



Plug & Play Interior Lighting Kit

CATALOG NUMBER

69636



LED Light Strips Installed

PRODUCT FEATURES

Plug & Play Interior Strip Lighting w/ Switches Kit

- Included in this kit is two (2) 36" LED light strips, voltage timer module, and switches.
- This product is ideal for the Chevrolet Express vans.
- There are no OEM options that this product is not compatible with. There are no OEM options that this product requires.
- This product provides LED lighting to the cargo area of the van.

Model Year Validated:

2023

Introduction / Comments:

Install Instructions For Interior Plug & Play Lights For GM Express

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.

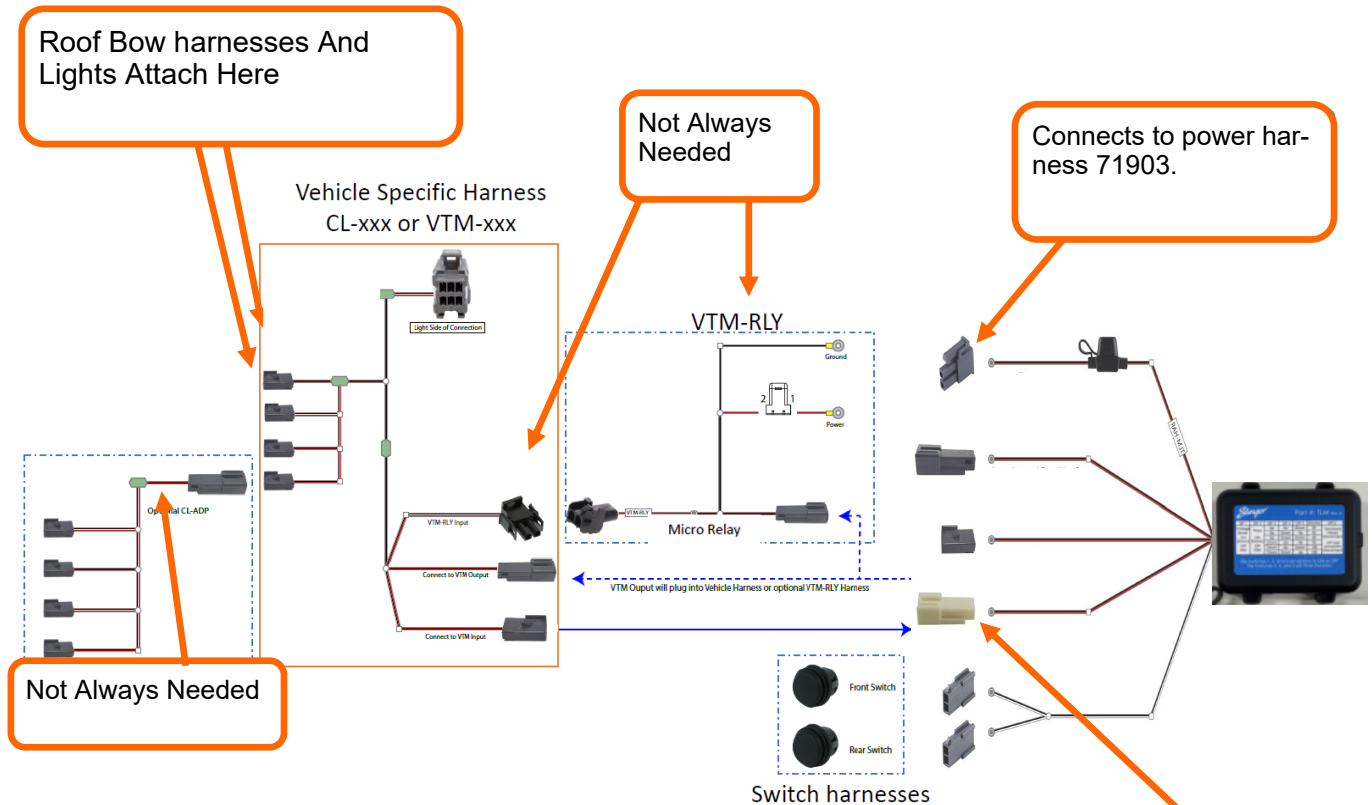


Installation Instructions For Interior Plug And Play Lights For GM Express

****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 vehicle are the power harnesses 65792. 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



Tools required:

Crimpers

7/16 Socket and/or wrench

Power drill, 3/8" step drill bit, Philips head bit (if installing dome lights)



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

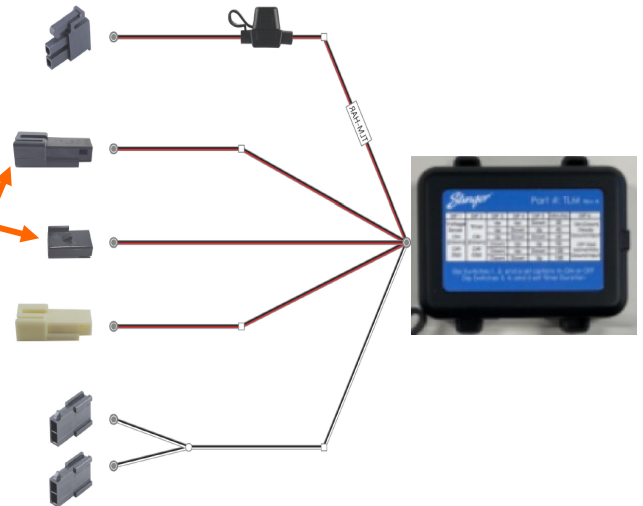
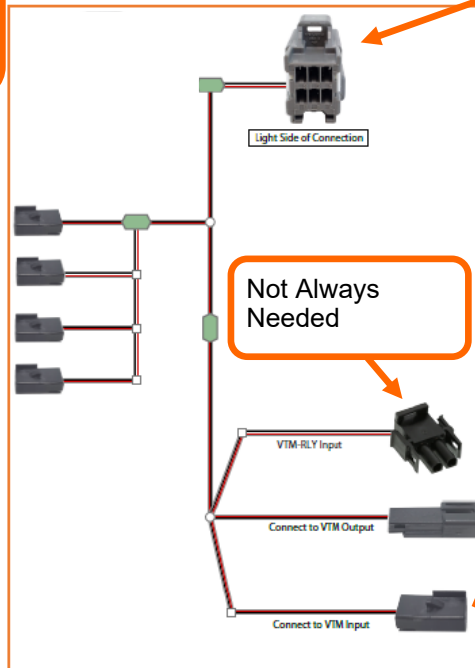
Specific Harness Diagram



Roof Bow
Harnesses
and Lights
Connect Here

Vehicle Specific Harness
CL-xxx or VTM-xxx

Insert into OEM
Light Connector:
See Below



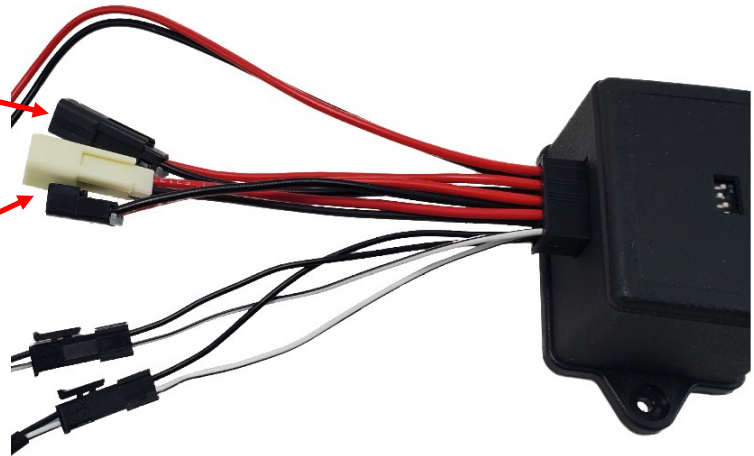
OEM Light Connector located on the OEM light: Remove the OEM
light



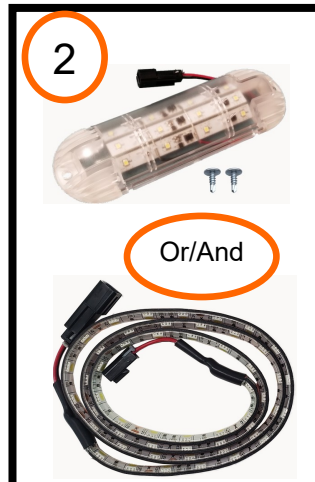
Timer / Low Voltage Module (TLM) Harness Reference

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.

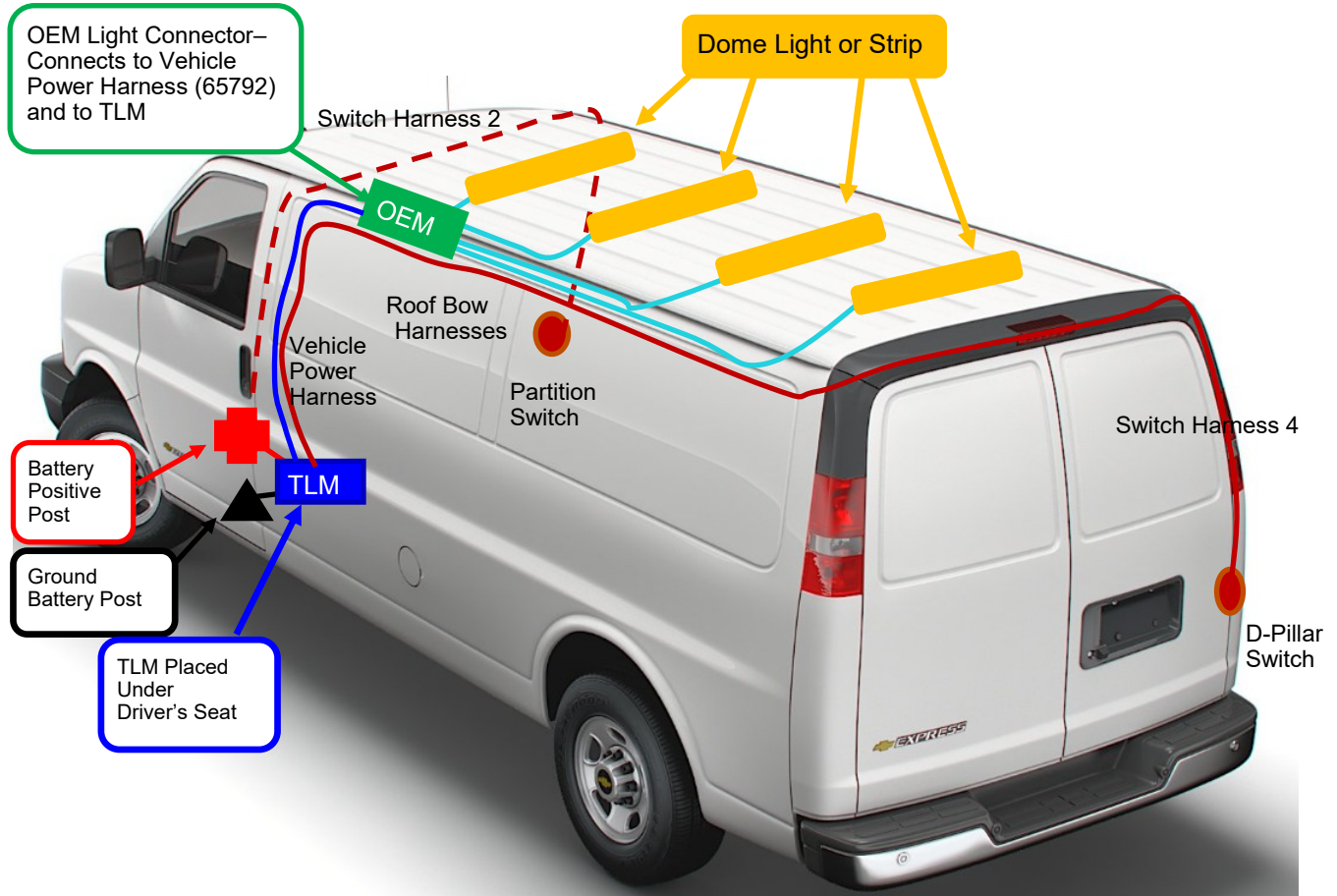


Harnesses Needed



	Part Number	Description
1	65786	Voltage Timer 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	65792	Power Harness
5	65787 Or/And 65788, 65789, 65790	Switch Harness 1 through 4 for TLM
6	71903	Battery Power Harness

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.

Optional Required Harnesses:

64244: This adapter harness allows for extra extensions to be added (if needed).



Be sure not to overload the OEM circuit by putting too many lights on the circuit. Consult ASCO Electrical Engineering team for application advice if using more than 4 lights.

Add Relay Harness 65791 for extra amperage. (Not always needed)

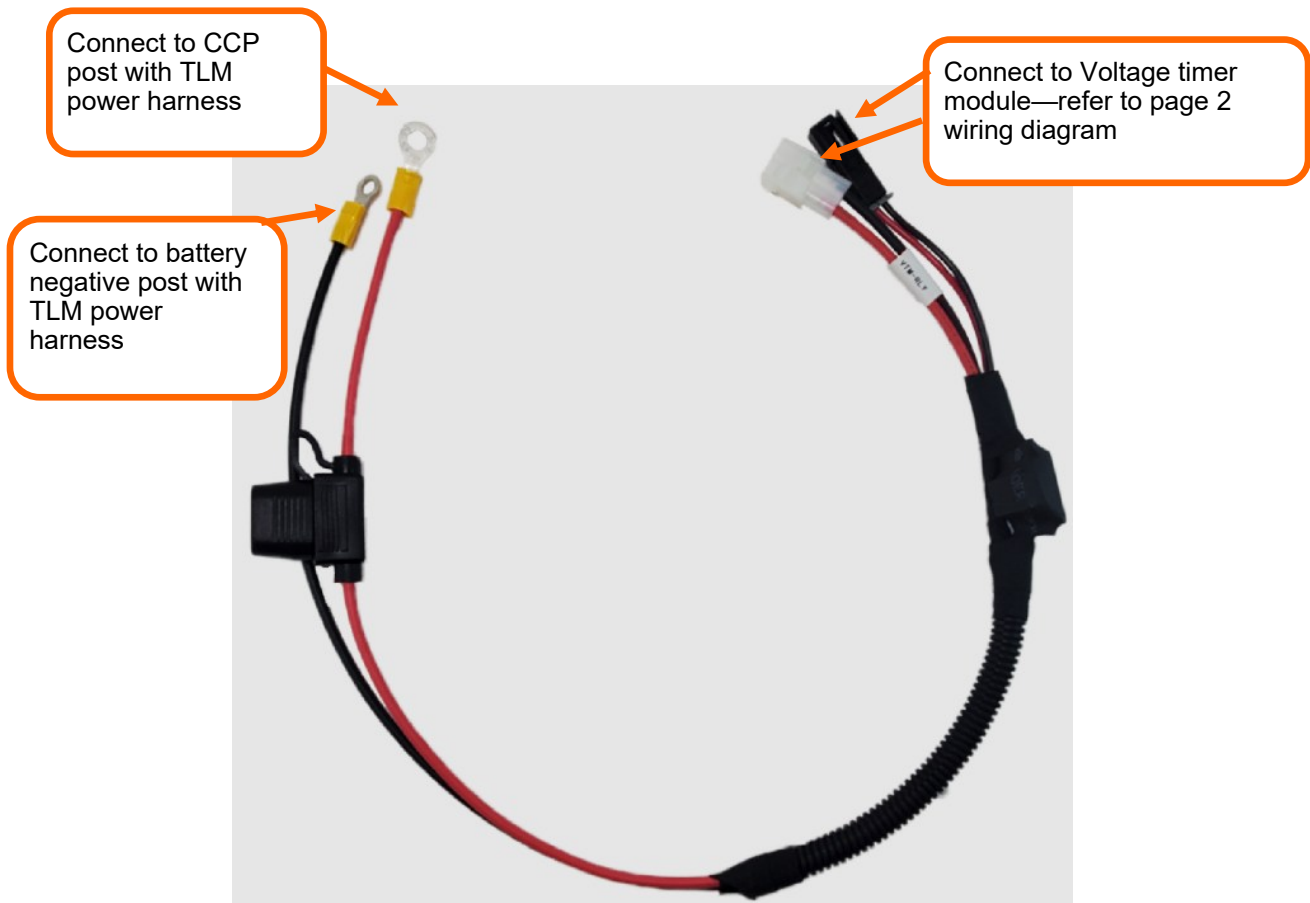


Figure 7.1



Figure 7.2



Figure 7.3



Pre Work for install:

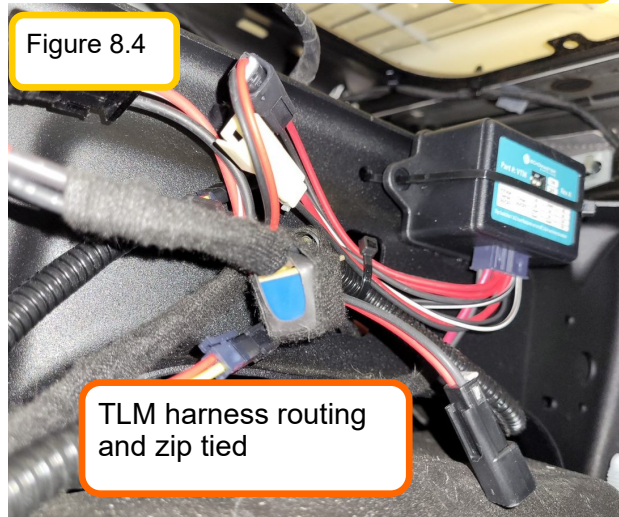
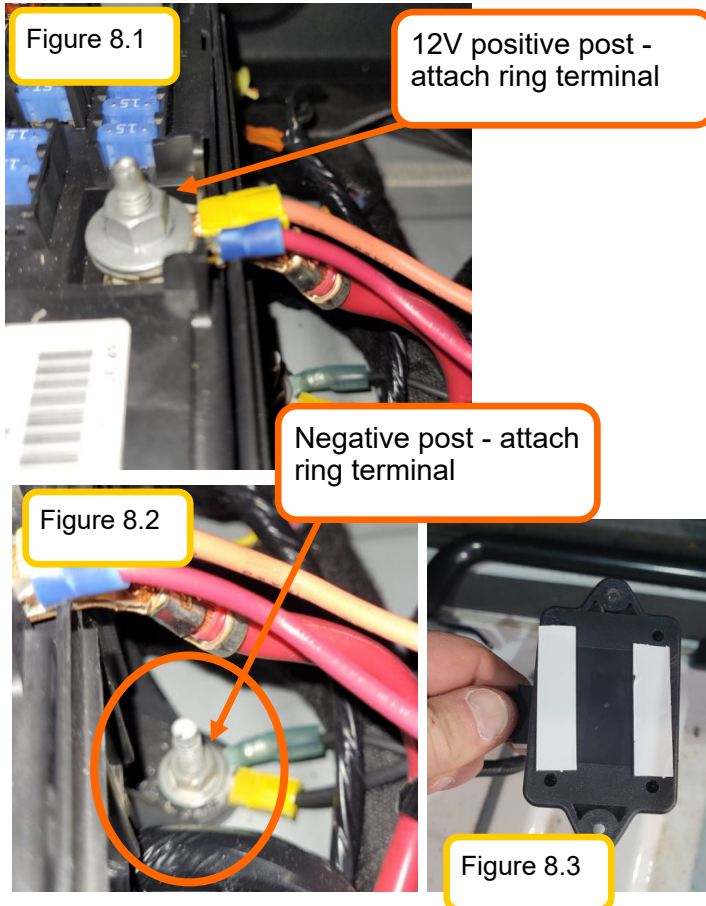
Disconnect the OEM cargo lights from the OEM harnesses by unclipping the connectors. See figure 7.1.

Do this for all the cargo roof lights.

Remove all the interior lights from the roof bows. Figure 7.2.

Unclip all the OW roof bow harnesses from the roof bow, and reposition them back into the OEM harness bundle in the roof channel.

Be sure to keep the first roof bow harness handy for the install on page 9. You can locate this harness end next to the first roof bow split. See figure 7.3 for location.



Step 1: Locate the TLM harness #76654

Plug the harness connector into the timer / low voltage module port

Step 2: Locate the power harness 71903 and plug that into the TLM harness.

Locate the fuse box under the driver's seat.

Attach the positive (red) wire to the 12V positive post. Secure with the OEM nut. See Figure 8.1.

Attach the ground ring terminal (black) to the negative post on the bottom of the fuse block. Secure with the OEM nut. See Figure 8.2.

Step 3: ***Please be sure to set all the dip switches on the TLM UP***

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.

Apply the VHB tape the back of the TLM (timer / low voltage module). See figure 8.3.

Stick the TLM to the back of the seat base and secure with a zip tie. See figure 8.4.

Plug the switch harnesses (65788 & 65790) into the TLM harness. See pages 2 & 3 for reference.

DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	Minutes	DIP 6
Voltage Sense	Timer	Up	Up	Down	30	ON (Down) Steady Ground Input
ON (Down)	ON (Down)	Up	Down	Up	45	
OFF (Up)	OFF (Up)	Up	Down	Down	60	
		Down	Up	Up	90	
		Down	Up	Down	120	
		Down	Down	Up	150	OFF (Up) Momentary Ground Input

TLM Dip Switch Settings

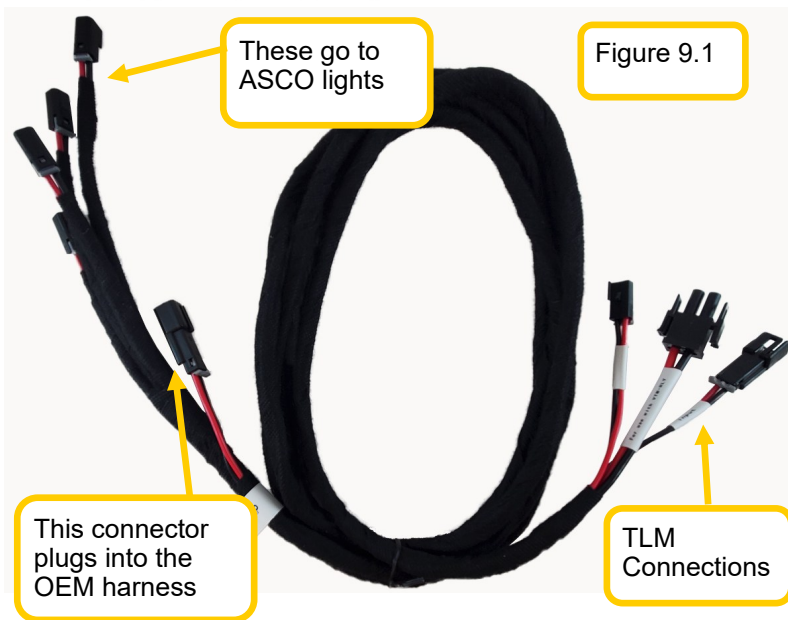


Figure 9.1

Step 4:

Locate the OEM first roof bow harness end that you saved for this part of the install.

Plug the vehicle specific power harness (65792) into the OEM connector:
Figure 9.1 and 9.2.

Route the power harness down the partition to the TLM module, and plug it in. Be sure to use the black colored TLM input connector referenced on page 4. The white connector will NOT be used for this install.



Figure 9.2

Step 5:

Connect the roof bow harnesses (63481 Or/And 63842, 63483, 63484 all that are applicable) to the power harness (ends located in the OEM harness channel) and route them to their desired light locations. (Light locations on the roof bows).
Figure 9.3.

Use zip ties/fir trees to secure all wiring. See figures 9.4 and 9.5.



Figure 9.3



Figure 9.4



Figure 9.5



Figure 10.1

Step 6:

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.

Dome lights are to be placed as close to the center of the roof bow as possible. Figure 10.1 and 10.2.

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.

Strip lights are to be placed centered between the channel/valley of the bow. You will see that these lights fit almost perfectly in the channel. Figure 10.3

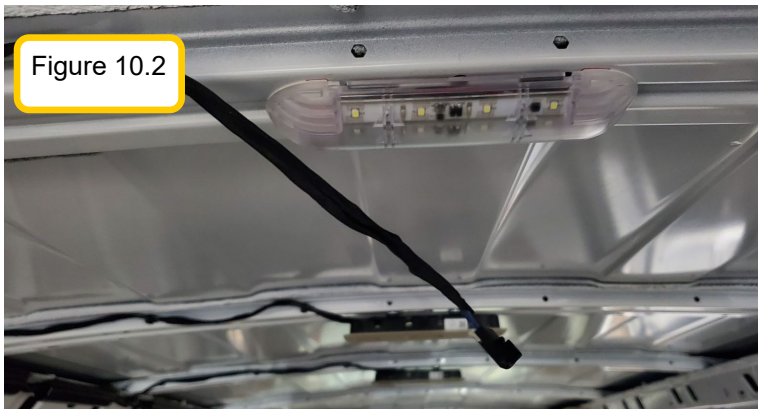


Figure 10.2



Figure 10.3

Figure 11.1



Partition Switch

Locations:

Switch hole in steel partition behind the passenger's seat (figure 11.1) or drill out switch hole in composite partition (figure 11.2).

This location will require harness #65788

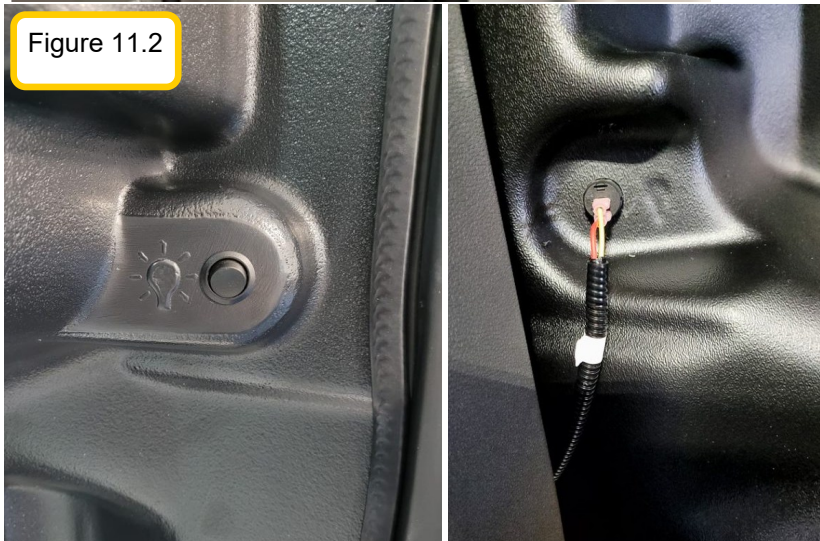
Rear Switch Location:

Passenger side rear D-pillar.

Drill out the horizontal slit in the D-pillar, to fit the switch.

See figure 11.3 below for reference.

Figure 11.2



This location will require harness #65790

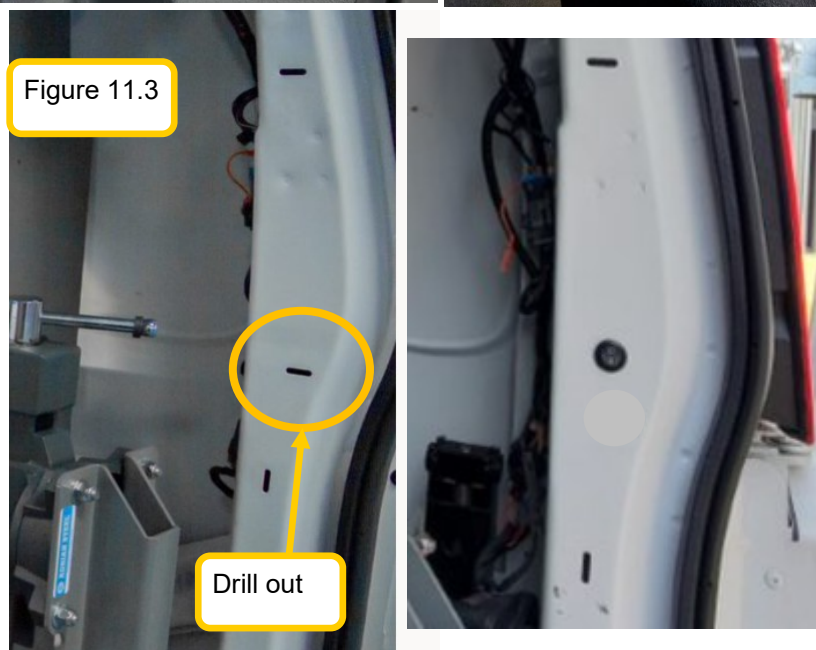
Step 7:

Route the 65788 harness from the TLM harness location (above the drivers seat in the headliner - see routing diagram for reference) to the partition switch location.

Do the same with harness 65790 to the D-pillar switch location.

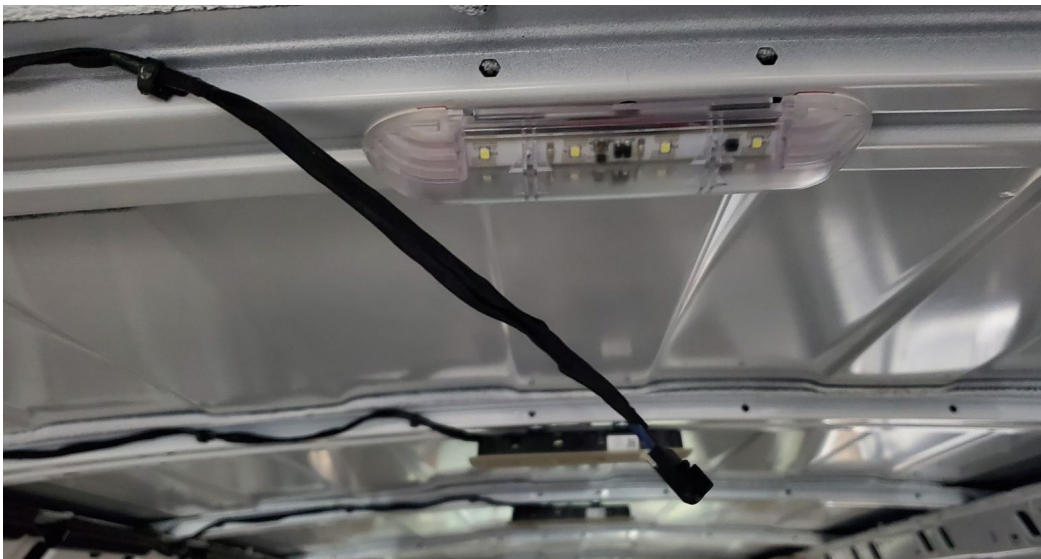
Use Zip ties to secure wiring.

Figure 11.3



Drill needed holes for the switches in rear D pillar 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).



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.

Express basic photos for install



Bolt on top of fuse box provides 12v, and nut holding fuse box down in back provides ground



VTM mounted to underneath and back of driver seat bracket and VTM harness wire tied to bracket



VTM harness routed up street side B pillar



Parts List

- VTM
- VTM relay harness
- CL-ADP
- 5 – P-HARRB1
- 2 – P-HARRB2
- 2 – P-HARRB3



STL-4048902



Install from Transit. The P-HARRB3 will come down on the left side of bin vs right in picture



This is from a Transit but the concept is still the same. Only there are 3 shelves instead of 4, so 2 lights used instead of 3

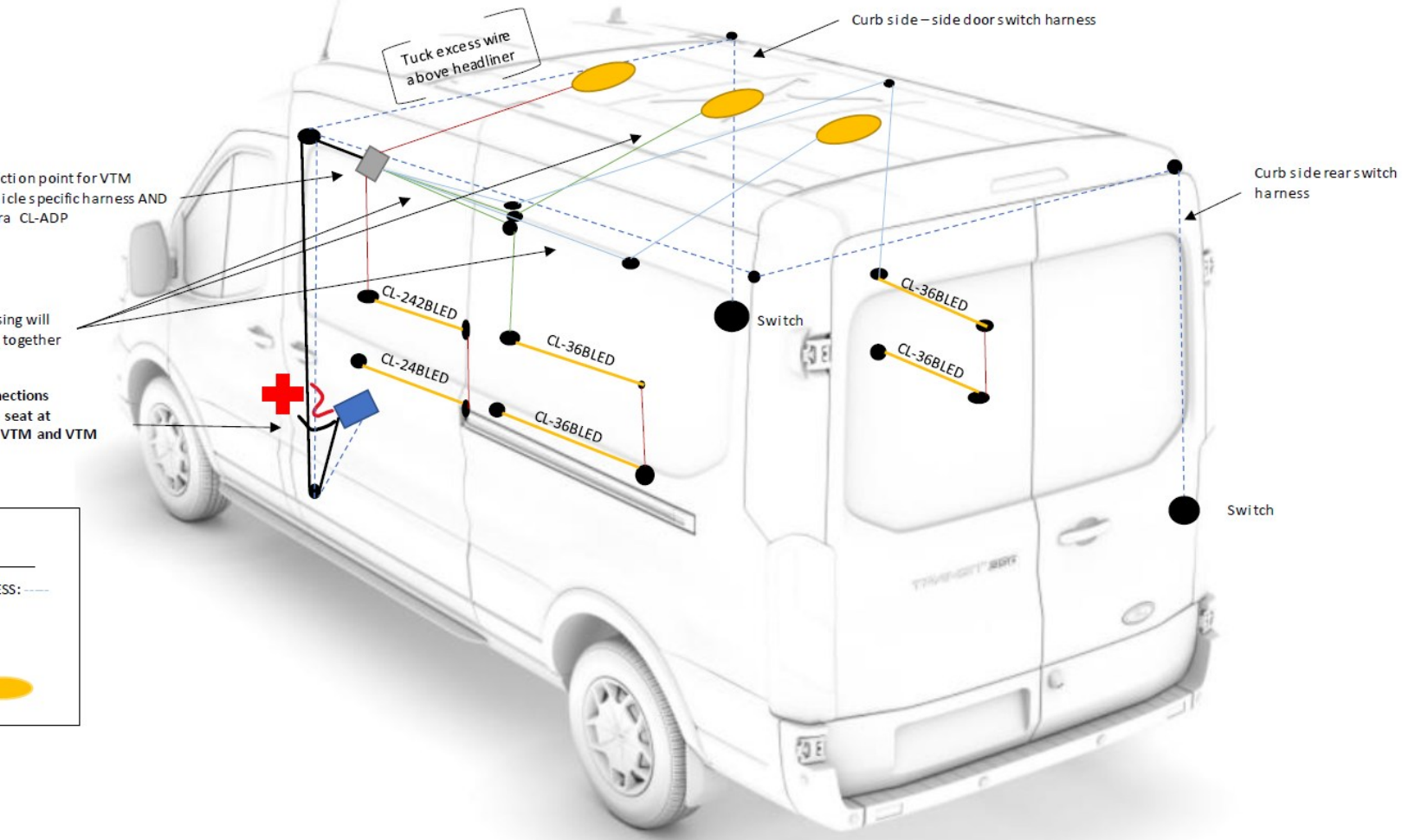


CL-ADP to be added onto Vehicle Specific Harness



Excess rear switch harness to be tucked in cavity in pillar above rear switch

Express 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 quantity
 21093C = 100 quantity

SPECIAL NOTES: PART NUMBER IS BLACK.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

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



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

DRAWN BY
MDG

DATE DRAWN
10/26/2006

ECN NUMBER
18021

ECN DATE
11/13/2015

PART WEIGHT
0.01 LBS.

REV. LEVEL
D

PART NUMBER
13905-0

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 158

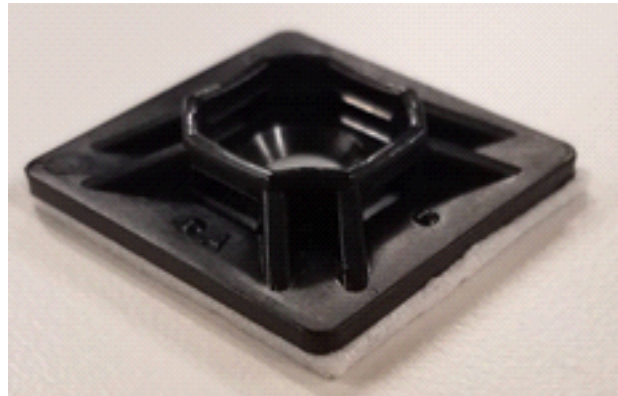
Temp. F:

Max. Operating 70

Temp. C:

Min. Installation 65

Temp. F:



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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: 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 REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)

YES

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Sheet 1 of 1

PART / PRODUCT IDENTIFICATION



ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL

B

MAT'L USED:

DESIGNED BY: **RJB**

DESCRIPTION:

Adhesive wire tie base

WEIGHT
(Lbs.):

0.05

SEGMENT
CODE: **HDW**

PART NUMBER: **49401**

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

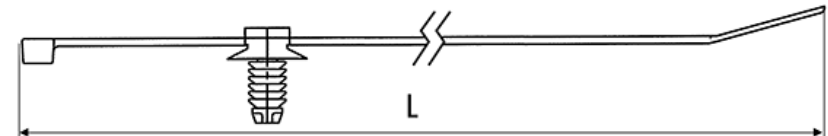
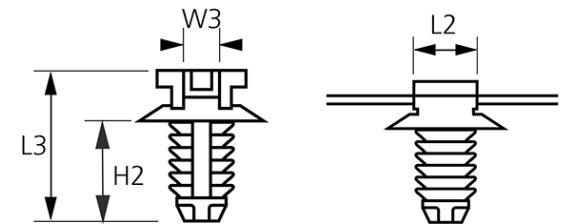
OTHER REQUIREMENTS

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



P-HARRB2

(5x)



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REFERENCE DIMENSIONS (X.XXX)
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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 REFERENCE)
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Sheet 1 of 1

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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

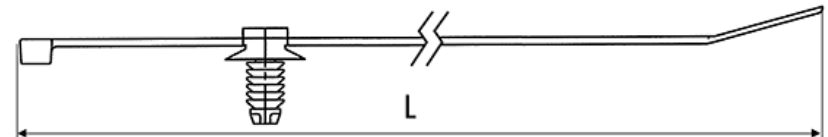
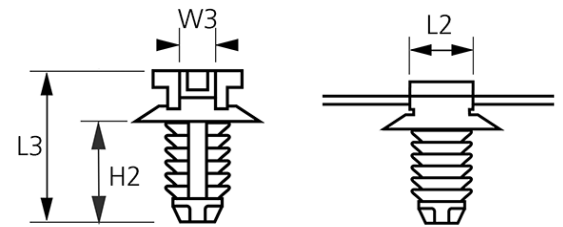
OTHER REQUIREMENTS

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



P-HARRB3

(5x)



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Material Thickness: per ASTM Std.
Weld Callouts per AWS

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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 REFERENCE)
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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															
Note: Connector / Terminal Configuration: • MALE 2 PIN ON ONE END • FEMALE 2 PIN ON THE OPPOSITE END. BOM: <table><tr><th>Item</th><th>Qty.</th><th>Description</th></tr><tr><td>1</td><td>1</td><td>36" WHITE LED STRIP LIGHT W/ADHESIVE</td></tr><tr><td>2</td><td>2</td><td>4" ZIP TIE</td></tr><tr><td>3</td><td>2</td><td>CABLE TIE MOUNT</td></tr><tr><td>4</td><td>1</td><td>ALCOHOL PAD</td></tr></table>	Item	Qty.	Description	1	1	36" WHITE LED STRIP LIGHT W/ADHESIVE	2	2	4" ZIP TIE	3	2	CABLE TIE MOUNT	4	1	ALCOHOL PAD
Item	Qty.	Description													
1	1	36" WHITE LED STRIP LIGHT W/ADHESIVE													
2	2	4" ZIP TIE													
3	2	CABLE TIE MOUNT													
4	1	ALCOHOL PAD													



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TOLERANCES & INSPECTION

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REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		
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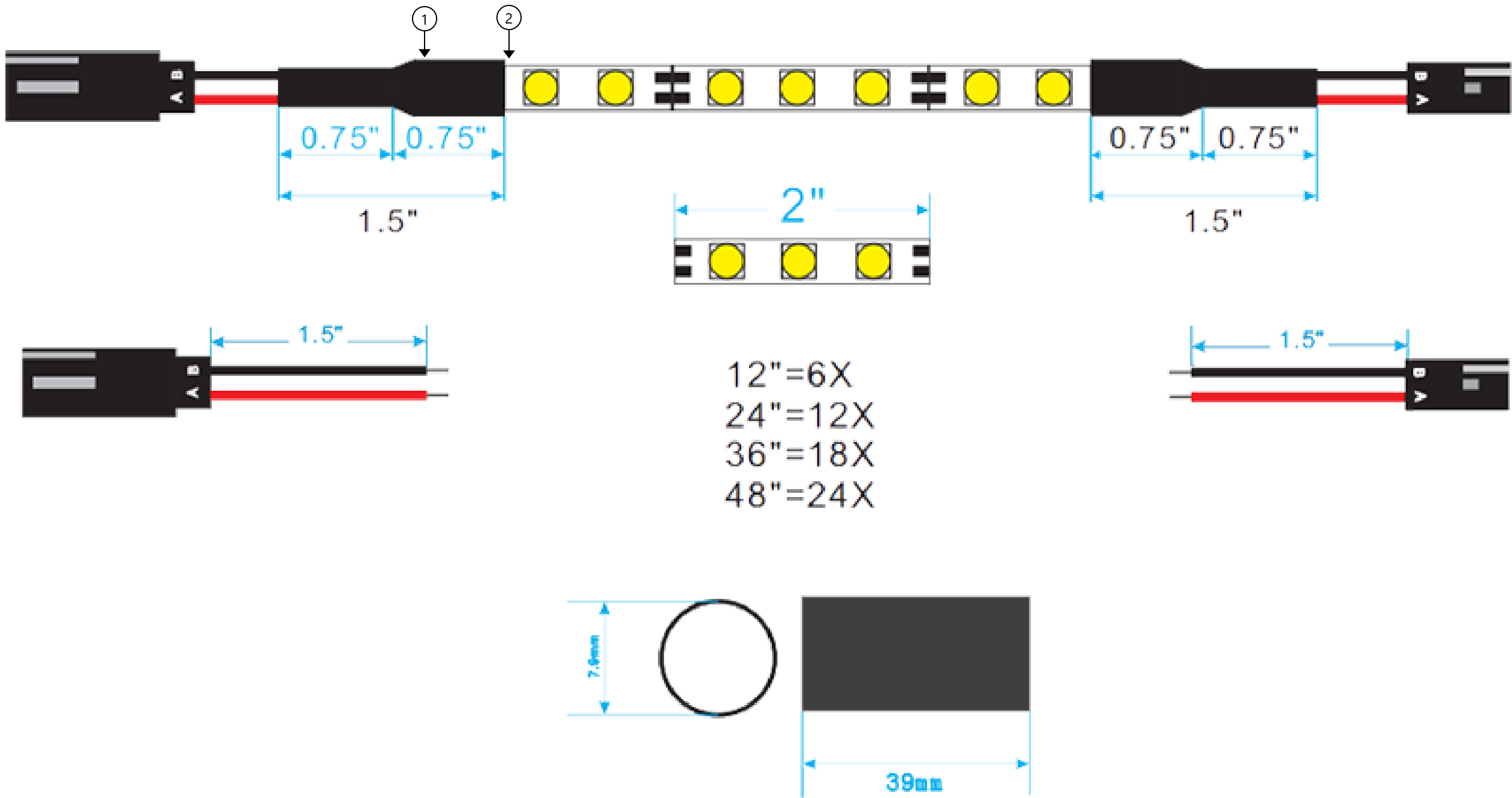
RELEASE & REVISIONS

INITIAL ECN:	24697
CURRENT ECN:	25778
ECN DESCRIPTION:	
Revise Modular Lights With New 3M Adhesive	
REVISED BY: JLT	

PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
CL-36BLED rev.B
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.)
YES

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PART / PRODUCT IDENTIFICATION			
	ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221
	DESIGNED BY: J. TYNER		REVISION LEVEL B
MAT'L USED:		DESCRIPTION: MODULE DOME LED STRIP 36"	
WEIGHT (Lbs.):	0.3	SEGMENT CODE: EAU	PART NUMBER: 65347

Notes	
①	3:1 Adhesive Heat Shrink to be placed over LED Solder Joints
②	5925 Adhesive Liner Edges to be exposed next to heat shrink



Revisions			
Rev.	Date	Author	Description
A	11/1/21	Bennet Fisher	Initial Drawing
B	7/27/2022	Bennet Fisher	Adhesive changed to VHB 5925

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	Designed By	Bennet Fisher	11/1/21		
	Engineering Approval				
	Manufacturing Approval				
	Revision Approval			Part Number: CL-36BLED	
	Quality Assurance			Description: 36" LED Strip	
				Revision: B	
				Sheet: 1	

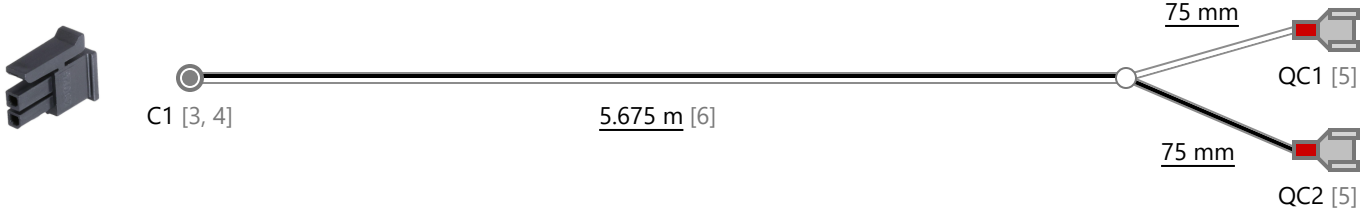
PURCHASED COMPONENT KEY FEATURES	
DESCRIPTION OF REQUIREMENTS	
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)	
N/A	
LOAD/RATING REQUIREMENT	
N/A	
MATERIAL REQUIREMENT	
N/A	
PACKAGING REQUIREMENT	
N/A	
OTHER REQUIREMENTS	



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TOLERANCES & INSPECTION		PART / PRODUCT IDENTIFICATION		
UNLESS OTHERWISE SPECIFIED		AS ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221
ALL BEND ANGLES ARE 90 DEGREES				
ALL DIMENSIONS ARE IN INCHES.		REVISION LEVEL		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		A		
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031		MAT'L USED: PURCHASED	DESIGNED BY: E.BURKE	
HOLES/SLOTS 0.0 = ± .062 0.00 = ± .031 0.000 = ± .015		DESCRIPTION: SWITCH 2 HARNESS FOR VTM		
ANGLES 0° = ± 2° 0.0° = ± 1°		WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 65788
Material Thickness: per ASTM Std. Weld Callouts per AWS				
RELEASE & REVISIONS		PURCHASED COMPONENT		
INITIAL ECN: 25377		REFERENCED SUPPLIER AND/OR MANUFACTURER AAMP GLOBAL		
CURRENT ECN: 25377		REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER VTM-SW2 OR 65788		
ECN DESCRIPTION: RELEASE FOR PRODUCTION		COLOR (ONLY LIST IF COLOR SPECIFIC) NO		
REVISED BY:		COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)		

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

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	Designed By	Bennet Fisher	6/10/2021			
	Engineering Approval					
	Manufacturing Approval					
	Revision Approval			Part Number: VTM-SW2		Revision: 1
	Quality Assurance			Description: 5.675 Meter Switch Harness		Sheet: ----

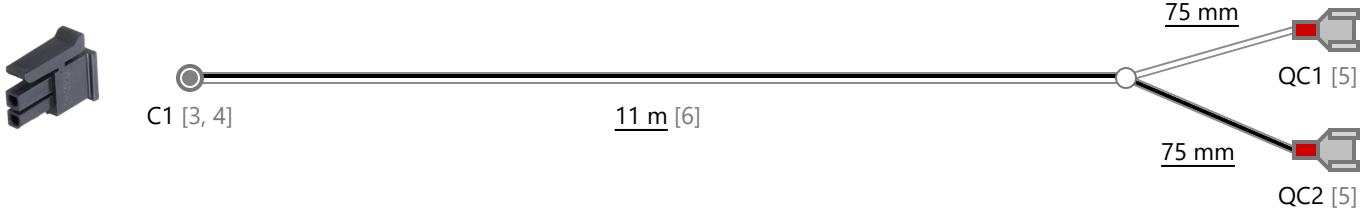
PURCHASED COMPONENT KEY FEATURES	
DESCRIPTION OF REQUIREMENTS	
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)	
N/A	
LOAD/RATING REQUIREMENT	
N/A	
MATERIAL REQUIREMENT	
N/A	
PACKAGING REQUIREMENT	
N/A	
OTHER REQUIREMENTS	



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TOLERANCES & INSPECTION		PART / PRODUCT IDENTIFICATION		
UNLESS OTHERWISE SPECIFIED		AS ADRIAN STEEL® ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		REVISION LEVEL
ALL BEND ANGLES ARE 90 DEGREES				A
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		PURCHASED COMPONENT		
INITIAL ECN: 25377		REFERENCE SUPPLIER AND/OR MANUFACTURER AAMP GLOBAL		
CURRENT ECN: 25377		REFERENCE SUPPLIER AND/OR MANUFACTURER PART NUMBER VTM-SW4 OR 65790		
ECN DESCRIPTION:		COLOR (ONLY LIST IF COLOR SPECIFIC)		
RELEASE FOR PRODUCTION		COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)		
REVISED BY:		NO		
		MAT'L USED: PURCHASED		DESIGNED BY: E.BURKE
		DESCRIPTION: SWITCH 4 HARNESS FOR VTM		
		WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 65790

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

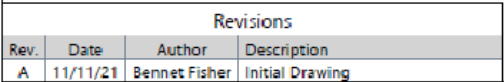
From	To	Color	Gauge
QC2	C1.2		20 AWG



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

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	Designed By	Bennet Fisher	6/10/2021			
	Engineering Approval					
	Manufacturing Approval					
	Revision Approval			Part Number: VTM-SW4		Revision: 1
	Quality Assurance			Description: 11 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	



TOLERANCES & INSPECTION		
<i>UNLESS OTHERWISE SPECIFIED</i>		
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		

PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER VTM-EXP OR 65792
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

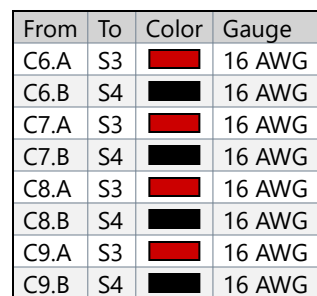
PRINTED DOCUMENT IS UNCONTROLLED		Sheet 1 of 1
PART / PRODUCT IDENTIFICATION		
 ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221
REVISION LEVEL		A
MAT'L USED: PURCHASED	DESIGNED BY: E.BURKE	
DESCRIPTION: HARN, POWER VTM EX		
WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 65792

Coverings	
Id	Assembly
[18]	

Notes	
	Tape stops 75mm behind connectors

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
C2.A	C3.A		18 AWG
C2.B	C3.B		18 AWG

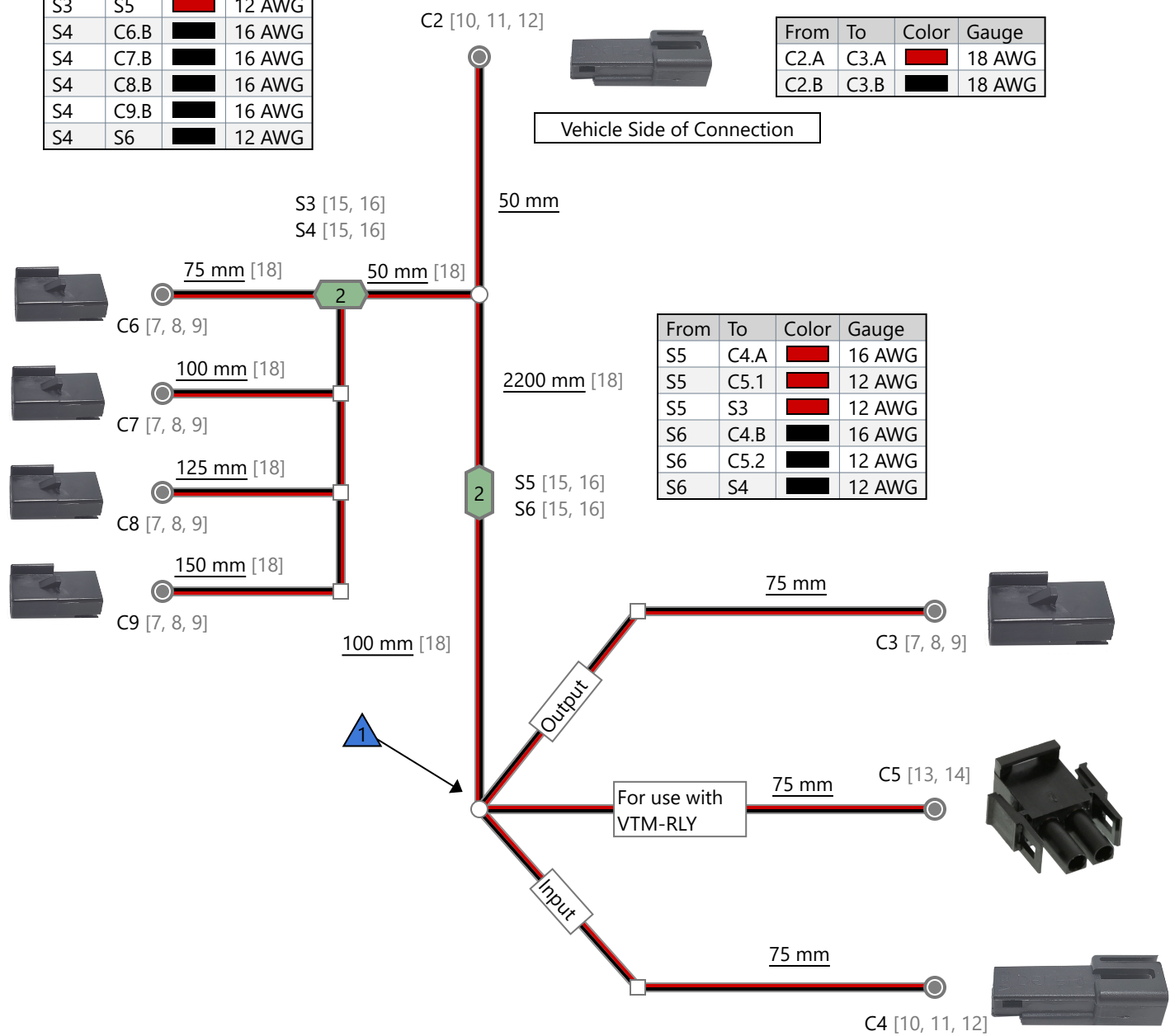


From	To	Color	Gauge
S5	C4.A		16 AWG
S5	C5.1		12 AWG
S5	S3		12 AWG
S6	C4.B		16 AWG
S6	C5.2		12 AWG
S6	S4		12 AWG

From	To	Color	Gauge
C3.A	C2.A		18 AWG
C3.B	C2.B		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



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	Designed By	Bennet Fisher	11/11/2021		
	Engineering Approval				
	Manufacturing Approval			Part Number: VTM-EXP	Revision: A
	Revision Approval			Description: 2020-2022 Chevrolet Express - Timer Module Harness	Sheet:
	Quality Assurance				

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 POWER HARNESS FOR TOPPER SILVERADO AND RAM KITS
POWER FROM BATTERY TO TLM MODULE



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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: 26830
CURRENT ECN: 26830
ECN DESCRIPTION:
RELEASE FOR MARKET FILL
REVISED BY: FMB

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
71903
COLOR (ONLY LIST IF COLOR SPECIFIC)
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

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Sheet 1 of 1

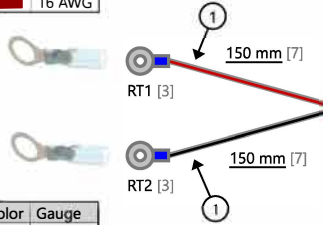
PART / PRODUCT IDENTIFICATION		
 ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221
MAT'L USED: PURCHASED	DESIGNED BY: E.BURKE	REVISION LEVEL A
DESCRIPTION: HARN,POWER TLM BATTERY 4'		
WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 71903

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Wire		16 AWG Red GXL	1220 mm
2	Wire		16 AWG Black GXL	1220 mm
3	Ring Terminal	Molex	19164-0027	2
4	Connector	Molex	46993-0211	1
5	Contact	Molex	39-00-0081	2
6	Splice		ATM Fuse Holder	1
7	Corrugated Tubing		0.25" Nylon Split Wall	1370 mm
8	Fuse	Littelfuse	297010.WXNV	1
9	Cable Tie	Hellerman nTyton	T30LL0M4	5
10	Label		Heat Shrink Style Label	1

Coverings	
Id	Assembly
[7]	

Notes	
①	Lock tape loom behind connector with Tesa 51036
②	Tape knuckle with Tesa 51036
③	Install 10A Mini Fuse

From	To	Color	Gauge
RT1	Fuse_Holder1	Red	16 AWG



From	To	Color	Gauge
RT2	C1.2	Black	16 AWG

From	To	Conductor	Color	Gauge
Fuse_Holder1	C1.1	W2.Red	Red	16 AWG
Fuse_Holder1	RT1	W1.Red	Red	16 AWG

From	To	Color	Gauge	From Contact PN
C1.1	Fuse_Holder1	Red	16 AWG	39-00-0081
C1.2	RT2	Black	16 AWG	39-00-0081

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	Designed By	Bennet Fisher	10/29/2023		
	Engineering Approval				
	Manufacturing Approval				
	Revision Approval				Part Number: 71903-A
	Quality Assurance			Description: HARN, PWR TLM BATTERY 4'	Sheet: 1

Revisions			
Rev.	Date	Author	Description
A	10/29/2023	Bennet Fisher	Initial Drawing

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 REV A - FOR INTERIOR PLUG AND PLAY LIGHTING	



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TOLERANCES & INSPECTION			PART / PRODUCT IDENTIFICATION					
UNLESS OTHERWISE SPECIFIED			AS ADRIAN STEEL® ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221				REVISION LEVEL	
ALL BEND ANGLES ARE 90 DEGREES							A	
ALL DIMENSIONS ARE IN INCHES.			MAT'L USED: PURCHASED		DESIGNED BY: E.BURKE			
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION			DESCRIPTION: TIMER LIGHT MODULE REV A					
FEATURES			WEIGHT (Lbs.): 0.2		SEGMENT CODE: ELE			
HOLES/SLOTS			PART NUMBER: 76654					
ANGLES								
0.0 = ± .125								
0.00 = ± .062								
0.000 = ± .031								
0.0 = ± .062								
0.00 = ± .031								
0.0° = ± 2°								
0.0° = ± 1°								
Material Thickness: per ASTM Std. Weld Callouts per AWS								
RELEASE & REVISIONS			PURCHASED COMPONENT					
INITIAL ECN: 27974			REFERENCED SUPPLIER AND/OR MANUFACTURER					
CURRENT ECN: 27974			AAMP					
ECN DESCRIPTION:			REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER					
RELEASE TO PRODUCTION			71902 REV A					
			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.)					
REVISED BY: EMB			NO					