wires in the top rail channel (before inserting the weather strip).

Option 2: Route the wiring in the underside of the channel. You will need to drill a 3/8" hole from the top channel to the bottom channel directly under the beacon mount if there is a beacon installation for this build. This hole should directly in the middle of the crossbow. If the cross bow is 68", the hole should be 34" from the end. If the cross bow is 58", the hole should be 29" from the end.

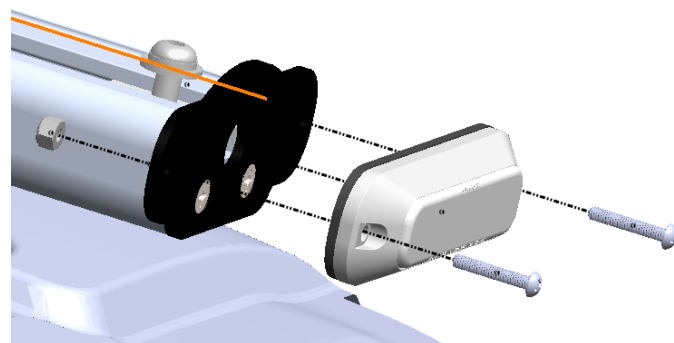
Use the supplied tek screws (FAS0842) and nylon clips (66843) to secure the wiring under the utility rack.

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 routing. Or vise versa.



Step 4: Using BAG66095: Mount the strobe bracket to the rail using the supplied self drilling screws (FAS0502). Use a No.3 philips head driver.



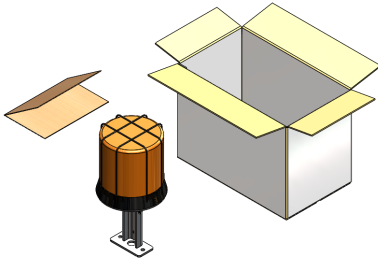
Step 5: Route the strobe wires through the center hole slot of the strobe bracket.

Connect the strobe to the harness connector.

Mount the strobe light to the bracket using the small Philips head screws (FAS0503) and nylon nuts (FAS0501).

Do steps 4 and 5 for all 4 utility rack ends.

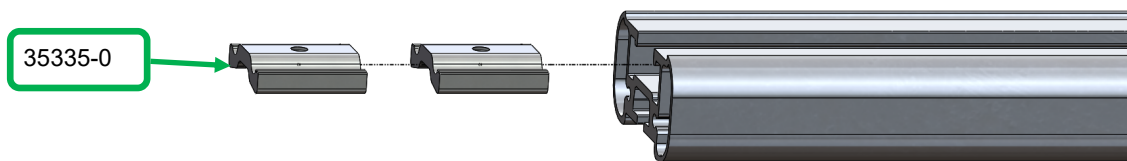
Beacon Install For Ship Thru—Non Drive-A-Way Vehicles. For ALL Racks—Stowed Beacon



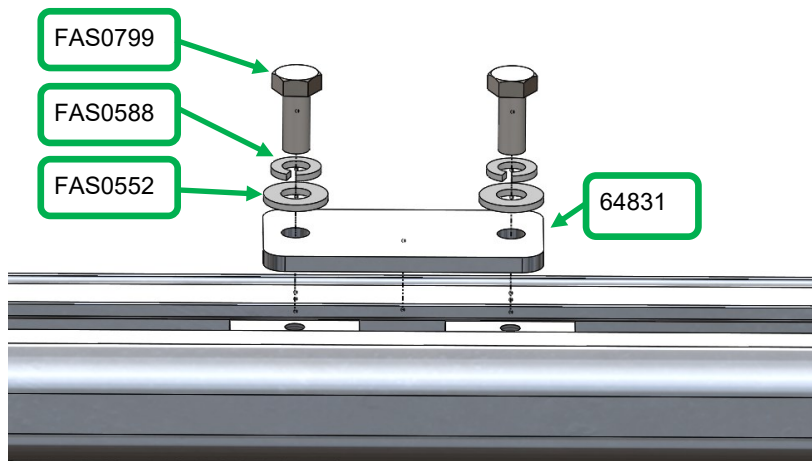
Step 1: Locate the beacon box assembly (this will be in a brown box) labeled 70970. Stow this into the vehicle (if not a drive-a-way vehicle). If this is a drive-a-way vehicle, please follow the dealer instructions inside the beacon assembly box (part number 70972) once these instructions are completed. Or skip to the next page.

Step 2: Locate the fastener bag BAG66092.

Grab the 2 identical spacers, part number 35335-0. Insert them (note orientation of the spacers) into the top channel of the rear cross bow rail. Slide them to middle of the cross bow rail.

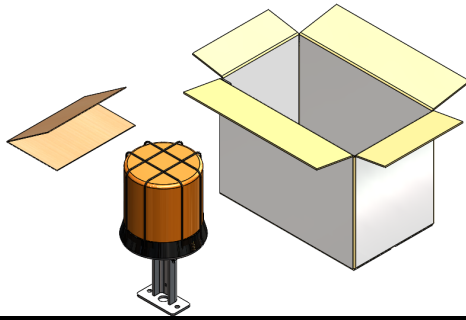


Step 3: Locate the flat spacer (64831), 5/16 bolts (FAS0799), lock washers (FAS0588), and flat washers (FAS0552). Once the spacers from the previous step are in the middle of the cross bow, insert the bolts through the lock washers, flat washers, then flat spacer, into the 35335-0 spacers. Tighten these down so they cannot slide.



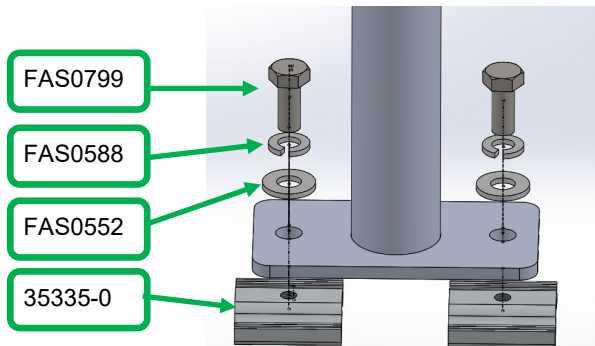
Place the beacon connector cap (found in the harness bag) over the weather proof connector (on the cross bow harness) to keep from water damage.

Beacon Install For Drive-A-Way Vehicles: Not Stowed

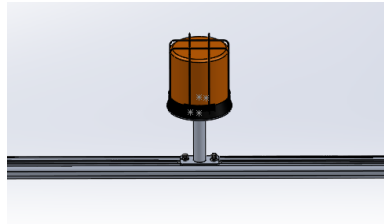
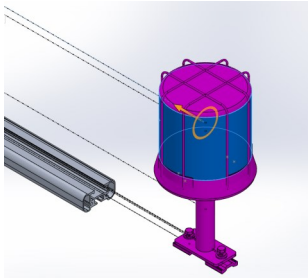


Step 1: Locate the beacon assembly box 70970. Open the box and remove the assembly and instructions.

Locate the fastener bag BAG66092 and grab the 5/16 bolts (FAS0799), lock washers (FAS0588), flat washers (FAS0552), and the rail spacers (35335-0).



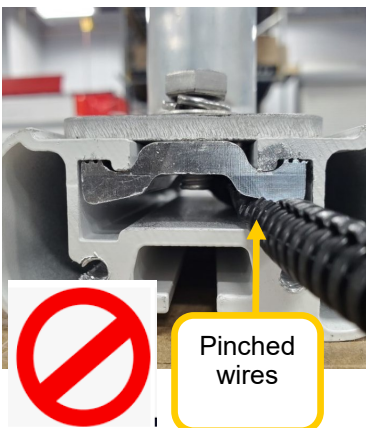
Step 2: Assemble the beacon mount feet by inserting the bolts (FAS0799) through the lock washers (FAS0588) then flat washers (FAS0552) then through the foot into the slides (35335-0). Do not tighten down at this point.



Step 3: Slide the beacon/mount to the center of the rail.

****Note for Utility Racks:**** Be cautious of the wire sliding through the rail.

Tighten the bolts once you have positioned the beacon in the center.



Pinched wires



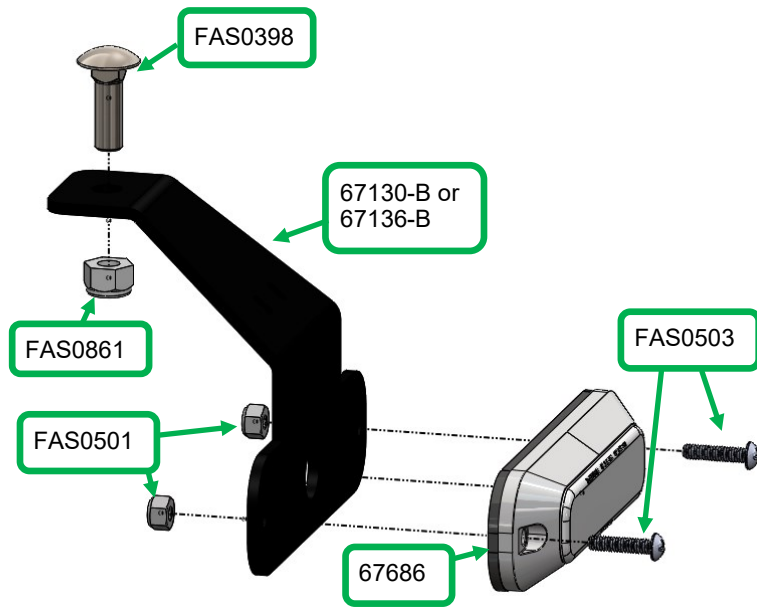
Wires are not pinched

****Utility Rack risk and anytime you use the top channel for routing the beacon harness through.****

*****Be cautious the wires are not pinched after tightening the slides*****

Connect the beacon harness connector to the beacon. Please note routing to the beacon can be different between each rack, as some will be routed using the top channel, some will use the bottom channel, and some will be routed on the outside of the channel up to the beacon. This will strictly depend on the install and what is best for the installer at this time.

Grip Lock And Prolift Rack— Corner Strobes

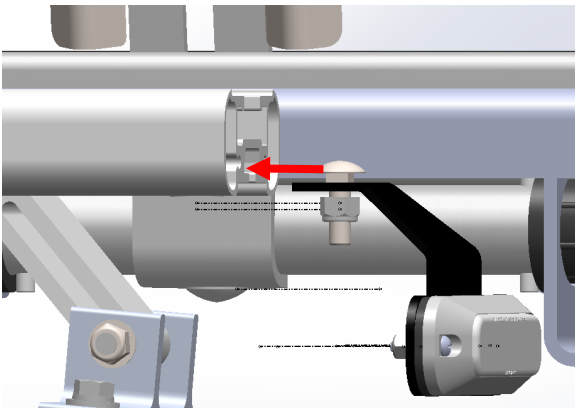


Step 1: Using BAG70965:

Assemble the strobe light to the grip lock bracket (67130-B) or prolift bracket (67136-B) using the small philips head screws and nylon nuts. (2 X FAS0501 and 2 X FAS0503). Note orientation of the bracket and the strobe light.

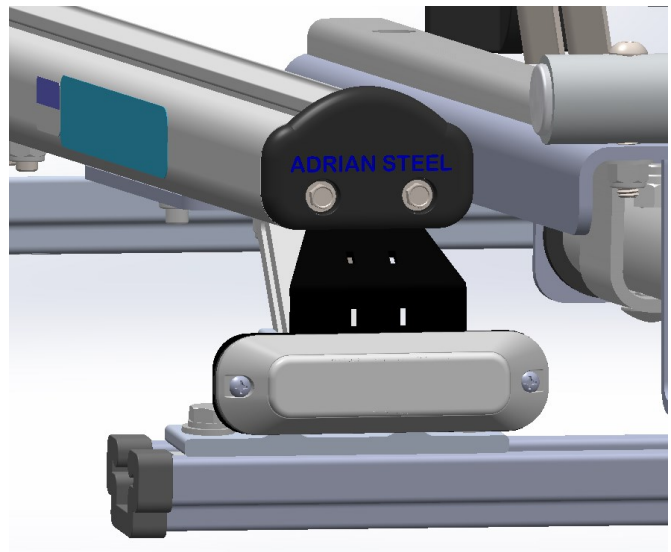
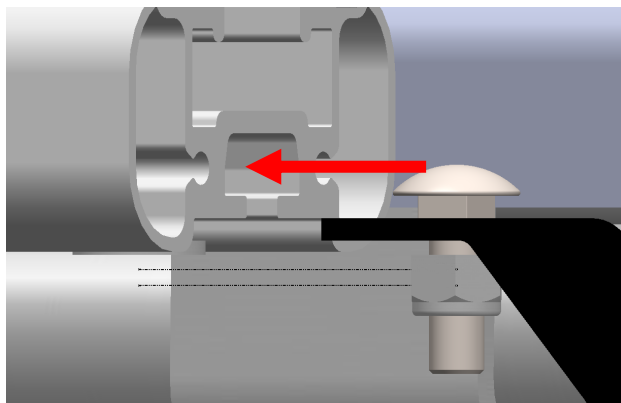
Now insert the 5/16 carriage bolt (FAS0398) through the top of the bracket hole. Thread the 5/16 nylon bolt (FAS0861) on the bolt but do not tighten yet.

Pull the strobe connector through the hole in the strobe bracket. Secure the wiring with zip ties using the slots in the brackets.



Step 2: Slide the nylon nut into the bottom channel of the cross bow. Once it is just far enough in the cross bow to clear the end cap, you can tighten the bolt to the nut to secure the bracket. Then insert the end cap onto the cross bow.

Do this for all the corners of the ladder rack that require a strobe.





This terminal end will go inside the van and connect to the body harness

Step 3: Locate the strobe harnesses for both the front and rear cross bows.

List of applicable part numbers:
67614 - 58" cross bow corner strobe harness
67615 - 68" cross bow corner strobe harness
67618 - 58" cross bow corner strobe with beacon harness
67619 - 68" cross bow corner strobe with beacon harness

Identify the wire end with the terminals **WITHOUT** the connector. This end will route through the cable gland / hole in the roof and connect to the body harness inside the van.

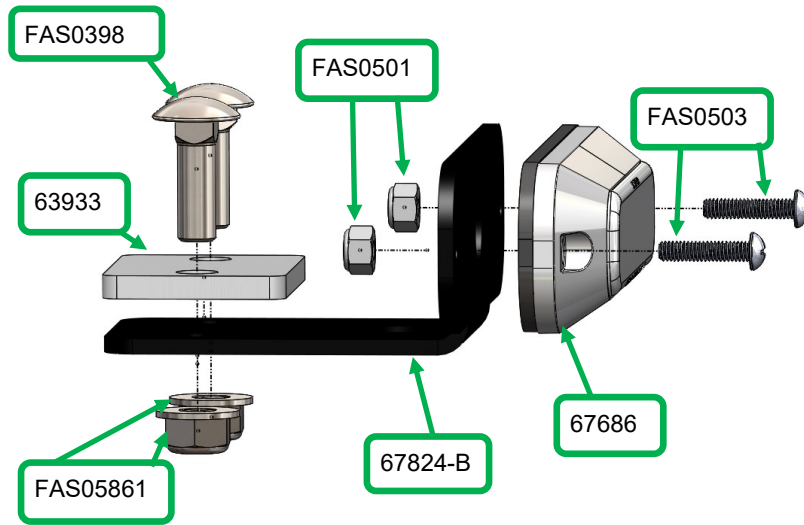
Step 4: Keep the terminal end without the connector on the drivers side of the ladder rack. Locate the strobe connector end that is closest to the non-connector end, and connect it to the strobe on the drivers side of the vehicle. Run the wiring across the cross bow and connect the opposing end to the passenger side strobe. Do this for the front and rear cross bows / strobes.



Step 5: Use the small self tapping screws (FAS0842) and the nylon clamps (66843) to secure the wiring. The ideal routing path is on the insides of the ladder rack cross bows. If this is not applicable, route the wiring under the cross bows. **Do not secure wiring to any moving objects.**



All Ladder Racks—Front And Rear Strobes



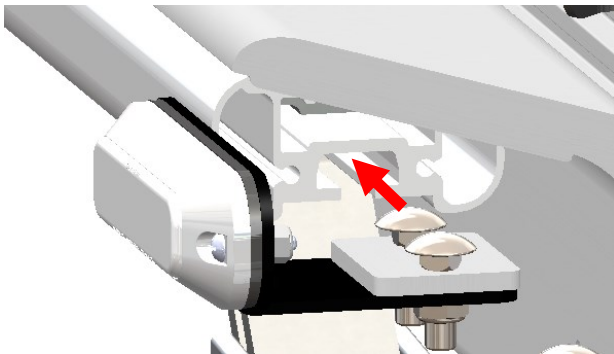
Step 1: Using BAG70965:

Assemble the strobe light to the bracket (67824-B) using the small philips head screws and nylon nuts. (2 X FAS0501 and 2 X FAS0503).

Now insert the 2 5/16 carriage bolts (FAS0398) through the spacer (63933) holes then through bracket holes. Thread the 2 5/16 nylon bolts (FAS0861) onto the carriage bolts but do not tighten yet. Note orientation of the bracket, bolts, nuts, and the spacer.



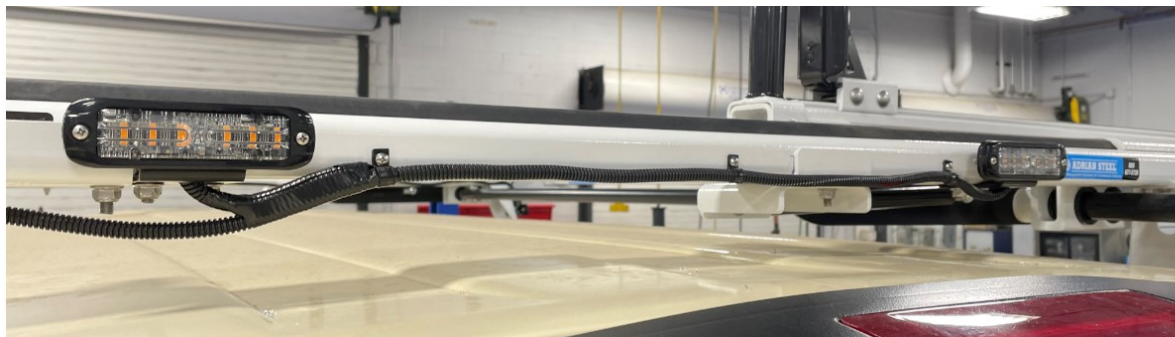
Step 2: Pull the strobe connector through the hole in the strobe bracket. Secure the wiring with zip ties using the slots in the brackets.



Step 3: Slide the carriage bolt heads into the bottom channel of the ladder rack cross bar until the desired locations of the strobes. These strobes can be placed in various spots across the cross bow. Ideal locations is to have them symmetrical from the center. Be sure to have enough wiring to get to each connector on the harness.

Note the strobe locations will change based off each rack due to the ladder rack components on the cross bow.

Picture below is an example of the grip lock.





67618 reference picture

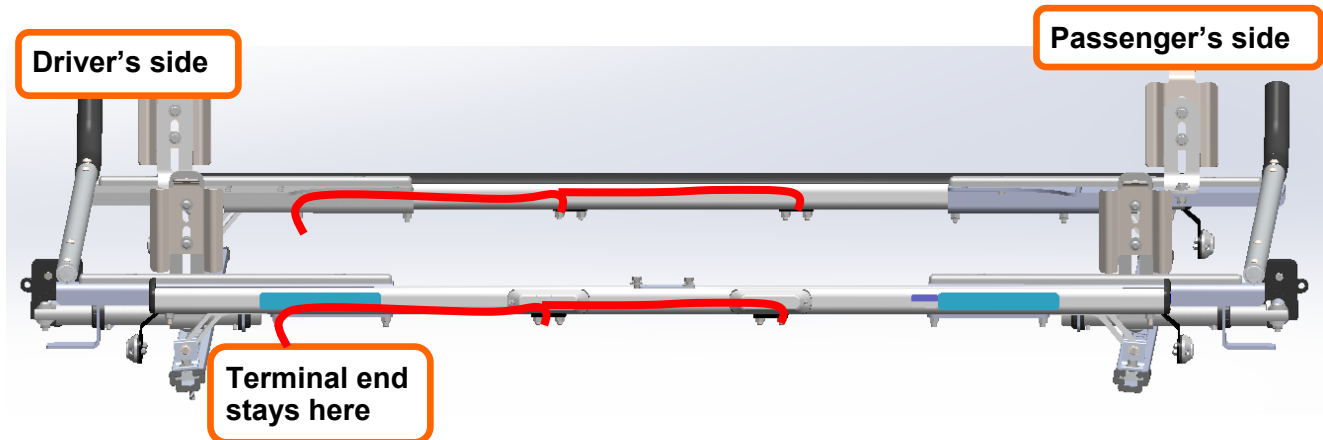
Step 4: Locate the strobe harnesses for both the front and rear cross bows.

List of applicable part numbers:
67616 - Front and rear strobes harness
67620 - Front and rear strobes with beacon harness

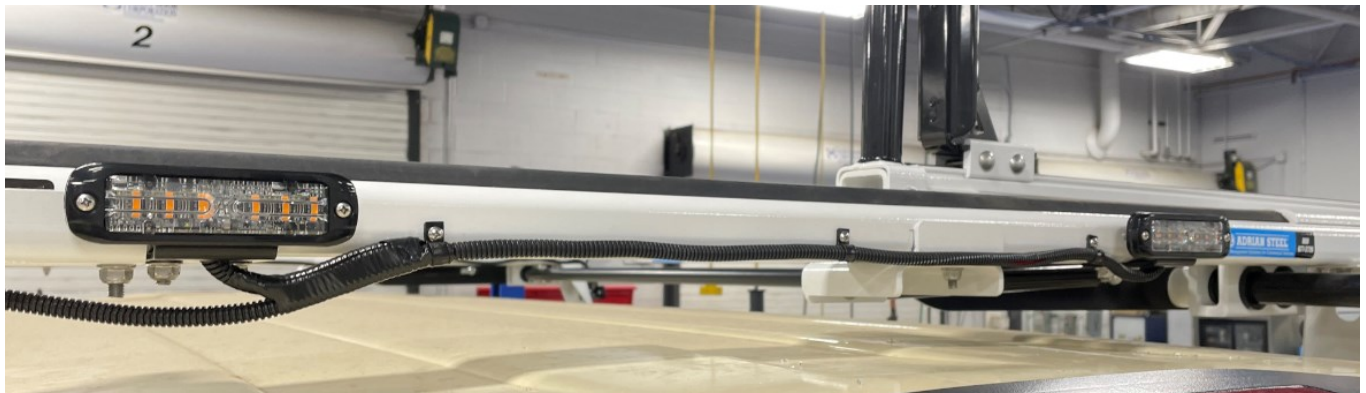
Identify the wire end with the terminals **WITHOUT** the connector. This end will route through the cable gland / hole in the roof and connect to the body harness inside the van.

This terminal end will go inside the van and connect to the body harness

Step 5: Keep the terminal end without the connector on the drivers side of the ladder rack. Locate the strobe connector end that is closest to the non connector end, and connect it to the strobe on the drivers side of the vehicle. Run the wiring across the cross bow and connect the opposing end to the passenger side strobe. Do this for the front and rear cross bows / strobes.

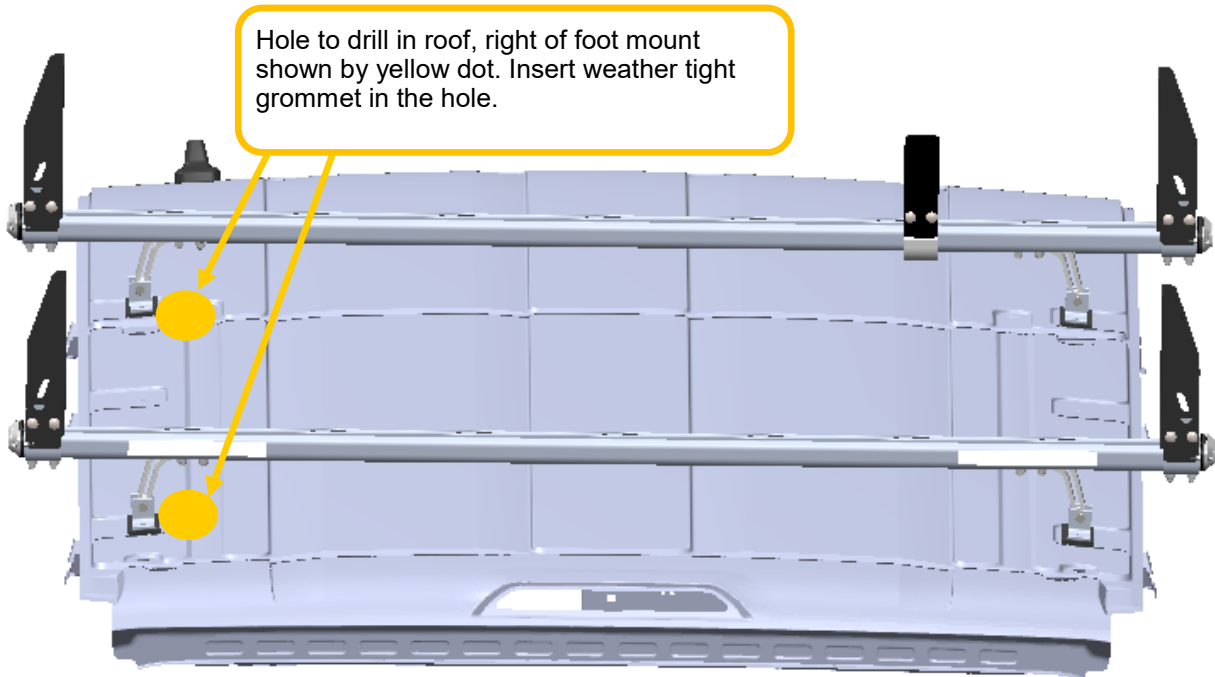


Step 6: Use the small self tapping screws (FAS0842) and the nylon clamps (66843) to secure the wiring. The ideal routing path is on the insides of the ladder rack cross bows. If this is not applicable, route the wiring under the cross bows. **Do not secure wiring to any moving objects.** **Use the harness to help determine the locations of the strobes. Once fully determined, tighten down the strobe brackets.

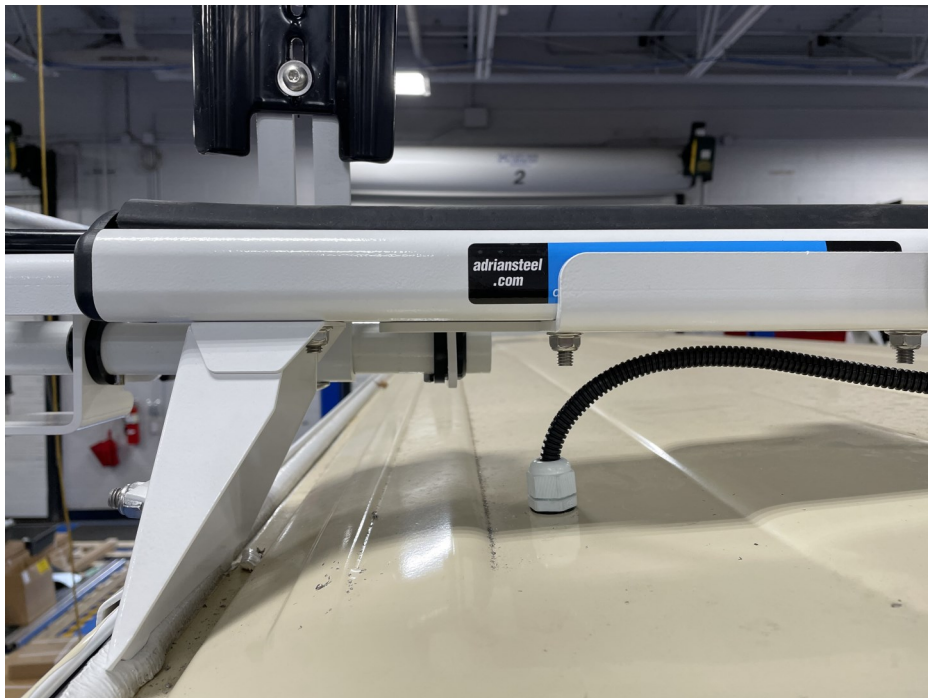


All Ladder Racks—Mounting And Roof Drilling

Use the ladder rack instructions to finish the ladder rack install. Mount the rack to the roof—or at least know exactly where it is going to mount. Determine the hole location that is needed for the wire pass through cable gland. This should be as close as possible to the rack foot on the drivers side, to the right of the foot. See the diagram below for approximate location. Each vehicle will be different, so be sure to check the inside of the van before drilling the hole.



Drill a 7/8" hole in the roof. Insert the cable gland into the hole. Route the wire terminal end of the harness through the hole and silicone. Do this for both the front and rear cross bows. Picture below is an example of the Chevy Express roof.



Terminal ends of the harness WITHOUT the connector



Locate the connector housing inside the lightbar/beacon box.

Note if it has a red insert inside the connector or not. Refer to picture 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.



Note the connector has a “1” and a “2” noted on the connector (circled in red). 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.

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.

Do this for both the cross bow harnesses.

Now connect this connector/harness to the body harness that has been routed through the van already. Finish securing the harness to the vehicle.

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



ITEM DESCRIPTION: WIRE TIE, NYLON 40Lb, 8.5" BLACK

MANUFACTURER: WAYTEK, INC. or equivalent
MANUFACTURERS PART NUMBER: 21093M or 21093C

SPECIFICATIONS: STANDARD CABLE TIE
 BLACK, NYLON
 8-1/2" LONG
 TENSILE STRENGTH: 40.0 LBS
 21093M = 1,000 quantity
 21093C = 100 quantity

SPECIAL NOTES: PART NUMBER IS BLACK.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

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517-265-6194
WWW.ADRIANSTEEL.COM



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

DRAWN BY
MDG

DATE DRAWN
10/26/2006

ECN NUMBER
18021

ECN DATE
11/13/2015

PART WEIGHT
0.01 LBS.

REV. LEVEL
D

PART NUMBER
13905-0

PART NUMBER

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

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

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

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WHENEVER POSSIBLE!**

DRAWN BY
JLC

DATE DRAWN
7/21/2001

ECN NUMBER
16551

ECN DATE
7/22/2014

PART WEIGHT
0.02 LBS.

REV. LEVEL
C

PART NUMBER
26618-0

PART NUMBER

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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WHENEVER POSSIBLE!**

DRAWN BY
JLC

DATE DRAWN
7/21/2001

ECN NUMBER
16551

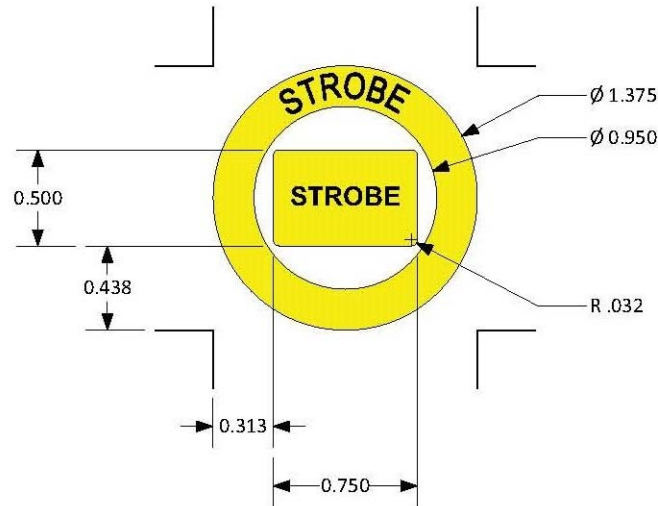
ECN DATE
7/22/2014

PART WEIGHT
0.02 LBS.

REV. LEVEL
C

PART NUMBER
26618-0

ITEM DESCRIPTION: 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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DRAWN BY
 RJB

DATE DRAWN
 11/15/2017

ECN NUMBER
 XXXX

ECN DATE
 XXXXXX

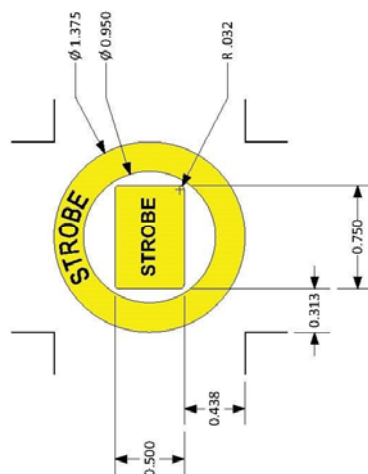
PART WEIGHT
 0.02 LBS.

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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PART NUMBER
55073

Page 2 of 1

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DRAWN BY
RJB

DATE DRAWN
11/15/2017

ECN NUMBER
XXXX

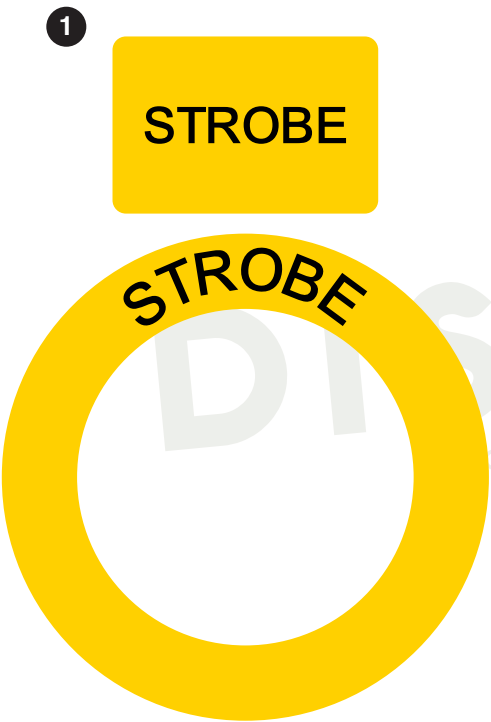
ECN DATE
XXXXXXX

PART WEIGHT
0.02 LBS.

REV. LEVEL
A

PART NUMBER
55073

LOC	QTY	Part #	Description	Size
Material: IJ39 Lamination: 8518				
1	1	6039597	Strobe Switch	1.52" x 2.07"



Note: Part will not be weeded, just cut.

Kit# 8001872 | Adrian Steel Part # 55073

06/01/2023 • JY
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ASCO REV.1 6/14/2023

DISTYLL GRAPHIC SOLUTIONS FINAL DESIGN	CLIENT NAME:		Switch Decals		O-ID: O15319-1
	Adrian Steel				Rev #: XXXX
	DATE:	DESIGNER:			Opt #: A
	O5/31/2023	TRN			

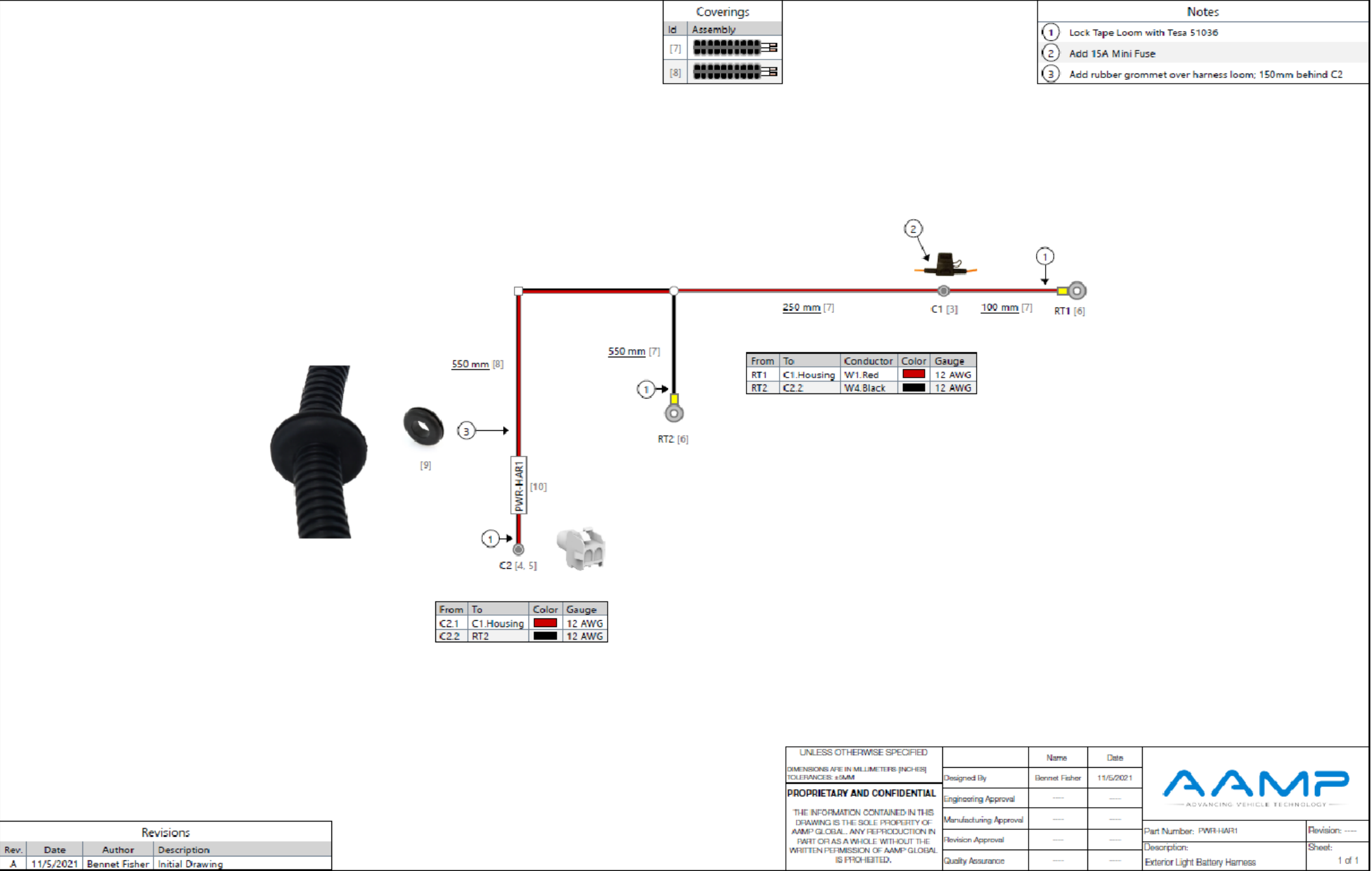
Please check information to confirm accurate vehicle specifications.

CLEANING INSTRUCTIONS All surfaces must be considered contaminated. Clean the vehicle surface immediately before applying the film. Dust and other 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



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TOLERANCES & INSPECTION	RELEASE & REVISIONS
UNLESS OTHERWISE SPECIFIED ALL BEND ANGLES ARE 90 DEGREES ALL DIMENSIONS ARE IN INCHES. REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION	INITIAL ECN: 25378 CURRENT ECN: 25378 ECN DESCRIPTION: RELEASE FOR PRODUCTION REVISED BY:
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031 Material Thickness: per ASTM Std. Weld Callouts per AWS	HOLES/SLOTS 0.0 = ± .062 0.00 = ± .031 0.000 = ± .015
ANGLES 0° = ± 2° 0.0° = ± 1°	

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL

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

COLOR (ONLY LIST IF COLOR SPECIFIC)
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®		REVISION LEVEL A
ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		
MAT'L USED: PURCHASED	DESIGNED BY: E.BURKE	
DESCRIPTION: POWER HARNESS EXTERIOR 1		
WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67092

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS



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	RELEASE & REVISIONS	
UNLESS OTHERWISE SPECIFIED	INITIAL ECN: 25378	
ALL BEND ANGLES ARE 90 DEGREES	CURRENT ECN: 25378	
ALL DIMENSIONS ARE IN INCHES.	ECN DESCRIPTION:	
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION	RELEASE FOR PRODUCTION	
FEATURES	HOLES/SLOTS	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		
	REVISED BY:	

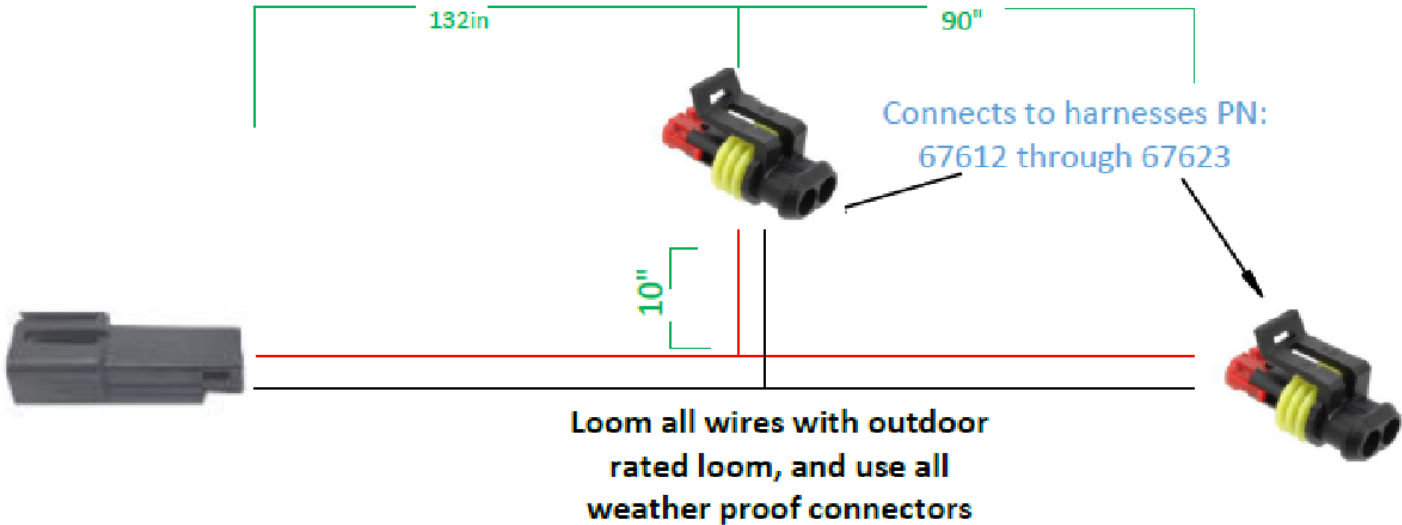
PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
SSW-HAR1 OR 67097
COLOR (ONLY LIST IF COLOR SPECIFIC)
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

PRINTED DOCUMENT IS UNCONTROLLED			Sheet 1 of 1
PART / PRODUCT IDENTIFICATION			
	ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221
	REVISION LEVEL		A
MAT'L USED:	PURCHASED	DESIGNED BY:	E.BURKE
DESCRIPTION:	SWITCH HARNESS 1 EXTERIOR LIGHTING		
WEIGHT (Lbs.):	0.2	SEGMENT CODE:	ELE
		PART NUMBER:	67097

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING) N/A
LOAD/RATING REQUIREMENT N/A
MATERIAL REQUIREMENT N/A
PACKAGING REQUIREMENT N/A
OTHER REQUIREMENTS PLUG AND PLAY BODY HARNESS 5 FOR LADDER RACK LIGHTING INCLUDES: 2 CAPS FOR EXTERIOR CONNECTORS 20 CABLE TIES 5 WIRE TIE WITH CHRISTMAS TREES 7 STICKEY BACKED CABLE TIE HOLDERS

#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: 26041
CURRENT ECN: 26041
ECN DESCRIPTION: RELEASE TO PRODUCTION
REVISED BY: EMB

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER AAMP
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER 67610 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: BODY HARN 5 EXT P&P			
WEIGHT (Lbs.): 0.1	SEGMENT CODE: ELE	PART NUMBER: 67610	

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)
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.) NO

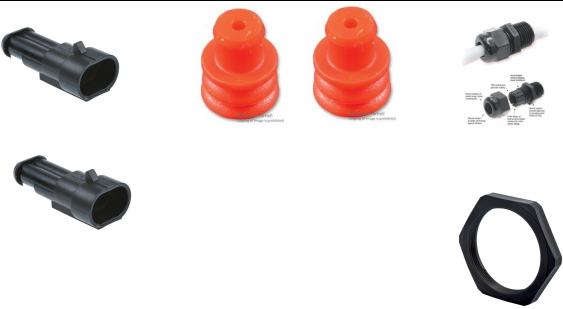
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Sheet 1 of 1

PART / PRODUCT IDENTIFICATION

 ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	REVISION LEVEL 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]	

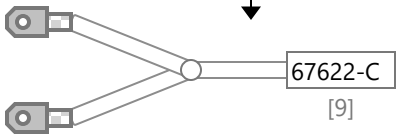
2



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)



①
↓

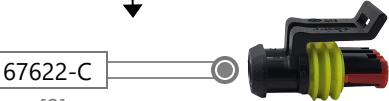


QC1
QC2

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

50 in [11]

①
↓



C2

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

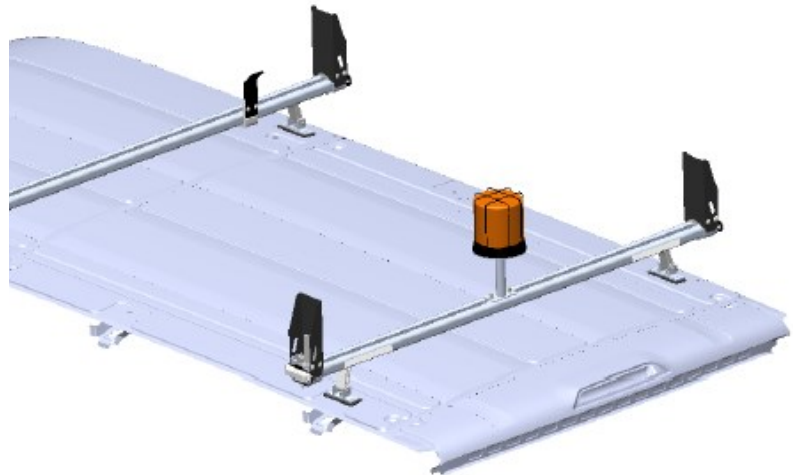
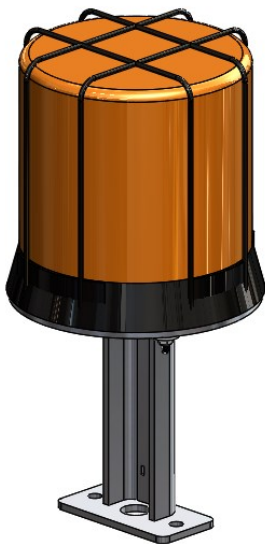
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AAMP GLOBAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AAMP GLOBAL IS PROHIBITED.		Name	Date		
	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	

Introduction / Comments:

Dealer Instructions for 70970

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.



Dealer Instructions For 70970

Figure 15.1

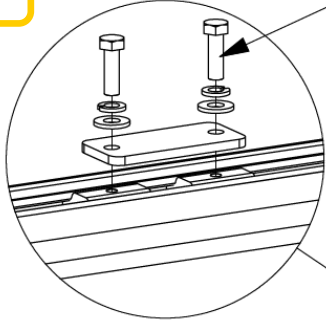


Figure 15.2

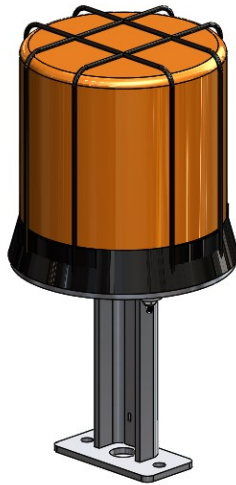
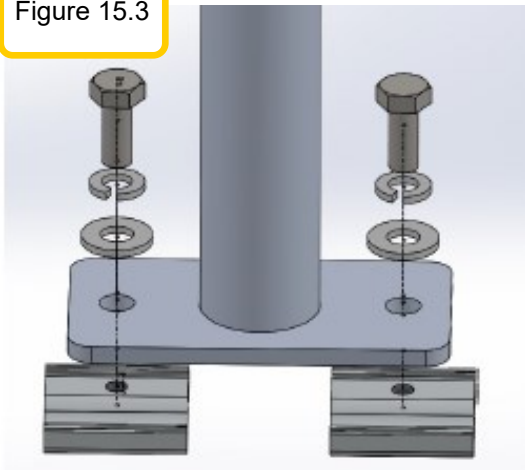


Figure 15.3



Step 1:

Locate the ladder rack rear cross bow center. There will be a metal plate fastened down with bolts, onto 2 spacers. Remove the top metal plate by removing the two bolts. Be careful not to lose the bolts or the slides in the rail, under the ware strip. Figure 15.1.

Now grab the beacon/mount assembly. Figure 15.2.

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 15.3.

Step 2: Connect the beacon harness connector to the beacon. You will need to remove the cap on the beacon harness.

Tighten the bolts once you have positioned the beacon (as centered on the rail as possible). Figure 15.4.

Figure 15.4



Double check the functionality of the lights and switches.