KIT, TAILGATE CHMSL

CATALOG NUMBER **81247**

PRODUCT APPLICATION

PRODUCT FEATURES

Lighting kit designed for 6 FT Topsider toolboxes

Kit includes two 4 FT light strips and the accompanying harnesses, plunger switches, and modules.

This kit is compatible with Ford F-150 & SD, Silverado 1500 & 2500, and RAM 1500 and 2500.

This kit is validated for model year 2026.

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Introduction / Comments:

Install Instructions for Open Bed Solution Electrical Accessories

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.

Install Instructions 81693
For Open Bed Solution Electrical Accessory Kits
81244, 81245, 81246, & 81247

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Tools Required

- 8mm, 10mm, 11mm, and 13mm sockets
- T20 Torx Bit
- Torque Wrench
- Panel Pry Tool
- Deburring Tool
- 1" step bit
- 3/8” drill bit
- Fish Tape
- Power Drill
- Impact Driver
- **1-1/16" Greenlee hole punch 730BB-1-1/16**

Parts Included

80379	TOPSIDER POWER HARNESS
80994	TOPSIDER CAB HARNESS
80995 *	TOPSIDER BOX HARN FULL
80996 *	TOPSIDER BOX HARN LIGHTS
80721	VSS-TVMH90 TOPSIDER
80883	TOPSIDER PLUNGER SWITCH
BAGTMLHK *	BAG FOR TELH KITS
36096-0 *	GROMMET,RUBBER,1"ID
74340 *	ALLEGIS T-HANDLE E-LATCH
74341 *	E-LATCH OEM RELAY HARNESS
74349 *	E-LOCK TPPR SIDE DOR HARN
74533 *	DUAL SPDT RELAY MODULE
81171 *	4FT LIGHT STRIP W/ SS CON
81172 *	6FT LIGHT STRIP W/ SS CON
26618-0 *	SILICONE, 1 OZ TUBE

Dependent on Kit - *

80379

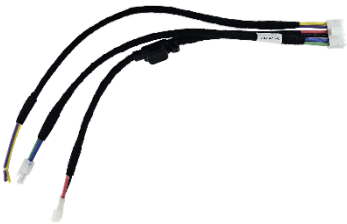
80995

80994

80996

74533

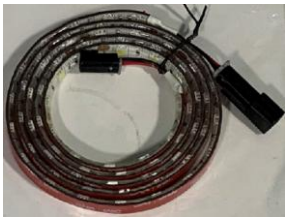
74349


74341

74340

80883

36096-0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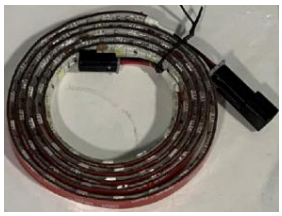
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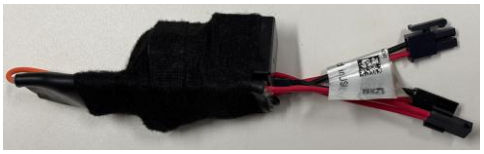
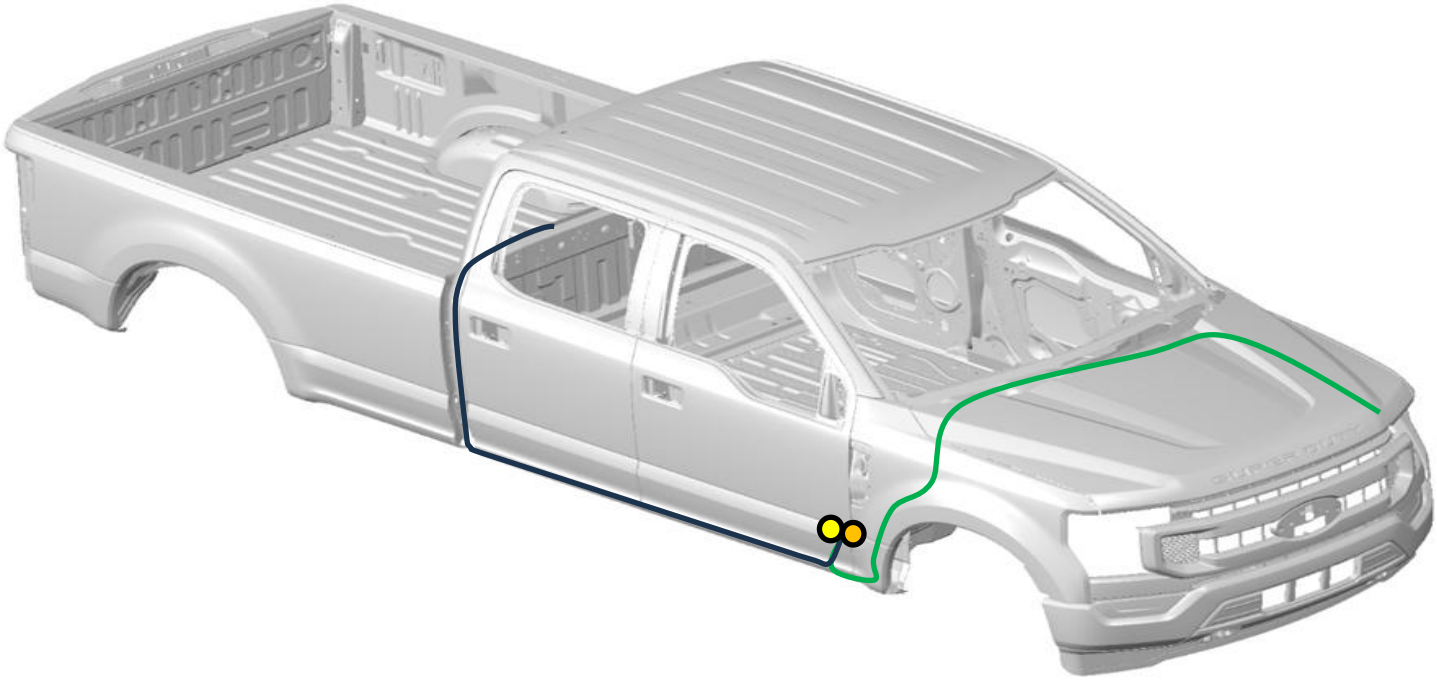
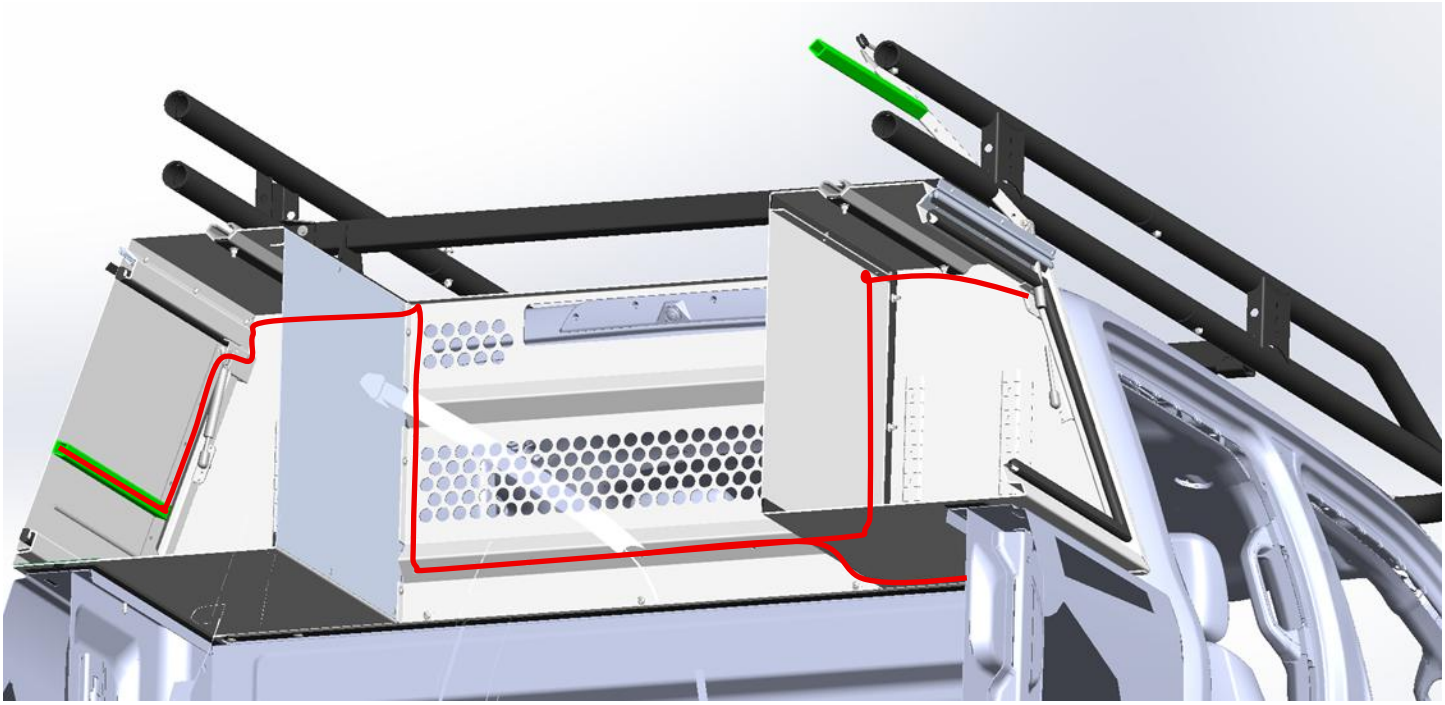
26618-0


80721

BAGTMLHK

Routing Overview





Install Instructions

Step 1:

Grab harness 80379 and remove the fuse from the in-line fuse holder.

Connect the ring terminal near the in-line fuse holder to the OEM battery positive or fuse block positive as applicable.

Connect the negative to the OEM battery negative, or a nearby chassis ground as applicable.

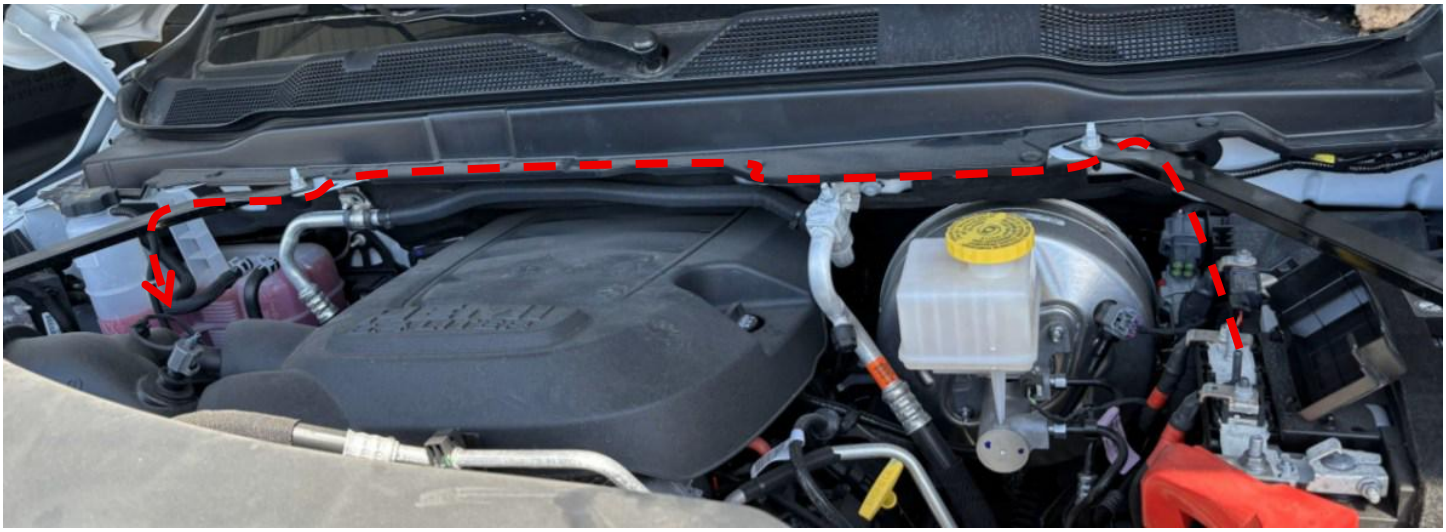
F-150 and F-250

RAM 1500 and 2500

Silverado 1500 and 2500

Step 2:

Route harness 80379 along the engine bay and down between the passenger wheel well and the engine bay, securing to nearby OEM harnessing whenever possible along the liner below the front windshield.



Step 3:

Route the harness down and around the front passenger-side wheel well so that it emerges under the front passenger footwell floor

Step 4:

Some vehicles will have OEM grommets in the front passenger footwell floor. If that is the case, cut an X in the grommet and feed 80379 up through the grommet.

Step 5:

If the vehicle does not have an OEM grommet in the passenger footwell, drill a 1” hole in a flat section of the floor using a step bit. Ensure the area is clear on both sides of the floor before drilling. Insert the included grommet in its place before proceeding to feed 80379 up through the floor.

Step 6:

Grab harnesses 80994, 80721, and 74341 and 74533 if applicable. Feed the multi-connector end of 80994 up through the grommet in the floor.

Connect the harnesses and modules together as shown.

Once 80379 and 80994 are fed through the grommet seal the excess space with silicone.

Make sure the switch on the E-Lock module (74533) is switched **AWAY from the connector.**

Posi-tap Install instructions:

Remove the gray cap on the Posi-Tap

Push the OEM signal wire into the slot on the gray cap.

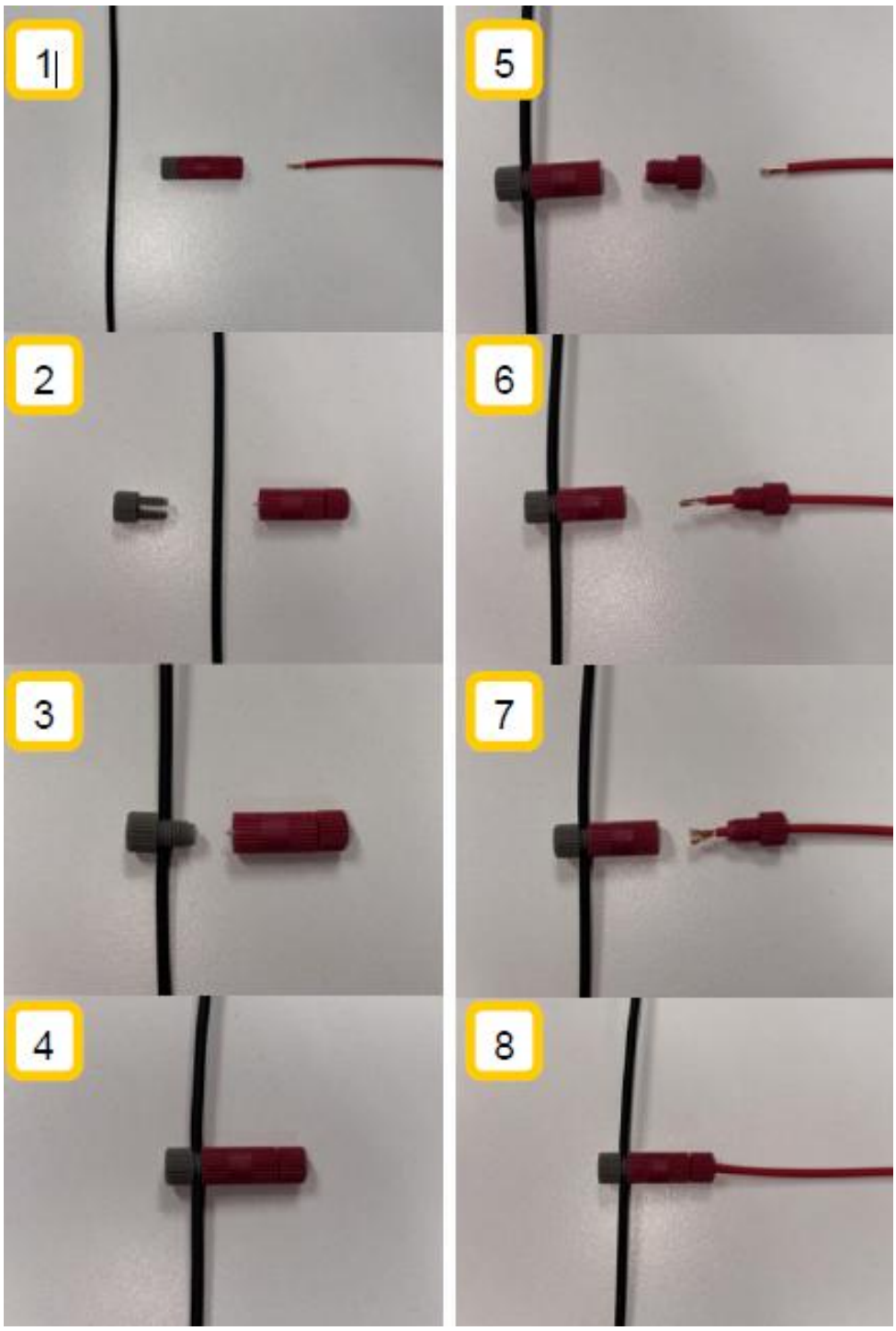
Twist the Posi-Tap onto the gray cap with the OEM wire secured in between the two.

The pin in the Posi-Tap will puncture the OEM wire and obtain the signal.

Remove the red cap on the Posi-Tap and place over the tapping wire with the threads facing towards the end of the wire.

Spread out the copper strands of the tapping wire into a cone-like shape, and insert the strands into the Posi-Tap

Twist the cap back onto the Posi-Tap with the tapping wire secured. Be sure of secure connection.



Platform Specific Posi-Tap Installation Instructions

Ford F-150 & Superduty

1. Ensure the battery negative is disconnected before removing any connectors from the BCM.

2. In the front passenger footwell, remove the kick plate and other trim panels around the BCM under the dash.

3. Locate BCM connector C2280C (J3) and disconnect it from the BCM. (Fig 12.1 & 12.2)

4. CAREFULLY cut away the tape wrapped around the OEM wires. (Fig 12.3)

5. Install the Posi-Taps following the instructions on page 11 using harness 74341 tapping wires. (Fig 12.4)

F150
74341 Yellow -> OEM Yellow / Grey Stripe
74341 Purple -> OEM Gray / Brown Stripe

Superduty (F250+)
74341 Yellow -> OEM Yellow
74341 Purple -> OEM Gray

6. Retape the harness around the Posi-Taps to secure the wires as intended by the OEM and plug the connector back into the BCM.

7. Plug the 74533 Relay Module into the 74341 harness 6-pin connector.

8. Secure the harness and relay module to the OEM harnesses. (Fig 12.5)

NOTE: The photos on this page may not reflect the accurate wire colors. Follow the colors listed above.

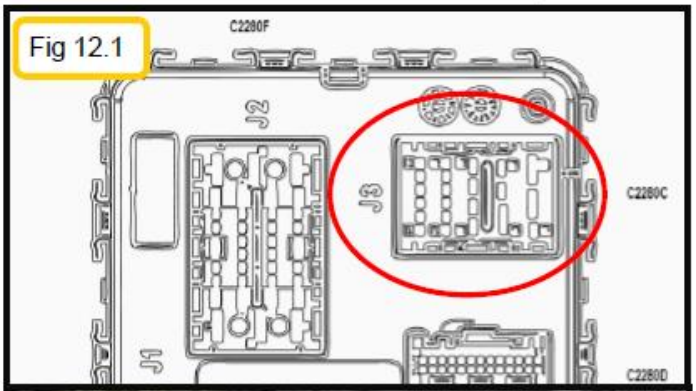


Fig 12.1

Fig 12.2

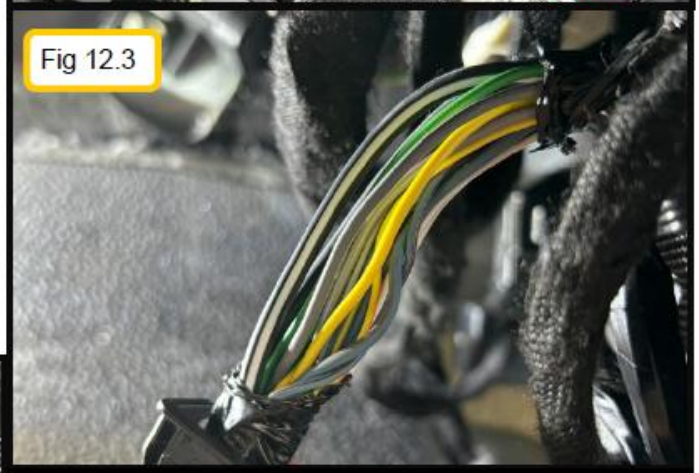


Fig 12.3

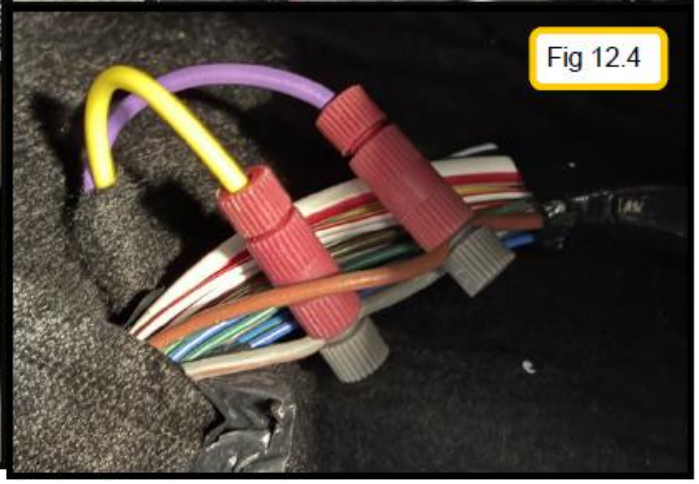


Fig 12.4

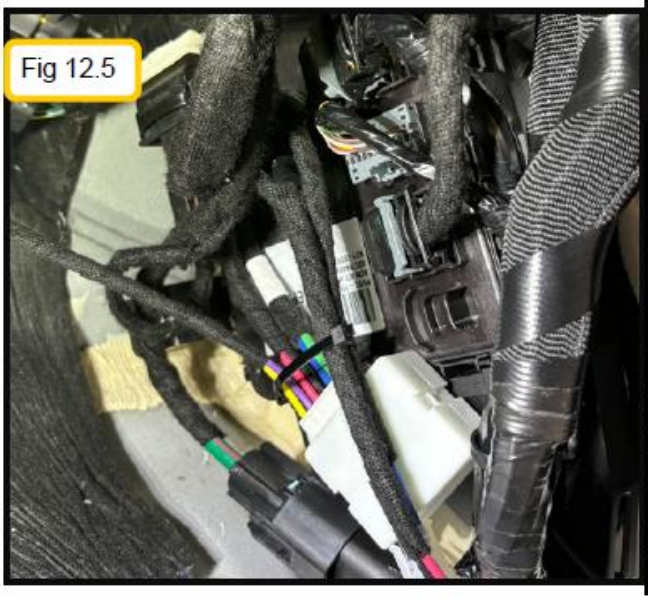


Fig 12.5

Platform Specific Posi-Tap Installation Instructions

RAM 1500 & HD (MY25+)

1. Ensure the battery negative is disconnected before removing any connectors from the BCM.

2. In the front passenger footwell, remove the kick plate and other trim panels under the dash.

3. Locate the OEM harness wrapped in glossy black tape on the side wall of the vehicle. (Fig 16.1)

4. CAREFULLY cut away the tape wrapped around the wires and locate the purple with green stripe wire and the green with gray stripe wire. (Fig 16.2)

5. Install the Posi-Taps following the instructions on page 11 using harness 74341 tapping wires. (Fig 16.3)

RAM
74341 Yellow -> OEM Beige W/ White Stripe
74341 Purple -> OEM Green W/ Violet Stripe

6. Retape the harness around the Posi-Taps to secure the wires as intended by the OEM and plug the connector back into the BCM.

7. Plug the 74533 Relay Module into the 74341 harness 6-pin connector.

8. Secure the harness and relay module to the OEM harnesses.

NOTE: The photos on this page may not reflect the accurate wire colors. Follow the colors listed above.

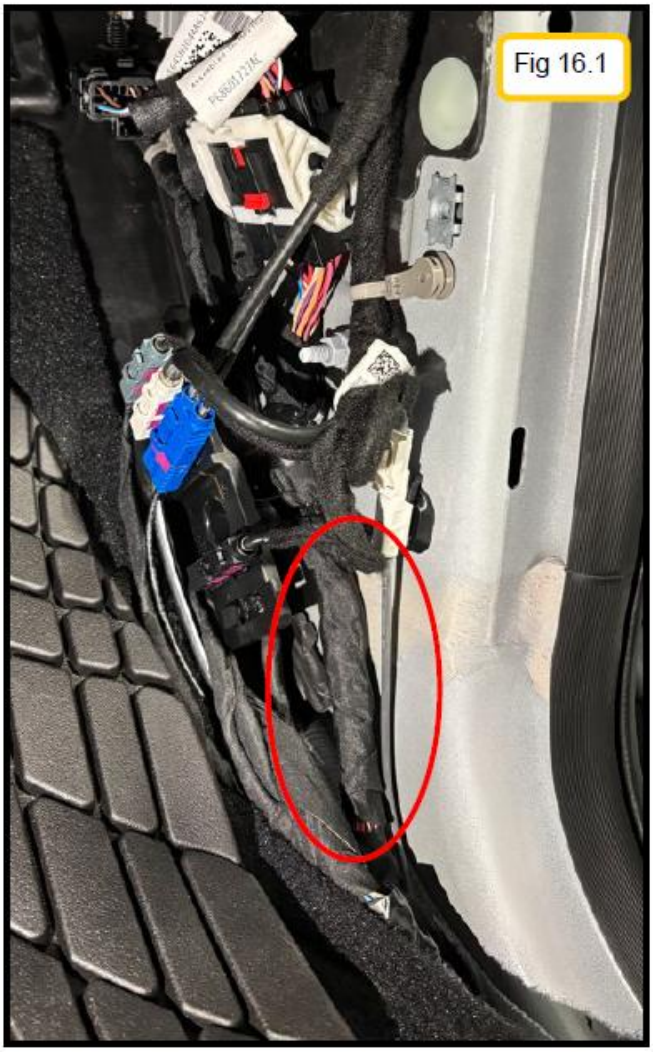


Fig 16.1

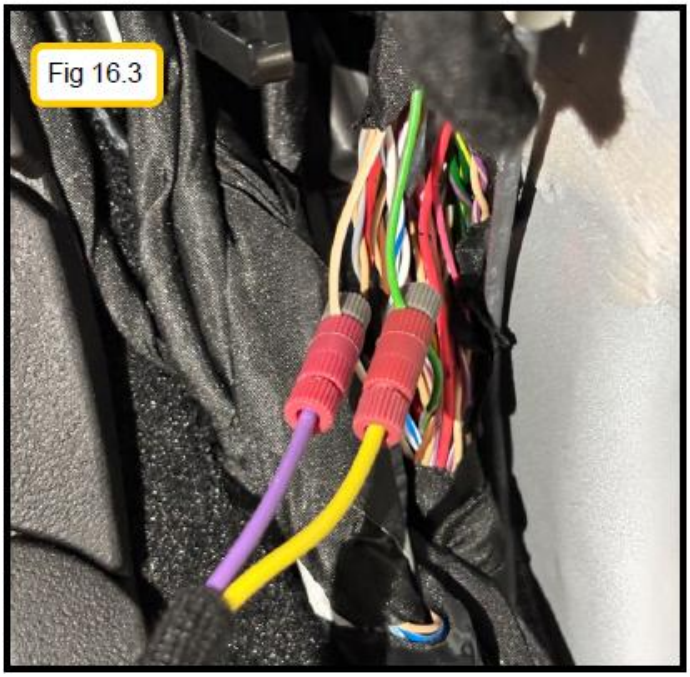


Fig 16.3

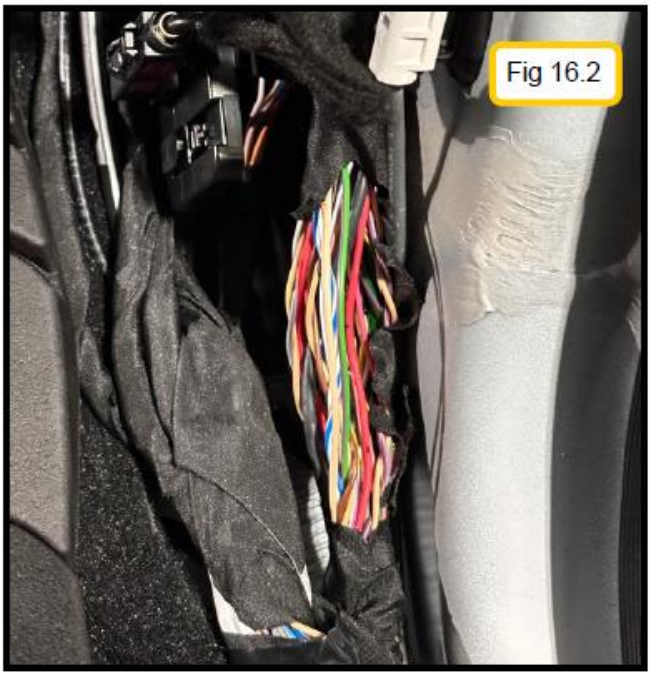


Fig 16.2

Platform Specific Posi-Tap Installation Instructions

Chevy Silverado ICE and Hybrid 1500-3500

1. Ensure the battery negative is disconnected before removing any connectors from the BCM.

2. Silverado is different from all other platforms. The BCM is located behind the driver's side knee bolster. From underneath, there are two rows of colorful connectors. The one closest to driver's side wall of the vehicle is the BCM.

3. Disconnect connectors x8 (grey), and x6 (tan) by pulling the small tab down, and pressing the release in. (fig 18.1 & 18.2)

4. Install the Posi-Taps following the instructions on page 11 using harness 74341 tapping wires. (Fig 18.3)

Silverado
74341 Yellow -> OEM X6 Gray / Black Stripe
74341 Purple -> OEM X8 Yellow / Green Stripe

6. Plug the connectors back into the BCM.

7. Plug the 74533 Relay Module into the 74341 harness 6-pin connector.

8. Secure the harness and relay module to the OEM harnesses.

NOTE: The photos on this page may not reflect the accurate wire colors. Follow the colors listed above.

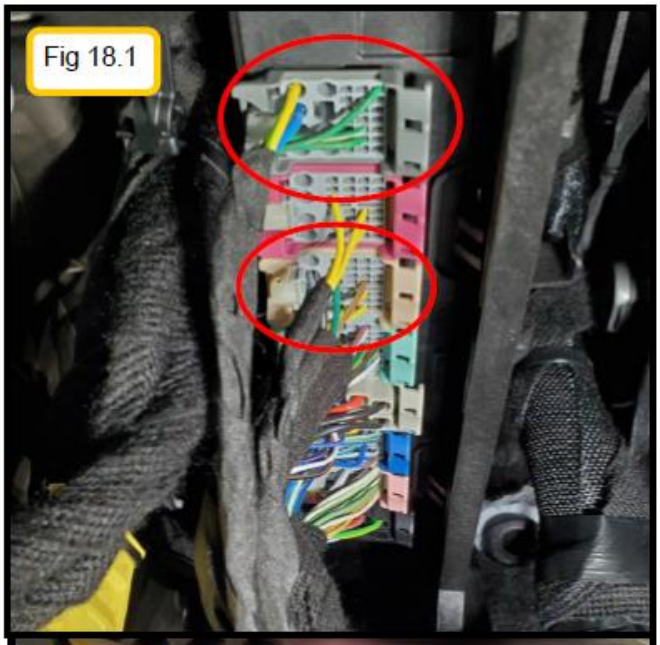


Fig 18.1

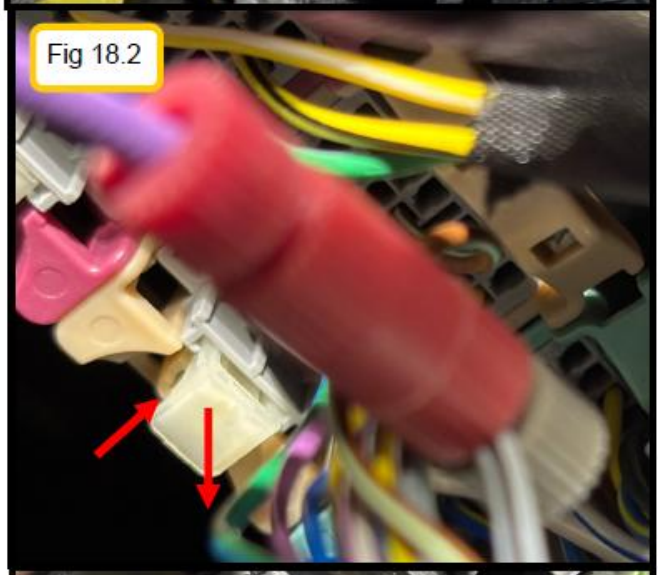


Fig 18.2

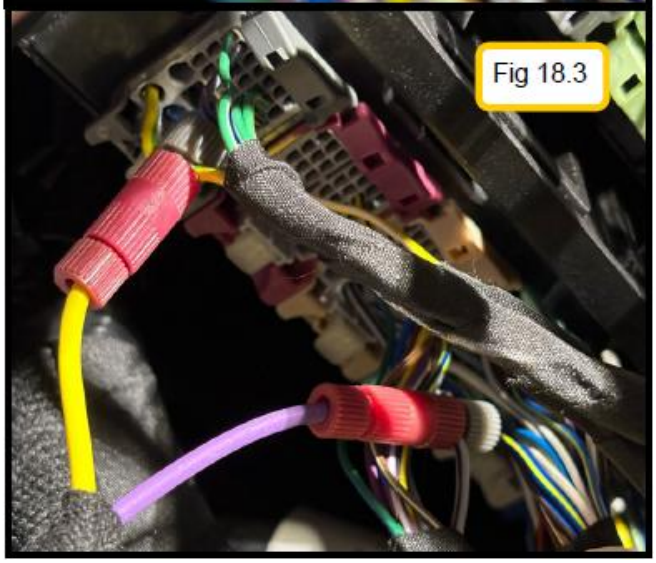
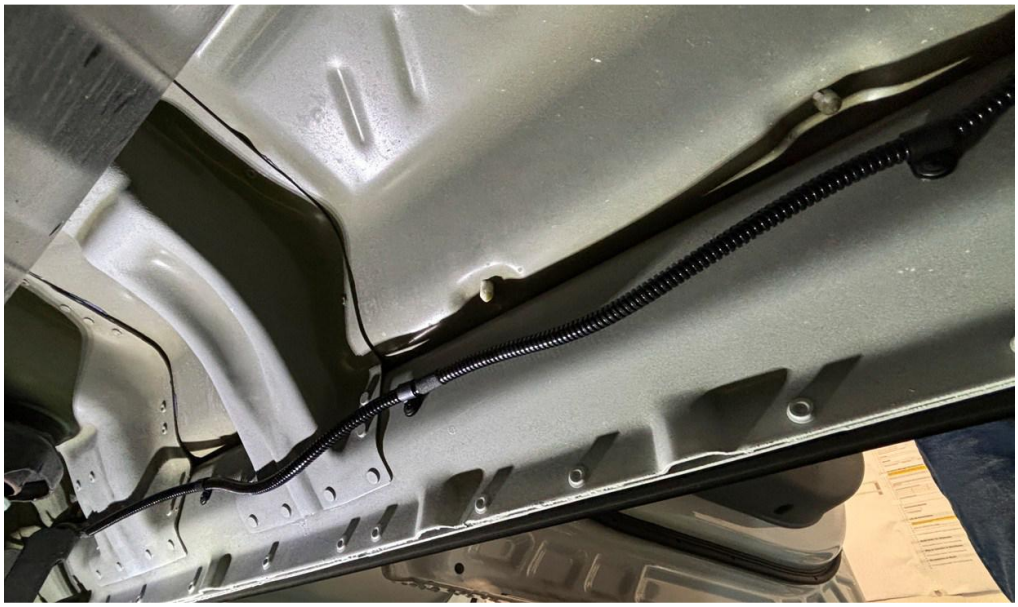


Fig 18.3

Step 7:

Route 80994 back under the vehicle to the gap between the cab and the bed. Wait to secure the harness until you ensure you have enough length to connect to the toolbox harness, 80995 or 80996 depending on the kit.



Step 8:

Move to the toolboxes. On the back panel of the toolbox next to the cab guard will be a small X divot. Drill a 3/8” hole in the center of that X. Insert the bolt of the **1-1/6” Greenlee hole punch** through the hole and screw the wedge of the punch to the inside of the toolbox as shown. Turn the nut on the Greenlee until the metal punch comes free and the hole is made. Repeat on the other toolbox.

NOTE: Use of a properly sized 1-1/16” hole punch, such as the Greenlee called out, is required for proper sealing of the cable gland. Failure to create a clean 1-1/16” hole can result in the cable gland leaking. A step drill bit has been shown to not create a reliable hole.

Step 9:

Grab harness 80995 or 80996 depending on kit. Feed the multi-connector ends through the holes in the toolboxes, one to each side, up to the grommets.

Step 10:

Secure the flange nut on the threads of the grommets.

Step 11:

Snap in the plunger switches 80883 in the slots closest to the cab of the vehicle.

Step 12:

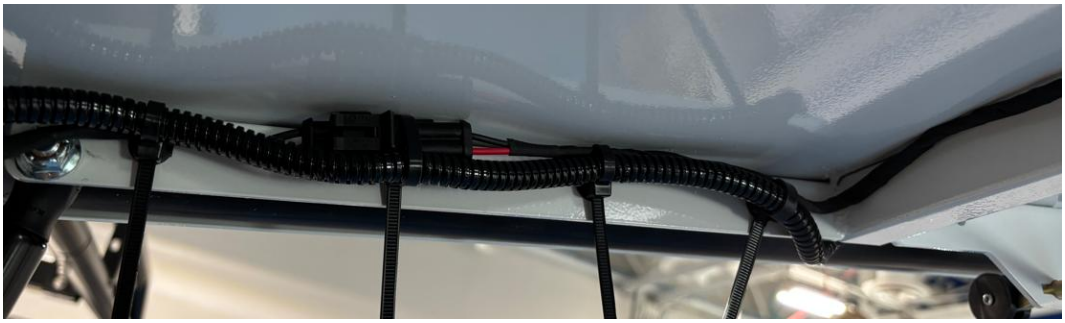
Connect the two quick connect terminals on the toolbox harness to the two blades on the plunger switch.

If your kit came we E-Locks, grab the E-lock side door harness, 74349, and plug it into the connector on the toolbox harness.

Step 13:

Grab a light strip (81171 or 81172) and connect it to the toolbox harness.

Then route both the E-Lock door harness and the light strip harness down the door brace, passing the E-Lock harness into the door tube as shown. Do not tighten the zip ties until the light strip and E-Lock are installed.



Step 14:

Install the light strip on the side of the door tube facing the toolboxes, centering it along the door. Use the provided alcohol pads to clean the surface before adhering the light strip to the door.

Place a small sticky back square zip tie mount at each end of the strips to secure the connector to the topper.

Step 15:

Feed the E-Lock door harness through the door tube and out the closer 5/8” hole in the tube so it comes out next to the E-Lock.

Step 16:

Connect the E-Lock pigtail to the door harness and tuck the harnessing back into the tube. Secure the grommet into the hole and secure the pigtail with the P-clip as shown.

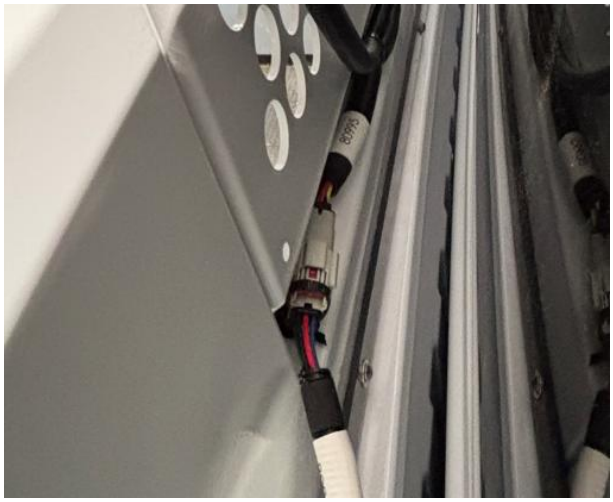
Once both the light strip and the E-Lock are installed, you can then tighten the zip ties along the door brace from step 13.

Step 17:

Pull back and secure any excess harnessing behind the plunger switch using the two zip tie mounting points on the metal flat with the plunger switch.

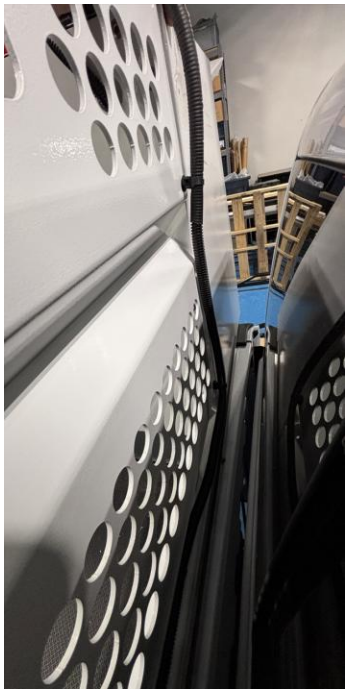
Step 18:

Once both toolboxes are complete, connect the toolbox harness to the cab harness.



Step 19:

Secure the toolbox harness to the cab guard as shown.



Step 20:

Secure the remainder of the cab harness underneath the vehicle. Coil any excess near the rear of the cab as shown. Picture is reference only; this is not the cab harness shown.

Step 21:

At this point all harnesses should be connected, routed, and secured properly.

Insert the fuse back into the inline fuse holder in the power harness (80379).

Proceed to the next page for install testing and troubleshooting

QC Tests and Troubleshooting

QC Step 1:

Test E-Lock functionality by triggering the OEM locks, either with the door switch or the OEM key fob. Ensure both E-Locks are locking and unlocking in unison with the OEM locks.

Troubleshooting:

1. If both E-Locks aren't triggering
    a. Double check the posi-taps are installed properly and on the correct wires.
    b. Check that all connections are tight and that the locks are receiving signals
2. If both E-Locks are triggering opposite the OEM locks
    a. Swap the wires the posi-taps are connected to
3. If one of the E-Locks is not triggering or is triggering opposite
    a. Follow the steps above, if those do not work you may have a faulty lock. RMA the faulty lock.

QC Step 2:

Verify plunger switch is secured in place with proper connections from harness.
Validate functionality of interior lighting using plunger switch to activate lights on/off.

Troubleshooting:

1. If lights are not turning on/off when pushing the plunger switch by hand
    a. Ensure there is a proper connection on the lights and the plunger switch
    b. Make sure plunger is not stuck
    c. Make sure the vehicle has been started after the modules have been installed

THE INSTALL IS NOW
COMPLETE