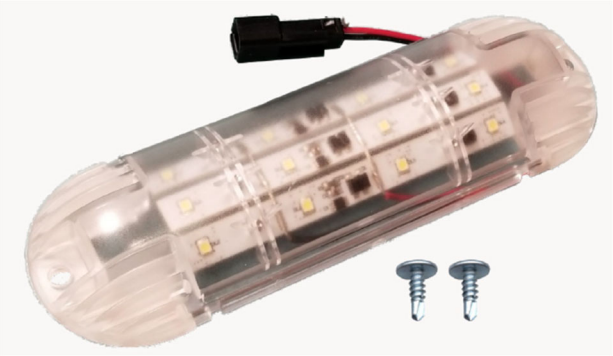
LED Light Kit w/ 2 Switches - Transit Connect

Part Number

69624

Module LED Light (63480)



Roof Bow Harness #2 & 3 (63482 & 63483)

PRODUCT FEATURES

- This kit is compatible with the Ford Transit Connect.
- Included in this kit is two (2) module LED light (63480), roof bow harness #2 & 3 (63482 & 63483), power harness (65795), two (2) switches, and various fasteners.
- There are no OEM options that this kit is not compatible with and there are no OEM options that are required for this kit.

Model Year Validated:
2023

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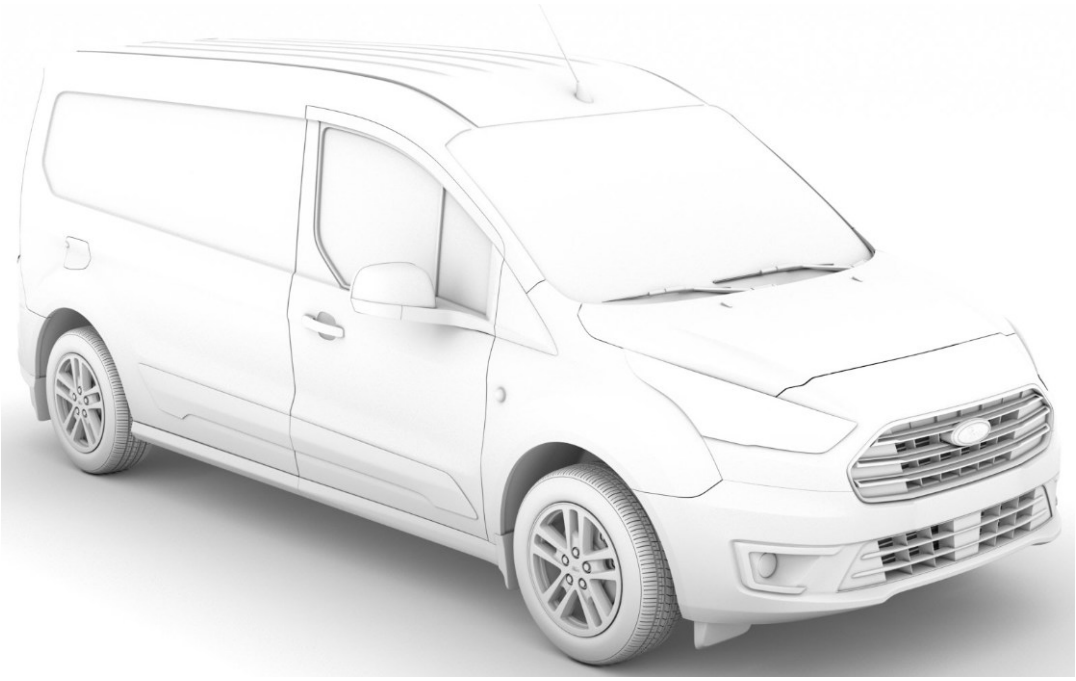
Introduction / Comments:

Install Instructions For Interior Plug & Play Lights For Transit Connect

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.

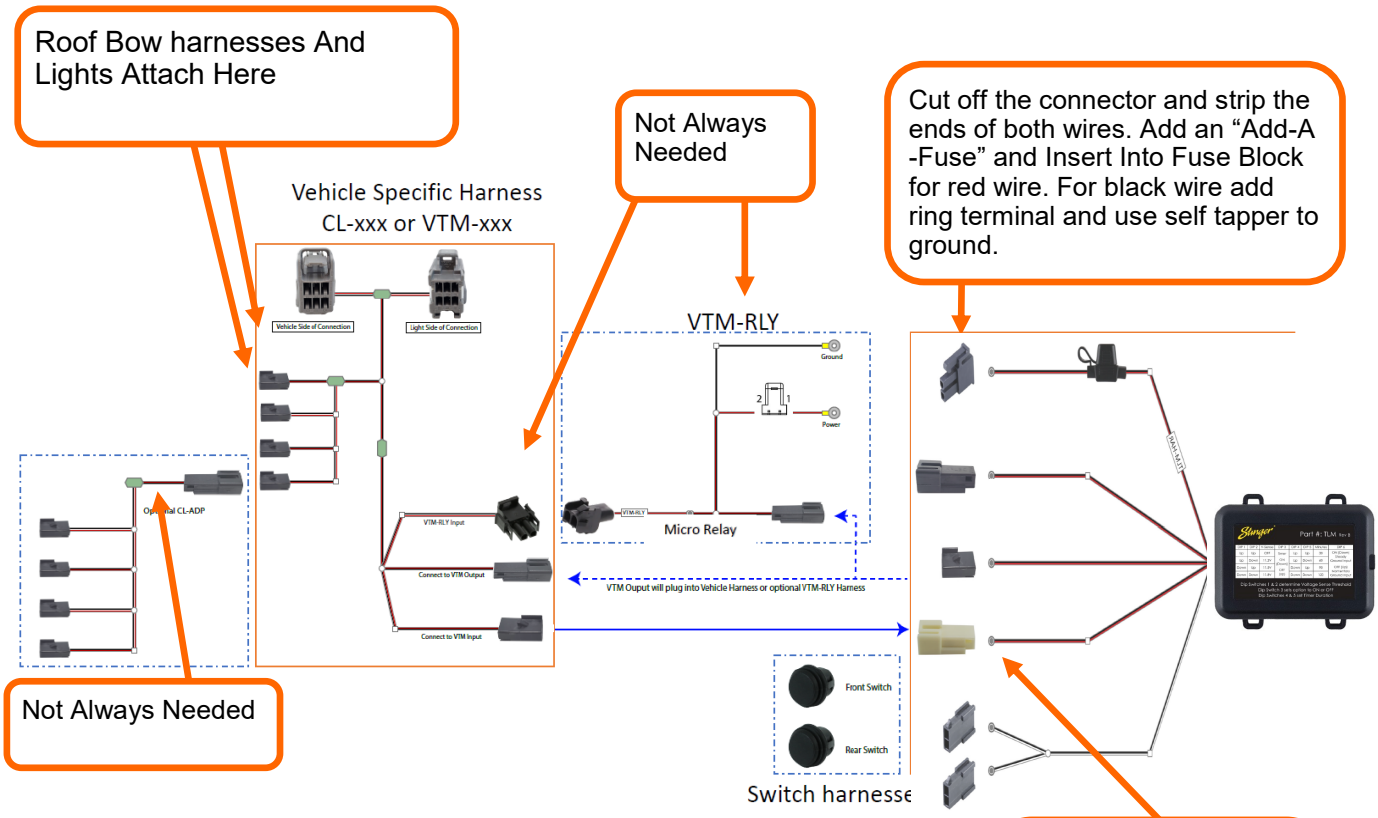


Installation Instructions For Interior Plug And Play Lights For Transit Connect

Please read statement below before moving forward

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. The only harness that is specific to the transit connect vehicle is the power harnesses 65795. Routing will be very standard across all kits, but placement of lights and switches are subject to be different from these instructions if called out on the order drawing differently.

Overall Harness Diagram



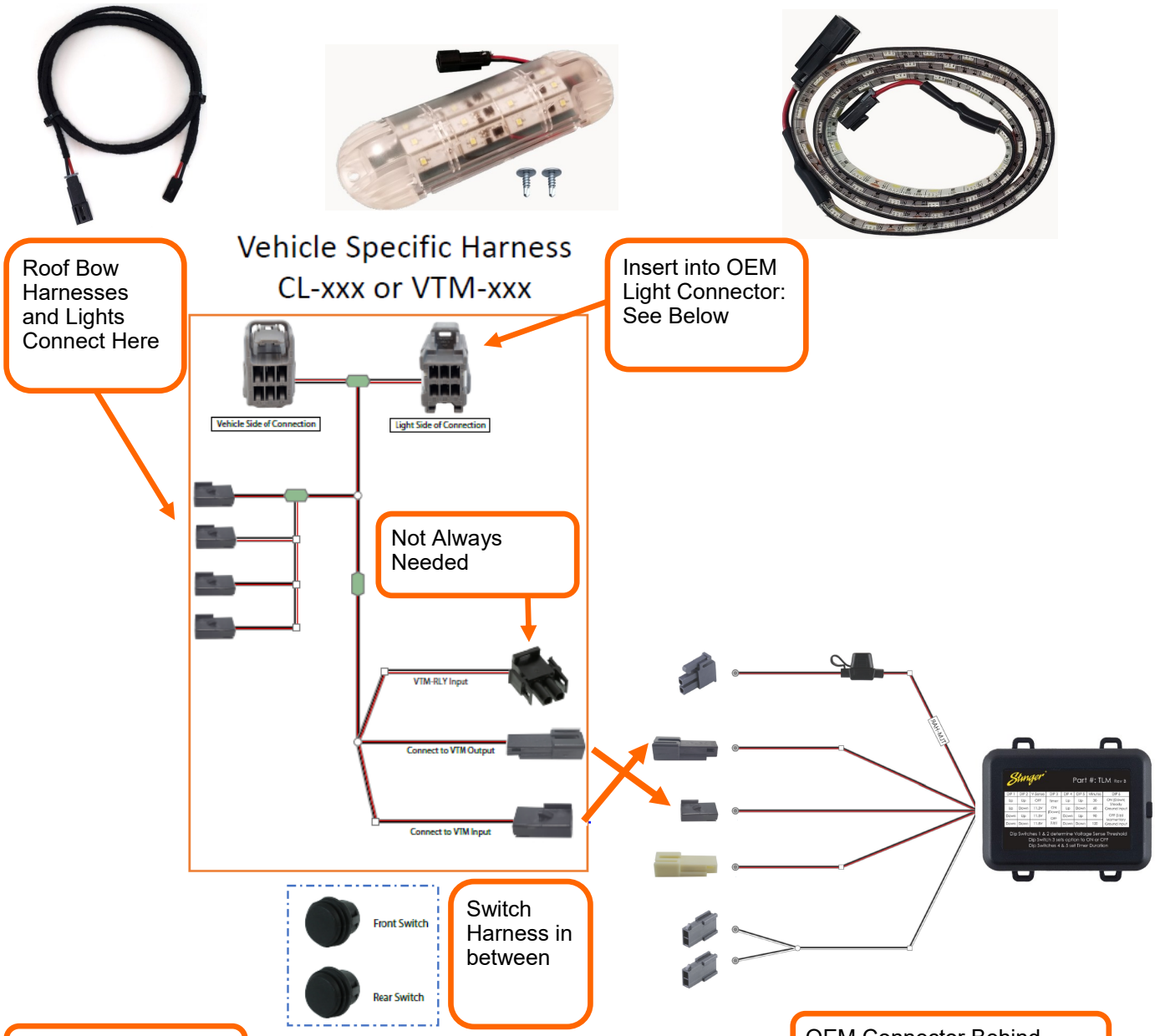
For all vehicles that are NOT RAM. This connector will be black. RAM vehicles, this will be white.
See page 4 for more details.

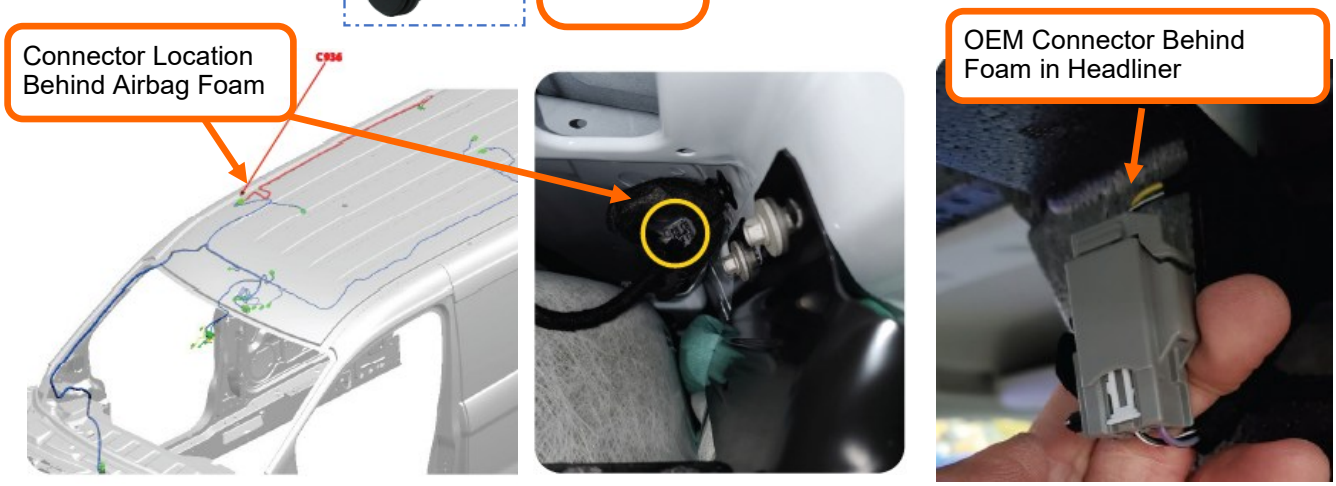
Tools required:

Crimpers

Power drill:
3/8" step drill bit
Philips head bit

Specific Harness Diagram

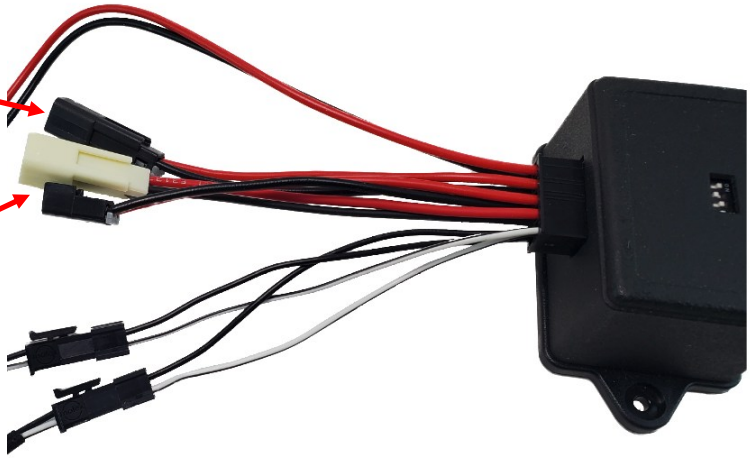




Timer / Low Voltage Module (TLM) Harness Reference

For all vehicles except RAM, the black input connector will be used to plug into the vehicle specific harness. The white connector will NOT be used.

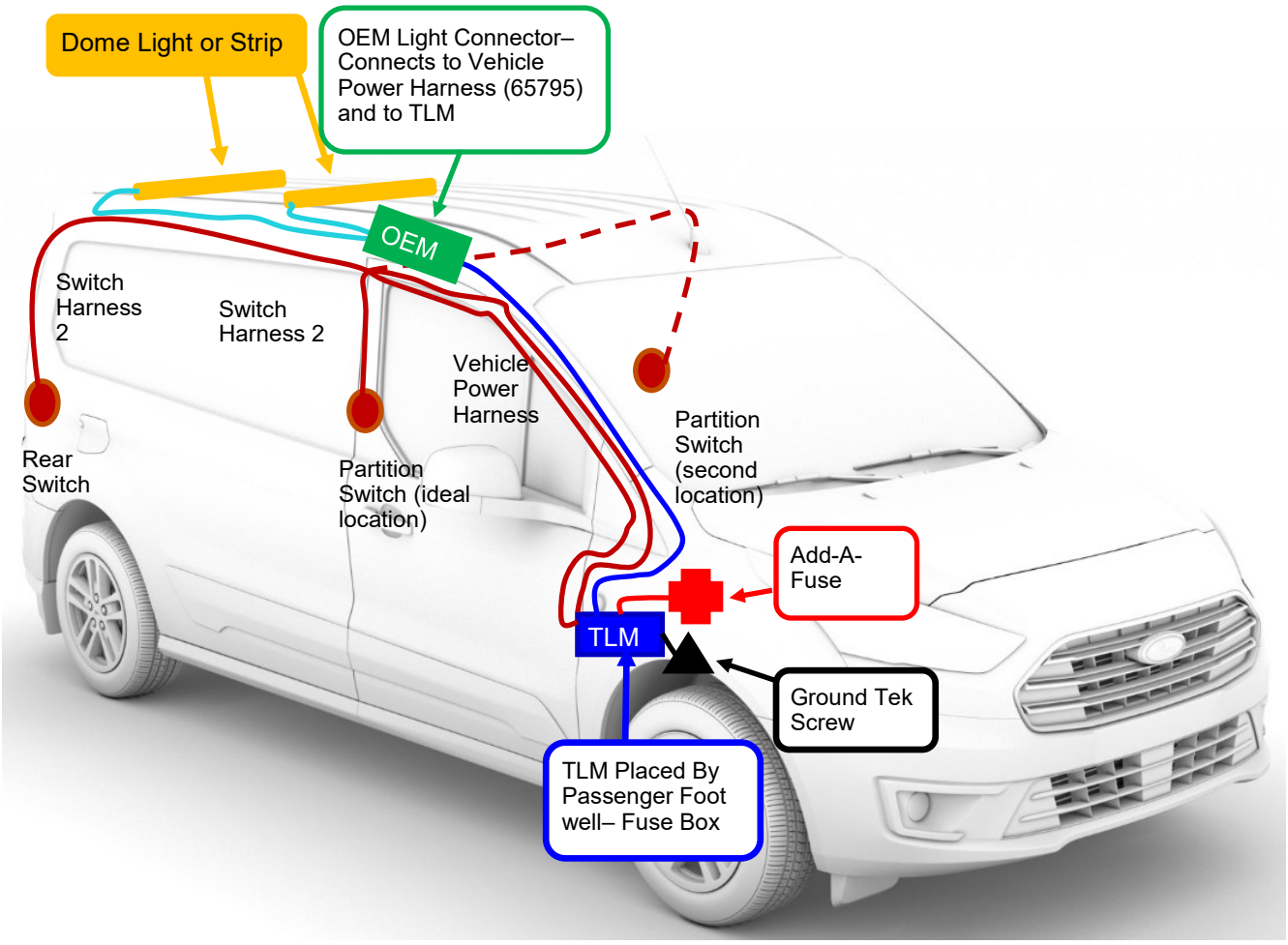
For all RAM vehicles, the white connector will be used to plug into the vehicle specific harness. The black connector will NOT be used.



Harnesses Needed

	Part Number	Description
1	71902	Timer / Low Voltage Module (TLM)
2	63480 Or/And 64222, 65346, 65347, 65348	Dome Light Or/And Strip Lights
3	63481 Or/And 63842, 63483, 63484	Roof Bow Harnesses 1 through 4
4	65795	Power Harness
5	65787 Or/And 65788, 65789, 65790	Switch Harness 1 through 4 for TLM

Harness pictures are for reference only.



Color	Key - Items
Blue	TLM/Harness
Green	Vehicle Specific Power Harness
Black	Ground Location
Red	12V location
Redish/Brown	Switch Harnesses
Yellow	Dome or Strip Lights
Teal	Roof Bow Harnesses

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.

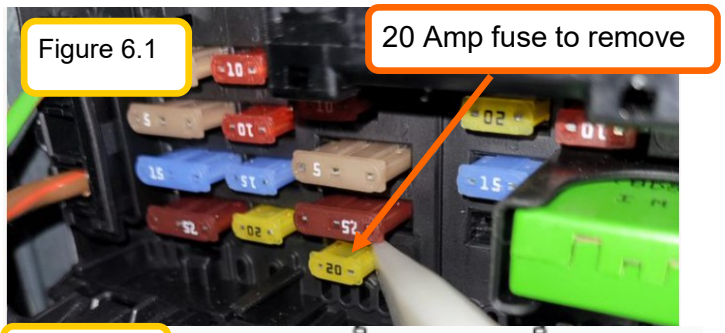


Figure 6.1

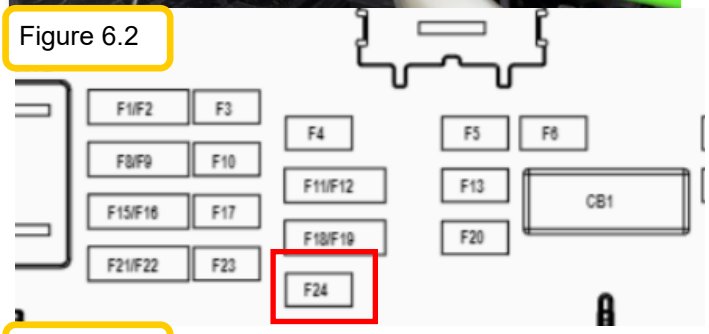


Figure 6.2

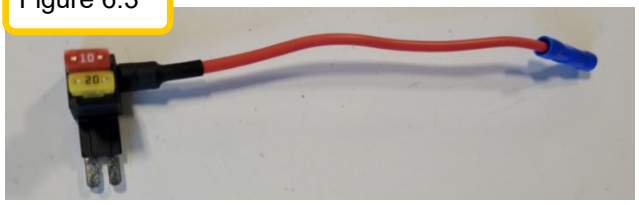


Figure 6.3

Figure 6.4

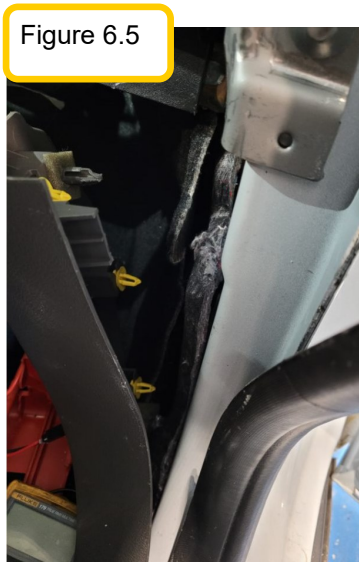


Figure 6.5

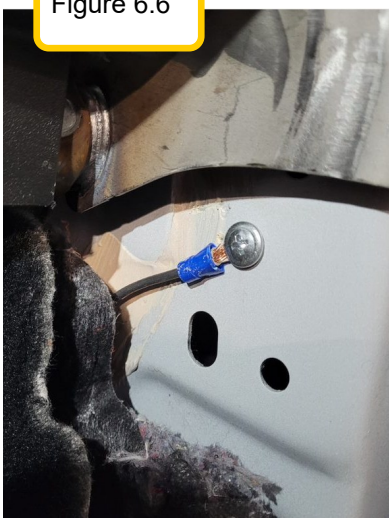


Figure 6.6

Step 1: Locate the TLM power harness #71902
Cut the power wires connector off and strip the ends of both the black and red wire.
Attach the Micro Add-A-Fuse to the blunt cut red wire.
Attach the 1/4” ring terminal to the black wire
Remove the fuse from the inline fuse holder until he end of the install
Plug the harness connector into the timer / low voltage module port

Step 2: Locate the Fuse panel under the passenger side foot well. You will need to remove the glove box and some trim to see the fuse box.

Locate the 20 amp micro (F24) fuse shown in figure 6.1 and 6.2..
Remove the fuse carefully.

Insert the supplied 7.5A fuse into the add-a-fuse holder on the top portion of the insert.
Insert the OEM 20A fuse into the add-a-fuse in the bottom portion of the insert. Figure 6.2.

Insert the add-a-fuse back into the 20A fuse location. Figure 6.4.

Remove the trim panel on the body of the passenger side kick panel. Figure 6.5.

Use the self tapping screw (FAS0148) to ground the ring terminal/ground wire to the body of the van. Figure 6.6.

Step 3:
Apply the VHB tape the back of the TLM (voltage timer module). See figure 6.7.

Figure 6.7

Figure 7.1

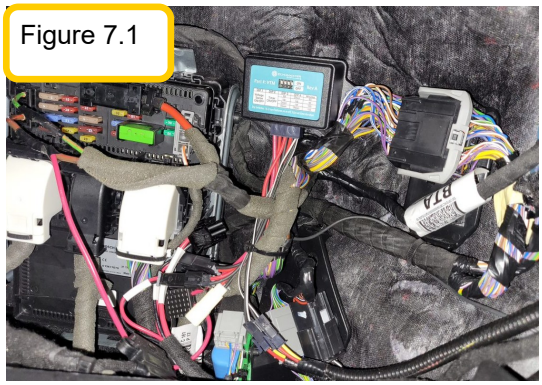


Figure 7.2

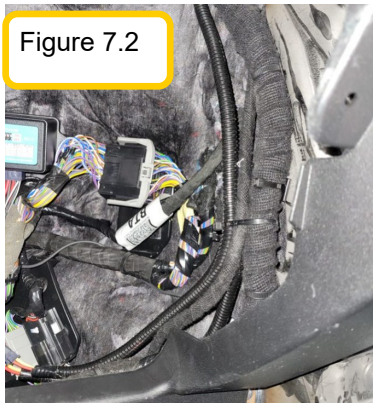


Figure 7.3

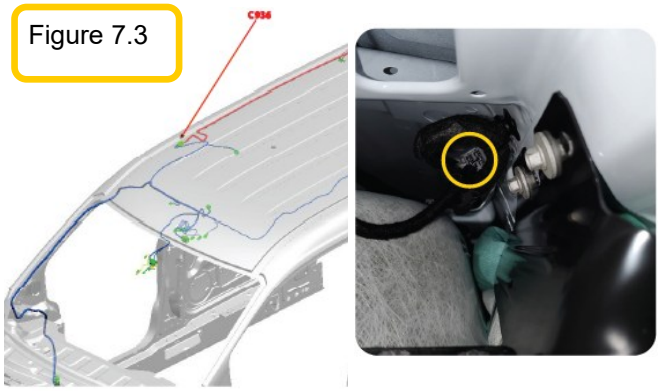
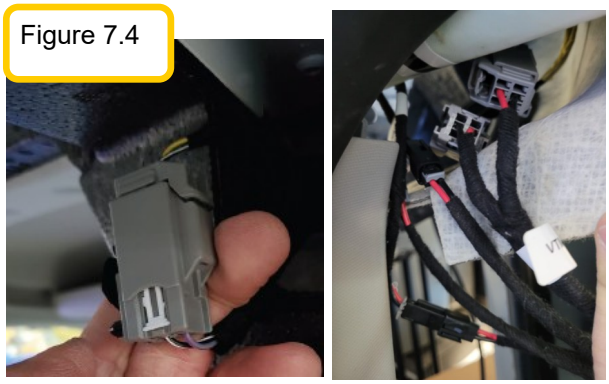


Figure 7.4



Place the TLM to the right of the fuse block like shown in figure 7.1. Secure the TLM to the OEM wire harnesses as needed with zip ties.

Refer to the bottom picture for dip switch settings. If the customer would like a different amount time other than 90 minutes, use the dip switches to set the time.

Plug the switch 2 harnesses (65788) into the TLM harness. See pages 2 & 3 for reference.

Secure wiring to the OEM harnesses as needed. Figure 7.2.

Step 4: Locate the OEM light connector that is located in the headliner, behind the foam. Figure 7.3.
You will need to remove the foam block on 2022+ Transit Connects.

Carefully remove it from the vehicle. You will need to enter the vehicle through the passenger side slider door and remove the block by pulling down the rear
passenger corner of the headliner, then pull the block straight back towards the rear of the vehicle.

The foam block needs to be re-installed after installation of lights is complete.

Disconnect the OEM connectors and plug in the ASCO connector to each side.
Figure 7.4.

Connect the roof bow harnesses (63481 Or/And 63842, 63483, 63484 all that are applicable) to the power harness.

Use zip ties/fir trees to secure all wiring.

Step 5: Dissemble the A-pillar trim. Be careful not to interfere with any air bags or wiring.

TLM Dip Switch Settings

1	2	V-Sense	3	4	5	6
Down	Down	11.8	Down	Down	Up	Down

Stinger Part #: TLM Rev B

DIP 1	DIP 2	V-Sense	DIP 3	DIP 4	DIP 5	Minutes	DIP 6
Up	Up	OFF	Timer	Up	Up	30	ON (Down) Steady Ground Input
Up	Down	11.2V	ON (Down)	Up	Down	60	
Down	Up	11.5V	OFF (Up)	Down	Up	90	OFF (Up) Momentary Ground Input
Down	Down	11.8V		Down	Down	120	

Dip Switches 1 & 2 determine Voltage Sense Threshold
Dip Switch 3 sets option to ON or OFF
Dip Switches 4 & 5 set Timer Duration

Figure 10.1

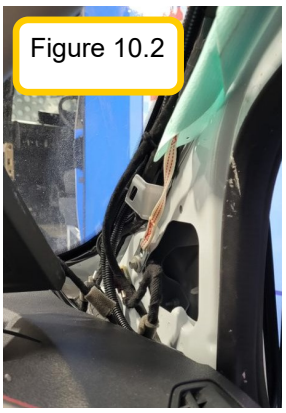


Figure 10.2

Figure 10.3

End to route to the VTM

Figure 10.4

Figure 10.5

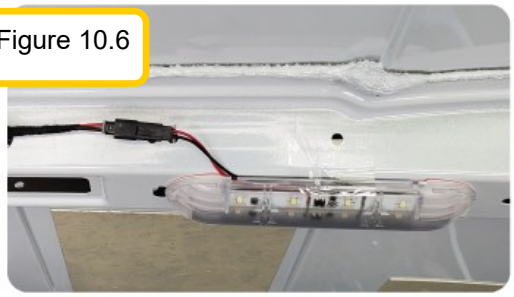


Figure 10.6

Route the switch harnesses up the A-pillar, to the top of the partition area. These will be routed to their locations on the next page. Do not interfere with any airbag wiring.

Route the power harness the opposing way, down the A-pillar to the TLM. Figures 10.0 and 10.2.

Plug the power harness into the TLM, using only the input and output connectors. The relay connector will not be used. Reference page 3 for connections, and figure 10.3.
Be sure to use the black colored TLM input connector referenced on page 4. The white connector will NOT be used for this install.
Secure wiring with zip ties.

Step 6: Plug the roof bow harnesses into the power harness in the headliner area.

Route the roof bow harnesses to the light locations on the roof bows. Be sure to confirm placement of lights with the order drawing. Ideal placements are the very rear door pillar and the last roof bow.

Use the OEM roof channels and fir tree zip ties for securing the wiring. Figures 10.4 and 10.5.

Step 7: Before mounting any lights, prep the surface where the light will be placed with the supplied alcohol pad. Let dry for a few minutes, then mount the light.

Be sure the surface is clean before applying the VHB tape. Read the supplied instructions in the lighting boxes.

Mount the strip/dome lights to their desired locations: Refer to the order drawing.

For dome lights, use the VHB tape already on the back of the light, and also secure with the supplied tek screws. Figure 10.6.

Dome lights are to be placed as close to the center of the roof bow as possible, while straddling the gaps in the roof bow.

For the strip lights, use the VHB tape supplied on the back of the lights, and use the little square sticky backs with zip ties that are supplied in the box.

Figure 11.1

Partition Switch Locations:
Switch hole in steel partition (figure 11.1) or drill out switch hole in composite partition (figure 11.2).

This location will require harness #65788.

Rear Switch Location:
Passenger side rear D-pillar trim.
2.5” left of the D-pillar and 3.5” down from the top edge of the trim.
See figure 11.3 below for reference.

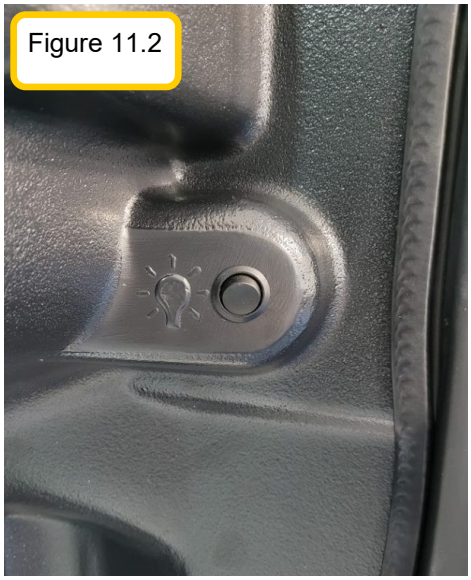
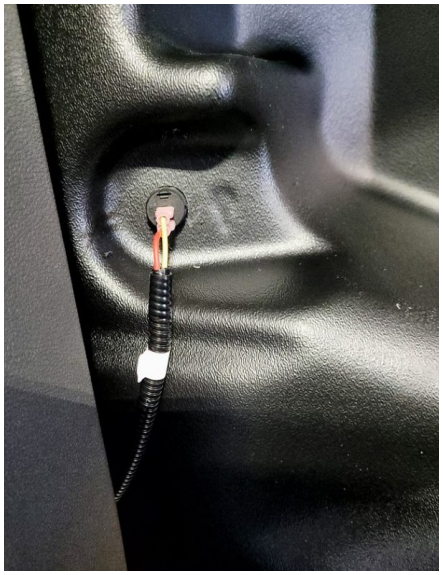


Figure 11.2



This location will also require harness #65788.

Step 8: Route the front switch harness from the TLM harness location to the partition switch location. (From fuse box under passenger side seat, up the A-pillar, then down the partition to the switch hole.

Do the same with the rear harness the D-pillar switch location. Route in the upper channels on the van to the D -pillar then to the switch location.

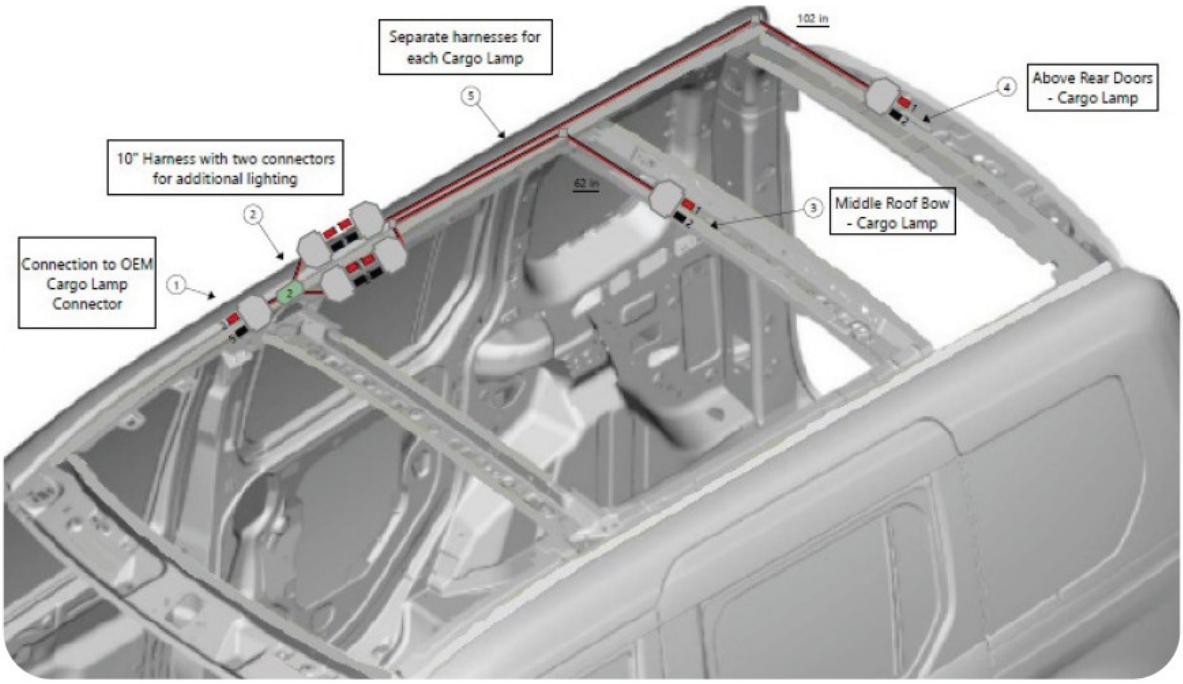
Reference page 5 for routing paths.

Use Zip ties to secure wiring.

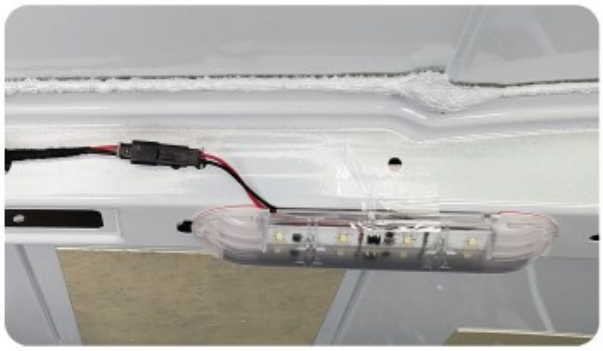
Drill needed holes for the switches in rear D pillar trim panel, and composite partition (if applicable).

Insert the switches into the holes with the “1” in the 12:00 position, connect the harness (the connection orientation does not matter).

Figure 11.3



Final install reference pictures



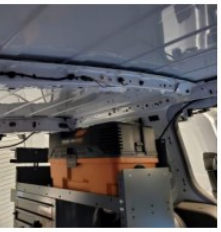
Insert the fuse into the inline-fuse holder on the power harness. The install is now complete. Secure all wiring with zip ties. Re-attach all trim. Double check the functionality of the lights and switches.

Transit Connect basic photos for install

0amp fuse does not
anything in vehicle,
her a spare 20amp
from BCM

Ground for timer module

Harness ran up the passenger kick panel and into the A pillar



ow lighting front
ck

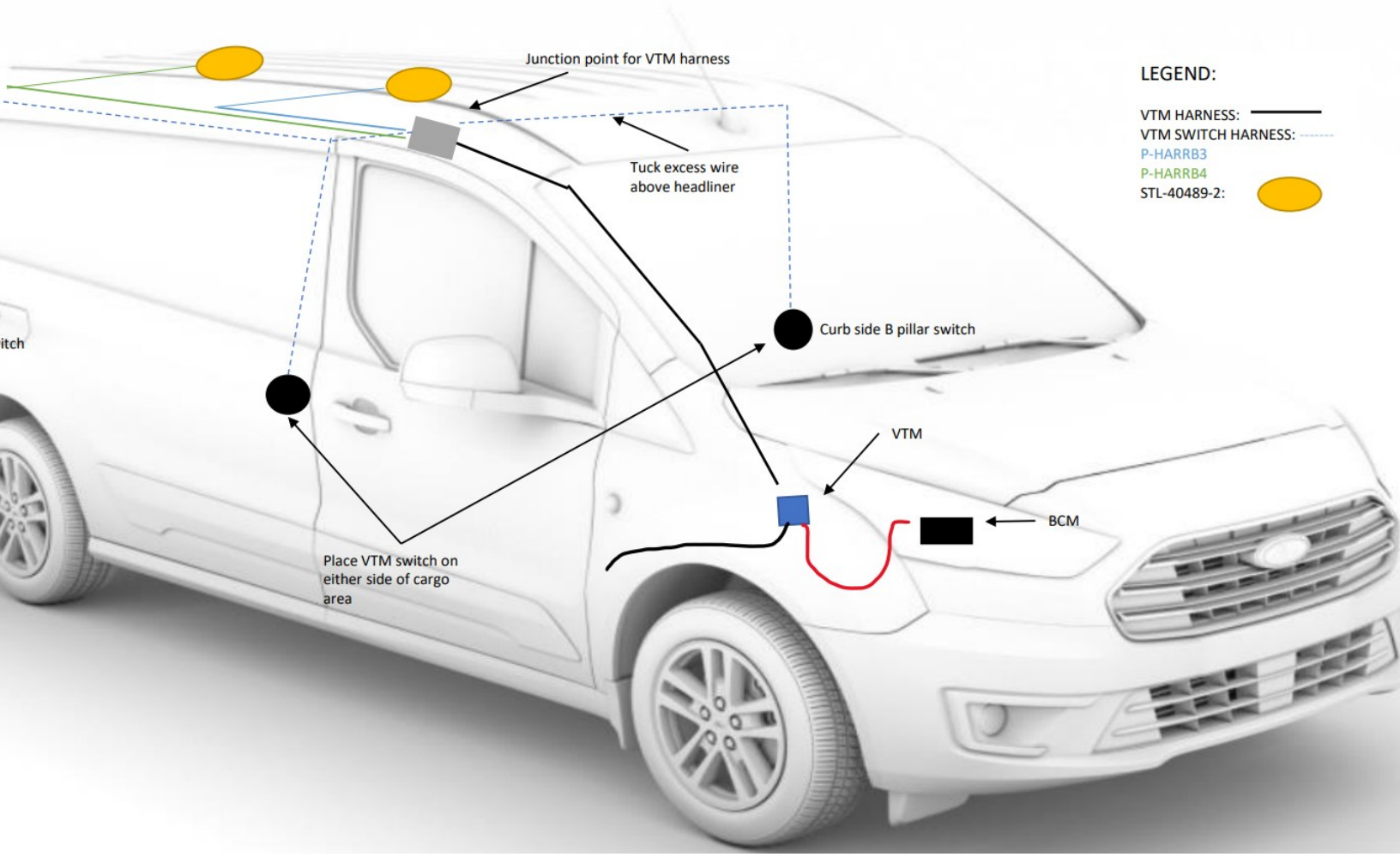
VTM connection point

VTM harness cable tied to factory harness in passenger A pillar

Parts List

- VTM
- ATCM add-a-fuse w/ 7.5 fuse
- ¼' ring terminal
- Vehicle specific harness
- P-HARRB3
- P-HARRB4
- (2) STL-40489-2

Transit Connect line diagram for install



PART NUMBER
13905-0

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

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

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

SPECIAL NOTES: PART NUMBER IS BLACK.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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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	

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

Base is a 0.975 inch square

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

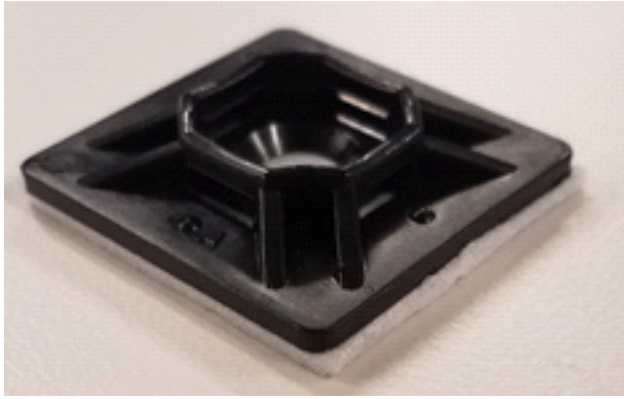
PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS

Black adhesive wire tie mounting base.

Cure Time:	Bond 15 Min., Max Adhesion 1 Hr.
Max. Operating Temp. F:	158
Max. Operating Temp. C:	70
Min. Installation Temp. F:	65



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PRINTED DOCUMENT IS UNCONTROLLED

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: **17429**

CURRENT ECN: **22185**

ECN DESCRIPTION:

Size of the base changed with a change in supplier

REVISED BY: **D. LaCroix**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
Midstate

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
49401

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL **B**

MAT'L USED:

DESIGNED BY: **RJB**

DESCRIPTION: **Adhesive wire tie base**

WEIGHT (Lbs.): **0.05**

SEGMENT CODE: **HDW**

PART NUMBER: **49401**

PART NUMBER
49987

ITEM DESCRIPTION: MICRO2 ADD-A-FUSE FUSE HOLDER

MANUFACTURER: WAYTEK
MANUFACTURERS PART NUMBER: 46177 or similar

SPECIFICATIONS: (1) Add-A-Fuse Micro2 style

SPECIAL NOTES: None.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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Cargo Management Solutions for Commercial Vehicles

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DRAWN BY RJB	DATE DRAWN **08/27/2015**
ECN NUMBER **17776**	ECN DATE **08/27/2015**
PART WEIGHT **0.01 LBS.**	REV. LEVEL **A**
PART NUMBER **49987**	

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

N/A

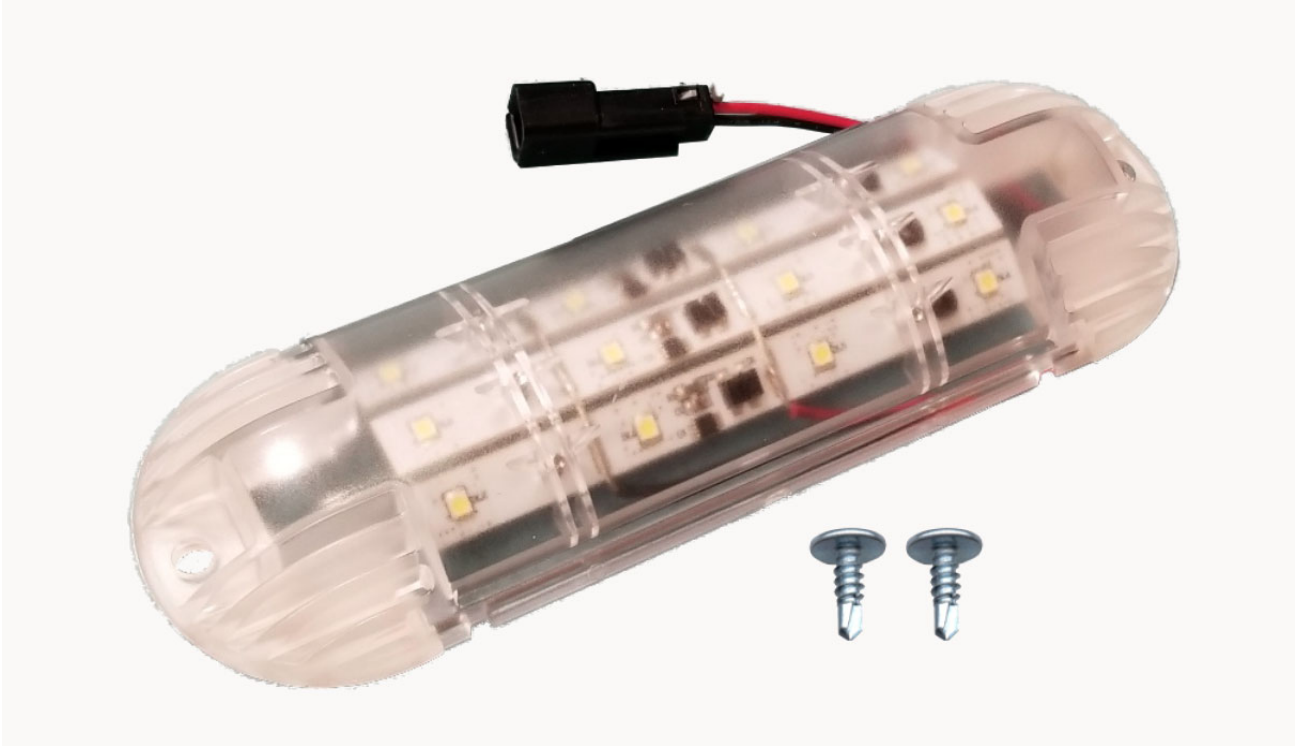
PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS

(1) LED LIGHT WITH 12 LED GROUPED IN THREE ROWS

(2) TEK SCREWS INCLUDED



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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: **24359**

CURRENT ECN: **25886**

ECN DESCRIPTION:

UPDATE SUPPLIER PART #

REVISED BY: **A. ELLISON**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER

OBERTON ELECTRONICS / ECHOMASTER FLEET SOLUTIONS

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER

8018-6000 / STL40489-3

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL **B**

MAT'L USED: **PURCHASED**

DESIGNED BY: **A. ELLISON**

DESCRIPTION: **MODULE DOME LED LIGHT**

WEIGHT (Lbs.): **.50**

SEGMENT CODE: **EAU**

PART NUMBER: **63480**

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

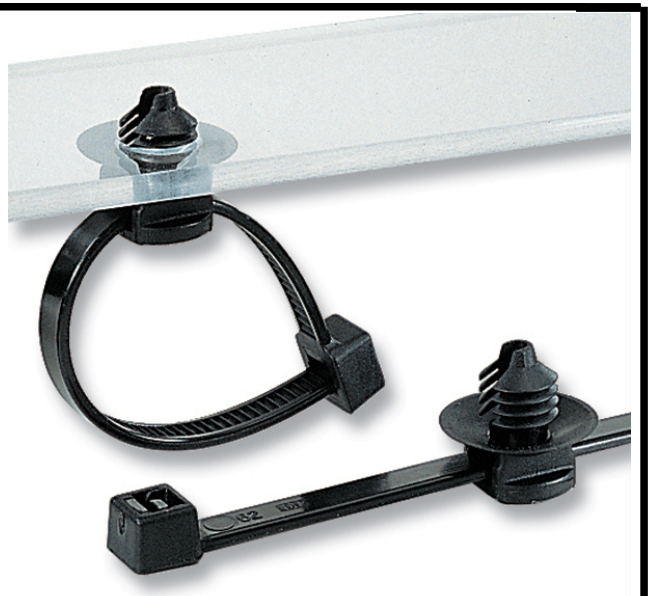
N/A

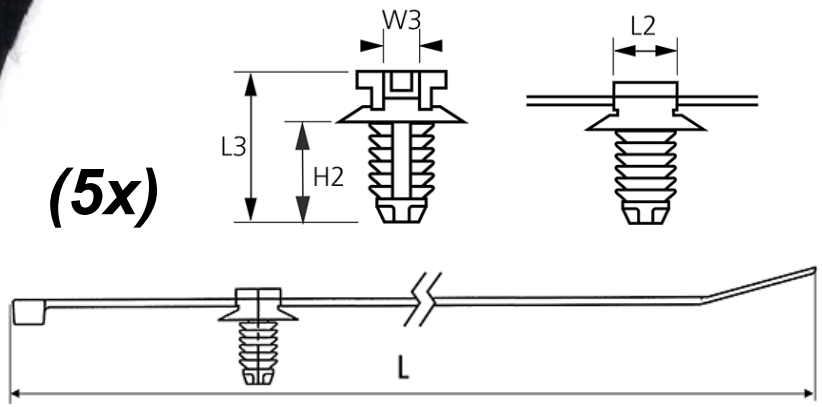
OTHER REQUIREMENTS

- **Roof Bow #2**
- **(5x) WIRE TIE W/CHRISTMAS TREE**
- **1570mm Length**

P-HARRB2

(5x)





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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: **24359**

CURRENT ECN: **24359**

ECN DESCRIPTION:

QE8539 RELEASE MODULAR DOME LIGHTING

REVISED BY: **MJF**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
ECHOMASTER FLEET SOLUTIONS

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
P-HARRB2

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL **A**

MAT'L USED: **PURCHASED**

DESIGNED BY: **MJF**

DESCRIPTION: **ROOF BOW HARNESS #2**

WEIGHT (Lbs.): **.50**

SEGMENT CODE: **EAU**

PART NUMBER: **63482**

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

MATERIAL REQUIREMENT

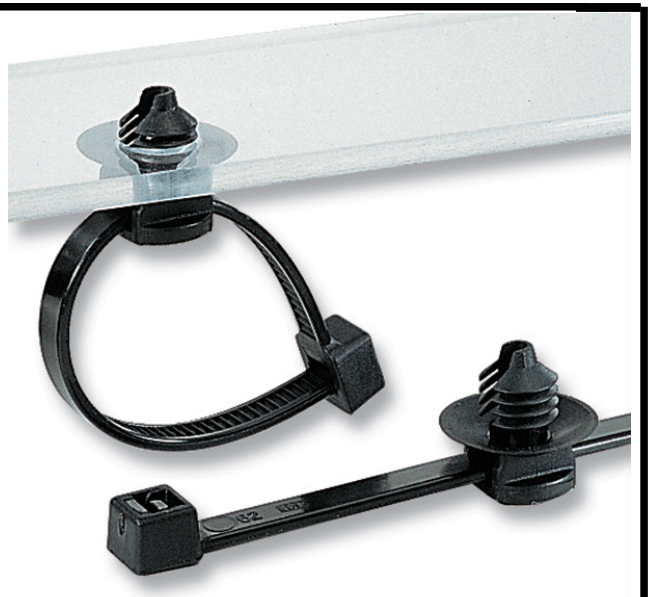
N/A

PACKAGING REQUIREMENT

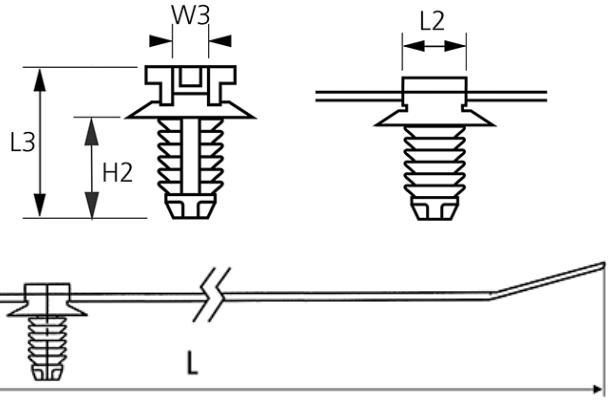
N/A

OTHER REQUIREMENTS

- **Roof Bow #3**
- **(5x) WIRE TIE W/CHRISTMAS TREE**
- **2570mm Length**



(5x)



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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED

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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: **24359**

CURRENT ECN: **24359**

ECN DESCRIPTION:

QE8539 RELEASE MODULAR DOME LIGHTING

REVISED BY: **MJF**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
ECHOMASTER FLEET SOLUTIONS

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
P-HARRB3

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL **A**

MAT'L USED: **PURCHASED**

DESIGNED BY: **MJF**

DESCRIPTION: **ROOF BOW HARNESS #3**

WEIGHT (Lbs.): **.50**

SEGMENT CODE: **EAU**

PART NUMBER: **63483**

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: 25377

CURRENT ECN: 25377

ECN DESCRIPTION:

RELEASE FOR PRODUCTION

REVISED BY:

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
VTM-SW2 OR 65788

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL **A**

MAT'L USED: **PURCHASED**

DESIGNED BY: **E.BURKE**

DESCRIPTION: **SWITCH 2 HARNESS FOR VTM**

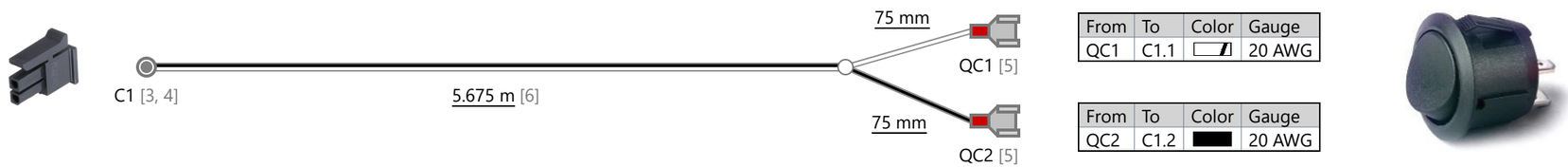
WEIGHT (Lbs.): **0.2**

SEGMENT CODE: **ELE**

PART NUMBER: **65788**

Coverings	
Id	Assembly
[6]	

From	To	Color	Gauge
C1.1	QC1		20 AWG
C1.2	QC2		20 AWG



From	To	Color	Gauge
QC1	C1.1		20 AWG

From	To	Color	Gauge
QC2	C1.2		20 AWG

Revisions			
Rev.	Date	Author	Description
1	6/10/21	Bennet Fisher	Initial Drawing

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

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	Name	Date
Designed By	Bennet Fisher	6/10/2021
Engineering Approval		
Manufacturing Approval		
Revision Approval		
Quality Assurance		

AAMP
ADVANCING VEHICLE TECHNOLOGY

Part Number: VTM-SW2	Revision: 1
Description: 5.675 Meter Switch Harness	Sheet: ----

PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

N/A

LOAD/RATING REQUIREMENT

N/A

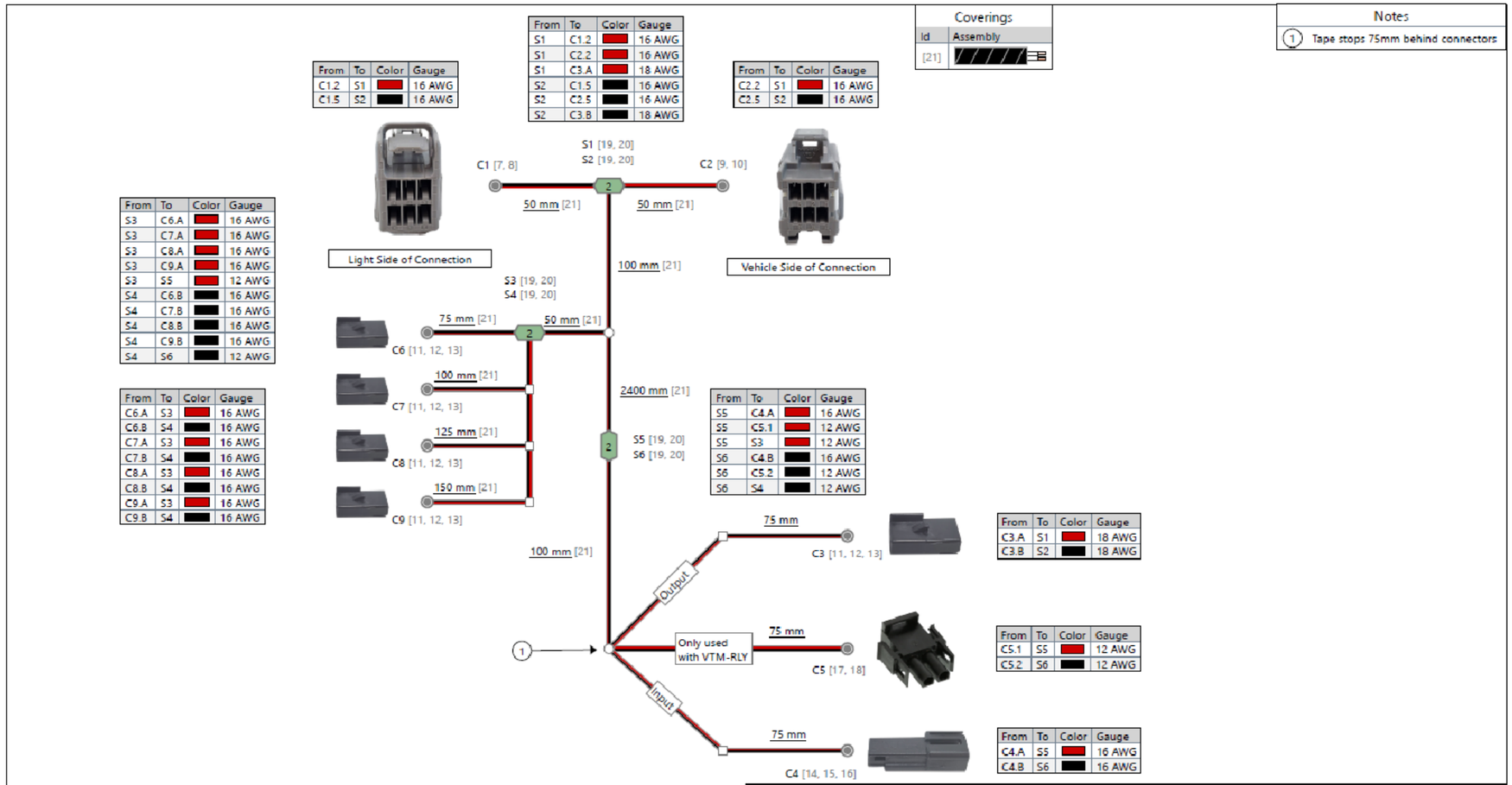
MATERIAL REQUIREMENT

N/A

PACKAGING REQUIREMENT

N/A

OTHER REQUIREMENTS



From	To	Color	Gauge
C1.2	S1		16 AWG
C1.5	S2		16 AWG

From	To	Color	Gauge
S1	C1.2		16 AWG
S1	C2.2		16 AWG
S1	C3.A		18 AWG
S2	C1.5		16 AWG
S2	C2.5		16 AWG
S2	C3.B		18 AWG

From	To	Color	Gauge
C2.2	S1		16 AWG
C2.5	S2		16 AWG

From	To	Color	Gauge
S3	C6.A		16 AWG
S3	C7.A		16 AWG
S3	C8.A		16 AWG
S3	C9.A		16 AWG
S3	S5		12 AWG
S4	C6.B		16 AWG
S4	C7.B		16 AWG
S4	C8.B		16 AWG
S4	C9.B		16 AWG
S4	S6		12 AWG

From	To	Color	Gauge
C6.A	S3		16 AWG
C6.B	S4		16 AWG
C7.A	S3		16 AWG
C7.B	S4		16 AWG
C8.A	S3		16 AWG
C8.B	S4		16 AWG
C9.A	S3		16 AWG
C9.B	S4		16 AWG

From	To	Color	Gauge
S5	C4.A		16 AWG
S5	C5.1		12 AWG
S5	S3		12 AWG
S6	C4.B		16 AWG
S6	C5.2		12 AWG
S6	S4		12 AWG

From	To	Color	Gauge
C3.A	S1		18 AWG
C3.B	S2		18 AWG

From	To	Color	Gauge
C5.1	S5		12 AWG
C5.2	S6		12 AWG

From	To	Color	Gauge
C4.A	S5		16 AWG
C4.B	S6		16 AWG

Coverings

Id	Assembly
[21]	

Notes

1. Tape stops 75mm behind connectors

Revisions

Rev.	Date	Author	Description
A	11/11/21	Bennet Fisher	Initial Drawing

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

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

AAMP — ADVANCING VEHICLE TECHNOLOGY

Part Number: VTM-FTC
Revision: A
Description: 2020-2022 Transit Connect - Timer Module Harness
Sheet: ----

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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: **25377**

CURRENT ECN: **25377**

ECN DESCRIPTION:

RELEASE FOR PRODUCTION

REVISED BY: **EMB**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
VTM-FTC OR 65795

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL **A**

MAT'L USED: **PURCHASED**

DESIGNED BY: **E.BURKE**

DESCRIPTION: **HARN, POWER VTM FTC**

WEIGHT (Lbs.): **0.2**

SEGMENT CODE: **ELE**

PART NUMBER: **65795**

Coverings	
Id	Assembly
[21]	

Notes	
1	Tape stops 75mm behind connectors

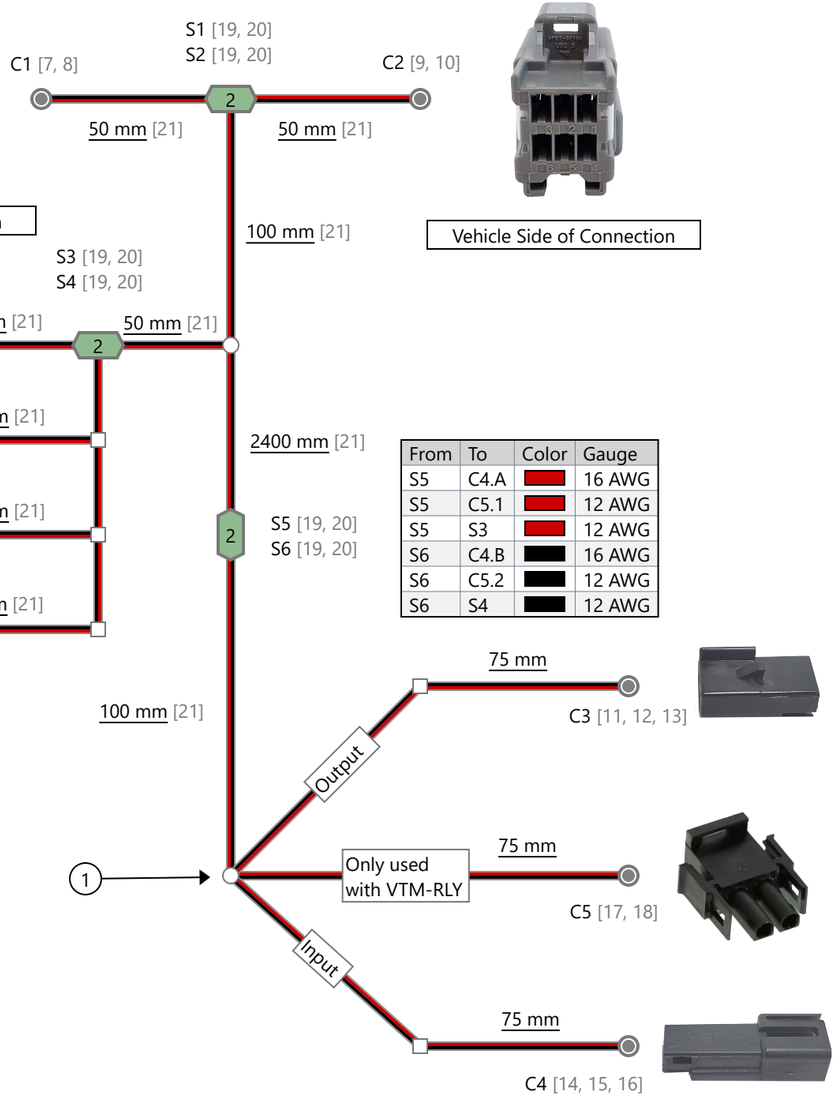
From	To	Color	Gauge
S1	C1.2		16 AWG
S1	C2.2		16 AWG
S1	C3.A		18 AWG
S2	C1.5		16 AWG
S2	C2.5		16 AWG
S2	C3.B		18 AWG

From	To	Color	Gauge
C1.2	S1		16 AWG
C1.5	S2		16 AWG

From	To	Color	Gauge
C2.2	S1		16 AWG
C2.5	S2		16 AWG

Light Side of Connection

Vehicle Side of Connection



From	To	Color	Gauge
S3	C6.A		16 AWG
S3	C7.A		16 AWG
S3	C8.A		16 AWG
S3	C9.A		16 AWG
S3	S5		12 AWG
S4	C6.B		16 AWG
S4	C7.B		16 AWG
S4	C8.B		16 AWG
S4	C9.B		16 AWG
S4	S6		12 AWG

From	To	Color	Gauge
C6.A	S3		16 AWG
C6.B	S4		16 AWG
C7.A	S3		16 AWG
C7.B	S4		16 AWG
C8.A	S3		16 AWG
C8.B	S4		16 AWG
C9.A	S3		16 AWG
C9.B	S4		16 AWG

From	To	Color	Gauge
S5	C4.A		16 AWG
S5	C5.1		12 AWG
S5	S3		12 AWG
S6	C4.B		16 AWG
S6	C5.2		12 AWG
S6	S4		12 AWG

From	To	Color	Gauge
C3.A	S1		18 AWG
C3.B	S2		18 AWG

From	To	Color	Gauge
C5.1	S5		12 AWG
C5.2	S6		12 AWG

From	To	Color	Gauge
C4.A	S5		16 AWG
C4.B	S6		16 AWG

Revisions			
Rev.	Date	Author	Description
A	11/11/21	Bennet Fisher	Initial Drawing

UNLESS OTHERWISE SPECIFIED
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TOLERANCES: ±5MM

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

AAMP
ADVANCING VEHICLE TECHNOLOGY

Part Number: VTM-FTC	Revision: A
Description: 2020-2022 Transit Connect - Timer Module Harness	Sheet: ----

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

RING TERMINAL:
16-14GA
1/4" STUD SIZE
BLUE
TIN PLATED COPPER

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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED

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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: 25975

CURRENT ECN: 25975

ECN DESCRIPTION:

RELEASE TO PRODUCTION

REVISED BY: **N/A**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
WAYTEK

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
37393

COLOR (ONLY LIST IF COLOR SPECIFIC)
BLUE

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL **A**

MAT'L USED: **PURCHASED**

DESIGNED BY: **EMB**

DESCRIPTION: **WIRE TERM 1/4"RING 14-16G**

WEIGHT (Lbs.): **0.01**

SEGMENT CODE: **ELE**

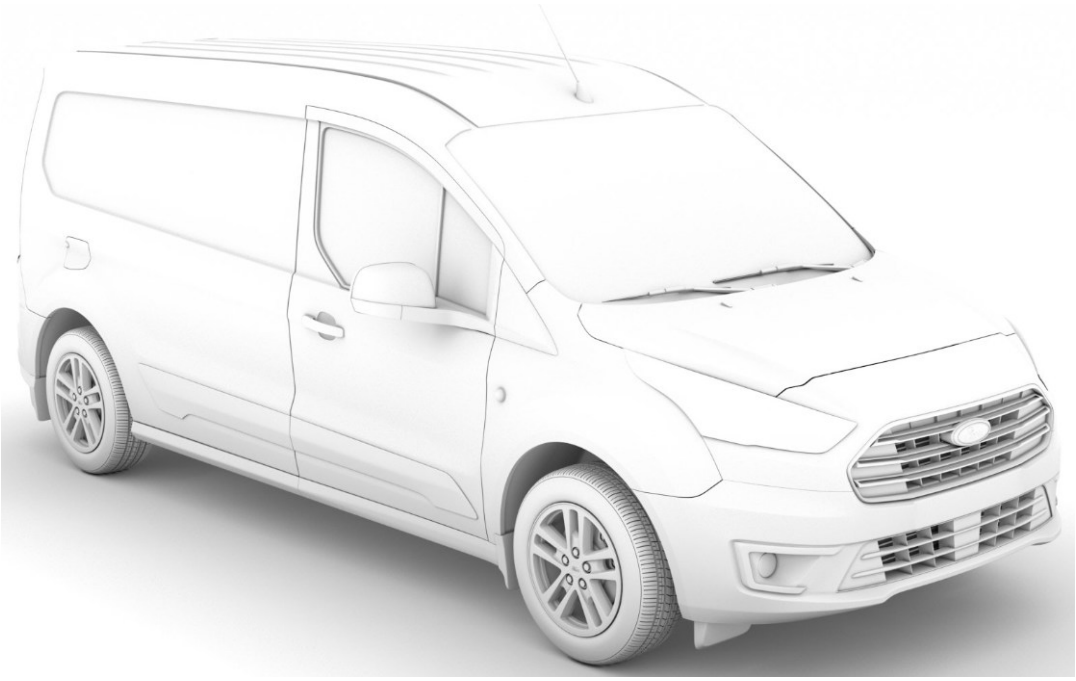
PART NUMBER: **69511**

Introduction / Comments:

Install Instructions For Interior Plug & Play Lights For Transit Connect

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.

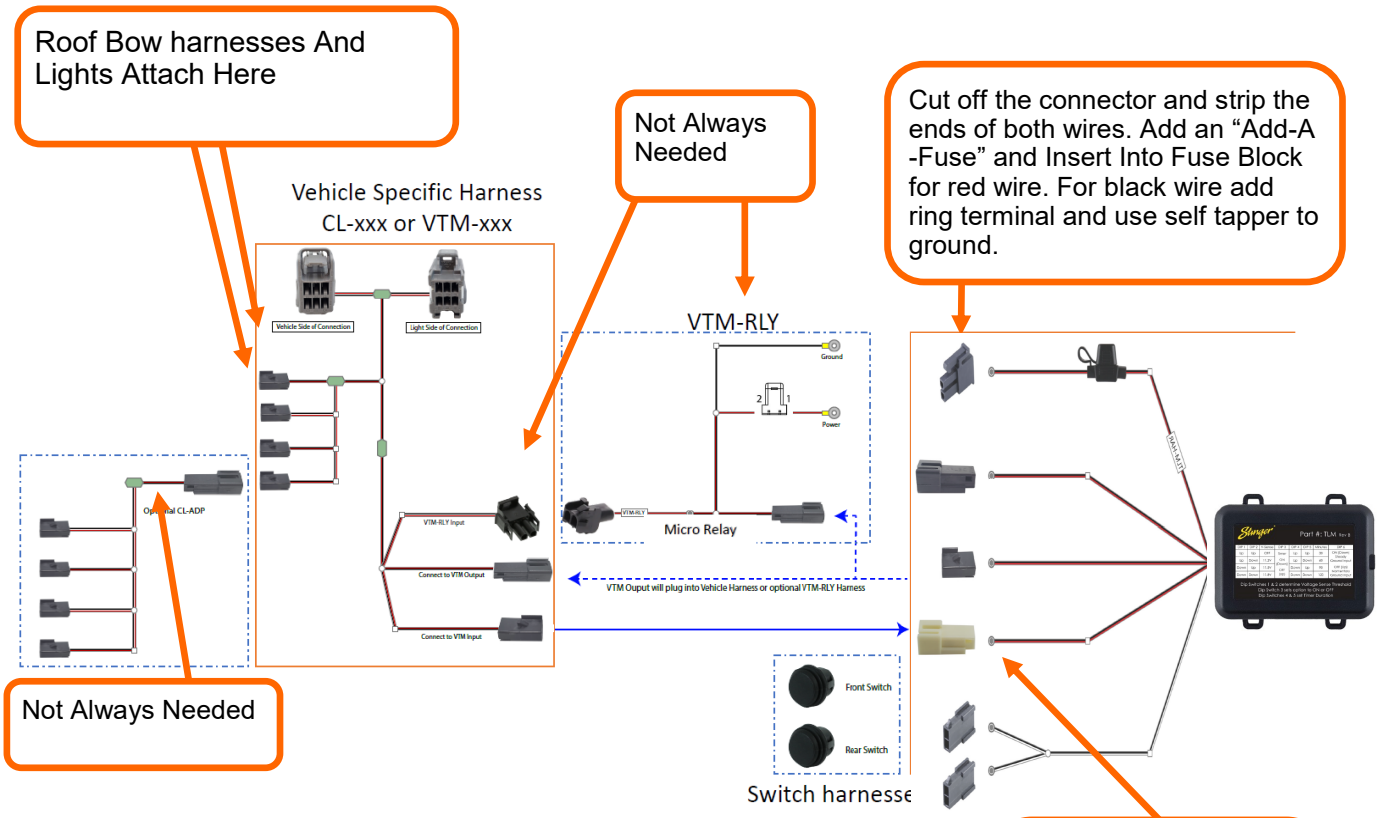


Installation Instructions For Interior Plug And Play Lights For Transit Connect

Please read statement below before moving forward

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. The only harness that is specific to the transit connect vehicle is the power harnesses 65795. Routing will be very standard across all kits, but placement of lights and switches are subject to be different from these instructions if called out on the order drawing differently.

Overall Harness Diagram



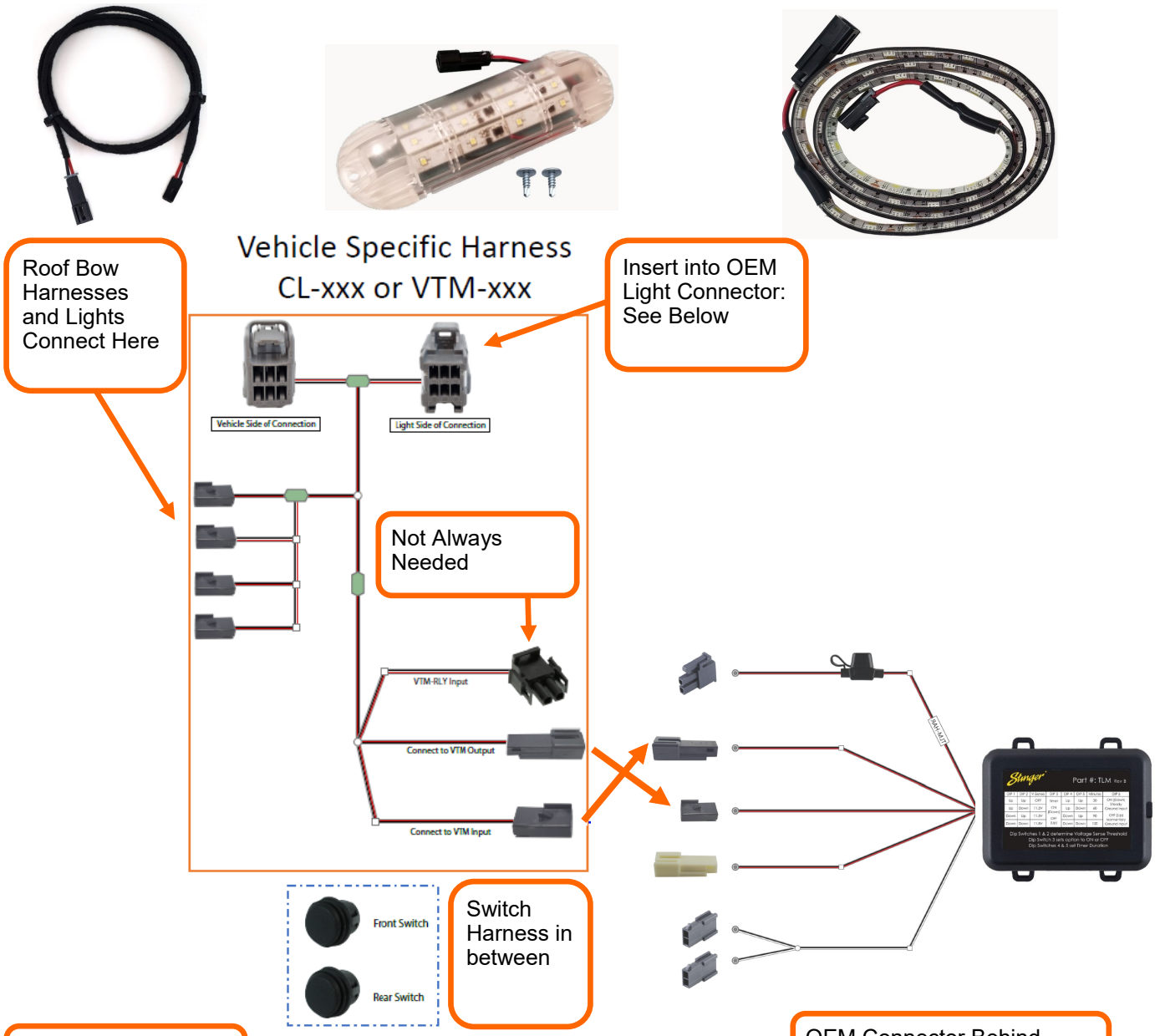
For all vehicles that are NOT RAM. This connector will be black. RAM vehicles, this will be white.
See page 4 for more details.

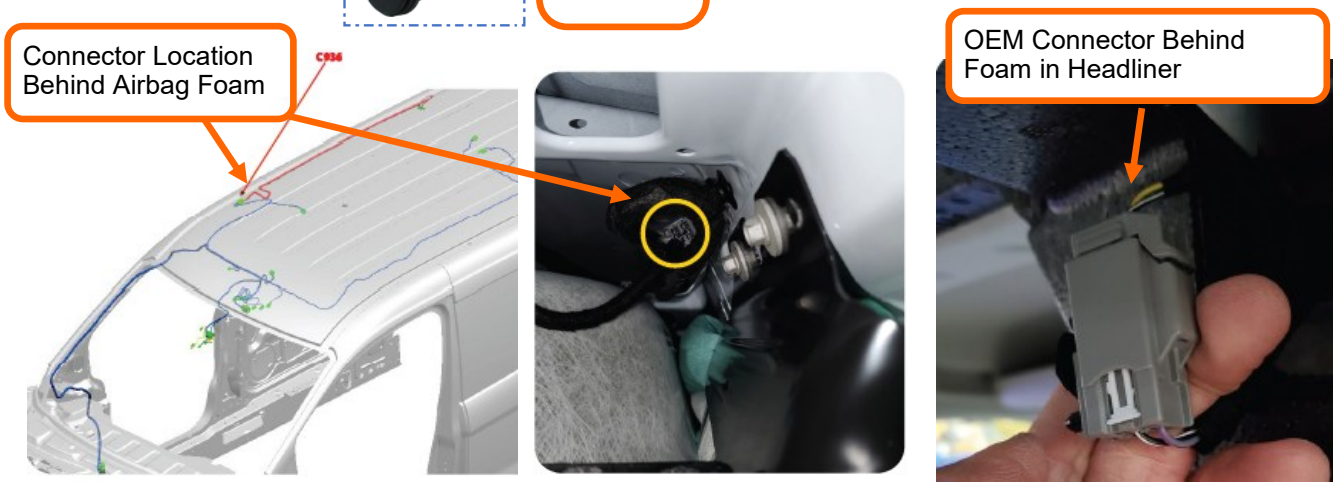
Tools required:

Crimpers

Power drill:
3/8" step drill bit
Philips head bit

Specific Harness Diagram

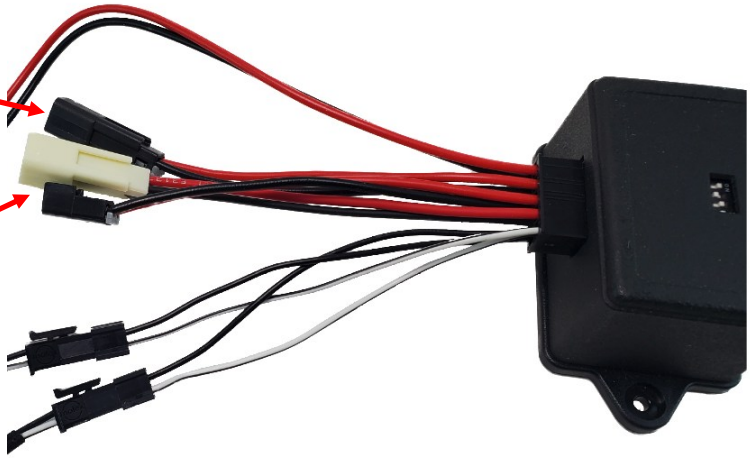




Timer / Low Voltage Module (TLM) Harness Reference

For all vehicles except RAM, the black input connector will be used to plug into the vehicle specific harness. The white connector will NOT be used.

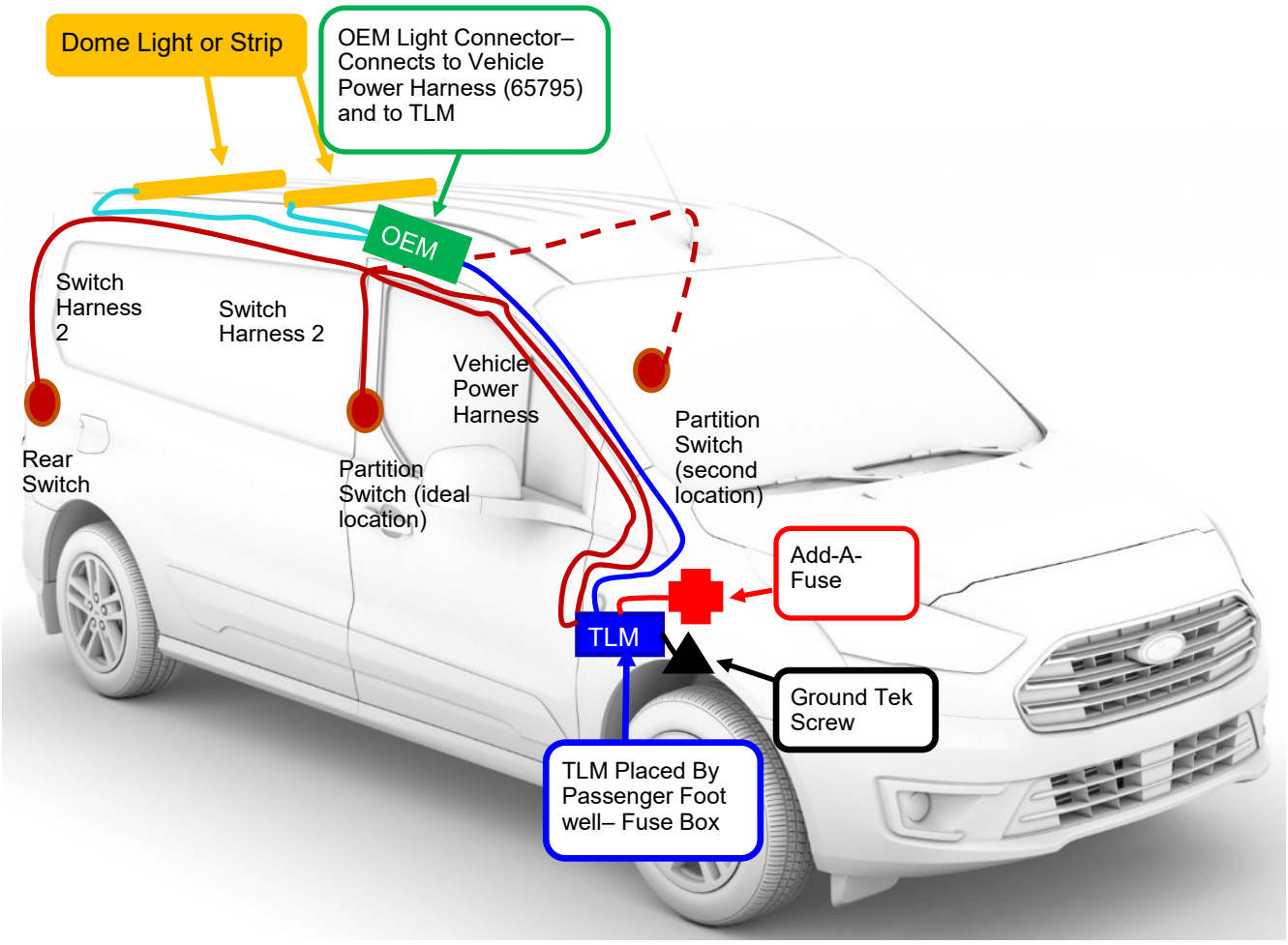
For all RAM vehicles, the white connector will be used to plug into the vehicle specific harness. The black connector will NOT be used.



Harnesses Needed

	Part Number	Description
1	71902	Timer / Low Voltage Module (TLM)
2	63480 Or/And 64222, 65346, 65347, 65348	Dome Light Or/And Strip Lights
3	63481 Or/And 63842, 63483, 63484	Roof Bow Harnesses 1 through 4
4	65795	Power Harness
5	65787 Or/And 65788, 65789, 65790	Switch Harness 1 through 4 for TLM

Harness pictures are for reference only.



Color	Key - Items
Blue	TLM/Harness
Green	Vehicle Specific Power Harness
Black	Ground Location
Red	12V location
Redish/Brown	Switch Harnesses
Yellow	Dome or Strip Lights
Teal	Roof Bow Harnesses

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.

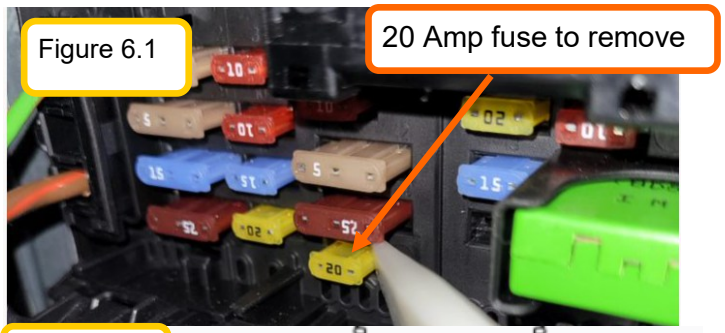


Figure 6.1

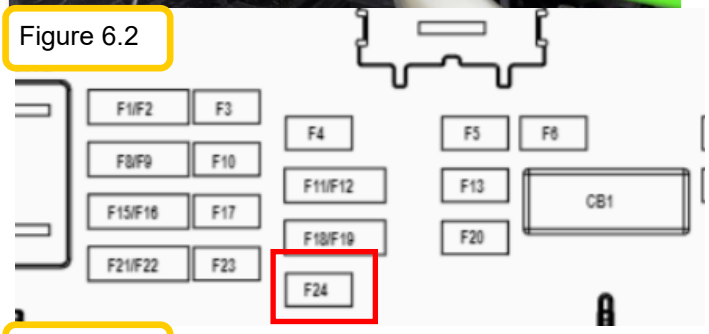


Figure 6.2

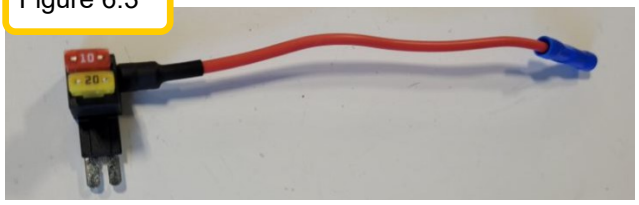


Figure 6.3

Figure 6.4

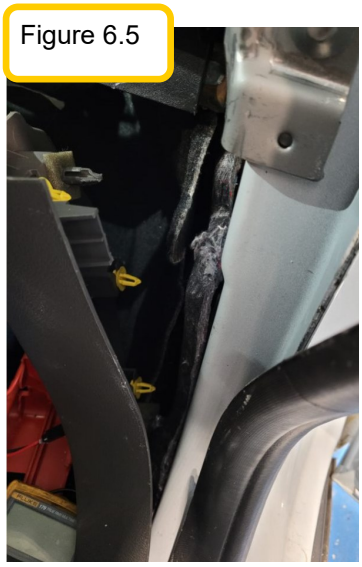


Figure 6.5

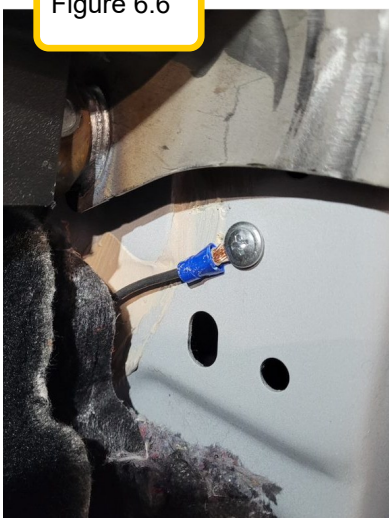


Figure 6.6

Step 1: Locate the TLM power harness #71902
Cut the power wires connector off and strip the ends of both the black and red wire.
Attach the Micro Add-A-Fuse to the blunt cut red wire.
Attach the 1/4” ring terminal to the black wire
Remove the fuse from the inline fuse holder until he end of the install
Plug the harness connector into the timer / low voltage module port

Step 2: Locate the Fuse panel under the passenger side foot well. You will need to remove the glove box and some trim to see the fuse box.

Locate the 20 amp micro (F24) fuse shown in figure 6.1 and 6.2..
Remove the fuse carefully.

Insert the supplied 7.5A fuse into the add-a-fuse holder on the top portion of the insert.
Insert the OEM 20A fuse into the add-a-fuse in the bottom portion of the insert. Figure 6.2.

Insert the add-a-fuse back into the 20A fuse location. Figure 6.4.

Remove the trim panel on the body of the passenger side kick panel. Figure 6.5.

Use the self tapping screw (FAS0148) to ground the ring terminal/ground wire to the body of the van. Figure 6.6.

Step 3:
Apply the VHB tape the back of the TLM (voltage timer module). See figure 6.7.

Figure 6.7

Figure 7.1

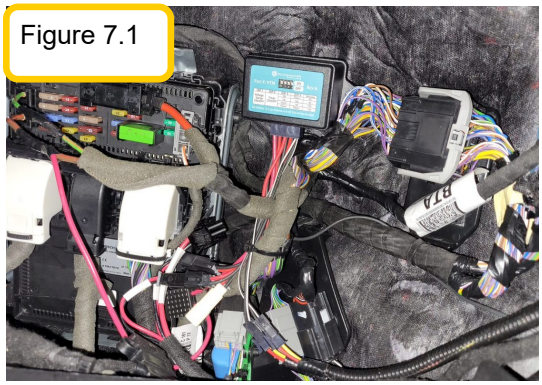


Figure 7.2

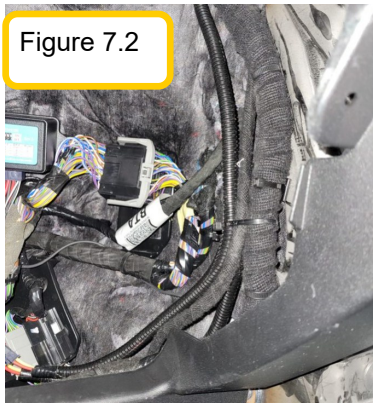


Figure 7.3

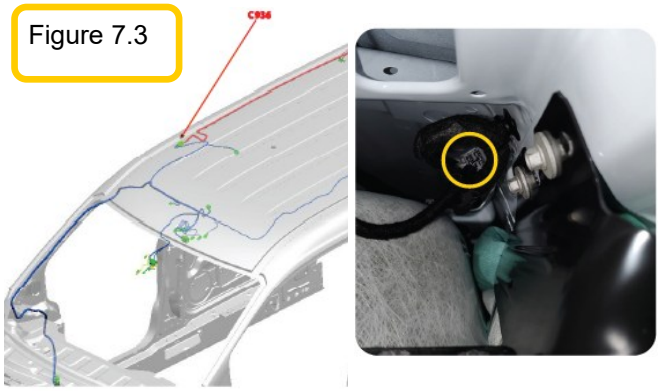
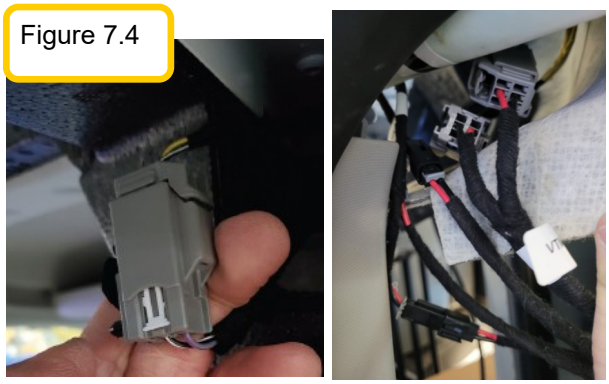


Figure 7.4



Place the TLM to the right of the fuse block like shown in figure 7.1. Secure the TLM to the OEM wire harnesses as needed with zip ties.

Refer to the bottom picture for dip switch settings. If the customer would like a different amount time other than 90 minutes, use the dip switches to set the time.

Plug the switch 2 harnesses (65788) into the TLM harness. See pages 2 & 3 for reference.

Secure wiring to the OEM harnesses as needed. Figure 7.2.

Step 4: Locate the OEM light connector that is located in the headliner, behind the foam. Figure 7.3.
You will need to remove the foam block on 2022+ Transit Connects.

Carefully remove it from the vehicle. You will need to enter the vehicle through the passenger side slider door and remove the block by pulling down the rear
passenger corner of the headliner, then pull the block straight back towards the rear of the vehicle.

The foam block needs to be re-installed after installation of lights is complete.

Disconnect the OEM connectors and plug in the ASCO connector to each side.
Figure 7.4.

Connect the roof bow harnesses (63481 Or/And 63842, 63483, 63484 all that are applicable) to the power harness.

Use zip ties/fir trees to secure all wiring.

Step 5: Dissemble the A-pillar trim. Be careful not to interfere with any air bags or wiring.

TLM Dip Switch Settings

1	2	V-Sense	3	4	5	6
Down	Down	11.8	Down	Down	Up	Up

Stinger® Part #: TLM Rev B

DIP 1	DIP 2	V-Sense	DIP 3	DIP 4	DIP 5	Minutes	DIP 6
Up	Up	OFF	Timer	Up	Up	30	ON (Down) Steady Ground Input
Up	Down	11.2V	ON (Down)	Up	Down	60	
Down	Up	11.5V	OFF (Up)	Down	Up	90	OFF (Up) Momentary Ground Input
Down	Down	11.8V		Down	Down	120	

Dip Switches 1 & 2 determine Voltage Sense Threshold
Dip Switch 3 sets option to ON or OFF
Dip Switches 4 & 5 set Timer Duration

Figure 10.1

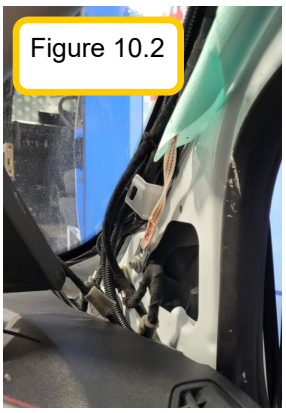


Figure 10.2

Figure 10.3

End to route to the VTM

Figure 10.4

Figure 10.5

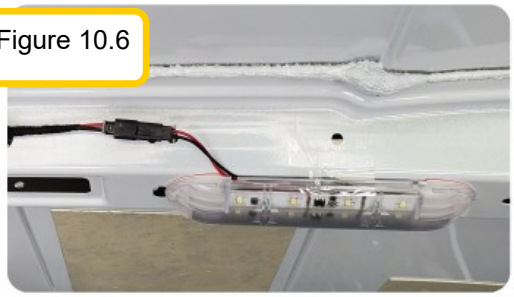


Figure 10.6

Route the switch harnesses up the A-pillar, to the top of the partition area. These will be routed to their locations on the next page. Do not interfere with any airbag wiring.

Route the power harness the opposing way, down the A-pillar to the TLM. Figures 10.0 and 10.2.

Plug the power harness into the TLM, using only the input and output connectors. The relay connector will not be used. Reference page 3 for connections, and figure 10.3.
Be sure to use the black colored TLM input connector referenced on page 4. The white connector will NOT be used for this install.
Secure wiring with zip ties.

Step 6: Plug the roof bow harnesses into the power harness in the headliner area.

Route the roof bow harnesses to the light locations on the roof bows. Be sure to confirm placement of lights with the order drawing. Ideal placements are the very rear door pillar and the last roof bow.

Use the OEM roof channels and fir tree zip ties for securing the wiring. Figures 10.4 and 10.5.

Step 7: Before mounting any lights, prep the surface where the light will be placed with the supplied alcohol pad. Let dry for a few minutes, then mount the light.

Be sure the surface is clean before applying the VHB tape. Read the supplied instructions in the lighting boxes.

Mount the strip/dome lights to their desired locations: Refer to the order drawing.

For dome lights, use the VHB tape already on the back of the light, and also secure with the supplied tek screws. Figure 10.6.

Dome lights are to be placed as close to the center of the roof bow as possible, while straddling the gaps in the roof bow.

For the strip lights, use the VHB tape supplied on the back of the lights, and use the little square sticky backs with zip ties that are supplied in the box.

Figure 11.1

Partition Switch Locations:
Switch hole in steel partition (figure 11.1) or drill out switch hole in composite partition (figure 11.2).

This location will require harness #65788.

Rear Switch Location:
Passenger side rear D-pillar trim.
2.5” left of the D-pillar and 3.5” down from the top edge of the trim.
See figure 11.3 below for reference.

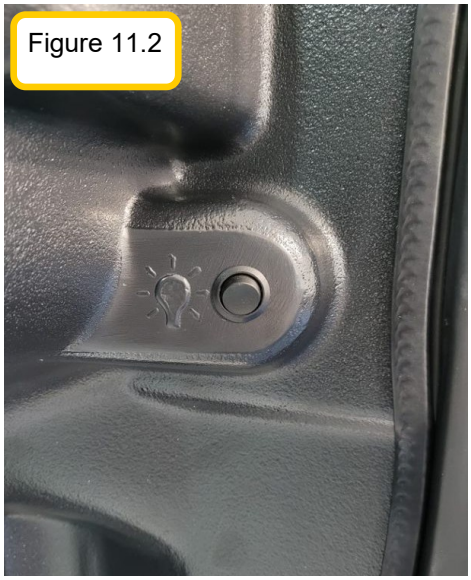
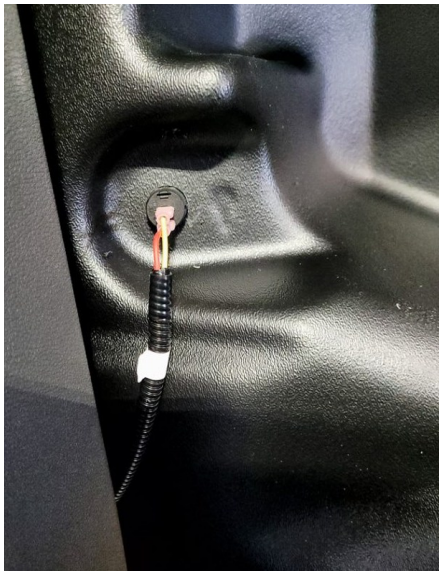


Figure 11.2



This location will also require harness #65788.

Step 8: Route the front switch harness from the TLM harness location to the partition switch location. (From fuse box under passenger side seat, up the A-pillar, then down the partition to the switch hole.

Do the same with the rear harness the D-pillar switch location. Route in the upper channels on the van to the D -pillar then to the switch location.

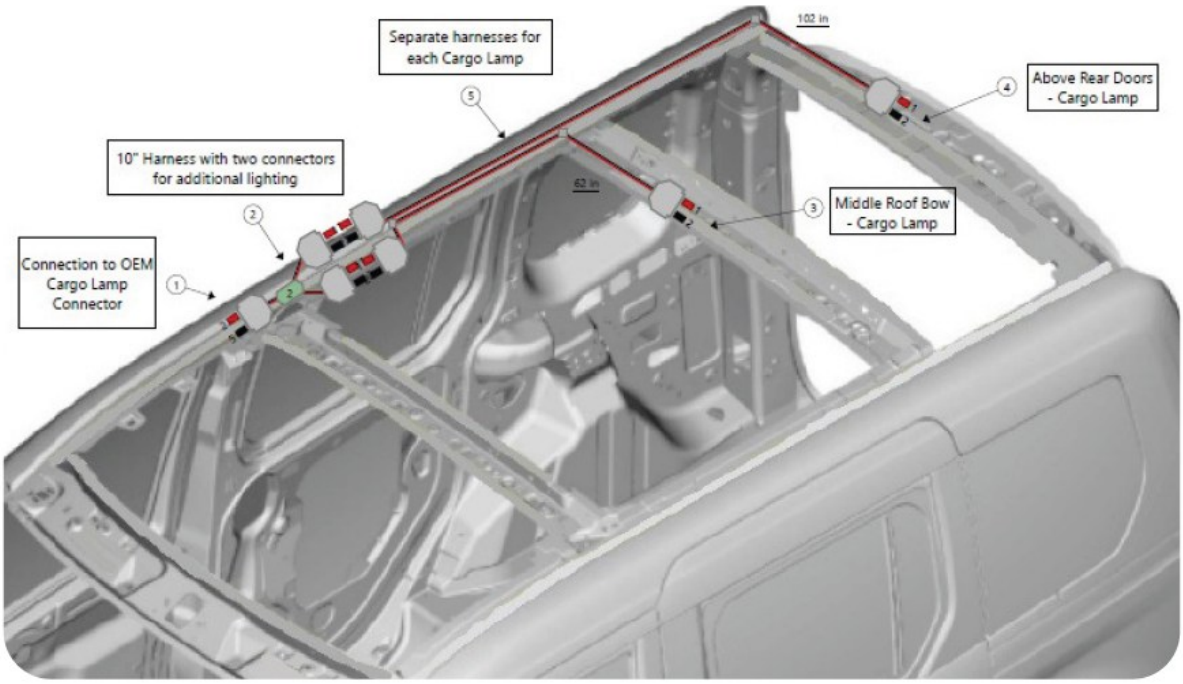
Reference page 5 for routing paths.

Use Zip ties to secure wiring.

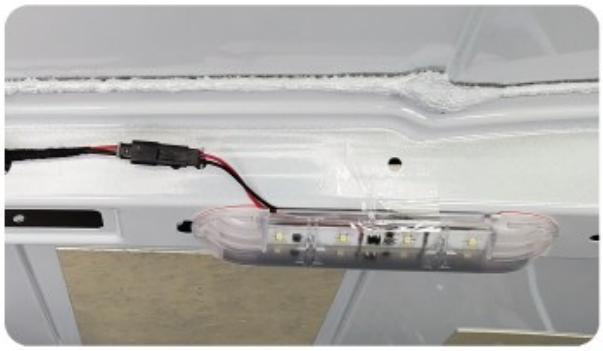
Drill needed holes for the switches in rear D pillar trim panel, and composite partition (if applicable).

Insert the switches into the holes with the “1” in the 12:00 position, connect the harness (the connection orientation does not matter).

Figure 11.3



Final install reference pictures



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. Double check the functionality of the lights and switches.

Transit Connect basic photos for install

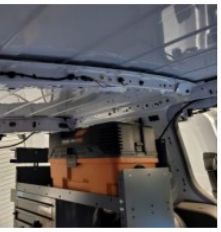
0amp fuse does not
anything in vehicle,
her a spare 20amp
from BCM

Ground for timer module

Harness ran up the passenger kick panel and into the A pillar

Parts List

- VTM
- ATCM add-a-fuse w/ 7.5 fuse
- ¼' ring terminal
- Vehicle specific harness
- P-HARRB3
- P-HARRB4
- (2) STL-40489-2

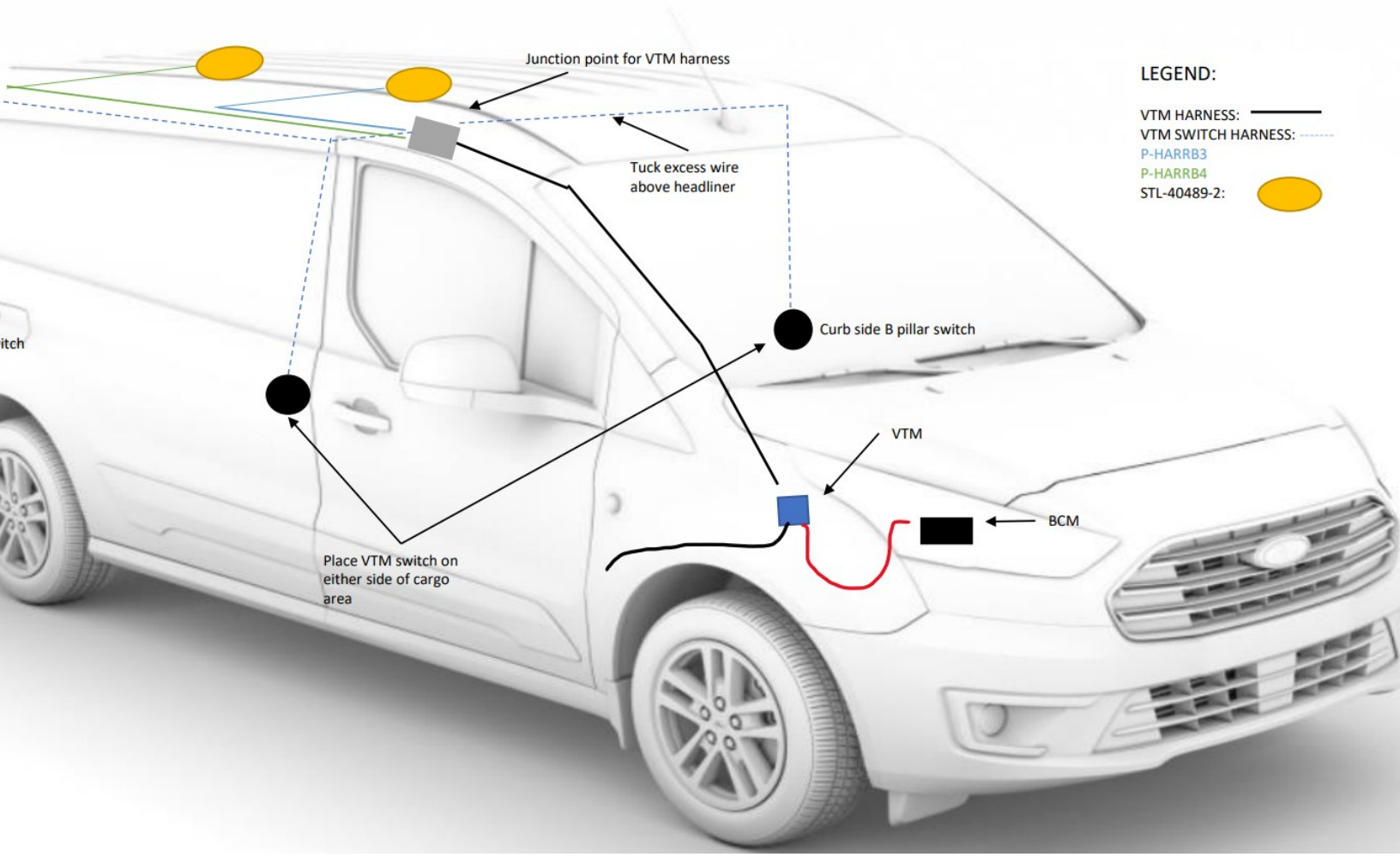


ow lighting front
ck

VTM connection point

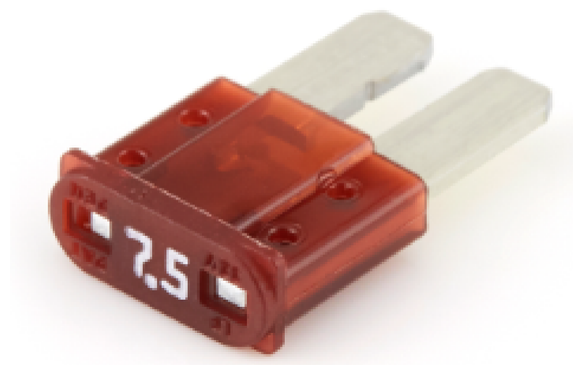
VTM harness cable tied to factory harness in passenger A pillar

Transit Connect line diagram for install



PURCHASED COMPONENT KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING) **MICRO2**
LOAD/RATING REQUIREMENT **5 AMP**
MATERIAL REQUIREMENT **N/A**
PACKAGING REQUIREMENT **N/A**
OTHER REQUIREMENTS **(1) 7.5 AMP FUSE MICRO 2 STYLE**



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PRINTED DOCUMENT IS UNCONTROLLED

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: **26015**

CURRENT ECN: **26015**

ECN DESCRIPTION:
RELEASE TO PRODUCTION.

REVISED BY: **N/A**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
WAYTEK

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
46117

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL
A

MAT'L USED:

DESIGNED BY: **E.Burke**

DESCRIPTION: **FUSE, MICRO2 7.5 AMP**

WEIGHT (Lbs.): **.10**

SEGMENT CODE: **ELE**

PART NUMBER: **69821**

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

TIMER LIGHTING MODULE FOR INTERIOR PLUG AND PLAY LIGHTING ON TOPPERS

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PRINTED DOCUMENT IS UNCONTROLLED

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: **26830**

CURRENT ECN: **27950**

ECN DESCRIPTION:

Update to REV B

REVISED BY: **JJC**

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
Stinger

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
71902

COLOR (ONLY LIST IF COLOR SPECIFIC)

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

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL **B**

MAT'L USED: **PURCHASED**

DESIGNED BY: **E.BURKE**

DESCRIPTION: **TIMER LIGHTING MODULE**

WEIGHT (Lbs.): **0.2**

SEGMENT CODE: **ELE**

PART NUMBER: **71902**

TLM

Timer/Low Voltage Module

INSTALLATION MANUAL

Thank you for purchasing the

TLM

WHAT'S INCLUDED:

- Timer/Low Voltage Module
- Module Harness
- Cable Ties

COMPATIBLE ACCESSORIES:

- Vehicle-specific harness (P-VTM-xxx)
- Switch harness (VTM-SWx)
- High current harness (VTM-RLY)

FEATURES:

- Selectable timer durations - 30, 60, 90, and 120 minutes
- Selectable Low Voltage Sense shut off - 11.8V, 11.5V, and 11.2V
- Timer and Low Voltage sense work independently of each other
- Inputs for 2 momentary switches or a steady ground input
- 10A max current output

OPERATING INSTRUCTIONS:

DIP 1	DIP 2	V-Sense	DIP 3	DIP 4	DIP 5	Minutes	DIP 6
Up	Up	OFF	Timer ON (Down) OFF (Up)	Up	Up	30	ON (Down) Steady Ground Input
Up	Down	11.2V		Up	Down	60	
Down	Up	11.5V		Down	Up	90	OFF (Up) Momentary Ground Input
Down	Down	11.8V		Down	Down	120	

DIP 1-2
If Voltage Sense feature is turned ON, low voltage shut down will occur when the input voltage to the TLM module drops below the V-Sense setting. To eliminate false triggers, there is a 20 second delay before shut down.
If Voltage Sense is turned OFF, input voltage level will not be monitored.

NOTE: Voltage Sense takes precedence over Timer.

DIP 3
If the Timer feature is turned ON and switch input is activated, output voltage will be provided for specified timer duration.

DIP 4-5
Switch settings will determine how long output will be active after the switch input is activated.

NOTE: If an invalid time is selected (e.g. Up, Up, Up or Down, Down, Down) the output will turn off 10 seconds after the switch input is activated.

DIP 6
Steady Ground Input Applications:
Applying ground to the switch input will activate the output, removing ground from switch input will disable the output. If ground is applied once again, the output will be re-activated, and the timer will reset/start over.

Momentary Ground Input Applications:
Applying a pulsed ground to the switch input will activate the output, a seond pulsed ground to the switch input will disable the output. If a pulsed ground is applied once again, the output will be re-activated, and the timer will reset/start over.

Steady Ground Input Applications

Trigger Input	Switch Input	Output	Voltage Sense (ON)	Timer (ON)
Active	N/A	ON	Monitoring Input Voltage	N/A
Not Active	N/A	OFF	N/A	N/A
Not Active	Activated (Input Grounded)	ON	Monitoring Input Voltage	Timer Starts
Not Active	Deactivated (Ground Removed)	OFF	N/A	Timer Off
Not Active	Activated (Input Grounded)	ON	Monitoring Input Voltage	Timer Starts

Momentary Ground Input Applications

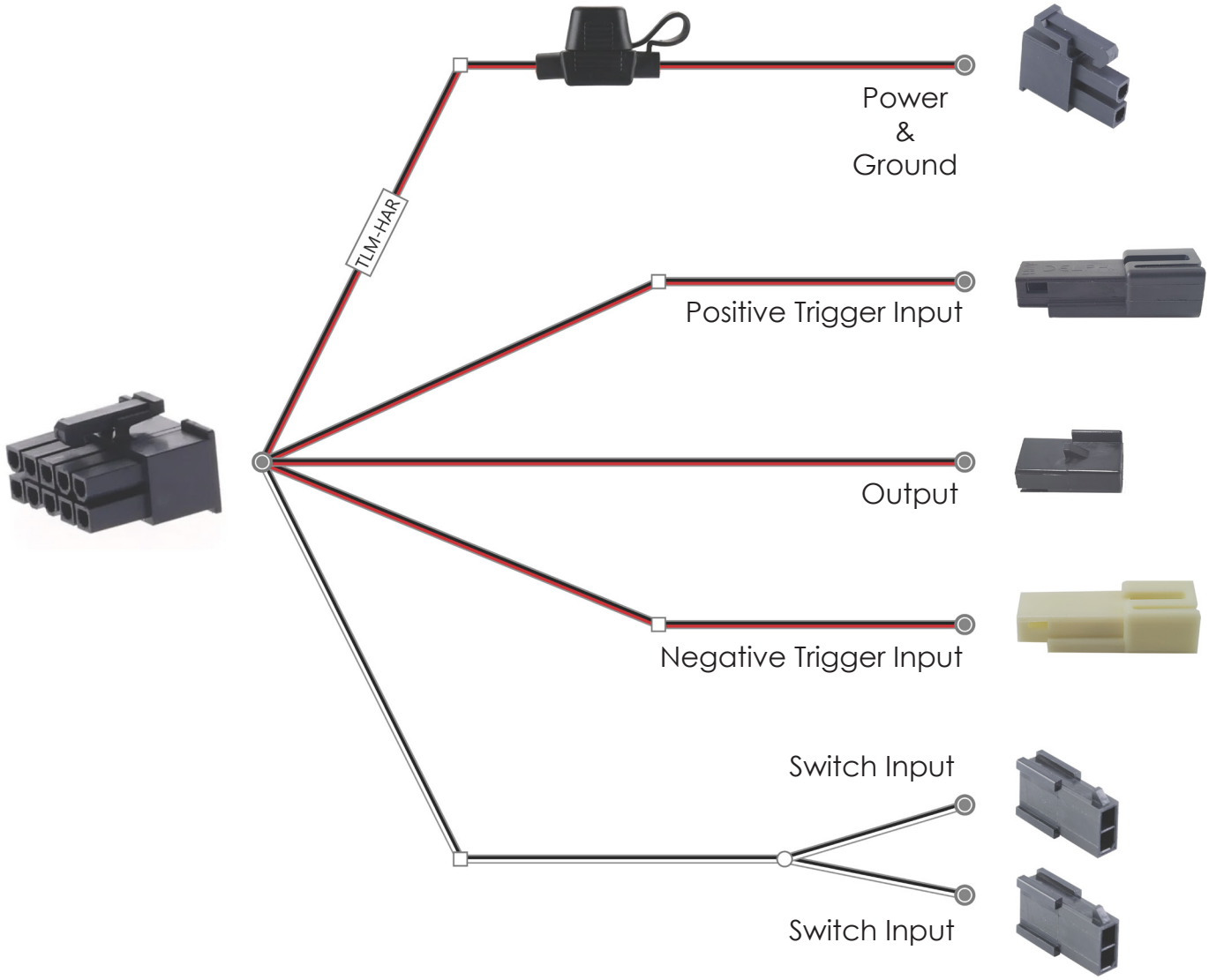
Trigger Input	Switch Input	Output	Voltage Sense (ON)	Timer (ON)
Active	N/A	ON	Monitoring Input Voltage	N/A
Not Active	N/A	OFF	N/A	N/A
Not Active	Activated (Pulsed)	ON	Monitoring Input Voltage	Timer Starts
Not Active	Activated (Pulsed)	OFF	N/A	Timer Off
Not Active	Activated (Pulsed)	ON	Monitoring Input Voltage	Timer Starts

In the tables above "Trigger Input" refers to the Positive Trigger Input and Negative Trigger Input of the module.

If a Trigger Input is active, its function takes precedence. Attempting to activate the Switch Input while a Trigger Input is active will have no effect on the modules output.

WIRING DIAGRAMS:

TLM Harness

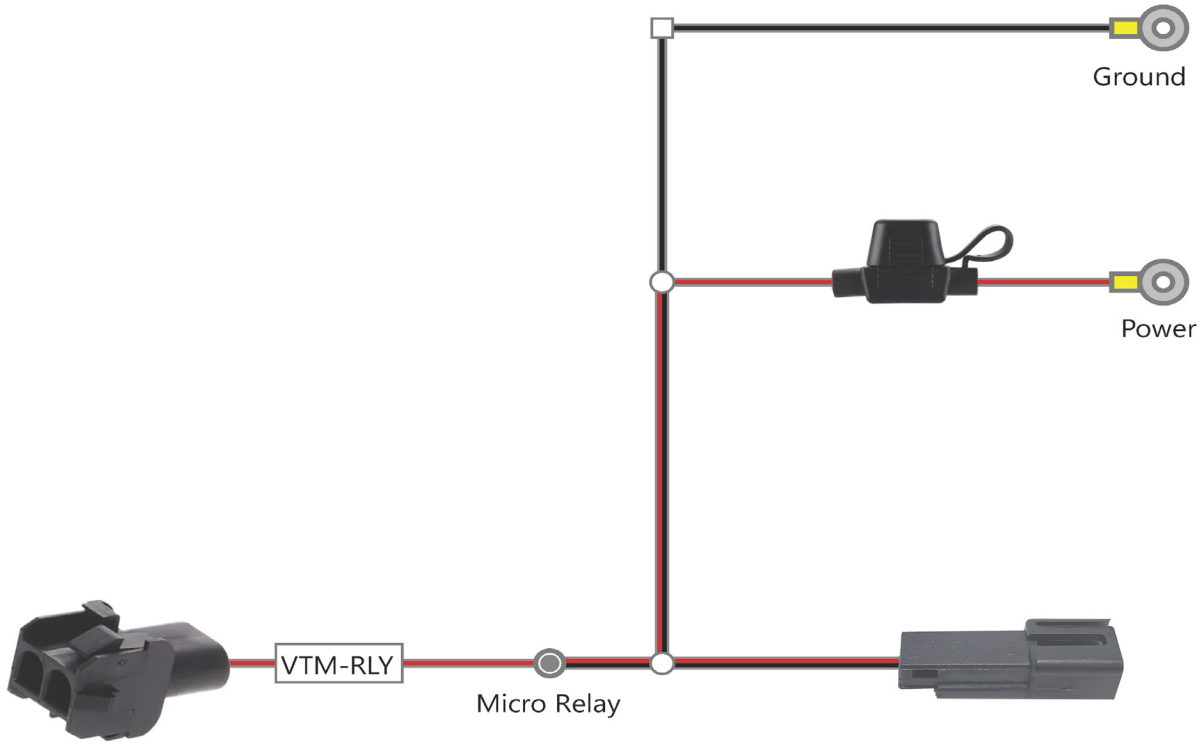


<u>If necessary, connectors may be removed for hardwire applications.</u>

Positive Trigger Input: Applying 12V to Red wire will activate output
Negative Trigger Input: Applying ground to Black wire will activate output
Switch Input: Closing loop between switch input wire leads will activate output

VTM-RLY (Optional Harness)

For larger current demands, use the optional VTM-RLY and connect to power and ground, along with the TLM harness. VTM-RLY supports up to 15A.



VTM-RLY Output connects to P-VTMxxx harness for vehicle lighting

VTM-RLY Input connects to the output from the TLM harness

Troubleshooting Table:

Output does not activate when Positive or Negative Trigger Input is activated	Check fuse on TLM harness	Replace fuse if it is bad
	Check power and ground connections	Fix loose or bad wire connection
	Confirm module has power and ground at its input	Replace module or damaged harness if necessary
Output does not activate when Switch Input is activated	Confirm DIP 6 on module matches switch type being used	Change DIP 6 setting to match switch type
	Confirm switch being used is not defective	Replace bad switch if necessary
Switch Input - Irregular behavior	Output does not turn off with switch	Check DIP 6 and confirm it matches switch type
		Confirm switch is not damaged or defective; replace if necessary
	Output activates for 5 seconds then turns off	Input voltage to module is below Voltage Sense setting

Phone – 866-931-8021 (option 3)

E-Mail – support@stingersolutions.com

StingerSolutions.com

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