ADRIAN STEEL
Cargo Management Solutions for Commercial Vehicles

# E-LOCK CREW,PASS,6.75

***CATALOG NUMBER***

# TELH05



| Vehicle Model | Bed Length | Cab Size | Battery Location | Compatible Topper |
|---|---|---|---|---|
| Ford F150 | 6.5 | Crew | Passenger | Hatch / Barn |
| Ford SD | 6.75 | Crew | Passenger | Hatch / Barn |
| Nissan Frontier | 6 | Crew | Passenger | Hatch / Barn |
| Silverado EV | 5.9 (71") | Crew | Passenger | Hatch |

***PRODUCT FEATURES***

**Adrian Cap Electronic Lock Kit for the Hatch Topper vehicles listed above.**

- **This is a complete kit for installing electronic locks on all three Adrian Cap doors**
- **This kit uses Posi-Taps to pull the OEM latch signals — no soldering necessary**
- **This kit can be used in combination with Topper Interior Lighting without interference**

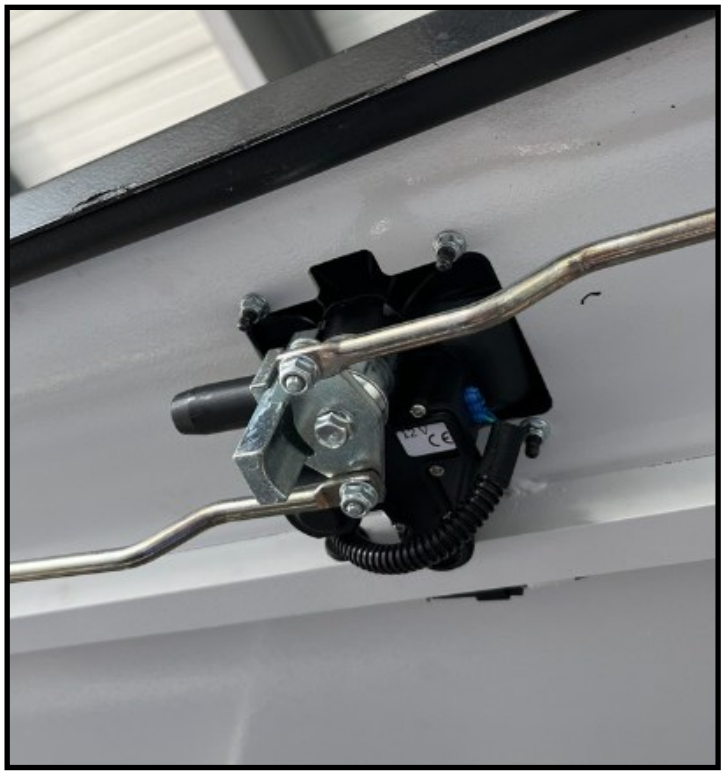

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## Introduction / Comments:

Install Instructions For Adrian Cap Electronic Lock Kits For MY25 Vehicles

### 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.





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# Introduction Statement

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

**Before installation, disconnect the OEM negative battery cable.**

The TELH/B kits are divided by battery location in engine compartment, cab size, and bed length. The harnesses and routing is similar for all vehicles except for the lengths. These instructions are for the most standard configurations, and reference only. Please reference the vehicle being upfit and the spec sheet to confirm you have the correct kit.

These installation instructions are for most cases and for reference. Install instructions depend on the vehicle model and options. Please follow the labels to determine how to route each harness.

Chevy Silverado platforms are mirrored to the rest of the platforms, meaning the battery harness runs from the passenger side of the engine bay to the driver side foot well, the control harness is routed underneath the driver side, and the topper 3-split harness splits in the front driver side corner instead of the passenger side corner.

# Overall Harness Diagram

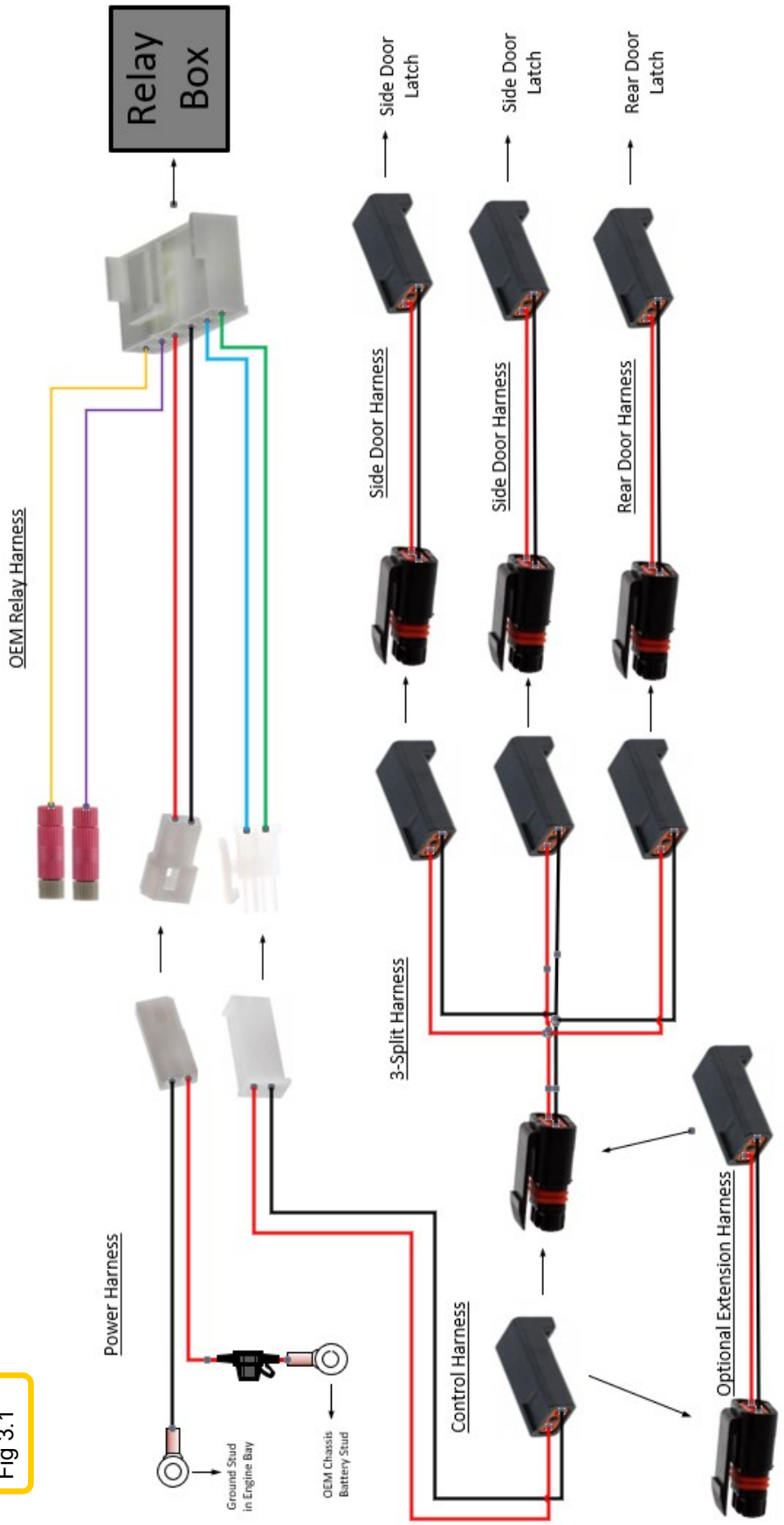



Fig 3.1

# Tools required












- 8mm, 10mm, 11mm, and 13mm sockets
- T20 Torx bit
- Phillips 2 bit
- 1” step drill bit or hole saw
- 5/8” drill bit
- Power Drill
- Impact Driver
- Torque wrench
- Fish tape
- Pick or Small Flat Head Screw Driver
- Deburring tool



*****TORQUE*****

**Torque E-Lock fasteners to 2.2 Nm.**

**DO NOT OVER TIGHTEN**

# Adrian Cap Electronic Lock Kit / Vehicle Chart - Hatch

**NOTE: Silverado ICE and Hybrid is routed mirrored to the rest of the vehicles**

| Kit | Vehicle Model | Bed Length | Cab Size | Battery Location |
|---|---|---|---|---|
| TELH01 | Ford Maverick | 4.5 | Crew | Driver |
| | Ford Ranger | 5 | Crew | Driver |
| | RAM 1500 (MY25+) | 5.6 (67") | Crew | Driver |
| | Silverado 1500 | 5.75 | Crew | Passenger |
| TELH02 | RAM 1500 (MY25+) | 6.3 | Crew | Driver |
| | RAM HD (MY25+) | 6.3 | Crew | Driver |
| | Silverado 1500 | 6.5 | Crew | Passenger |
| | Silverado HD | 6.75 | Crew | Passenger |
| TELH03 | RAM 1500 (MY25+) | 8 | Crew | Driver |
| | RAM HD (MY25+) | 8 | Crew | Driver |
| | Silverado HD | 8 | Crew | Passenger |
| TELH04 | Chevy Colorado | 5 | Crew | Passenger |
| | Ford F150 | 5.5 | Crew | Passenger |
| | Ford Lightning | 5.5 | Crew | Passenger |
| | Nissan Frontier | 5 | Crew | Passenger |
| TELH05 | Ford F150 | 6.5 | Crew | Passenger |
| | Ford SD | 6.75 | Crew | Passenger |
| | Nissan Frontier | 6 | Crew | Passenger |
| | Silverado EV | 5.9 (71") | Crew | Passenger |
| TELH06 | Ford SD | 8 | Crew | Passenger |
| TELH07 | Silverado 1500 | 6.5 | Regular | Passenger |
| TELH08 | RAM HD (MY 25+) | 8 | Regular | Driver |
| | Silverado 1500 | 8 | Regular | Passenger |
| | Silverado HD | 8 | Regular | Passenger |
| TELH09 | Ford F150 | 6.5 | Regular | Passenger |
| TELH10 | Ford F150 | 8 | Regular | Passenger |
| | Ford SD | 8 | Regular | Passenger |

# Adrian Cap Electronic Lock Kit / Vehicle Chart - Barn Door

**NOTE: Silverado ICE and Hybrid is routed mirrored to the rest of the vehicles**

| Kit | Vehicle Model | Bed Length | Cab Size | Battery Location |
|---|---|---|---|---|
| TELB01 | Ford Maverick | 4.5 | Crew | Driver |
| | Ford Ranger | 5 | Crew | Driver |
| | RAM 1500 (MY25+) | 5.6 (67") | Crew | Driver |
| TELB02 | RAM 1500 (MY25+) | 6.3 | Crew | Driver |
| | RAM HD (MY25+) | 6.3 | Crew | Driver |
| TELB03 | RAM 1500 (MY25+) | 8 | Crew | Driver |
| | RAM HD (MY25+) | 8 | Crew | Driver |
| TELB04 | Chevy Colorado | 5 | Crew | Passenger |
| | Ford F150 | 5.5 | Crew | Passenger |
| | Ford Lightning | 5.5 | Crew | Passenger |
| | Nissan Frontier | 5 | Crew | Passenger |
| TELB05 | Ford F150 | 6.5 | Crew | Passenger |
| | Ford SD | 6.75 | Crew | Passenger |
| | Nissan Frontier | 6 | Crew | Passenger |
| | Silverado EV | 5.9 (71") | Crew | Passenger |
| TELB06 | Ford SD | 8 | Crew | Passenger |
| TELB07 | Silverado 1500 | 6.5 | Regular | Passenger |
| TELB08 | RAM HD (MY 25+) | 8 | Regular | Driver |
| TELB09 | Ford F150 | 6.5 | Regular | Passenger |
| TELB10 | Ford F150 | 8 | Regular | Passenger |
| | Ford SD | 8 | Regular | Passenger |
| TELB11 | Silverado 1500 | 5.75 | Crew | Passenger |
| TELB12 | Silverado 1500 | 6.5 | Crew | Passenger |
| | Silverado HD | 6.75 | Crew | Passenger |
| TELB13 | Silverado HD | 8 | Crew | Passenger |
| TELB14 | Silverado 1500 | 8 | Regular | Passenger |
| | Silverado HD | 8 | Regular | Passenger |

# Adrian Cap Electronic Lock Kit / Vehicle Chart - Barn Door

**NOTE: Silverado ICE and Hybrid is routed mirrored to the rest of the vehicles**

| Kit | Vehicle Model | Bed Length | Cab Size | Battery Location |
|---|---|---|---|---|
| TELB01 | Ford Maverick | 4.5 | Crew | Driver |
| TELB04 | Ford F150 | 5.5 | Crew | Passenger |
| TELB05 | Ford F150 | 6.5 | Crew | Passenger |
| TELB07 | Silverado 1500 | 6.5 | Regular | Passenger |
| TELB09 | Ford F150 | 6.5 | Regular | Passenger |
| TELB10 | Ford F150 | 8 | Regular | Passenger |
| TELB11 | Silverado 1500 | 5.75 | Crew | Passenger |
| TELB12 | Silverado 1500 | 6.5 | Crew | Passenger |
| TELB14 | Silverado 1500 | 8 | Regular | Passenger |

# TELH Kit Harnesses

| Kit | 74342 | 74343 | 74344 | 74345 | 74346 | 74347 | 74348 | 74340 x3 | 74341 | 74349 x2 | 74350 | 74533 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TELH01 | X | | X | | | | X | X | X | X | X | X |
| TELH02 | X | | X | | | X | | X | X | X | X | X |
| TELH03 | X | | X | | X | | | X | X | X | X | X |
| TELH04 | | X | X | | | | X | X | X | X | X | X |
| TELH05 | | X | X | | | X | | X | X | X | X | X |
| TELH06 | | X | X | | X | | | X | X | X | X | X |
| TELH07 | X | | | X | | X | | X | X | X | X | X |
| TELH08 | X | | | X | X | | | X | X | X | X | X |
| TELH09 | | X | | X | | X | | X | X | X | X | X |
| TELH10 | | X | | X | X | | | X | X | X | X | X |

# TELB Kit Harnesses

| Kit | 74340 x3 | 74341 | 74342 | 74343 | 74344 | 74345 | 74346 | 74347 | 74348 | 74349 x2 | 74350 | 74533 | 77195 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TELB01 | X | X | X | | X | | | | X | X | X | X | |
| TELB02 | X | X | X | | X | | | X | | X | X | X | |
| TELB03 | X | X | X | | X | | X | | | X | X | X | |
| TELB04 | X | X | | X | X | | | | X | X | X | X | |
| TELB05 | X | X | | X | X | | | X | | X | X | X | |
| TELB06 | X | X | | X | X | | X | | | X | X | X | |
| TELB07 | X | X | X | | | X | | X | | X | X | X | X |
| TELB08 | X | X | X | | | X | X | | | X | X | X | |
| TELB09 | X | X | | X | | X | | X | | X | X | X | |
| TELB10 | X | X | | X | | X | X | | | X | X | X | |
| TELB11 | X | X | X | | X | | | | X | X | X | X | X |
| TELB12 | X | X | X | | X | | | X | | X | X | X | X |
| TELB13 | X | X | X | | X | | X | | | X | X | X | X |
| TELB14 | X | X | X | | | X | X | | | X | X | X | X |

# Components

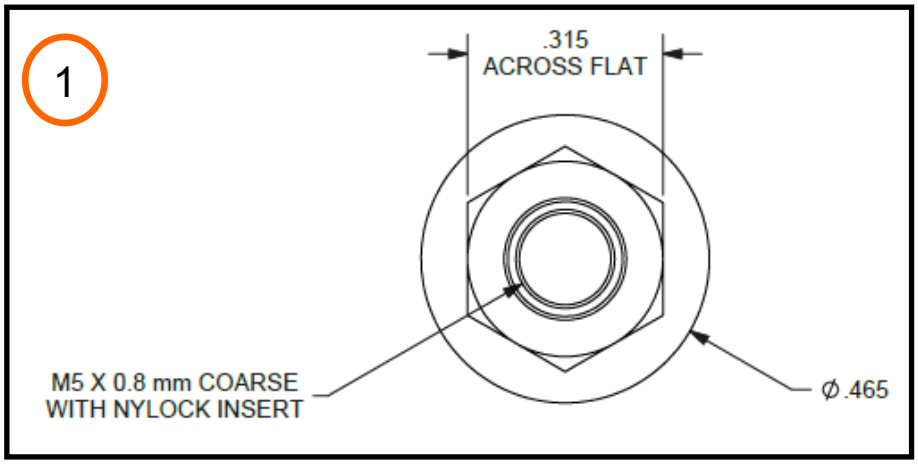


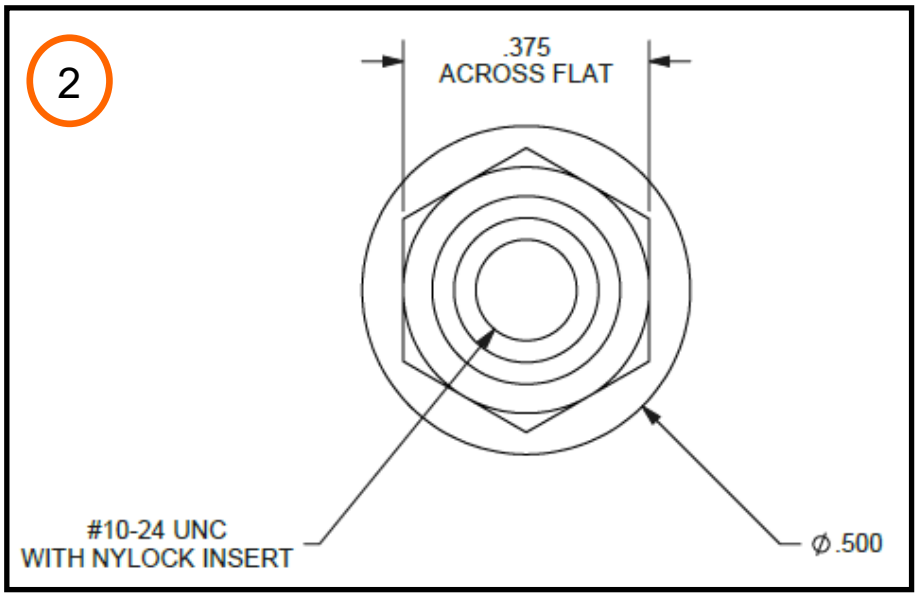

| | Part # | Description |
|---|---|---|
| 1 | 74340 | ALLEGIS T-HANDLE E-LATCH |
| 2 | 74341 | E-LATCH OEM RELAY HARNESS |
| 3 | 74342 | E-LOCK PWR - DRIVER HARN |
| 4 | 74343 | E-LOCK PWR - PASS HARN |
| 5 | 74344 | E-LOCK CONTROL-CREW HARN |
| 6 | 74345 | E-LOCK CONTROL-REG HARN |
| 7 | 74346 | E-LOCK TPPR 3SPLT 8' HARN |
| 8 | 74347 | E-LOCK TPPR 3SPLT 6.75' |
| 9 | 74348 | E-LOCK TPPR 3SPLT 5.75' |
| 10 | 74349 | E-LOCK TPPR SIDE DOR HARN |
| 11 | 74350 | E-LOCK TPPR REAR DOR HARN |
| 12 | 74533 | DUAL SPDT RELAY MODULE |
| 13 | 80768 | ROLL UP DOOR E-LOCK HARN |

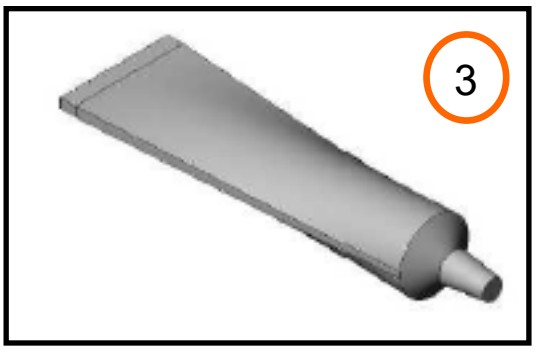
**Harness pictures are for reference only.**
Please reference the vehicle being upfit and pg. 4 to confirm which components are required for the install.

# Fastener Bag Parts

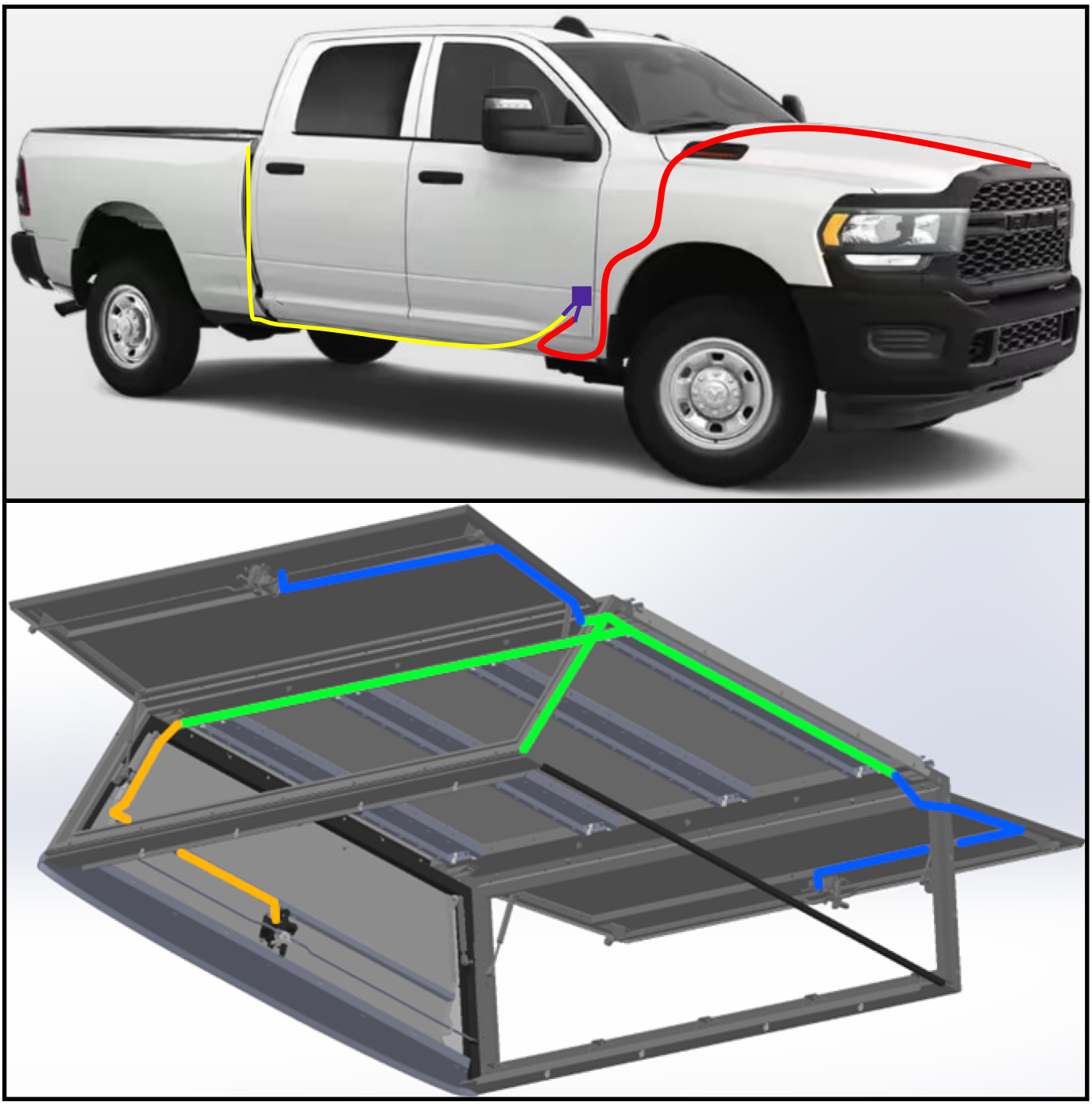
| QTY | Part # | Description |
|---|---|---|
| 12 | FAS0917 | NUT,HEX NLK FLG M5 X 0.8 ZP |
| 6 | FAS0918 | NUT,HEX NLK FLG 10-24 ZP |
| 1 | 26618-0 | Silicone Sealant |



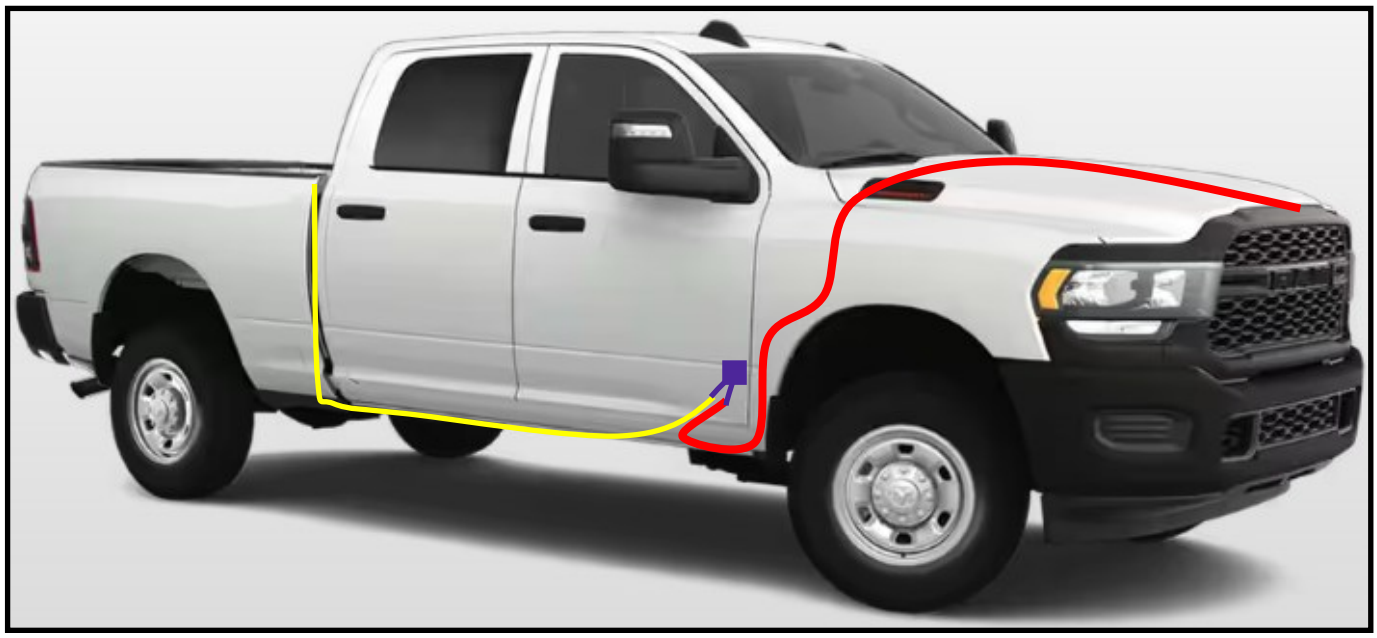
# Routing Overview

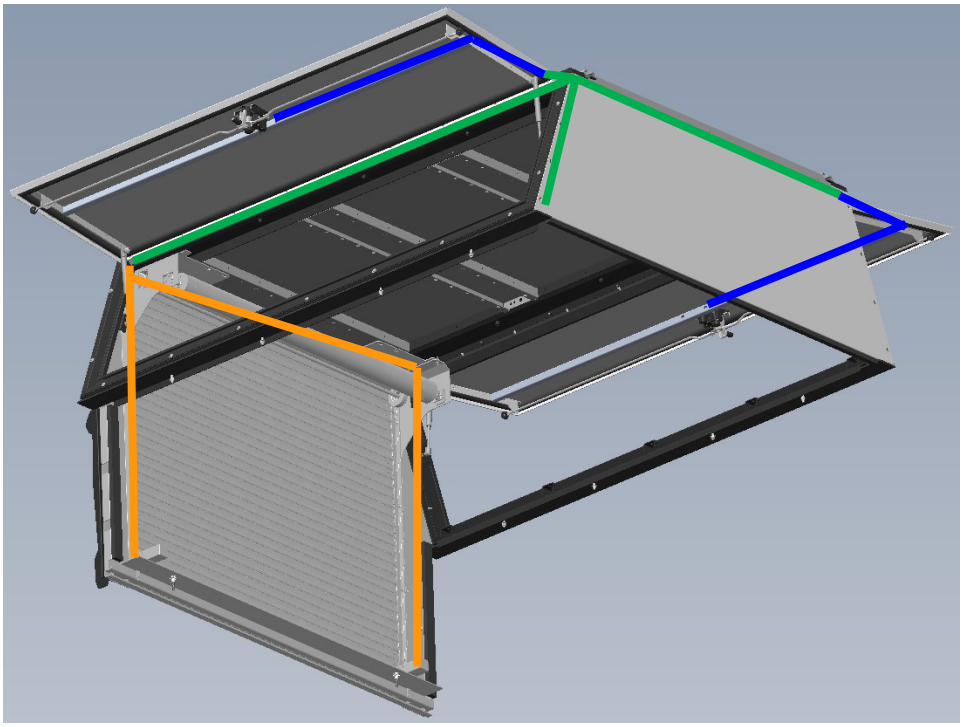


2024 RAM 2500 with Crew Cab and 6.75’ Bed shown. All installs route along the same path except for Silverado ICE and Hybrid which is mirrored.

| | |
|---|---|
| RED | 74342 E-LOCK PWR - DRIVER HARN (Driver Side Position Shown) |
| PURPLE | 74341 E-LATCH OEM RELAY HARNESS (located in the front passenger foot well) |
| YELLOW | 74344 E-LOCK CONTROL-CREW HARN |
| GREEN | 74347 E-LOCK TPPR 3SPLT 6.75' |
| BLUE | 74349 E-LOCK TPPR SIDE DOR HARN |
| ORANGE | 74350 E-LOCK TPPR REAR DOR HARN |

# Routing Overview Roll-up Door Topper ONLY

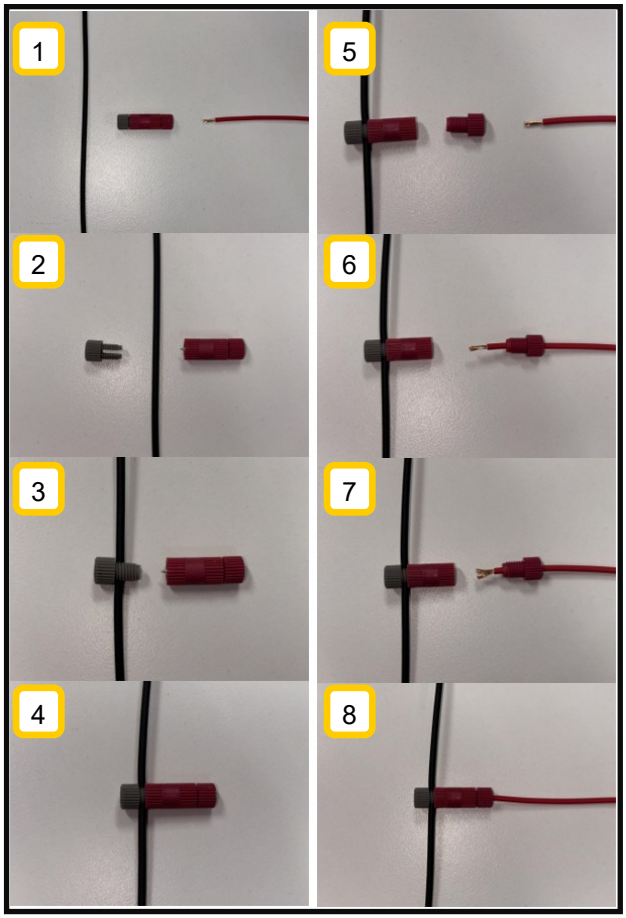




| | |
|---|---|
| **RED** | 74342 E-LOCK PWR - DRIVER HARN (Driver Side Position Shown) |
| **PURPLE** | 74341 E-LATCH OEM RELAY HARNESS (located in the front passenger foot well) |
| **YELLOW** | 74344 E-LOCK CONTROL-CREW HARN |
| **GREEN** | 74347 E-LOCK TPPR 3SPLT 6.75' |
| **BLUE** | 74349 E-LOCK TPPR SIDE DOOR HARN |
| **ORANGE** | 80768 E-LOCK ROLL-UP DOOR REAR HARN |

# Platform Specific Posi-Tap Installation Instructions

REMOVE BATTERY NEGATIVE CONNECTION before unplugging connectors from the BCM. Failure to do so may cause error codes to be thrown on the dash that will require an OBD2 tool to clear.




**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 point on 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

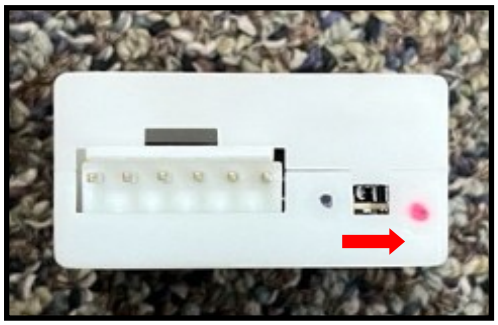
Twist the cap back onto the Posi-Tap with the tapping wire secured. Be sure of secure connection.

**Note:**

In the case all 3 E-Locks are triggering opposite of the OEM locks, start troubleshooting by swapping the tapping wires on the two Posi-Taps and test again.

**Relay Module:**

Make sure the toggle switch on the relay module is in the position away from the 6 pin connector.



# 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

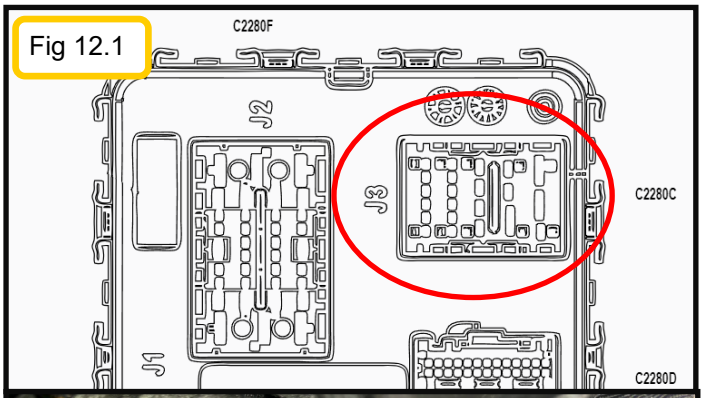



Fig 12.2



Fig 12.3

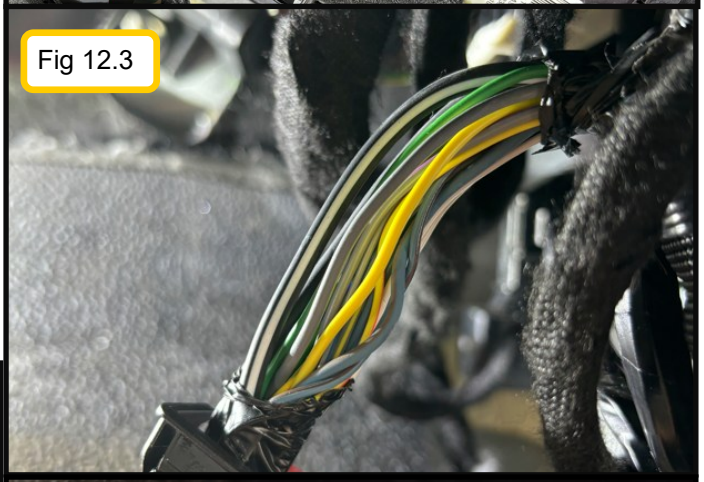


Fig 12.4

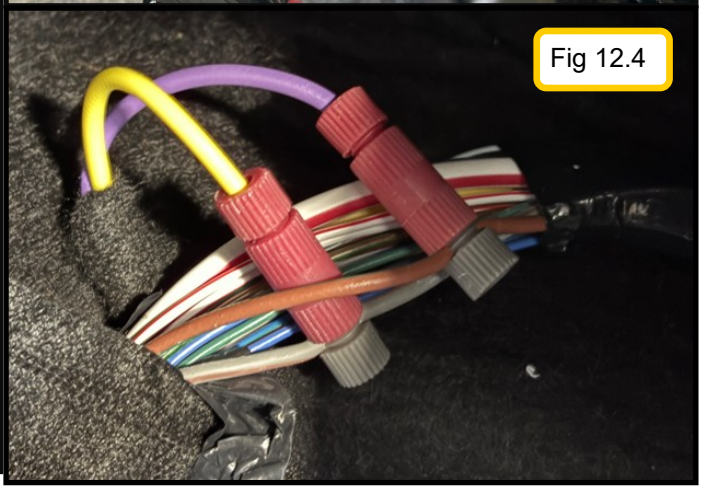


Fig 12.5



# Platform Specific Posi-Tap Installation Instructions

## Ford Lightning

**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 and disconnect it from the BCM. (Fig 13.1)

**4.** CAREFULLY cut away the tape wrapped around the OEM wires. (Fig 13.2)

**5.** Install the Posi-Taps following the instructions on page 11 using harness 74341 tapping wires. (Fig 13.3)

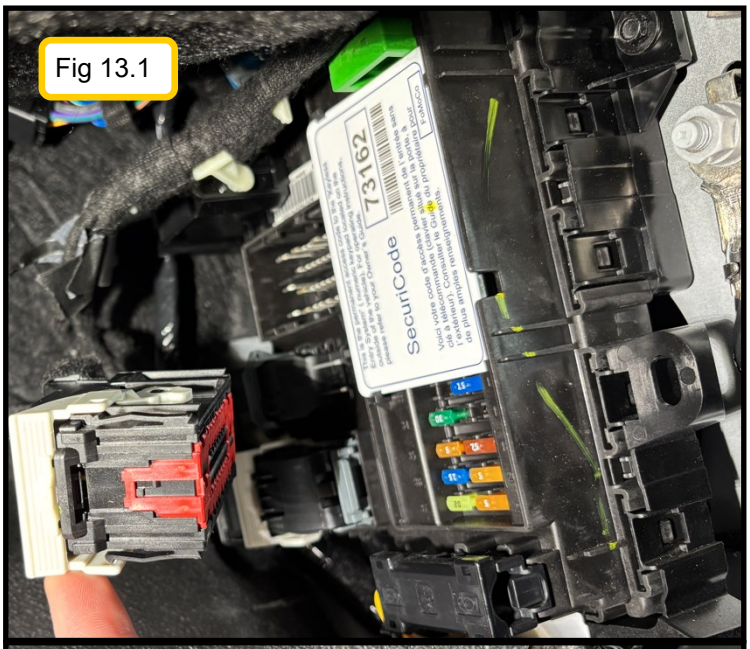
**Lightning**
**74341 Yellow -> OEM Brown / Green Stripe**
**74341 Purple -> OEM Gray / Brown Stripe**

**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.

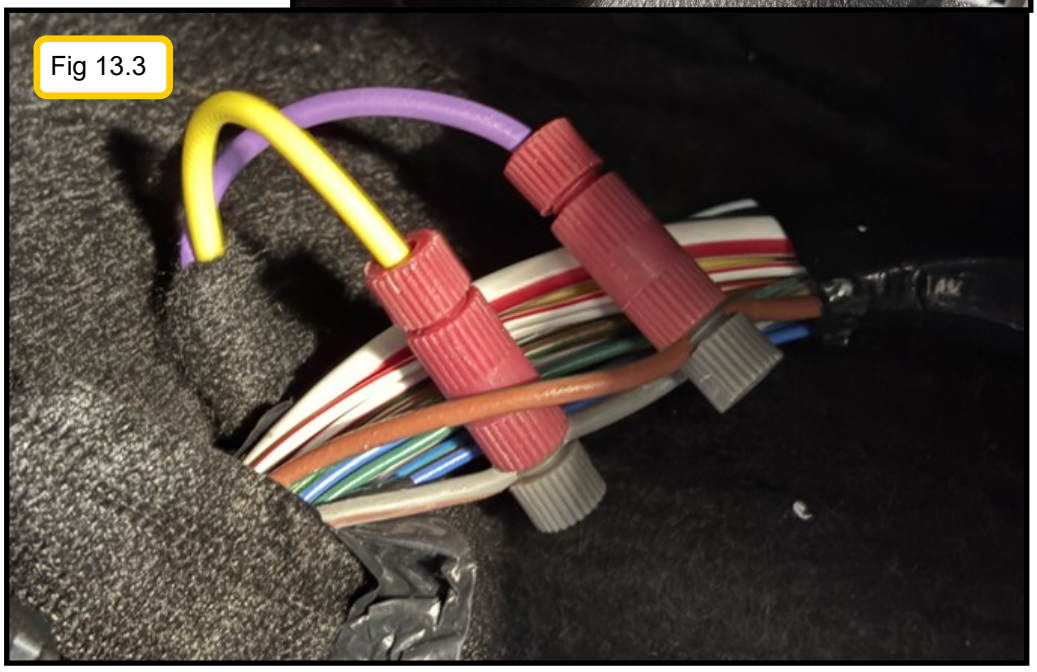
**8.** Secure the harness and relay module to the OEM harnesses.

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









# Platform Specific Posi-Tap Installation Instructions

## Ford Maverick

**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 C2280F and disconnect it from the BCM. (Fig 14.1)

**4.** CAREFULLY cut away the tape wrapped around the OEM wires.

**5.** Install the Posi-Taps following the instructions on page 11 using harness 74341 tapping wires. (Fig 14.2)

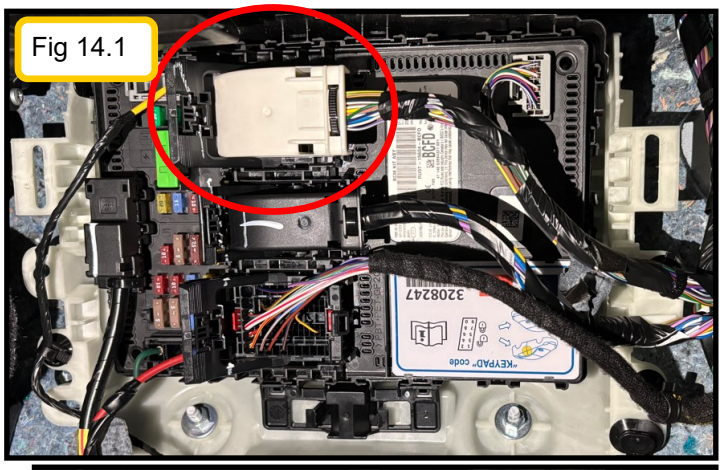
**Maverick ICE & Hybrid**
**74341 Yellow -> OEM Brown / Green Stripe**
**74341 Purple -> OEM Gray / Brown Stripe**

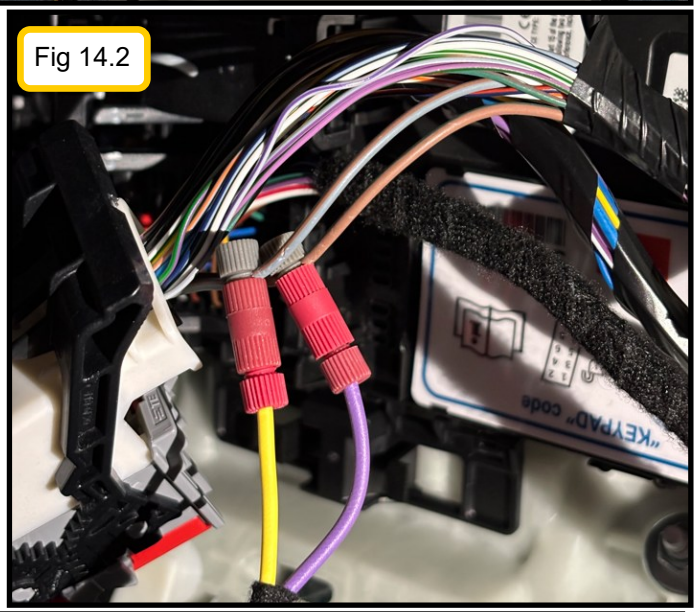
**6.** Retape the harness around the Posi-Taps to secure the wires as intended by the OEM and plug the connector back into the BCM.

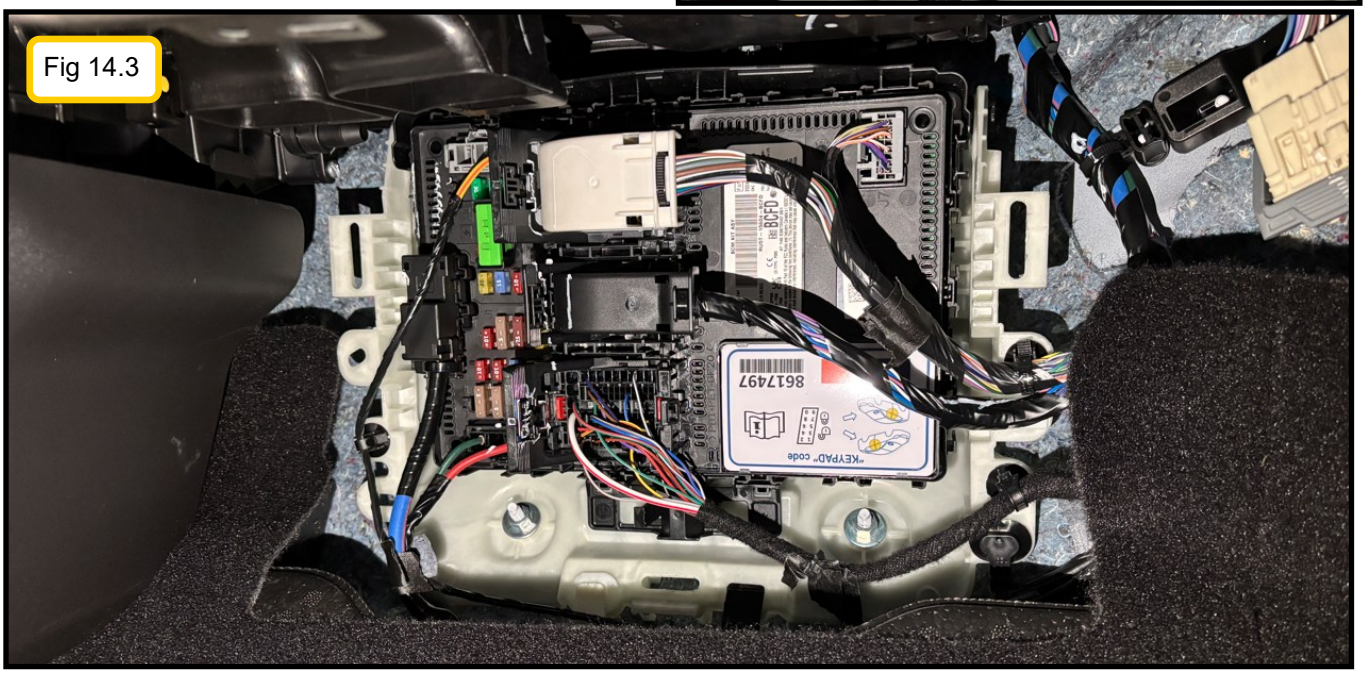
**7.** Plug the 74533 Relay Module into the 74341 harness 6-pin connector.

**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 14.1


Fig 14.2


Fig 14.3

# Platform Specific Posi-Tap Installation Instructions

## Ford Ranger

**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.

**3.** Locate the fabric tape wrapped harness coming from the black connector that passes through the vehicle wall into the door. (fig 15.2)

**4.** CAREFULLY cut away the tape wrapped around the OEM wires. (Fig 15.3)

**5.** Install the Posi-Taps following the instructions on page 11 using harness 74341 tapping wires. (Fig 15.4)

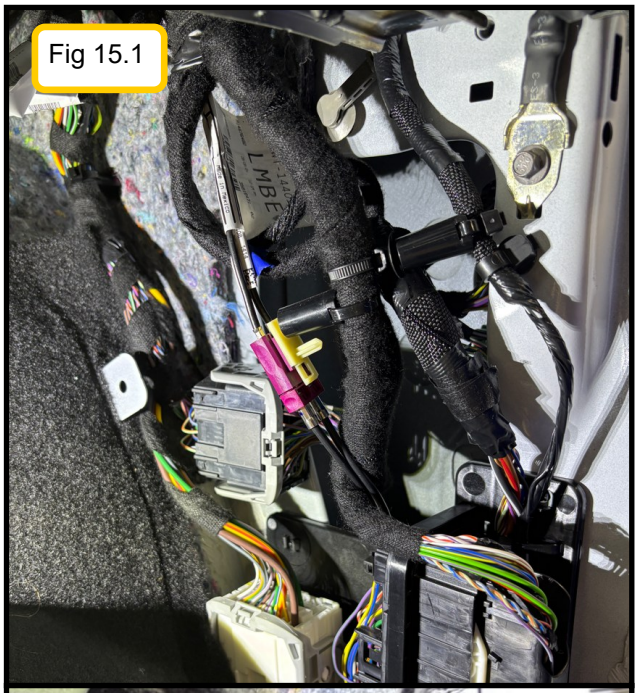
**Ranger**
**74341 Yellow -> OEM Brown / Green Stripe**
**74341 Purple -> OEM Gray / Brown Stripe**

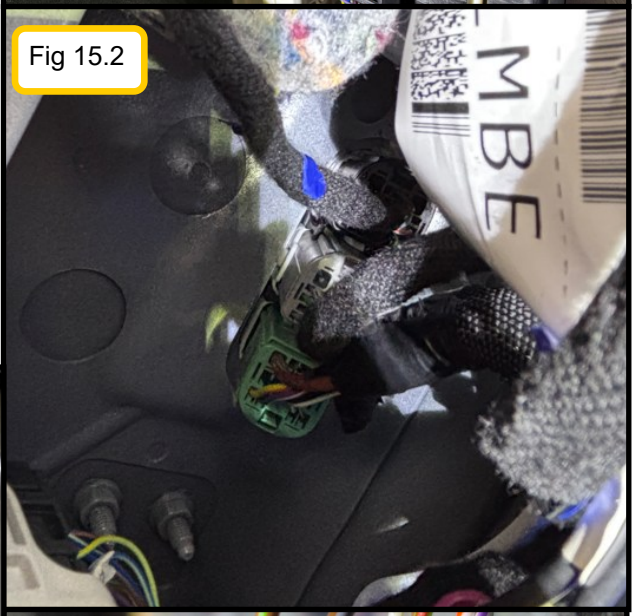
**6.** Retape the harness around the Posi-Taps to secure the wires as intended by the OEM and plug the connector back into the BCM.

**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 15.1


Fig 15.2

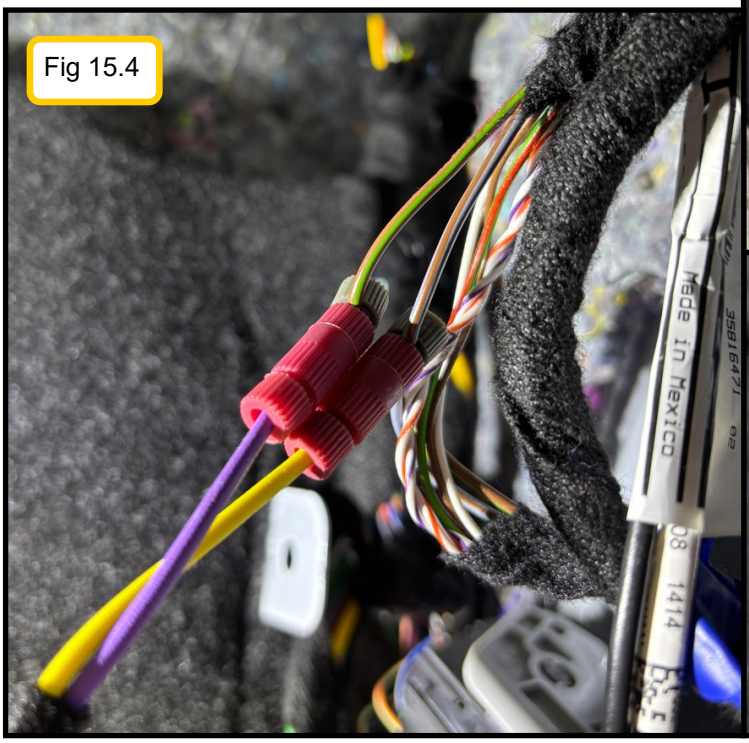
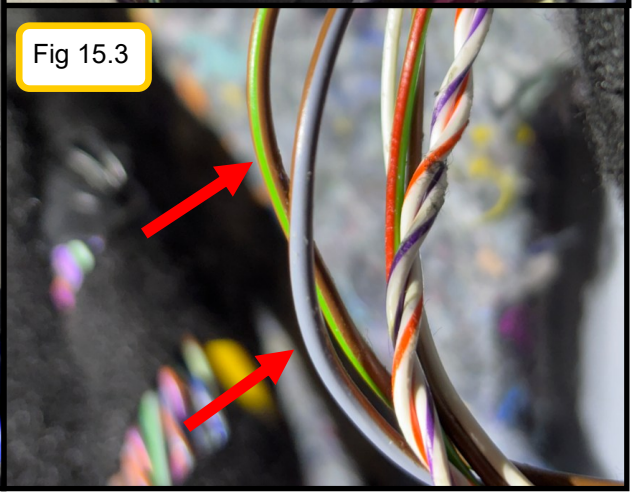


Fig 15.4


Fig 15.3

# 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**

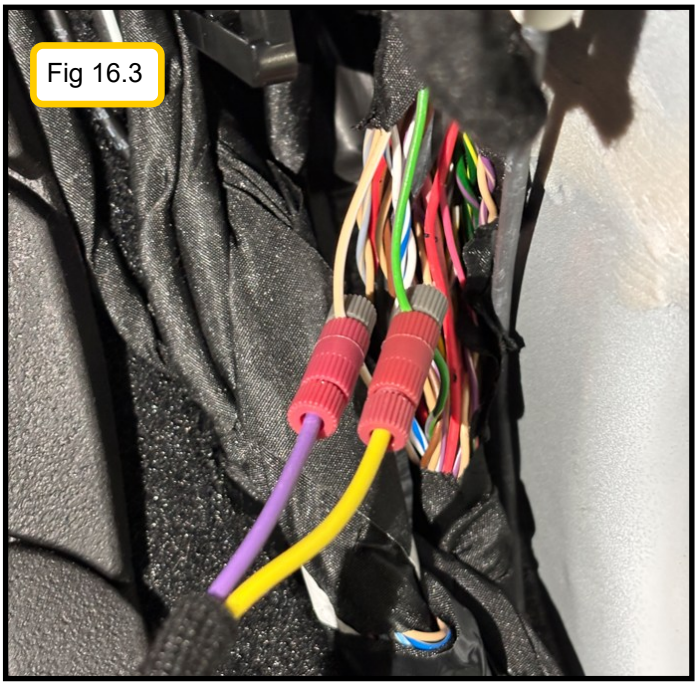
**6.** Retape the harness around the Posi-Taps to secure the wires as intended by the OEM and plug the connector back into the BCM.

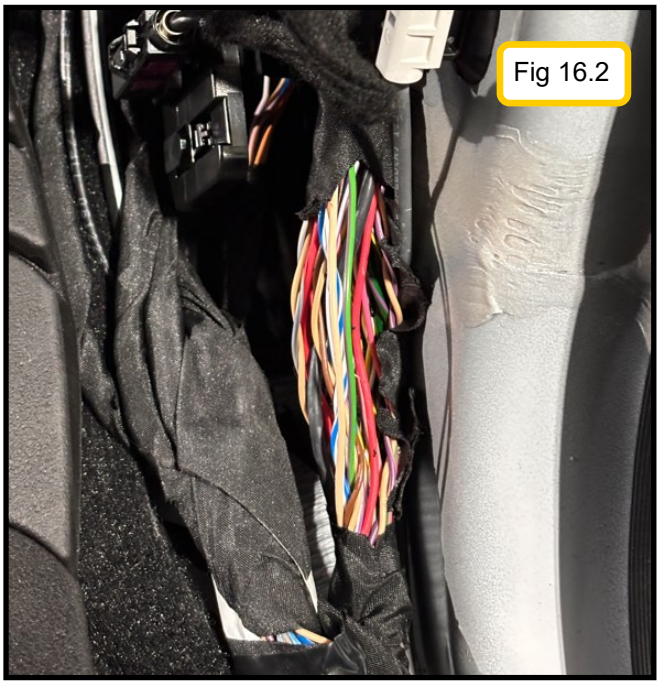
**7.** Plug the 74533 Relay Module into the 74341 harness 6-pin connector.

**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 Colorado

**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.

**3.** Locate the Tesa tape wrapped harness that leads to the door connector. It will be leading behind the fuse block into the cavity.

**4.** CAREFULLY cut away the tape wrapped around the OEM wires. (Fig 17.1)

**5.** Install the Posi-Taps following the instructions on page 11 using harness 74341 tapping wires. (Fig 17.2)

**Colorado**
**74341 Yellow -> OEM Gray / Black Stripe**
**74341 Purple -> OEM Yellow / Green Stripe**

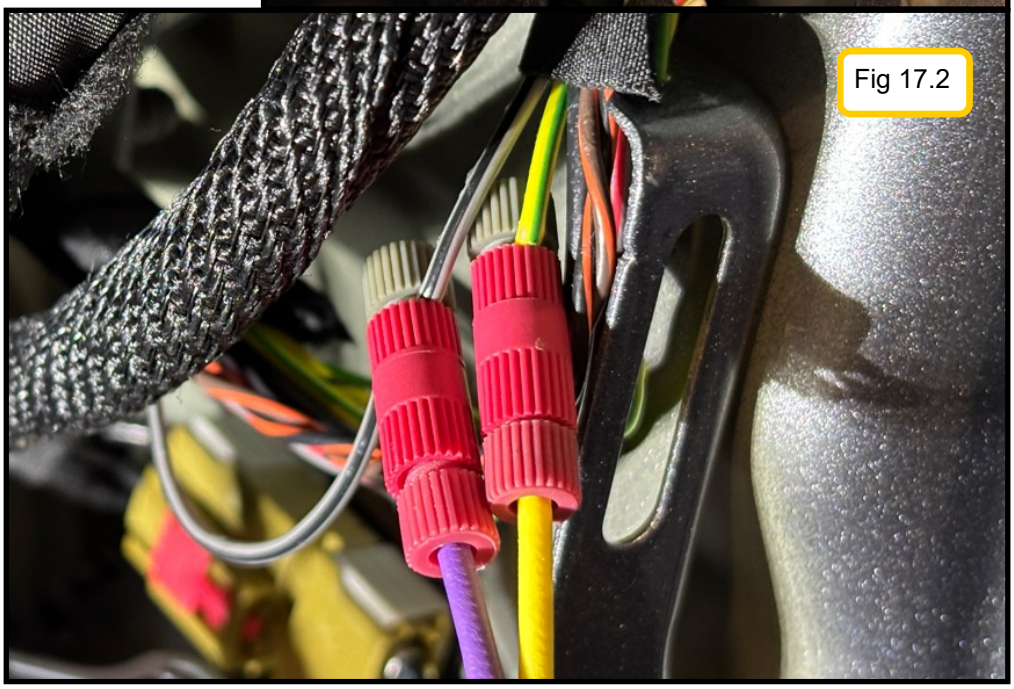
**6.** Retape the harness around the Posi-Taps to secure the wires as intended by the OEM.

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

**8.** Secure the harness and relay module to the OEM harnesses using the included zip ties.

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


Fig 17.1


Fig 17.2

# 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)

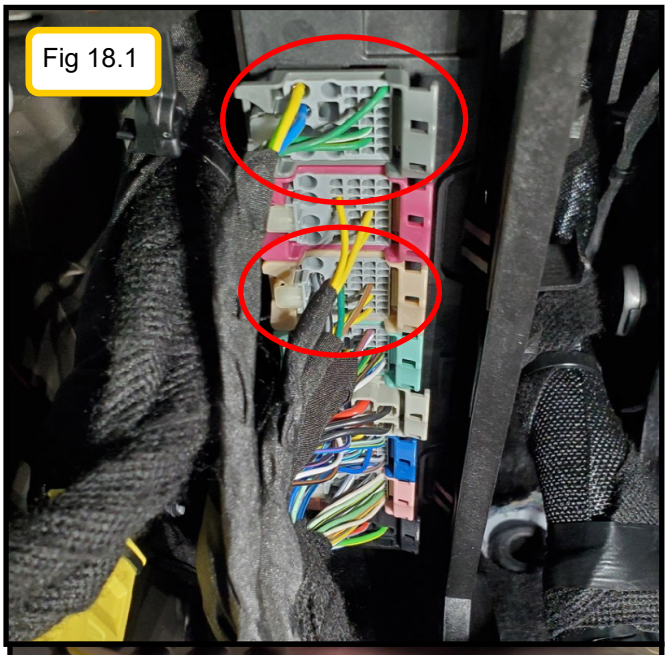
**Silverado**
**74341 Yellow -> OEM X6 Gray / Black Stripe**
**74341 Purple -> OEM X8 Yellow / Green Stripe**

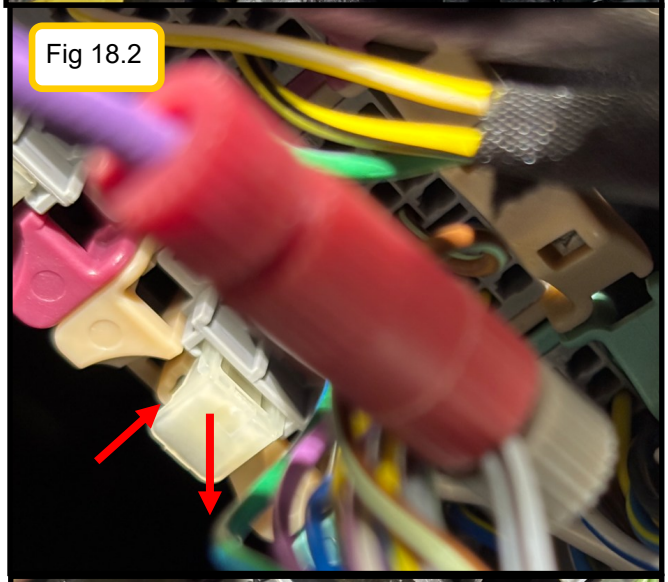
**6.** Plug the connectors back into the BCM.

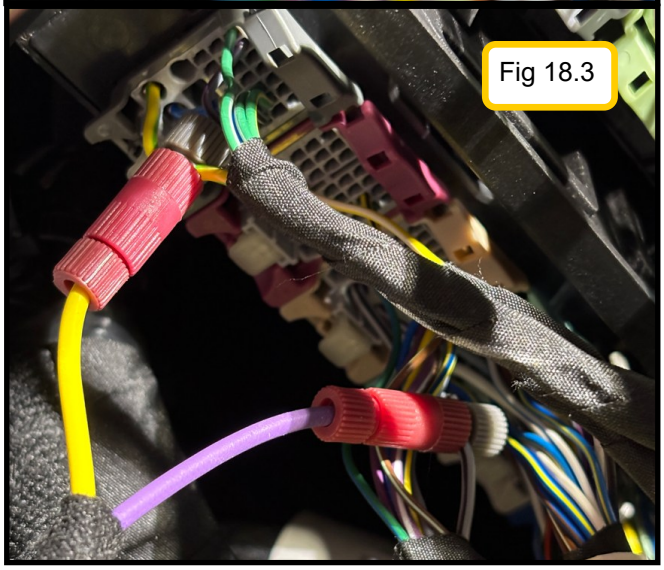
**7.** Plug the 74533 Relay Module into the 74341 harness 6-pin connector.

**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

# Platform Specific Posi-Tap Installation Instructions

## Chevy Silverado EV

**1.** Remove the lower trim panel and pull back the flooring to reveal the OEM body wire harness. (Fig 19.1)

**2.** CAREFULLY cut away the tape wrapping around the harness. (Fig 19.2)

**3.** Locate the grey with black stripe and yellow with green stripe wires in this bundle. (Fig 19.3)

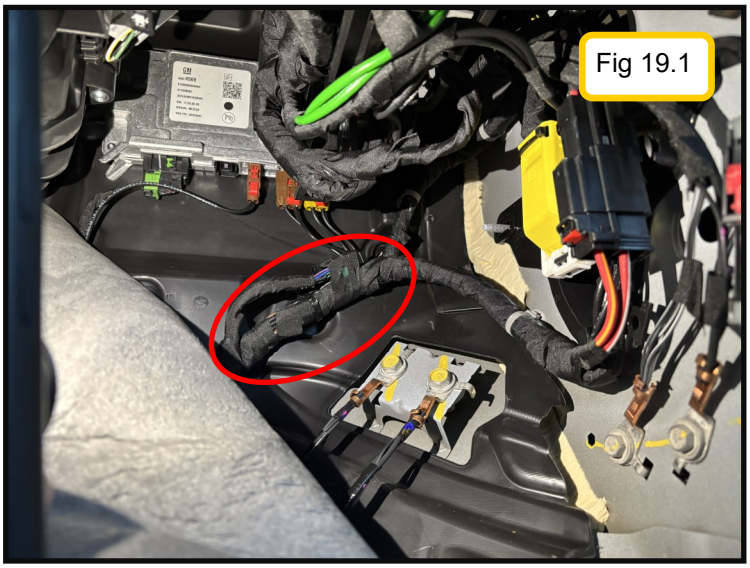
**4.** Install the Posi-Taps following the instructions on page 11 using harness 74341 tapping wires. (Fig 19.3)

**Silverado EV**
**74341 Yellow -> Gray / Black Stripe**
**74341 Purple -> Yellow / Green Stripe**

**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 19.1

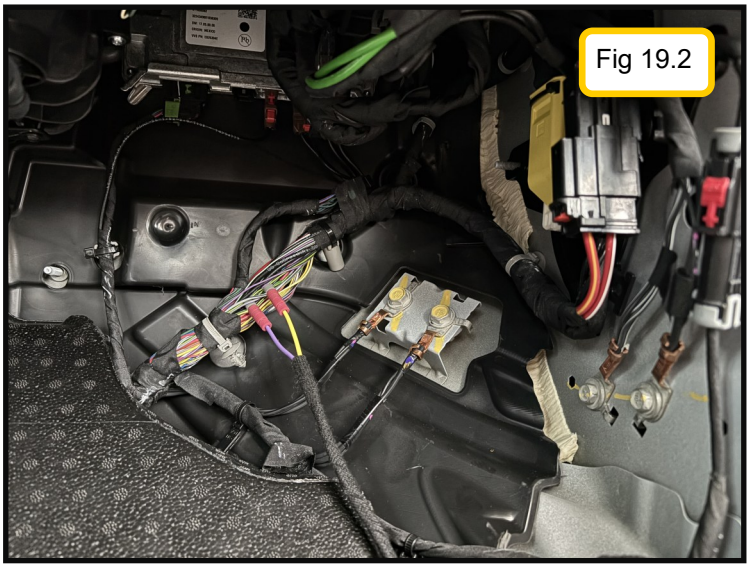

Fig 19.2


Fig 19.3

# Platform Specific Posi-Tap Installation Instructions

## Nissan Frontier

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

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

**3.** Locate connector M36 and unplug it. (Fig 20.1)

**4.** Remove the connector cover by pulling the cover away from the tabs (blue circles in fig 20.2)

**5.** Locate the pink and yellow wires in positions 55 and 56 in the connector (red circle in fig 20.2)

**6.** Install the Posi-Taps following the instructions on page 11 using harness 74341 tapping wires. (Fig 20.3)

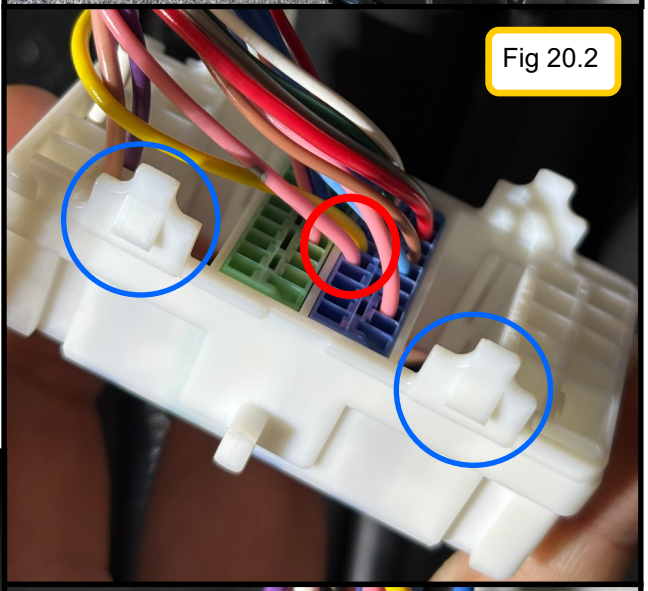
**Frontier**
**74341 Yellow -> OEM Pink**
**74341 Purple -> OEM Yellow**

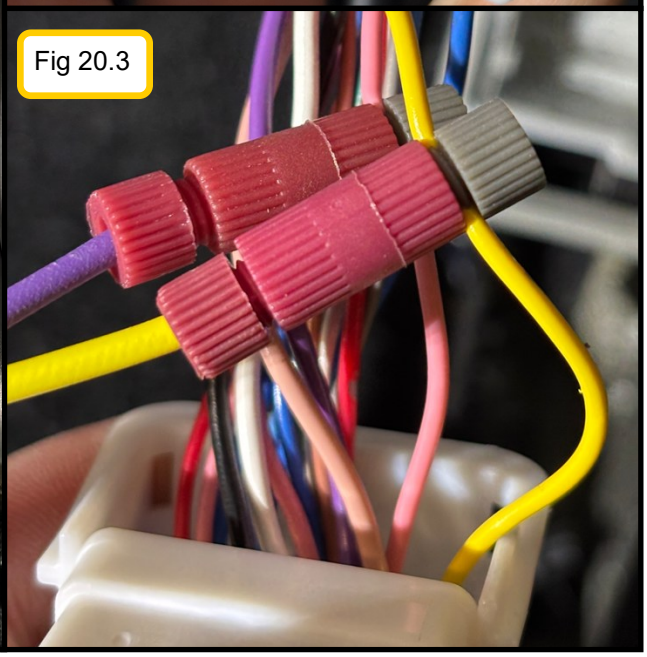
**7.** Fasten the cover back on the connector and plug in the connector. (fig 20.4)

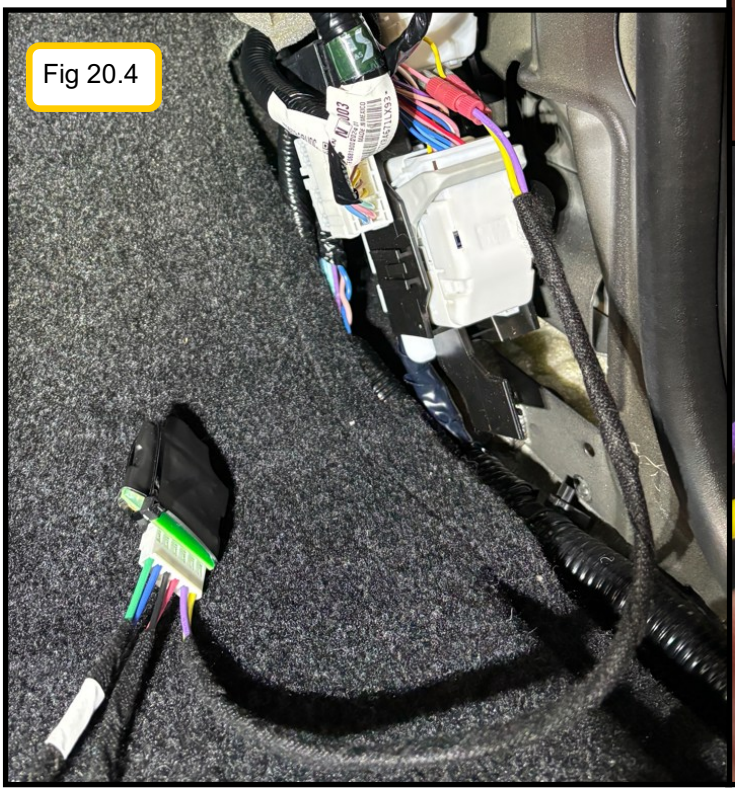
**8.** Plug the 74533 Relay Module into the 74341 harness 6-pin connector.

**9.** Secure the harness and relay module to the OEM harnesses.


Fig 20.1


Fig 20.2


Fig 20.3


Fig 20.4

# Battery Harness Install Instructions




**Option 1: Passenger-Side Battery**

**Step 1:**
Locate 74343 E-LOCK PWR - PASS HARN

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

Locate the OEM battery terminals under the hood. In some cases, the negative terminal is not available and a nearby ground stud will be used instead.

**Step 2:**
Attach the red wire with the ring terminal to the battery positive post or a post of proper size in the power distribution block.

Attach the black wire with the ring terminal to either the negative terminal of the battery, or a nearby ground stud on the chassis of the vehicle.

**WARNING: DO NOT USE THE BATTERY CLAMP NUTS TO SECURE HARNESS**

Torque the battery terminals to 8 Nm.

**Step 3:**
Route the power harness over to the rear passenger-side corner of the engine bay, and secure the power harness to OEM harnessing to strain relief the terminals.

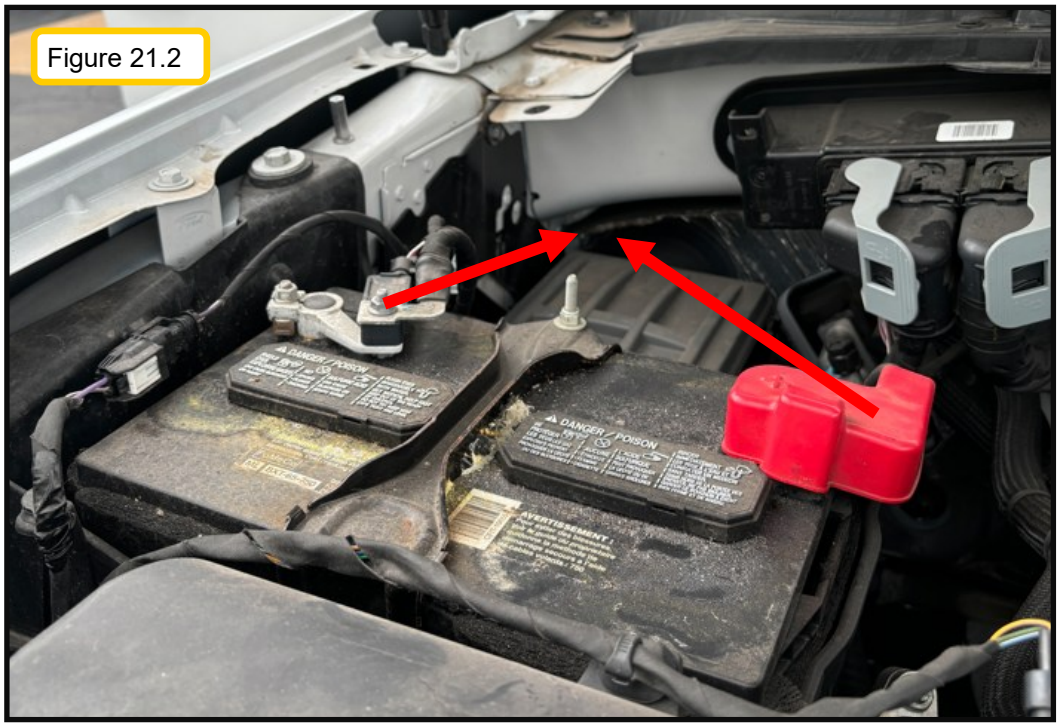


Figure 22.1

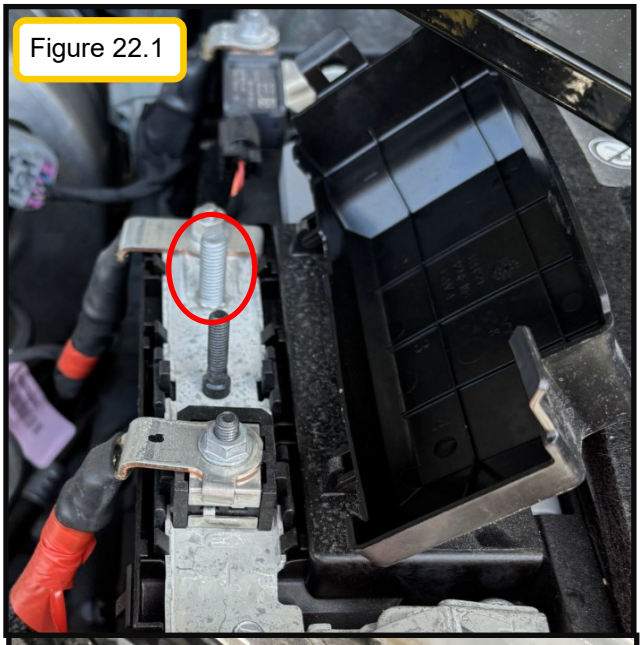


Figure 22.2



**Option 2: Driver-Side or Centered Battery Silverado Passenger-Side Battery**

**Step 4:**
Locate 74342 E-LOCK PWR - DRIVER HARN

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

Locate the OEM battery terminals under the hood. In some cases, the negative terminal is not available and a nearby ground stud will be used instead.

**Step 5:**
Attach the red wire with the ring terminal to the battery positive post or a post of proper size in the power distribution block.

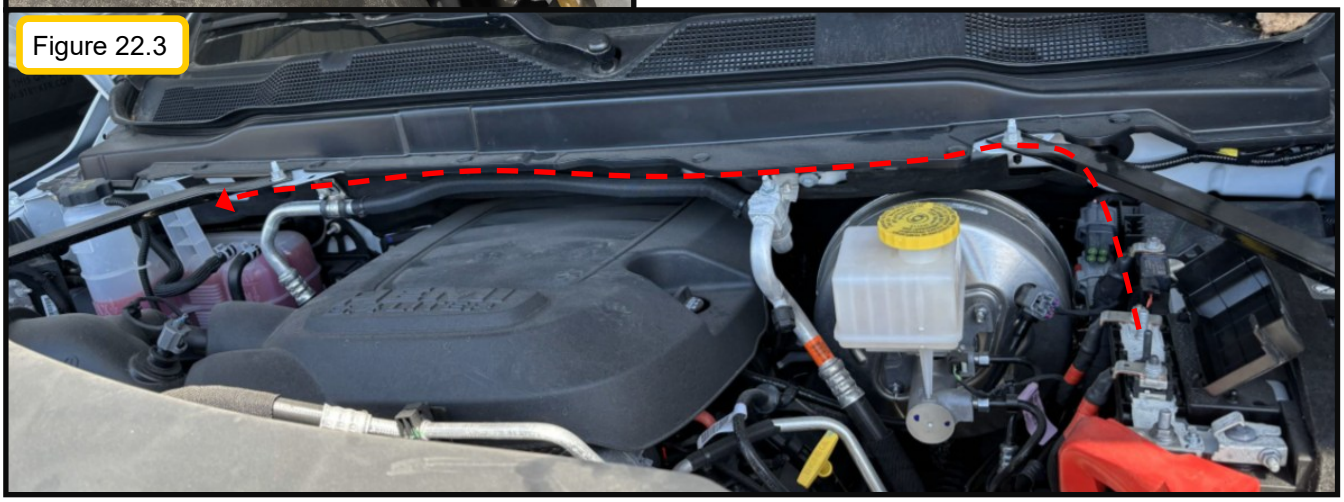
Attach the black wire with the ring terminal to either the negative terminal of the battery, or a nearby ground stud on the chassis of the vehicle if the negative battery terminal is not available.

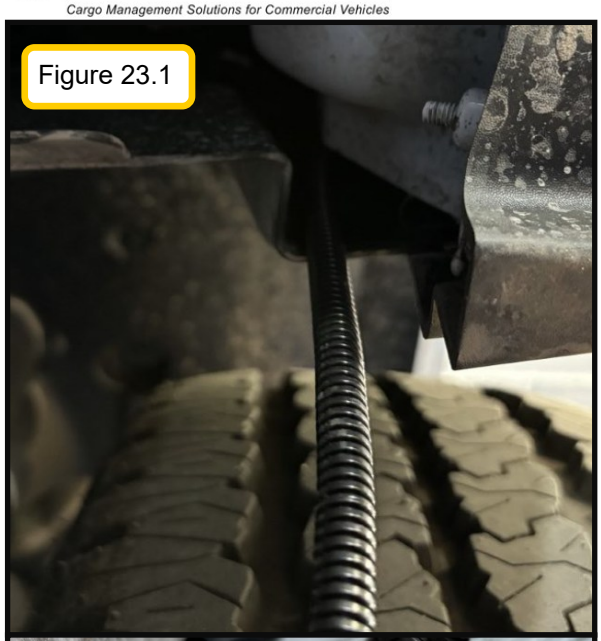
**WARNING: DO NOT USE THE BATTERY CLAMP NUTs TO SECURE HARNESS**

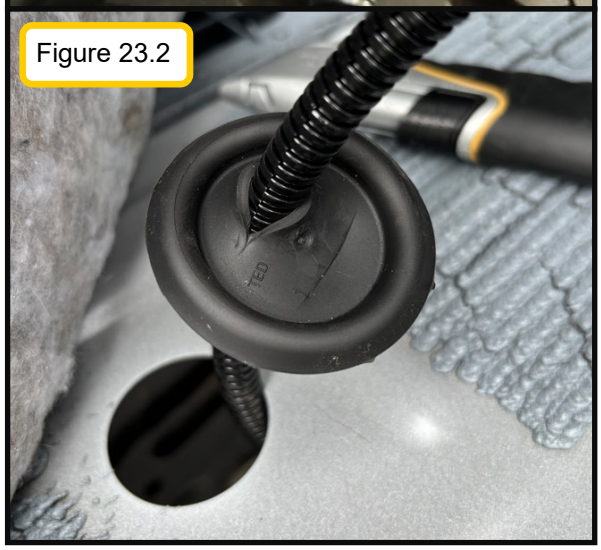
Torque the battery terminals to 8 Nm.

**Step 6:**
Route the power harness over to the passenger side of the vehicle, securing to nearby OEM harnessing whenever possible along the liner below the front windshield.

Figure 22.3




Figure 23.1


Figure 23.2

**Step 7:**
Route the harness down and around the front passenger-side wheel well so that it emerges under the front passenger footwell floor. (fig 23.1)

**Step 8:**
With the trim panels removed from installing the Posi-Taps and Relay Module, lift the carpeting and locate the OEM rubber or plastic grommet in the floor of the front passenger footwell. (fig 23.2)

If the OEM grommet is rubber, cut two 3/4” slits.

If the OEM grommet is plastic, drill a 3/4” hole in the grommet.

If an OEM grommet is not available, drill a 1” hole in a flat section of the floor as close to the Posi-Tap location as possible. (fig 23.3)

Insert the grommet included with the 74341 harness into the hole to prevent damage to the harnesses. (fig 23.4)

**Step 9:**
Route the power harness up through the grommet. (fig 23.2)

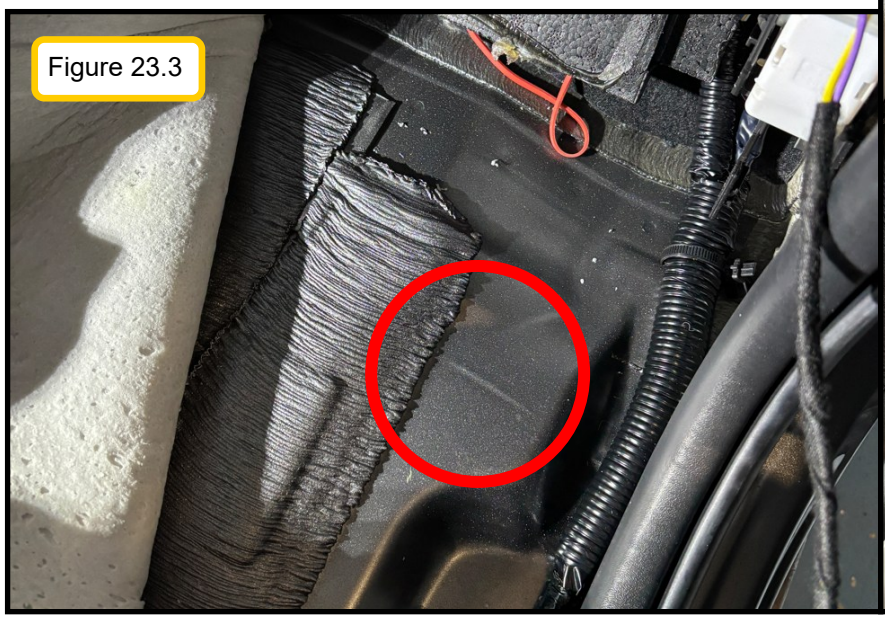

Figure 23.3


Figure 23.4

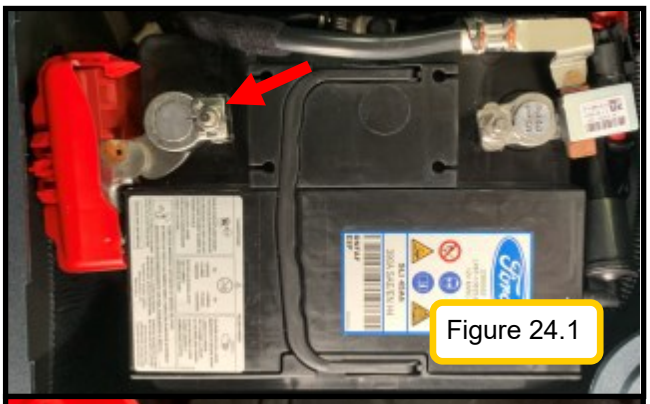

Figure 24.1


Figure 24.2


Figure 24.3

**Maverick Hybrid Specific Routing Steps**

**Step 10:**
Locate 74343 E-LOCK PWR - PASSENGER HARN

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

Locate the OEM battery under the rear seat.

**Step 11:**
Remove the positive terminal with the bus bar from the battery by loosening the clamp fastener. (Fig 24.1)

**Step 12:**
Attach the positive wire (with the in-line fuse) to the bus bar. (Fig 24.2)

**Step 13:**
Attach the negative wire with the ring terminal to the ground stud next to the battery. (Fig 24.3)

**WARNING: DO NOT USE THE BATTERY CLAMP NUTs TO SECURE HARNESS**

**Step 14:**
Reinstall the battery positive terminal.

Torque the battery clamp fastener to 5.2Nm, the bus bar locknut to 10Nm, and the ground fastener to 35Nm.

**Step 15:**
Route the power harness under the trim and kick panels to the front passenger foot well where the Relay Module 74533 is connected to the BCM harness.

## Chevy Silverado EV Specific Routing Steps

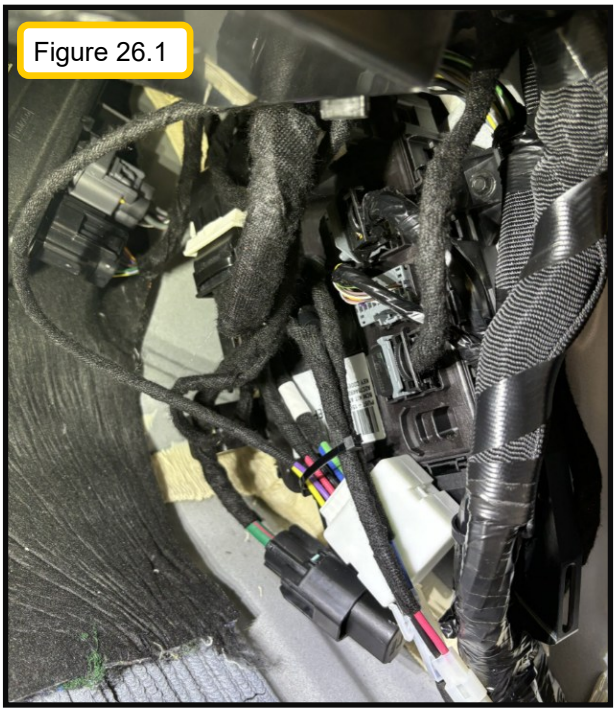
**Step 16.**
When routing the battery harness down the footwell behind the liner, pass it through the space between the outer body panel and the chassis. (Fig 25.1)


Figure 25.1

**Step 17.**
Locate the small circular grommet a few inches above the lower passenger door hinge. Remove that grommet, cut a hole in it, and feed the battery harness through the hole and grommet into the passenger foot well. Reinstall the grommet and use silicone to seal the hole. (Fig 25.2)


Figure 25.2

# Body Harness Install Instructions


Figure 26.1

**Step 1:**
Plug the power harness (74342 or 74343) into its mating connector on the OEM Relay
Harness 74341, and plug the control harness (74344 or 74345) into its mating connector on the OEM Relay Harness 74341. See Figure 3.1 for reference.

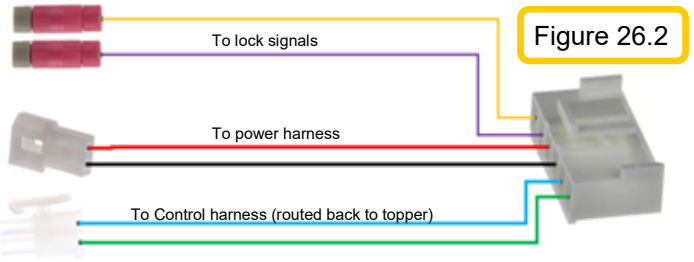


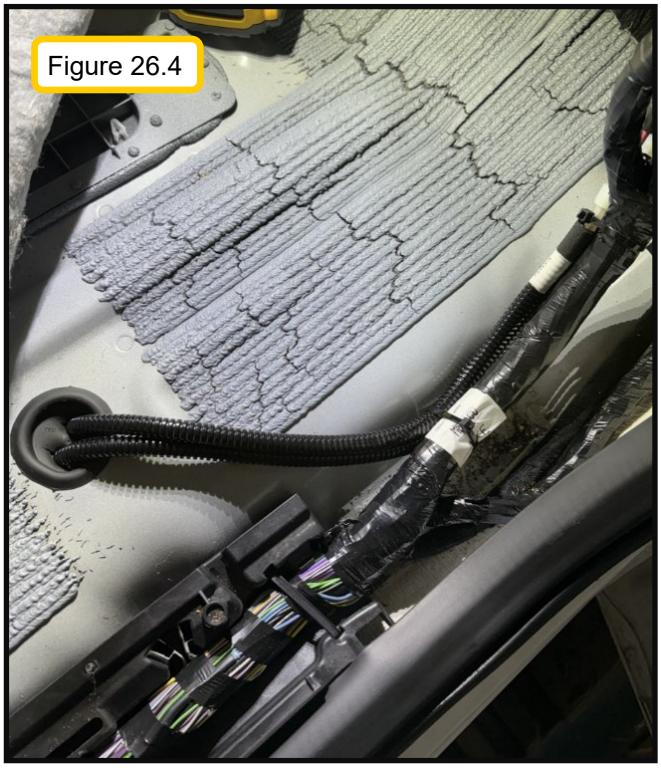
Figure 26.2

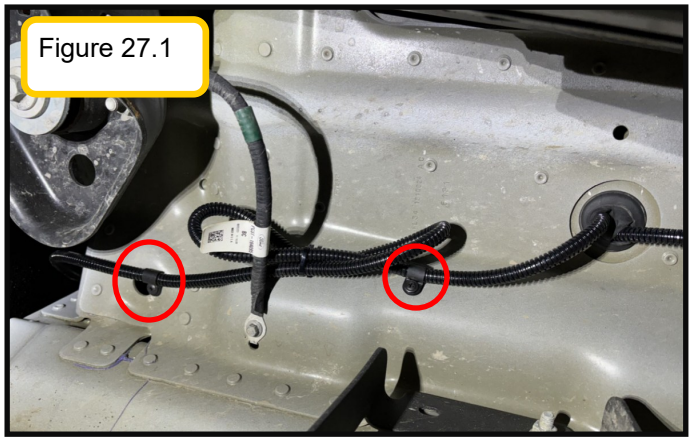
Tuck the Relay Module and attached harnessing behind the wires under the dash. Use zip ties to secure the Relay Module and connectors to the OEM harnesses at least 10cm above the floor of the vehicle.

**Step 2:**
Route the E-lock control harness back under where the passenger kick plate will be, then down the same grommet that the power harness came up. (Fig 26.3 and 26.4) (this will be the only harness on Maverick HYB.

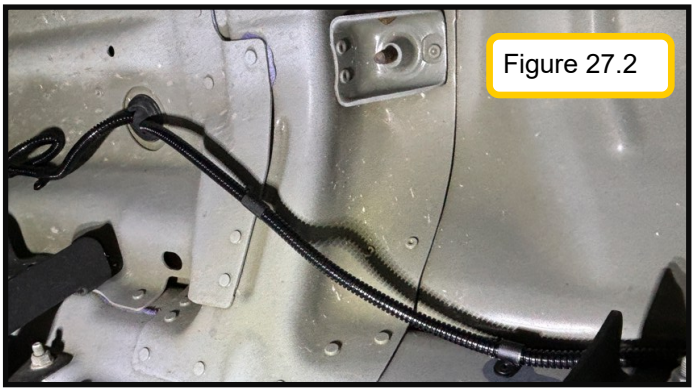
**Step 3:**
Secure the harnesses to OEM harnesses with zip ties and seal the grommet gaps with silicone.


Figure 26.3

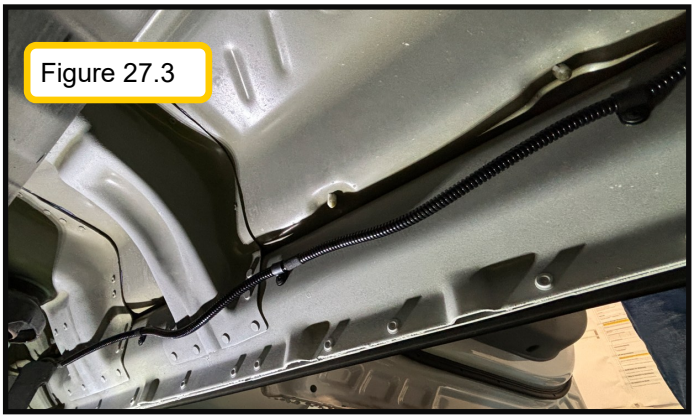

Figure 26.4


Figure 27.1

**Step 9:**
Using the P-clips and self tapping screws provided in the power harness bag, secure the excess power harness under the vehicle as shown. Use a zip tie to tie up the excess so it does not hang down.


Figure 27.2

**Step 10:**
Route the control harness along the length of the cab towards the bed. Use the P-clips and self tapping screws provided in the control harness bag to secure the harness as shown. Continue backwards until reaching the gap between the cab and bed of the vehicle. (fig 27.2 and 27.3)


Figure 27.3

**Step 11:**
In the front passenger-side corner of the bed, locate the OEM hole (there may be a grommet) and feed the fish tape down through the side wall of the bed.
Locate the end of the fish tape below the vehicle as shown in Fig 27.4 and tape the end of the control harness to the fish tape. Pull the harness up through the side wall of the bed and out the OEM hole as shown in Fig 27.6.

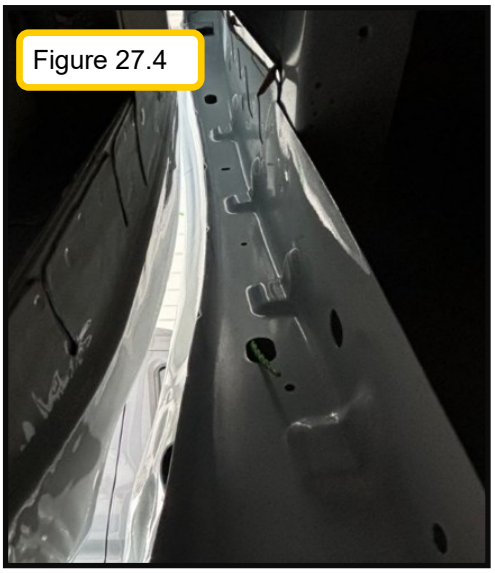

Figure 27.4


Figure 27.5


Figure 27.6

## Chevy Silverado EV Specific Routing Steps

**Step 12.**
Route the body harness along the passenger side kick panels to behind the back seat. There you will find a grommet with an OEM harness running into it.

**Step 13.**
Unscrew the felt coverings in the passenger footwell. Locate the other end of the grommet protruding out of the cab. Unwrap the end of the grommet shown in Fig 28.3 and push the harness through the grommet from the cab side.

**Step 14.**
Use fish tape to route the harness up through the OEM hole shown in Fig 28.4


Figure 28.1


Figure 28.2

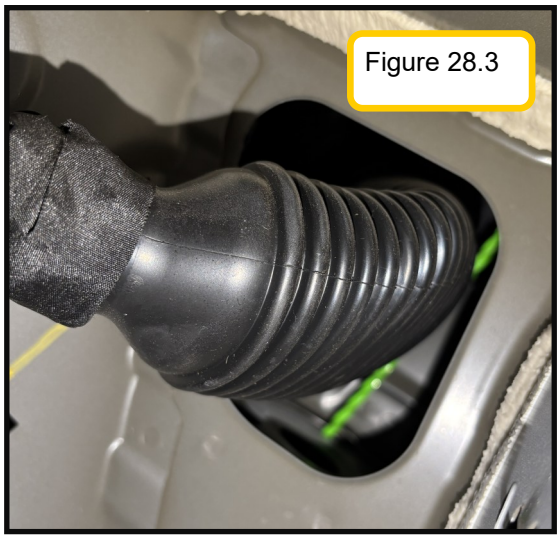

Figure 28.3


Figure 28.4

# Adrian Cap Harness Install Instructions

**1.** Grab the 3-Split Harness (74346, 74347, or 74348) included in this kit. (Green in Figure 29.2)

**2.** Plug the 3-split section of harness into the control harness, and continue routing up the topper. Use the stud mount zip ties to secure the control harness to the screw threads inside the topper frame.

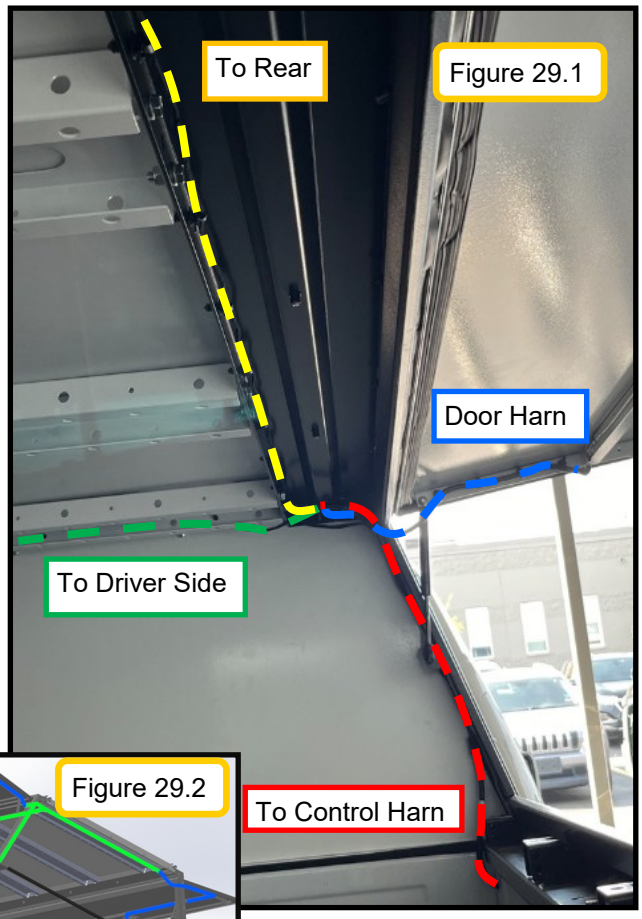
**3.** Once at the top, the harness will split three ways. (red line shows the part before the harness splits). (Fig 29.1)

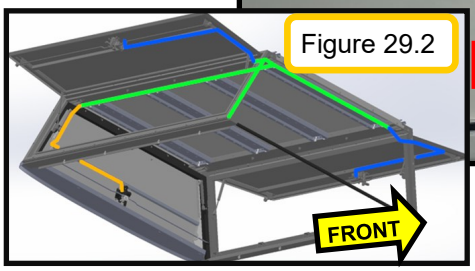
**4.** The shortest end of the 3-split harness will connect directly to the passenger door harness (blue line).

**5.** Use tree cable ties to route the longest end of the 3-split harness to the rear door, going along the black topper support as shown to the right (yellow line) (Fig 29.4).

**6.** Use tree cable ties to route the remaining end of the harness to the driver's side door by going across the topper crossbeam closest top the cab (Figure 29.3).

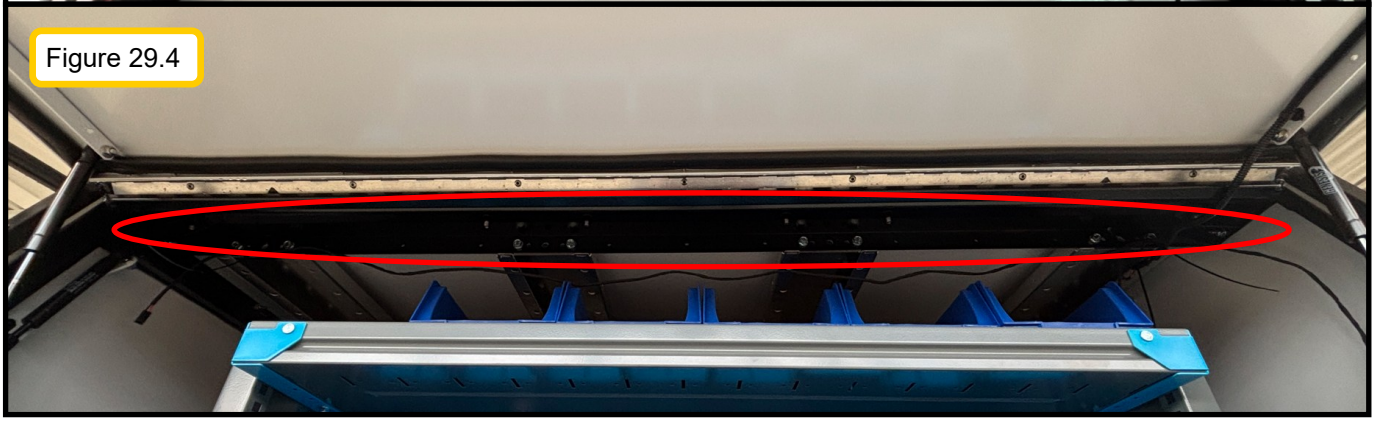
**NOTE:** The rear door will have conflict with the magnet brackets, use the available pre-drilled holes to secure the harness.









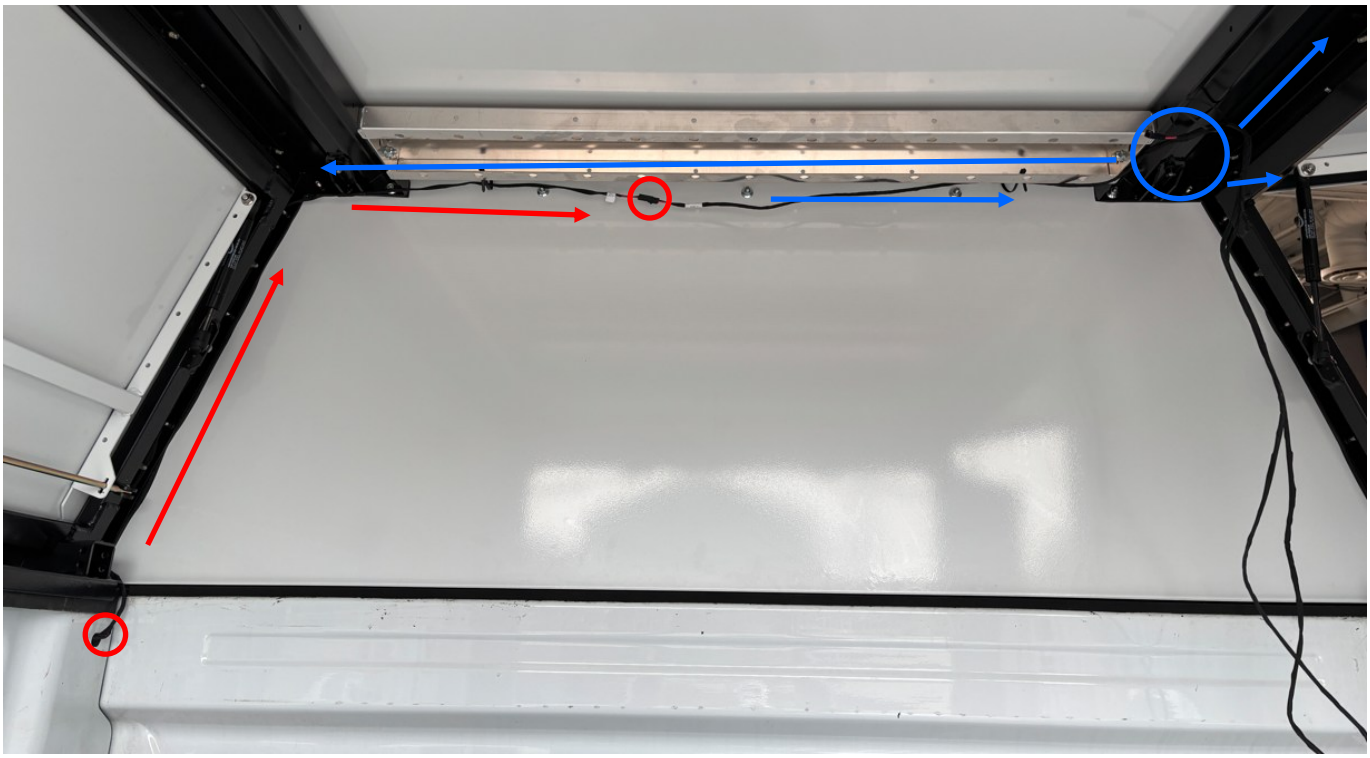
# Adrian Cap Harness Install Instructions

## Silverado - Specific Steps

For Adrian Caps with hatch rear doors, Silverado E-Lock kits (TELH) will route through the cap mirrored to the rest of the vehicles. The control harness will come up the front, driver- side topper pillar, and the routing will go across the topper to the passenger side door, and to the rear door on the driver side.

For Adrian Caps with barn / walk-in doors, Silverado ICE and Hybrid E-Lock kits (TELB) will utilize an additional harness, 77195 Adrian Cap E-Lock Extension Harness, to connect between the control harness and the 3-split harness as shown in the overall harness diagram on page 3. Follow the instructions below for installing this additional harness.

Connect the extension harness between the control harness and the 3-split harness (red circles). Route the harness as shown below (red arrows) and use the included stud-mount zip ties to anchor the harness up the pillar like the 3-split harness does normally. Route the 3-split harness like normal (blue arrows) back from the front top passenger-side corner of the topper (blue circle).



**7.** Before routing the door harnesses and with the locks removed, ensure the routing hole in the tube is 5/8”. If it is not, use a 5/8” drill bit to widen out the hole. This only needs to be done on the hole the harness will be routed through. Use a deburring tool to clean up the edges. (Fig 31.1)

**8.** On each door, route the respective harness through the beam’s opening on its left/right sides (depends on the door). (Fig 31.5)

**9.** Feed the harnessing through until the connector end reaches the first pre-drilled hole in the beam. (Fig 31.2)

**10.** Using picks or a small screwdriver, maneuver the connector through the hole so it comes out next to the lock. (Figure 31.3 & 31.4)

**NOTE:** Since the hole is on both sides of the tube, try to push on the connector from the outside of the hole, while using pick tools at the connector to wedge it out.

**WARNING:** These connectors are small, so they can be delicate. Take care to use minimal force when manipulating them through the hole.

Figure 31.1

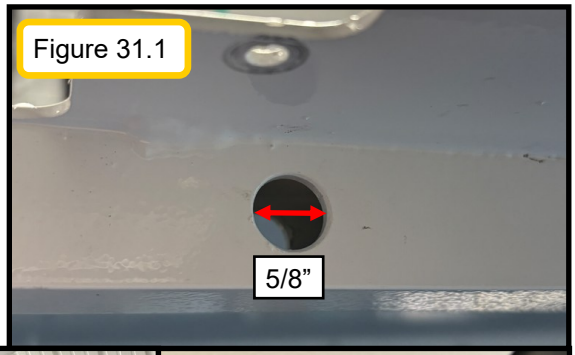



Figure 31.2



Figure 31.3

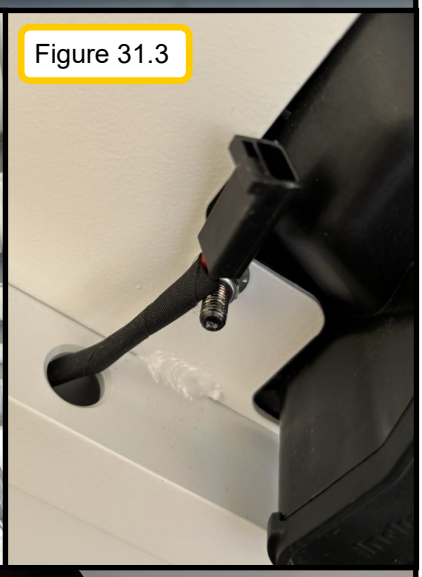


Figure 31.4

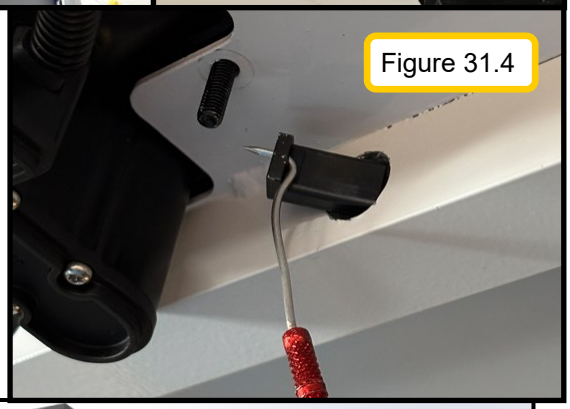
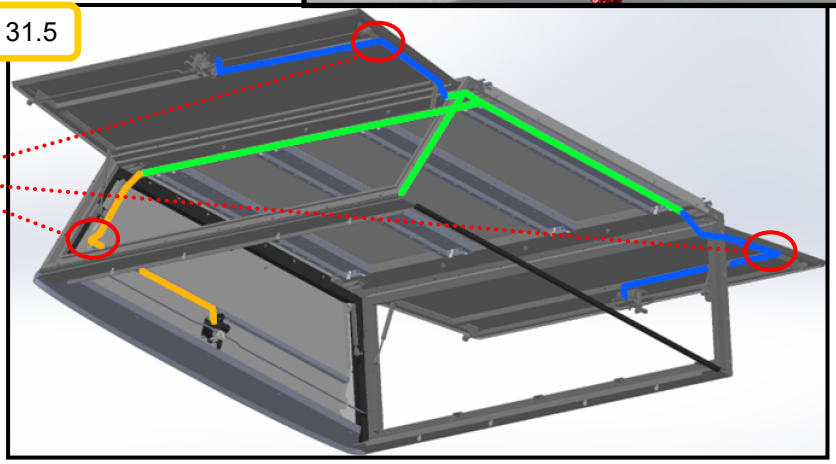


Figure 31.5





**11.** Install the E-locks using [4] 8mm nuts (FAS0917), add the P-clip included in the door harness bag to the lock harness as shown in fig 32.2, and secure the locking rods themselves using [2] 10mm nuts (FAS0918). (Fig 32.1)

****TORQUE ALL NUTS TO 2.2Nm****

**12.** Plug in the E-Lock harness into the door harness and guide the connectors through the hole back into the tube until the grommet is able to be stuck into the hole.

**NOTE:** Try pulling gently on the other end of the door harness to pull the connectors back into the tube.

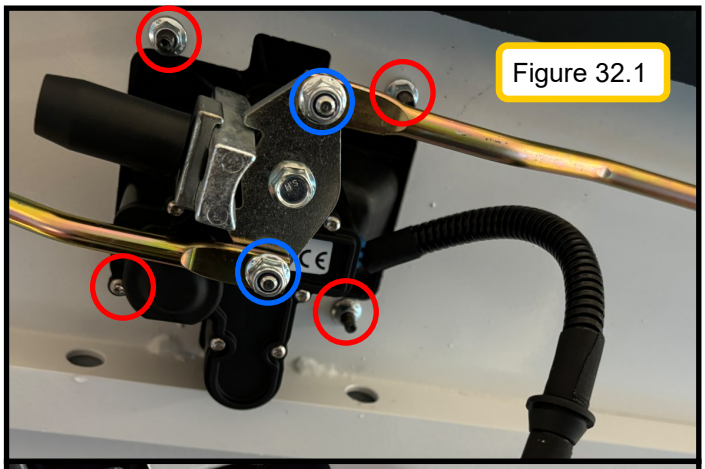
**NOTE:** The wires going into both connectors may not match, but as long as the connectors lock together that is the important part

**WARNING:** These connectors are small, so they can be delicate. Take care to use minimal force when manipulating them through the hole.

**13.** The grommet is designed to be squished into place. Use a small dull screwdriver or plastic blade to press the angled piece of the blade through the hole, leaving the larger section outside the tube. (Fig 32.2)

**14.** Stuff the other end of the door harness into the tube up to the grommet. (Fig 32.3)

**15.** Secure the harness up the door with Christmas tree zip ties along the inside of the door shock. (Fig 32.4 & 32.5)


Figure 32.1

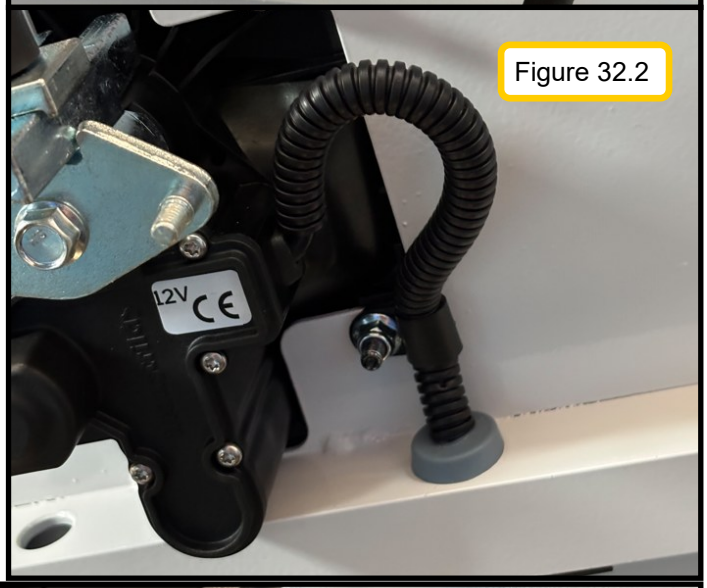
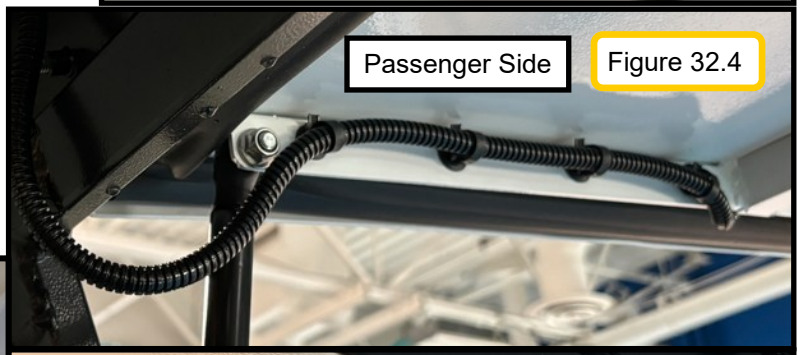
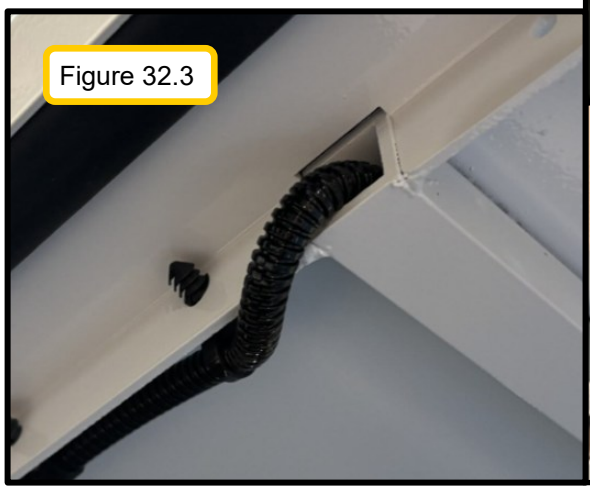
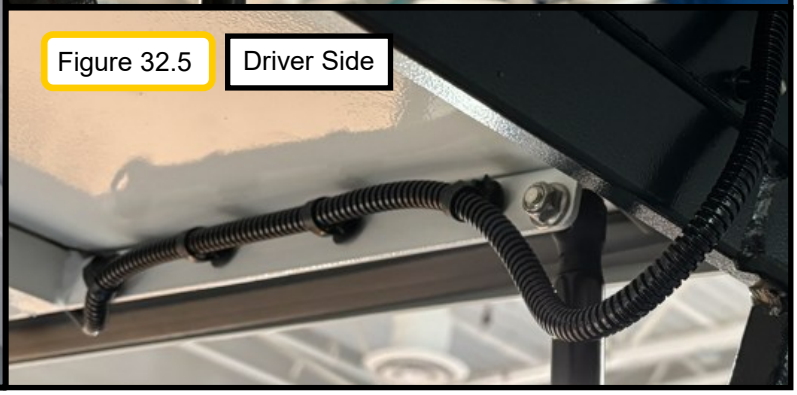


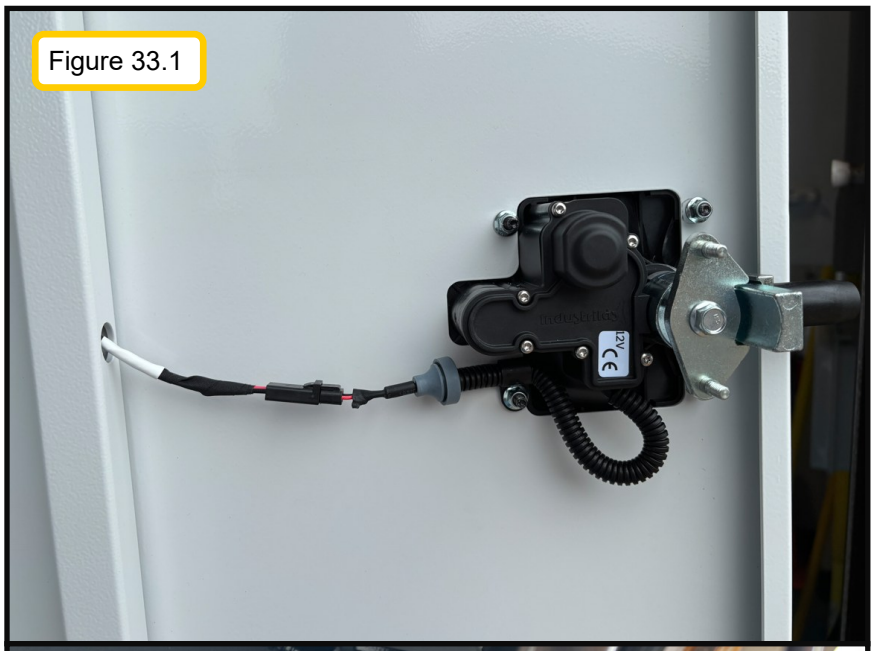
Figure 32.2


Passenger Side
Figure 32.4


Figure 32.3


Figure 32.5
Driver Side

**16.** If the Adrian Cap has the barn door / walk-in topper, install the rear lock as shown. Use the P-clip in the same way as the side doors, and secure the E-Lock harness to the lower left lock mounting stud. (fig 33.1)

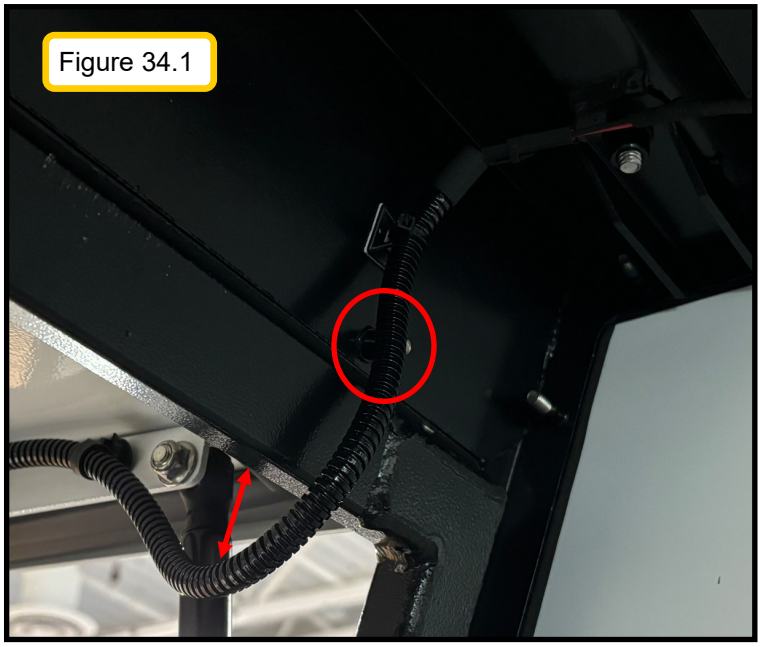

Figure 33.1

**17.** Route the rear door harness behind the shock , along the upper rail, and down into the square tube similar to the hatch door routing.
(fig 33.2 & 33.3)


Figure 33.2


Figure 33.3

**18.** Plug the door harness into the 3-Split harness and use a stud-mount style zip tie included in the harness bag to secure the harness to the inside of the topper. Make sure to keep enough slack in the door harness so there's at least 1" free hanging clearance between the topper frame and the harness. (Fig 34.1 & 34.2)


Figure 34.1

**19.** Once all three locks and door harnesses are installed, test functionality of the locks. Open the handles on the locks and notice the small metal T-shaped pin underneath.

- Lock the vehicle, and the metal pin on each lock should turn 90 degrees into the horizonal position.

- Unlocking the vehicle should return the pin to its original vertical orientation.

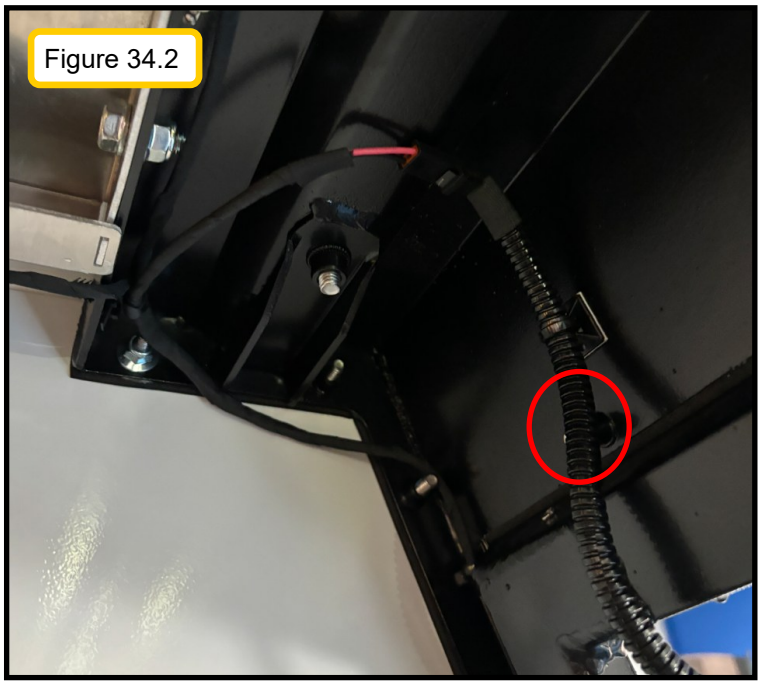
- If the pins don't turn, or turn opposite of where they should, refer to pg. 11 for troubleshooting notes.

**20.** Secure any loose wiring under kick plates and behind the knee bolsters.

**21.** Secure any excess underbody wiring using zip ties. (Fig 27.1—27.3)

**22.** Reinstall the trim panels and clean up the vehicle.

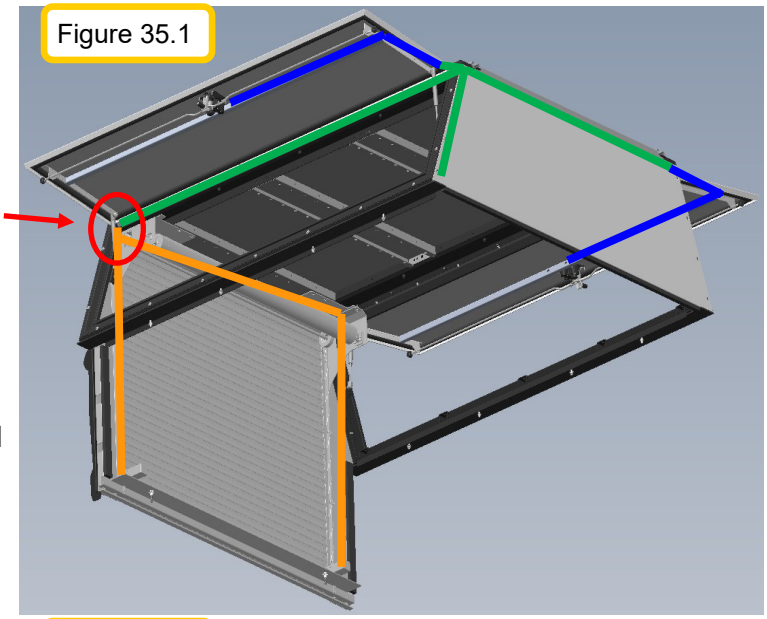
**INSTALL COMPLETE**


Figure 34.2

## Roll-up Door Topper Only

Connect the 80678 E-Lock Roll-up Door Harness to the 3 Split Harness at the rear of the Topper by the Roll-up Door. Figure 35.1

Figure 35.1

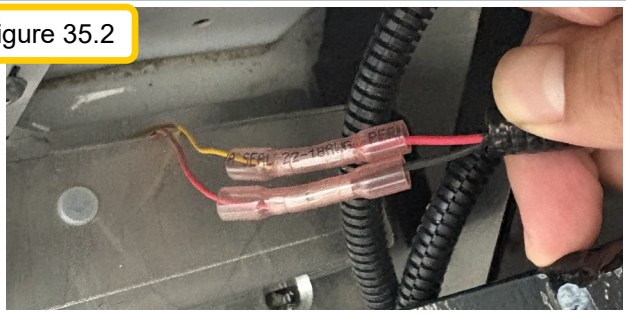


Route the shorter leg of the harness straight down to be connected to the E-lock via butt-splice connectors.

Route the longer leg over and across the Roll-up Door then down the other side to be connected to the E-lock via butt-splice connectors. Figure 35.2

| 80678 | | E-Lock |
|---|---|---|
| RED | —> | YELLOW |
| BLACK | —> | RED |

Figure 35.2



You may need to coil up extra harness as shown in Figure 35.3

Ensure butt-spliced are heated to be sealed.

Using the provided key for the Roll-up Door, ensure that the lock is in the position shown in Figure 35.4.

**IF KEY IS NOT TURNED TO PROPER POSITION E-LOCKS WILL NOT LATCH**

Figure 35.3



**INSTALL COMPLETE**

Figure 35.4



**Vertical Position: WRONG**



**Horizontal Position: CORRECT**

| INSTR. NUMBER : 71622 | PG: 1 | REV: W |
|---|---|---|
| PART NUMBER : TFK__T178HM23W | | |
| PART DESC. : ASM INS, TFK__T178HM23W | | |

**NOTE: THESE INSTRUCTIONS ARE VALID FOR ALL TFK FULL TOPPER KITS. A FEW BOM KITS ARE SHOWN FOR REFERENCE ONLY.**

**INSTRUCTIONS SHOWS F-150 BODY DURING INSTALLATION**

**FASTENER AND HOLE COUNTS MAY BE DIFFERENT BETWEEN TOPPER KITS.**

**E-LOCK VERSIONS:**
**SWAP M WITH E IN PART NUMBER**
**EXAMPLE: TFKFDT178HM23W BECOMES TFKFDT178HE23W**

**BOM FOR 6.5' F-150**

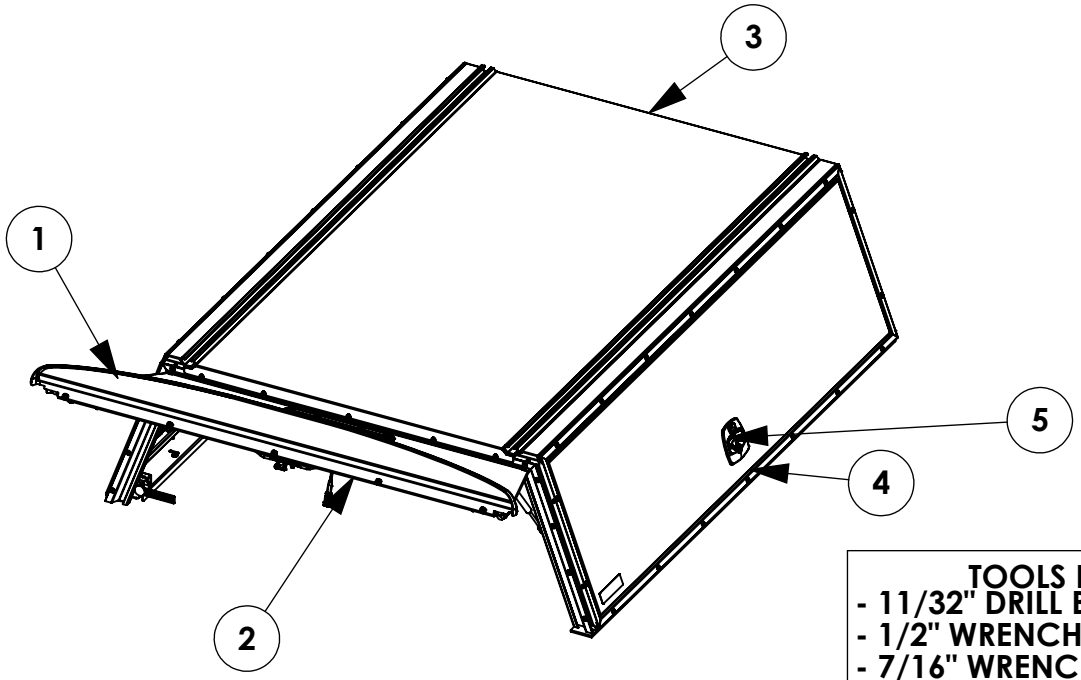
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK78M23W | TOP, SIDE KIT,78",M,23,W | 2 |
| 2 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 3 | TRK7823W | TOP, ROOF KIT,78",23,W | 1 |
| 4 | THKFDT178M23 | HDW KIT, TFKFDT178HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH05**

**BOM FOR 6.5' SILVERADO 1500**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK78M23W | TOP, SIDE KIT,78",M,23,W | 2 |
| 2 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 3 | TRK7823W | TOP, ROOF KIT,78",23,W | 1 |
| 4 | THKGMT178M23 | HDW KIT, TFKGMT178HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |
| 19 | 81552-W | INTERIOR, LGT MAG BRKT, WHITE | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH02**




**TOOLS NEEDED:**
- **11/32" DRILL BIT**
- **1/2" WRENCH & SOCKET**
- **7/16" WRENCH**
- **M10 SOCKET**
- **M8 SOCKET**
- **M4 ALLEN**
- **3/16" ALLEN**
- **5/32" ALLEN**
- **DRIVE RATCHET / IMPACT**
- **SCISSORS**
- **TAPE MEASURE**
- **ALIGNMENT PUNCH**
- **1/4" RIVET TIP**

| INSTR. NUMBER : 71622 | PG: 2 | REV: W |
|---|---|---|
| PART NUMBER : TFK__T178HM23W | | |
| PART DESC. : ASM INS, TFK__T178HM23W | | |

**E-LOCK VERSIONS:**
**SWAP M WITH E IN PART NUMBER**
**EXAMPLE: TFKFDT178HM23W**
**BECOMES TFKFDT178HE23W**

**BOM FOR 6.3' RAM**

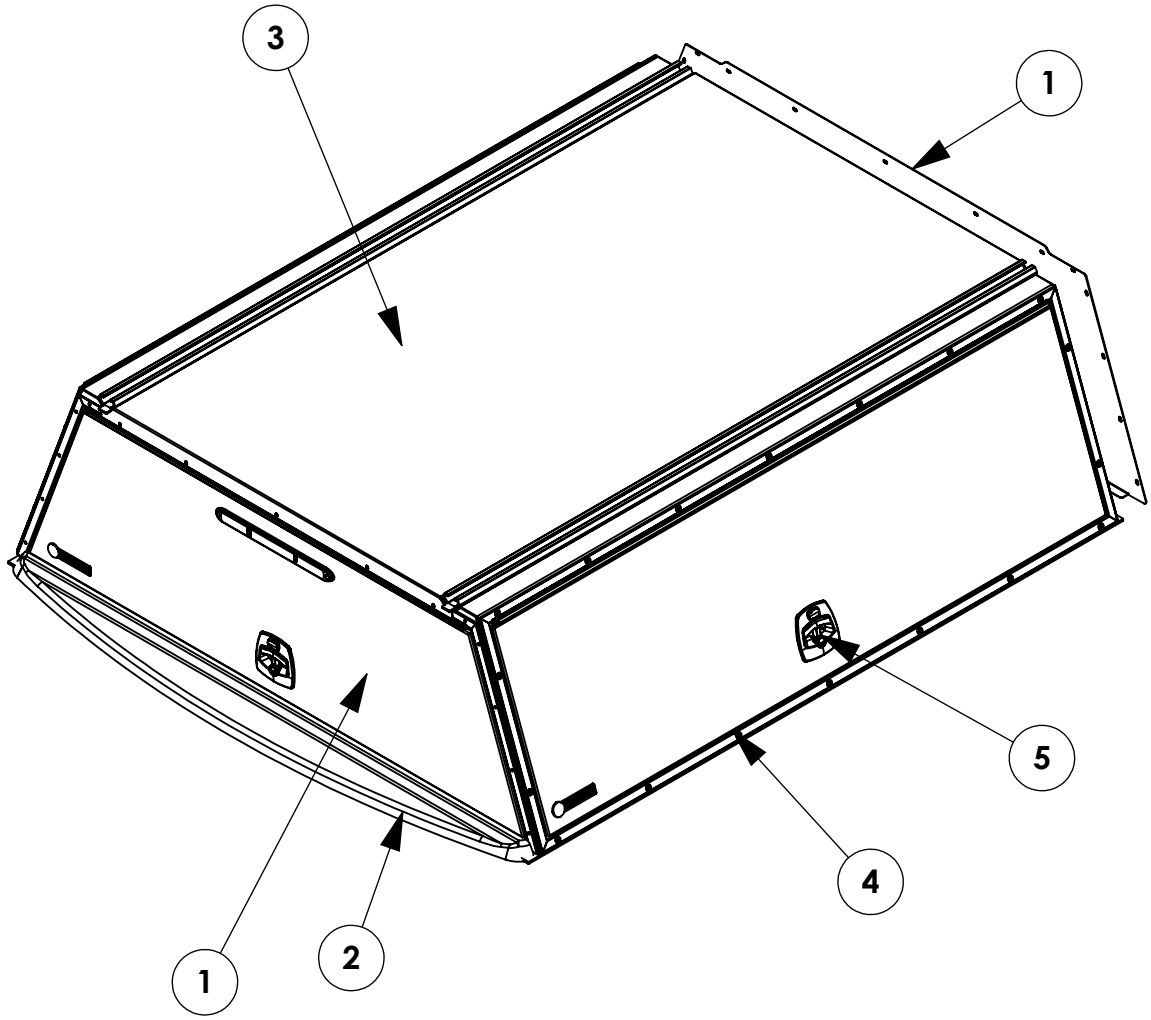
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 2 | THKRAM175M23 | HDW KIT, TCKRAMT175HM23W | 1 |
| 3 | TRK7523W | TOP, ROOF PANEL KIT, RAM | 1 |
| 4 | TSK75M23W | TOP, SIDE KIT, 78" RAM | 2 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH02**

**BOM FOR 5.7' RAM**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK66M23W | TOP, SIDE KIT,66",M,23,W | 2 |
| 2 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 3 | TRK6623W | TOP, ROOF KIT,66",23,W | 1 |
| 4 | THKRAM167M23 | HDW KIT, TFKRAM167HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH01**



| INSTR. NUMBER : 71622 | PG: 3 | REV: W |
|---|---|---|
| PART NUMBER : TFK__T196HM23W | | |
| PART DESC. : ASM INS, TFK__T178HM23W | | |

**E-LOCK VERSIONS:**
**SWAP M WITH E IN PART NUMBER**
**EXAMPLE: TFKFDT178HM23W**
**BECOMES TFKFDT178HE23W**

**BOM FOR 8.0' 23" TALL FORD F-150, F-250, F-350**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK96M23W | TOP, SIDE KIT,96",M,23,W | 2 |
| 2 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 3 | TRK9623W | TOP, ROOF KIT,96",23,W | 1 |
| 4 | THKFDT196M23 | HDW KIT, TFKFDT196HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH06**

**BOM FOR 8.0' 23" TALL SILVERADO 1500, 2500, 3500**

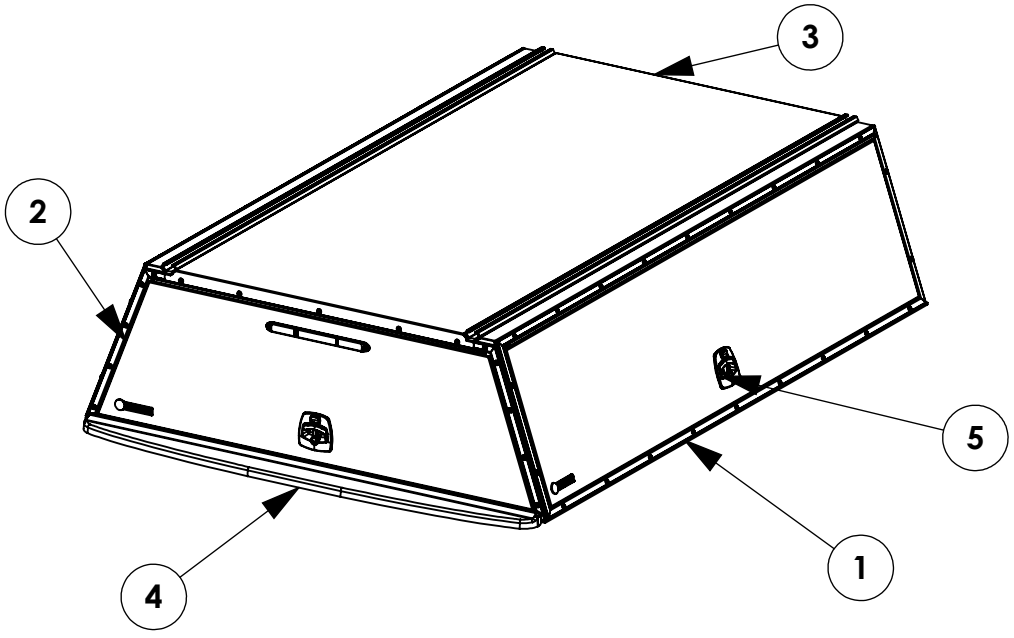
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK96M23W | TOP, SIDE KIT,96",M,23,W | 2 |
| 2 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 3 | TRK9623W | TOP, ROOF KIT,96",23,W | 1 |
| 4 | THKGMT196M23 | HDW KIT, TFKGMT196HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH03**

**BOM FOR 8.0' 23" TALL RAM 1500, 2500, 3500**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK96M23W | TOP, SIDE KIT,96",M,23,W | 2 |
| 2 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 3 | TRK9623W | TOP, ROOF KIT,96",23,W | 1 |
| 4 | THKRAM196M23 | HDW KIT, TFKRAM196HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH03**



| INSTR. NUMBER | PG: | REV: |
|---|---|---|
| 71622 | 4 | W |

PART NUMBER : **TFK__T296HM26W**

PART DESC. : ASM INS, TFK__T178HM23W

**E-LOCK VERSIONS:**
**SWAP M WITH E IN PART NUMBER**
**EXAMPLE: TFKFDT178HM23W**
**BECOMES TFKFDT178HE23W**

**BOM FOR 8.0' 26" TALL FORD F-150, F-250, F-350**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK96M26W | TOP, SIDE KIT,96",M,26,W | 2 |
| 2 | TCK80HM26W | TOP,CLOSE KIT,80",HM263,W | 1 |
| 3 | TRK9623W | TOP, ROOF KIT,96",23,W | 1 |
| 4 | THKFDT296M26 | HDW KIT, TFKFDT296HM26W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH06**

**BOM FOR 8.0' 26" TALL SILVERADO 1500, 2500, 3500**

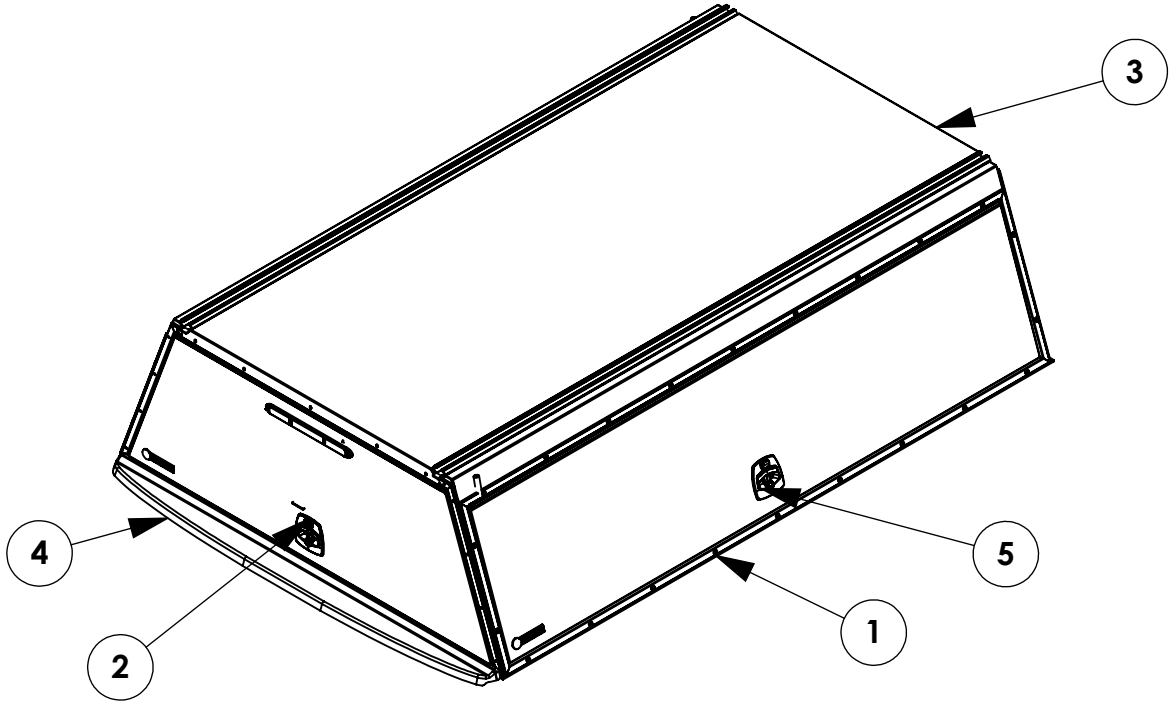
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK96M26W | TOP, SIDE KIT,96",M,26,W | 2 |
| 2 | TCK80HM26W | TOP,CLOSE KIT,80",HM263,W | 1 |
| 3 | TRK9623W | TOP, ROOF KIT,96",23,W | 1 |
| 4 | THKGMT296M26 | HDW KIT, TFKGMT296HM26W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH03**

**BOM FOR 8.0' 26" TALL RAM 1500, 2500, 3500**
**NOTE: SPECIAL ASSEMBLY INSTRUCTION SHOWN ON SHEET 20**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK96M26W | TOP, SIDE KIT,96",M,26,W | 2 |
| 2 | TCK80HM26W | TOP,CLOSE KIT,80",HM263,W | 1 |
| 3 | TRK9623W | TOP, ROOF KIT,96",23,W | 1 |
| 4 | THKRAM296M26 | HDW KIT, TFKRAM296HM26W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH03**



| INSTR. NUMBER | PG: | REV: |
|---|---|---|
| 71622 | 5 | W |

PART NUMBER : **TFKFDT166HM23W**

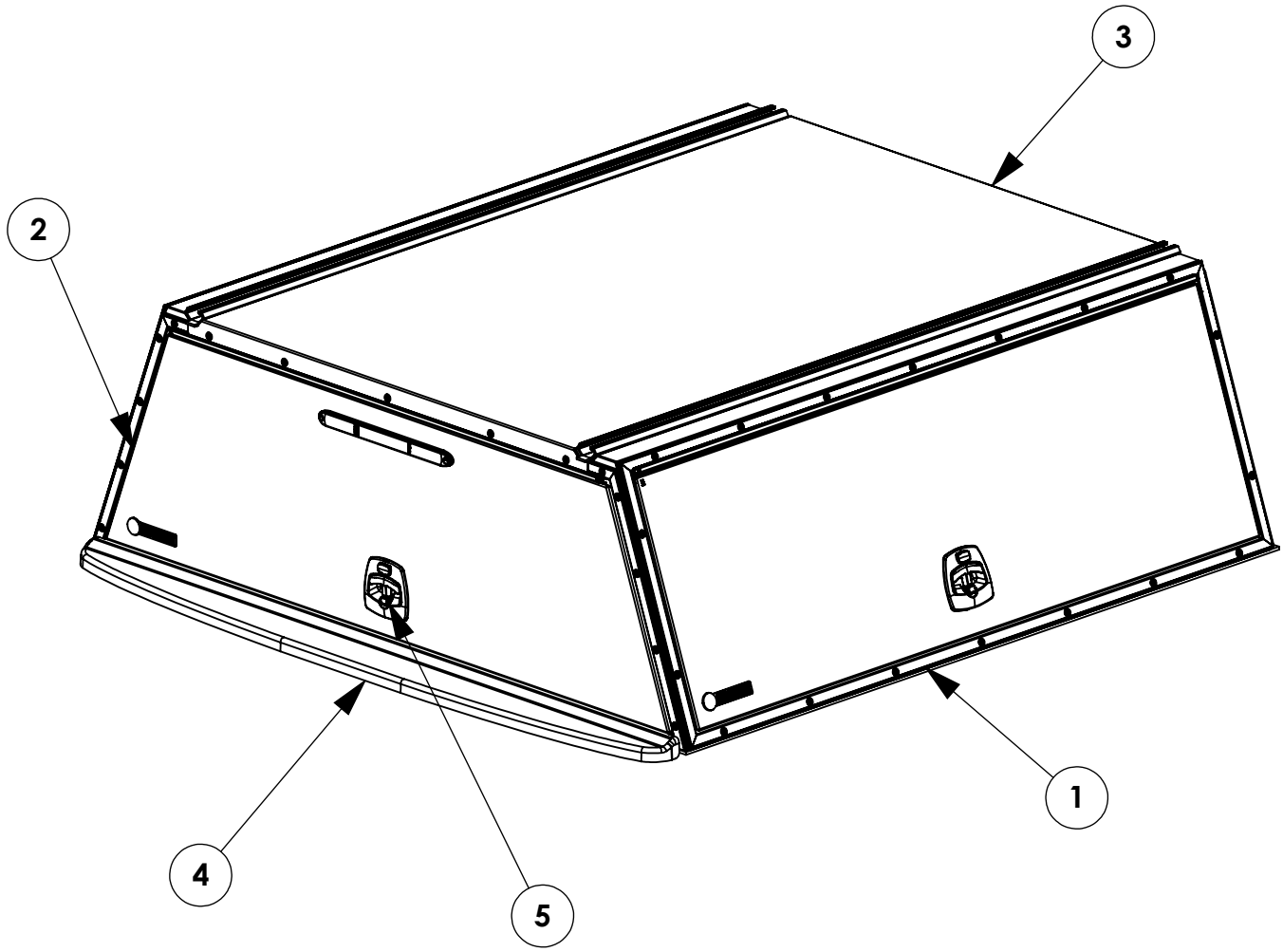
PART DESC. : ASM INS, TFK__T178HM23W

**E-LOCK VERSION: TFKFDT166HE23W**

**BOM FOR 5.5' 23" TALL FORD F-150 LIGHTNING/ICE**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK66M23W | TOP, SIDE KIT,66",M,23,W | 2 |
| 2 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 3 | TRK6623W | TOP, ROOF KIT,66",23,W | 1 |
| 4 | THKFDT166M23 | HDW KIT, TFKFDT166HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH04**



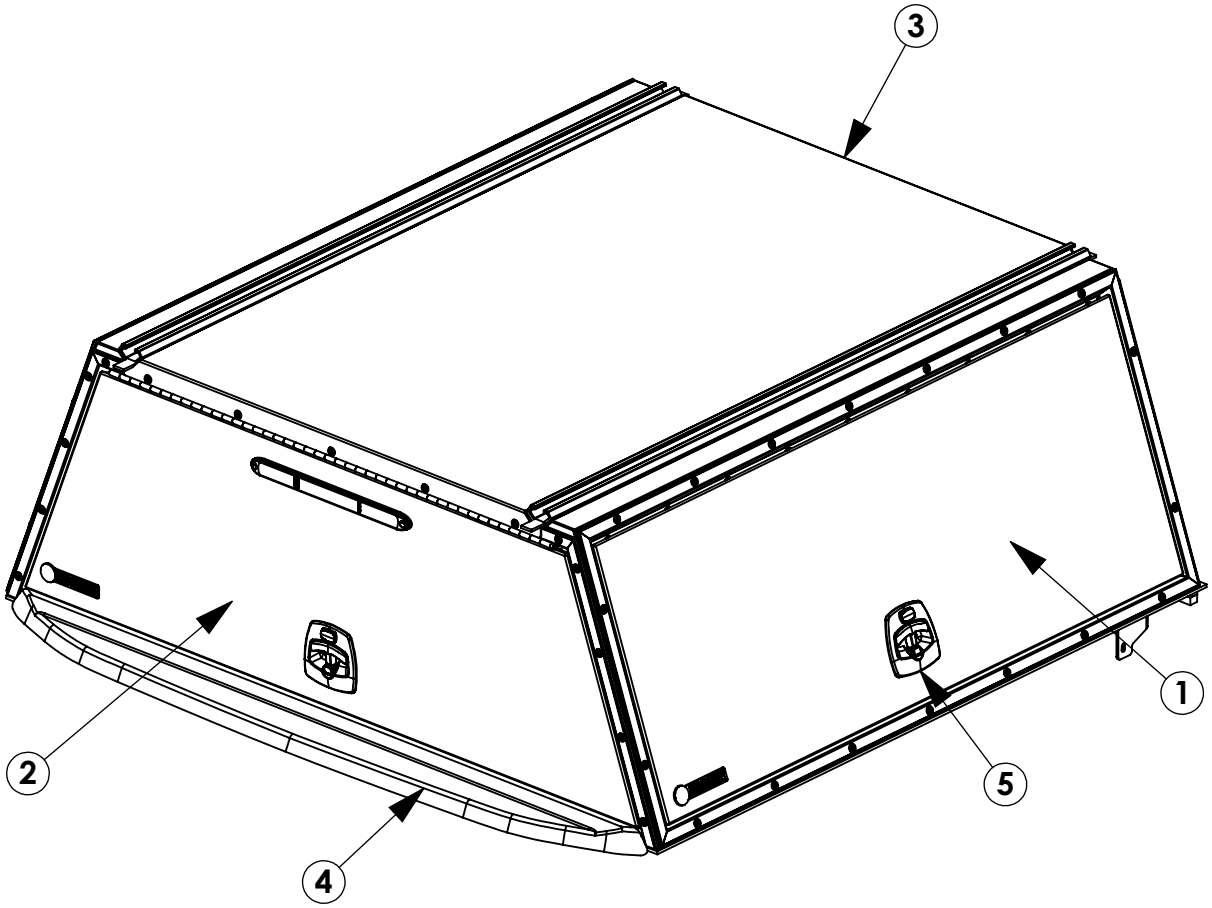
| INSTR. NUMBER : 71622 | PG: 6 | REV: W |
|---|---|---|
| PART NUMBER : TFKRNG160HM23W | | |
| PART DESC. : ASM INS, TFK__T178HE23W | | |

**BOM FOR 5' FORD RANGER**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSKRNG60M23W | TOP, SIDE KIT,60", RANGER,M,23,W | 2 |
| 2 | TCK72HM23W | TOP,CLOSE KIT,72",HM23,W | 1 |
| 3 | TRK6023W | TOP, ROOF KIT,60",23,W | 1 |
| 4 | THKRNG160M23 | HDW KIT, TFKNFT172HM23W | 1 |
| 5 | TMLHK | TOPPER MECHANICAL LOCK HATCH KIT | 1 |

**E-LOCK VERSION: TFKRNG160HE23W**

*** E-LOCK VERSION SWAP TMLHK WITH TELH04**



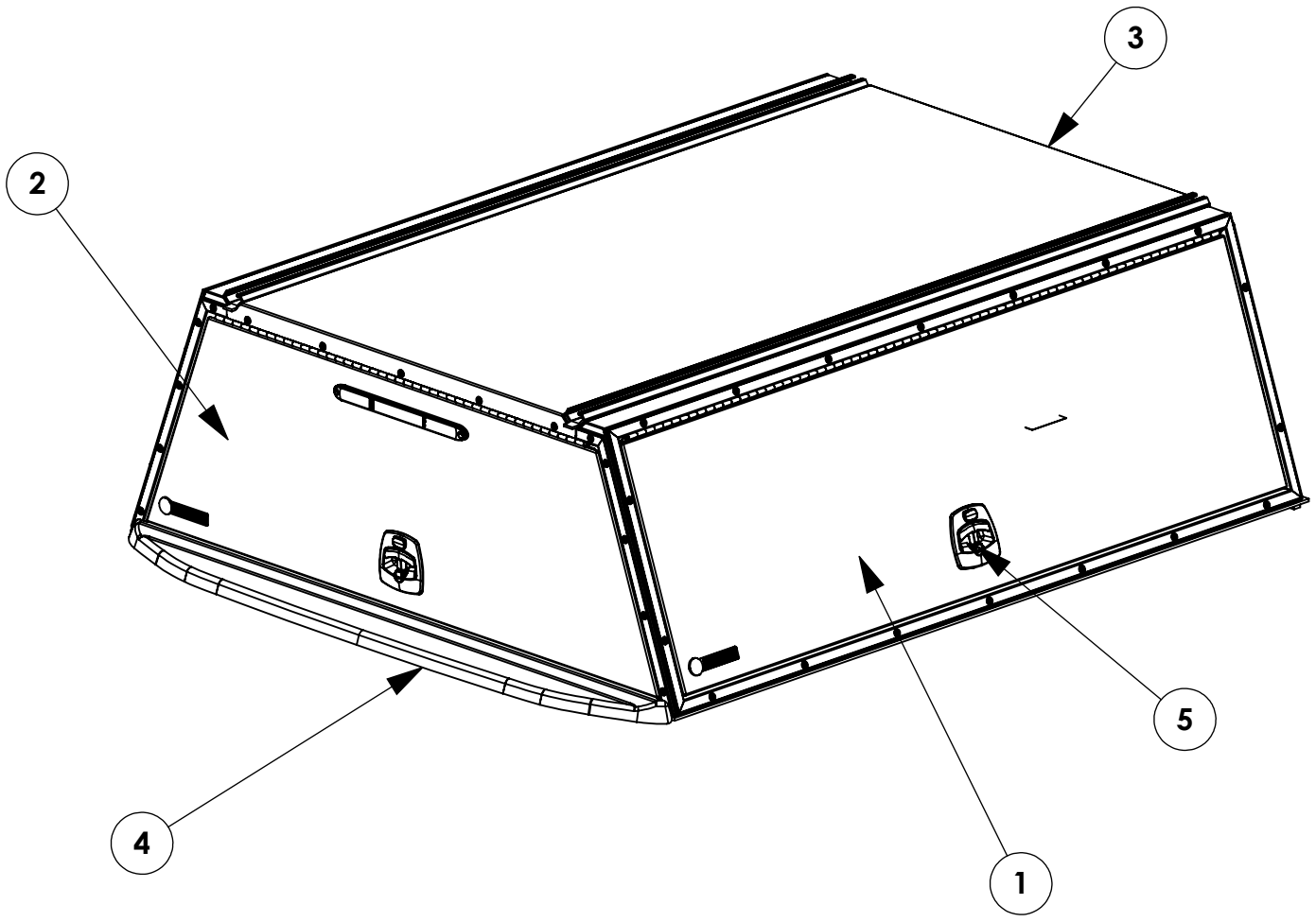
| INSTR. NUMBER : 71622 | PG: 7 | REV: W |
|---|---|---|
| PART NUMBER : TFKNFT172HM23W | | |
| PART DESC. : ASM INS, TFK__T178HM23W | | |

**E-LOCK VERSION: TFKNFT172HE23W**

**BOM FOR 6.0' 23" TALL NISSAN FRONTIER**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK72M23W | TOP, SIDE KIT,72",M,23,W | 2 |
| 2 | TCK72HM23W | TOP,CLOSE KIT,72",HM23,W | 1 |
| 3 | TRK7223W | TOP, ROOF KIT,72",23,W | 1 |
| 4 | THKNFT172M23 | HDW KIT, TFKNFT172HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH05**



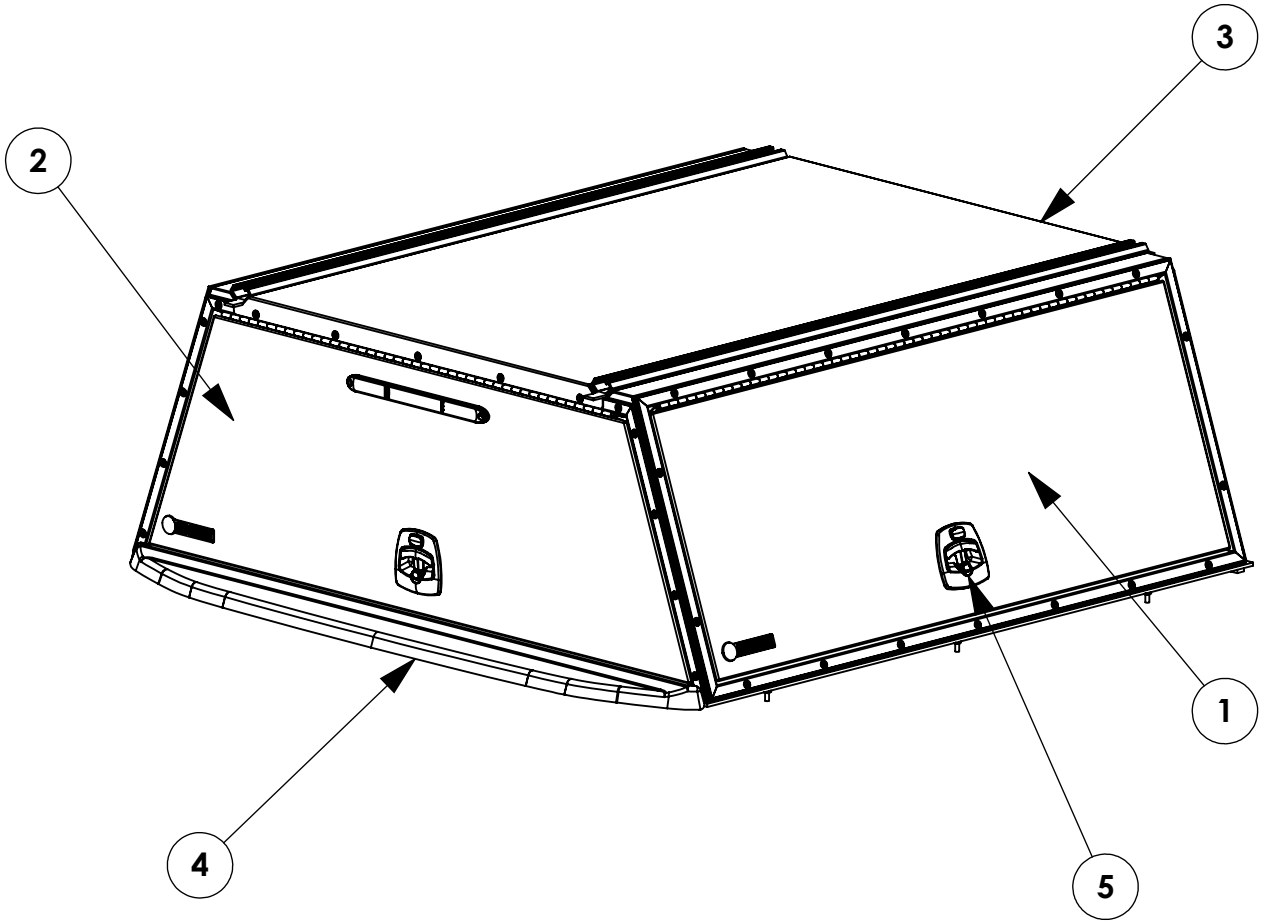
| INSTR. NUMBER : 71622 | PG: 8 | REV: W |
|---|---|---|
| PART NUMBER : TFKNFT160HM23W | | |
| PART DESC. : ASM INS, TFK__T178HM23W | | |

**E-LOCK VERSIONS:**
**SWAP M WITH E IN PART NUMBER**
**EXAMPLE: TFKFDT178HM23W**
**BECOMES TFKFDT178HE23W**

**BOM FOR 5.0' 23" TALL NISSAN FRONTIER**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK60M23W | TOP, SIDE KIT,60",M,23,W | 2 |
| 2 | TCK72HM23W | TOP,CLOSE KIT,72",HM23,W | 1 |
| 3 | TRK6023W | TOP, ROOF KIT,60",23,W | 1 |
| 4 | THKNFT172M23 | HDW KIT, TFKNFT172HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

*** E-LOCK VERSION SWAP TMLHK WITH TELH04**



| INSTR. NUMBER : 71622 | PG: 9 | REV: W | BOM FOR 5.1' 23" TALL COLORADO |
|---|---|---|---|

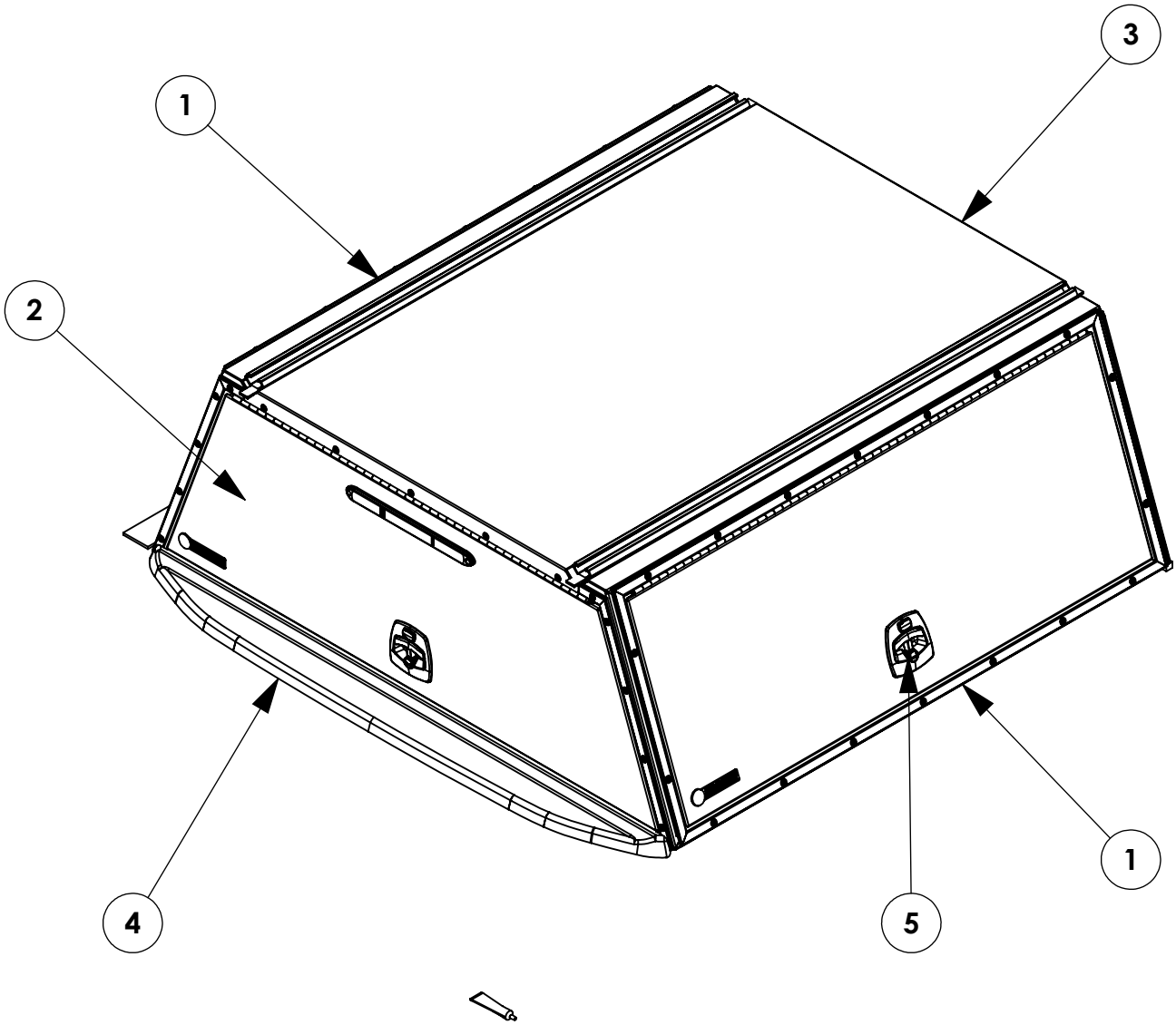
PART NUMBER : **TFKNFT160HM23W**

PART DESC. : ASM INS, TFK__T178HM23W

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSKCOL60M23W | TOP, SIDE KIT,60",M,23,W | 2 |
| 2 | TCK72HM23W | TOP,CLOSE KIT,72",HM23,W | 1 |
| 3 | TRK6123W | TOP, ROOF KIT,61",23,W | 1 |
| 4 | THKCOL60M23 | HDW KIT, TFKCOL160HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

**E-LOCK VERSIONS:**
**SWAP M WITH E IN PART NUMBER**
**EXAMPLE: TFKFDT178HM23W**
**BECOMES TFKFDT178HE23W**

*** E-LOCK VERSION SWAP TMLHK WITH TELH04**



| INSTR. NUMBER | PG: | REV: |
|---|---|---|
| 71622 | 10 | W |

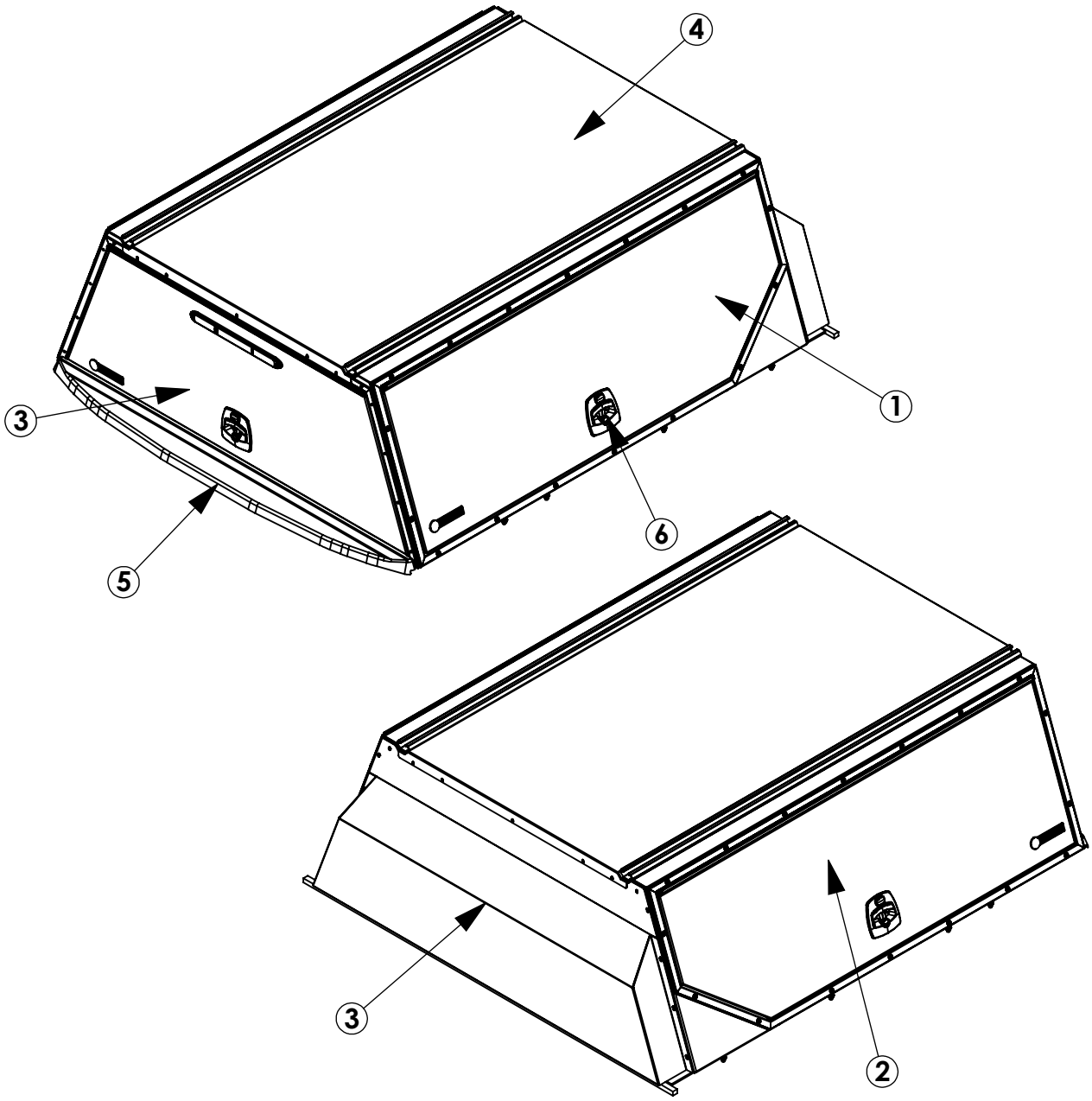
PART NUMBER : **TFKGME169HM23W**

PART DESC. : ASM INS, TFKGME169HM23W

**E-LOCK VERSIONS:**
**SWAP M WITH E IN PART NUMBER**
**EXAMPLE: TFKFDT178HM23W**
**BECOMES TFKFDT178HE23W**

**BOM FOR 69" 23" TALL SILVERADO EV 1500**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK69M23WPS | TOP, SIDE KIT,SILVERADO EV, 69", PS | 1 |
| 2 | TSK69M23WDS | TOP, SIDE KIT,SILVERADO EV, 69",DS | 1 |
| 3 | TCKGMEHM23W | TOP,CLOSE KIT,SILVERADO EV,HM23,W | 1 |
| 4 | TRKGME6923W | TOP, ROOF KIT,69",23,W | 1 |
| 5 | THKGME169M23 | HDW KIT, TFKGME169HM23W | 1 |
| 6 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |



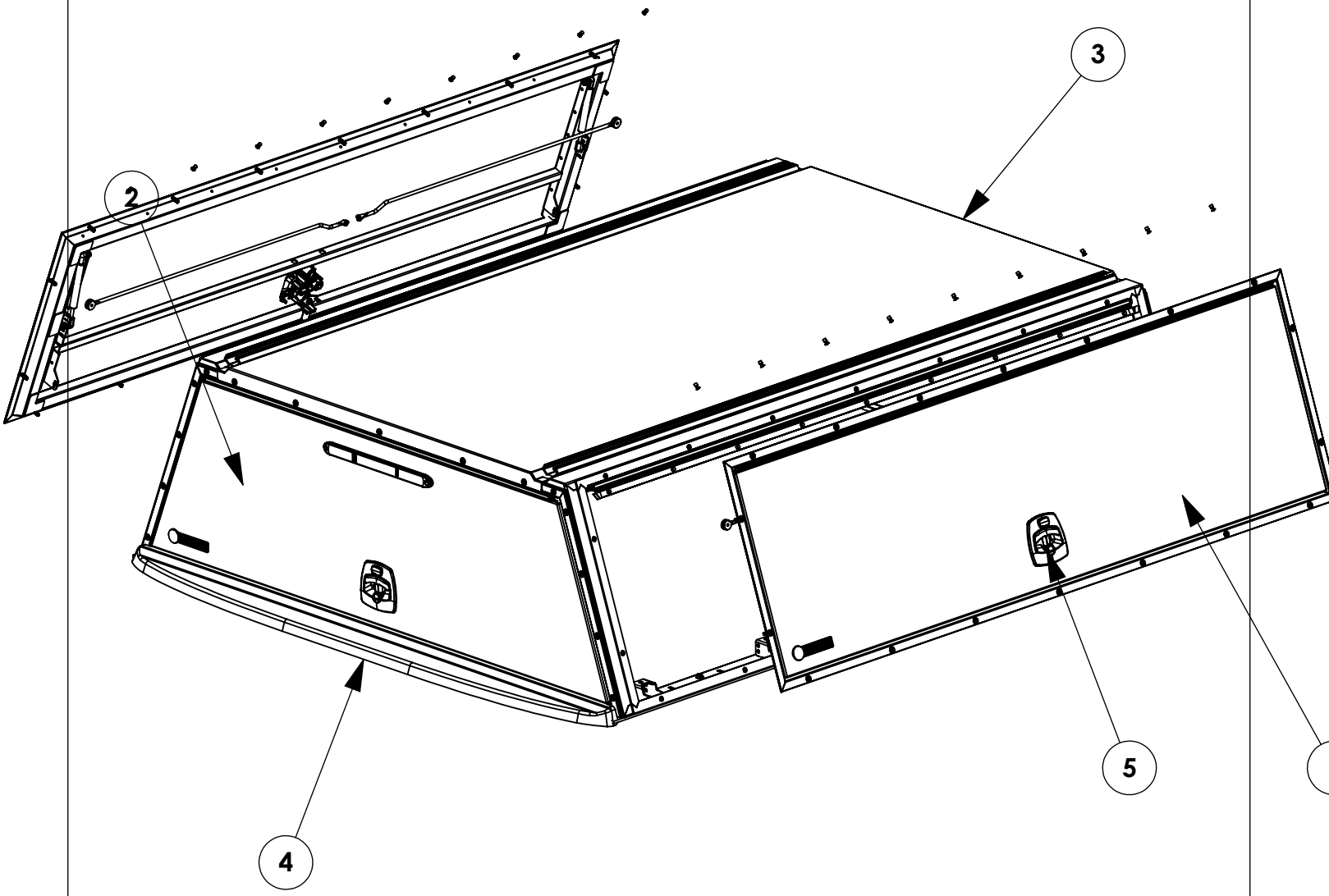
| INSTR. NUMBER : 71622 | PG: 11 | REV: W |
|---|---|---|
| PART NUMBER : TFKGMT280HM23W | | |
| PART DESC. : ASM INS, TFK__T178HM23W | | |

**BOM FOR 80" 23" TALL SILVERADO 2500, 3500**

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK80M23W | TOP, SIDE KIT,80",M,23,W | 2 |
| 2 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 3 | TRK8026W | TOP, ROOF KIT,80",26,W | 1 |
| 4 | THKGMT280M23 | HDW KIT, TFKGMT280HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

**E-LOCK VERSIONS:**
**SWAP M WITH E IN PART NUMBER**
**EXAMPLE: TFKFDT178HM23W**
**BECOMES TFKFDT178HE23W**

*** E-LOCK VERSION SWAP TMLHK WITH TELH03**



| INSTR. NUMBER | PG: | REV: |
|---|---|---|
| 71622 | 12 | W |

PART NUMBER : **TFKGMT170HM23W**

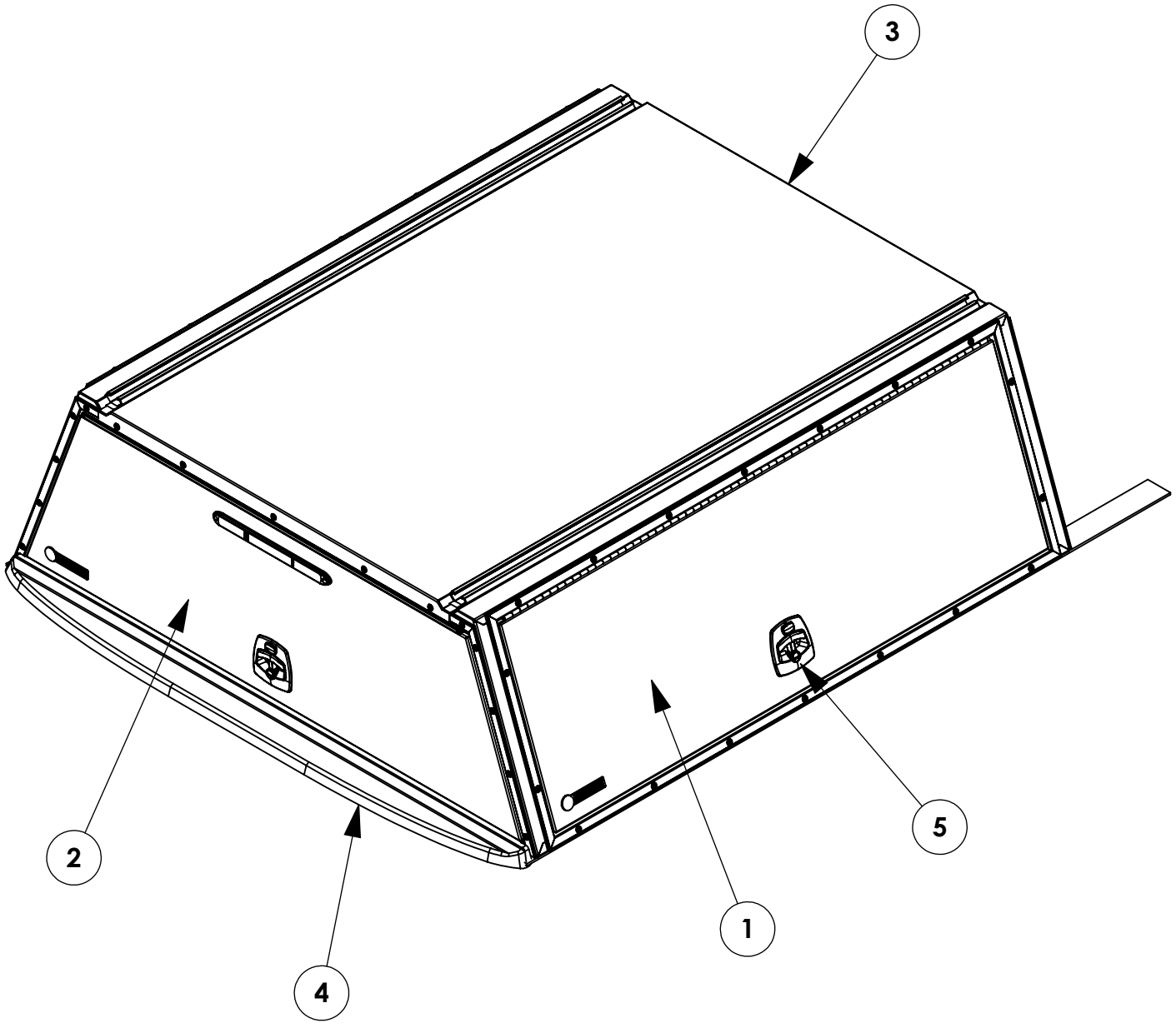
PART DESC. : ASM INS, TFK__T178HM23W

## BOM FOR 70" 23" TALL SILVERADO 1500

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TSK70M23W | TOP, SIDE KIT,70",M,23,W | 2 |
| 2 | TCK78HM23W | TOP,CLOSE KIT,78",HM23,W | 1 |
| 3 | TRK7023W | TOP, ROOF KIT,70",23,W | 1 |
| 4 | THKGMT280M23 | HDW KIT, TFKGMT280HM23W | 1 |
| 5 | TMLHK | Topper Mechanical Lock Hatch Kit | 1 |

**E-LOCK VERSIONS:**
**SWAP M WITH E IN PART NUMBER**
**EXAMPLE: TFKFDT178HM23W**
**BECOMES TFKFDT178HE23W**

*** E-LOCK VERSION SWAP TMLHK WITH TELH03**



# *BEST PRACTICES*

**GET TO KNOW THE VEHICLE** - AT THE BEGINNING OF ANY INSTALLATION, CHECK THE LOCATION OF THE FUEL TANK, FUEL LINES, BRAKE LINES, HIGH VOLTAGE BATTERIES AND WIRING HARNESSES TO AVOID INJURY OR PROPERTY DAMAGE FROM TOOL CONTACT.

**SEAL ALL EXTERIOR HOLES** - ALL INSTALLATION HOLES SHOULD BE SEALED WITH BUTYL TAPE OR SILICON TO PREVENT WATER AND EXHAUST GASES FROM ENTERING THE VEHICLE.

**CONTROL DRILL DEPTH** - TO AVOID DAMAGE TO THE VEHICLE, USE A DRILL STOP OR CLEARED STEP BIT WHEN DRILLING INSTALLATION HOLES.

**ALWAYS ADD PRIMER** - WHEN ADDING INSTALLATION HOLES BE SURE TO USE A SELF-ETCHING PRIMER TO PREVENT CORROSION, FASTENER FAILURE AND INJURY.

**MOUNTING POINTS MUST HAVE METAL-TO-METAL CONTACT** - USE PROVIDED MOUNTING SPACERS TO ACCOMMODATE FOR VEHICLE FEATURES, CARPET OR SUBFLOORS.

**PROVIDE CLEARANCE FOR SPACERS** - IF THE INSTALLATION VEHICLE CONTAINS A CARPET OR SUBFLOOR, USE A 1-3/16" DIAMETER CARPET CUTTER (P/N: 31183-0) AT ALL MOUNTING LOCATIONS TO OPEN UP ROOM FOR SPACERS.

**CHECK SPACER ORIENTATION** - BE SURE THAT THE INDENT IN THE SPACER COVERS THE PLUSNUT HEAD; THIS ENSURES THE MOST METAL-TO-METAL CONTACT AND REDUCES VIBRATION.

**PLUSNUT INSTALLATION** - A PLUSNUT GUN IS RECOMMENDED FOR PLUSNUT INSTALLATION FOR ITS PRODUCTION SPEED. HOWEVER, A PLUSNUT SETTING TOOL CAN ALSO BE USED (P/N: 22200-0).

**THRU-BOLT CLEARANCE** - WHEN USING A THRU-BOLT AT ANY MOUNTING LOCATION, BE SURE THAT YOUR HOLE HAS 1/16" CLEARANCE.

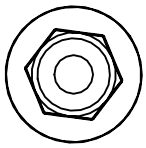
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**BEST PRACTICE: ORGANIZE ALL FASTENERS & VERIFY THAT ALL ARE ACCOUNTED FOR**

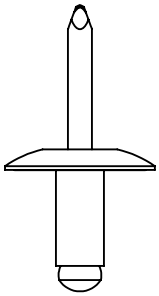
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## *FASTENERS USED*

***BAG REFERENCE:*** **ALL**



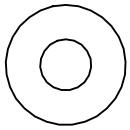
**FAS0055**
**1/4-20 ZP**
**HFLNG NLK NUT**
**QTY: 10**



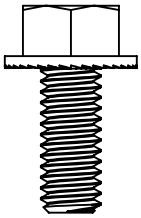
**FAS1014**
**.25X.11GR AL**
**RIVET, BLND**
**QTY: 5**



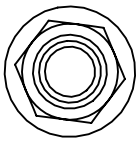
**FAS0919**
**5/16-18 X 1.25 SST**
**BHC SCREW**
**QTY: 10**



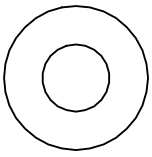
**FAS0234**
**1/4 SST**
**FLAT WASHER**
**QTY: 30**



**FAS0438**
**5/16-18 X .75 ZP**
**HFNLG SCREW**
**QTY: 16**



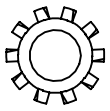
**FAS0440**
**5/16-18 ZP**
**HFLNG NLK NUT**
**QTY: 16**



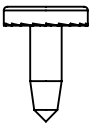
**FAS0552**
**5/16 SST**
**FLAT WASHER**
**QTY: 10**



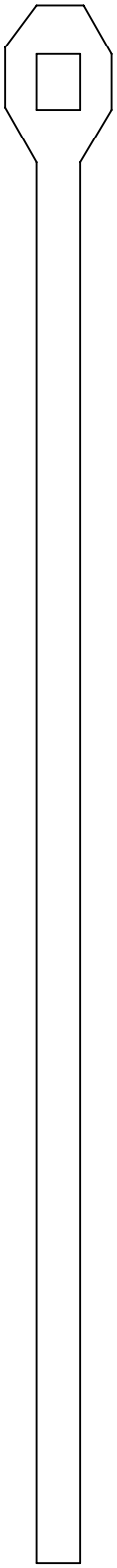
**FAS0940**
**1/4-20 X 1.0 SS NP**
**BHTX SCREW**
**QTY: 30**



**FAS0066**
**1/4 LOCK WASHER**
**EXT. TOOTH**
**QTY: 1**



**FAS0148**
**#10 X 0.5 NI-ZN**
**PH SELF DRILL SCREW**
**QTY: 1**



**78320**
**7.5" STUD MNT**
**CABLE TIE**
**QTY: 5**

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**BEST PRACTICE: ORGANIZE ALL FASTENERS & VERIFY THAT ALL ARE ACCOUNTED FOR**



## *FASTENERS USED*

***BAG REFERENCE:*** **ALL**

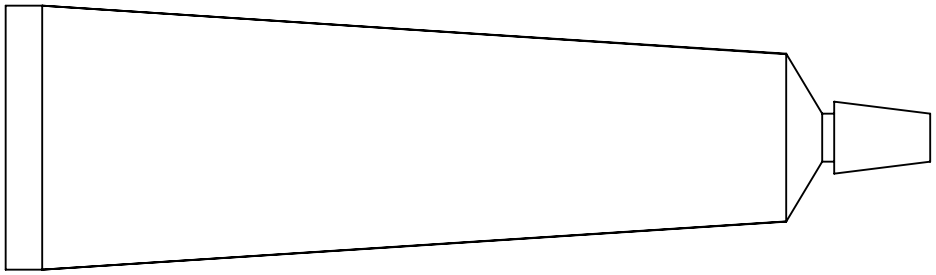


**FAS0164**
**5/16 ALUM**
**FLAT WASHER**
**QTY BAG71794: 0**
**QTY BAG71801: 8**

**FAS0242**
**5/16-18 X 1.5 SST**
**HH SCREW**
**QTY BAG71794: 8**
**QTY BAG71801: 8**

**FAS0248**
**5/16-18 SST**
**HH NLK NUT**
**QTY BAG71794: 8**
**QTY BAG71801: 8**

**FAS0552**
**5/16 SST**
**FLAT WASHER**
**QTY BAG71794: 16**
**QTY BAG71801: 8**

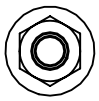


**26618-0**
**1 OZ TUBE**
**SILICONE**
**QTY BAG71794: 2**
**QTY BAG71801: 2**
**QTY THKCOL60M23: 1**

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## *FASTENERS USED*

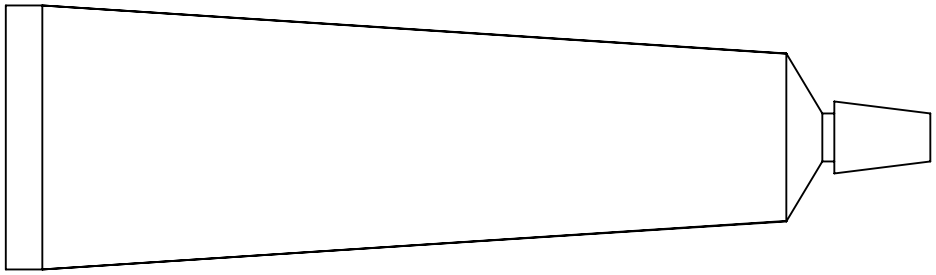
***BAG REFERENCE:*** **BAG76637**



**FAS0917**
**M5 X .8 ZP**
**HFLNG NLK NUT**
**QTY: 12**



**FAS0918**
**10-24 ZP**
**HFLNG NLK NUT**
**QTY: 6**



**26618-0**
**1 OZ TUBE**
**SILICONE**

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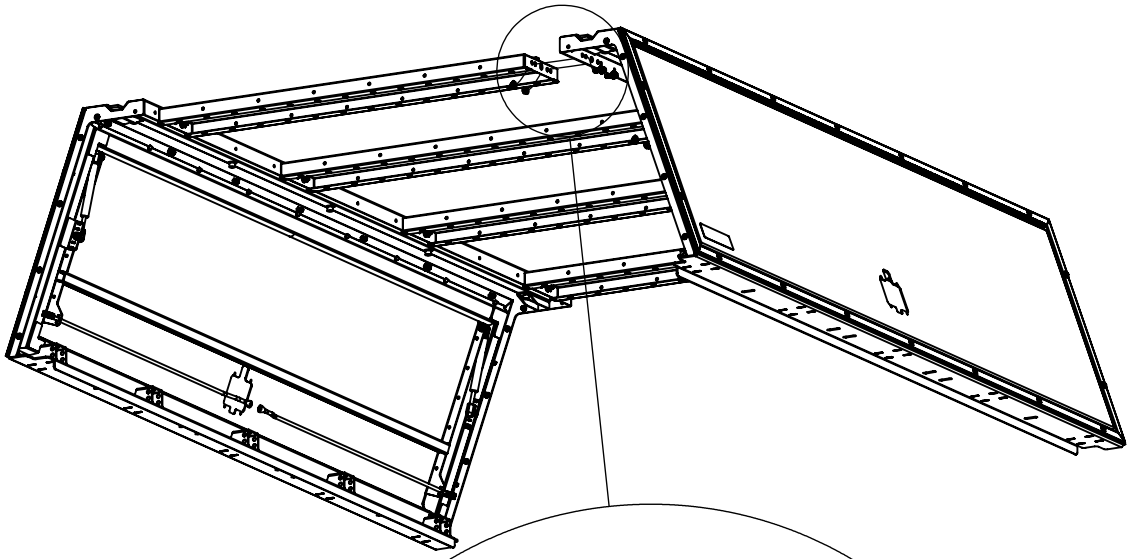
# *STEP 1 - ASSEMBLE BODY FRAME: SIDES AND CROSSBOWS*

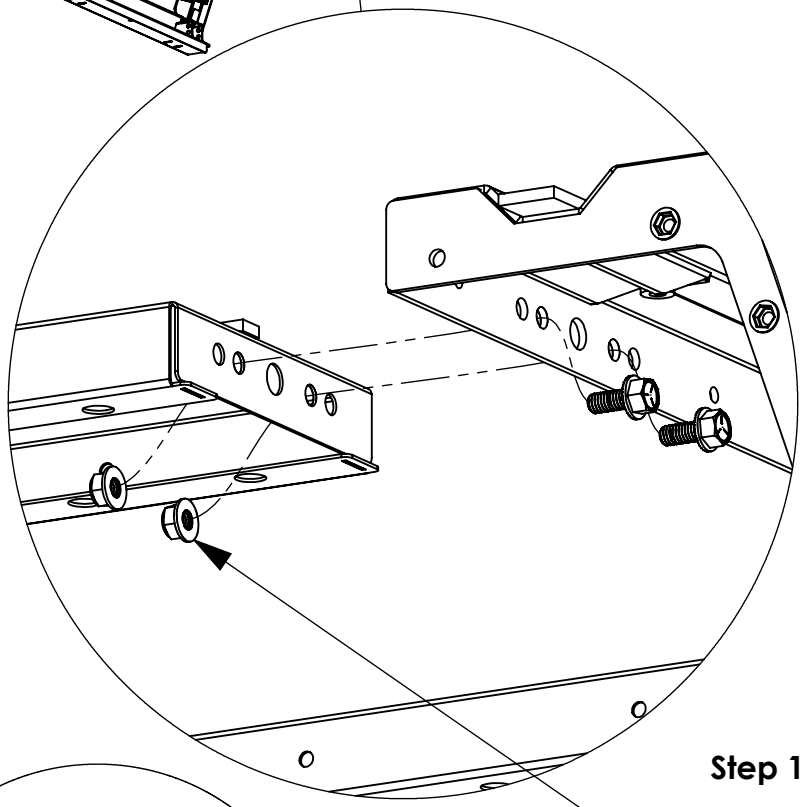
**Step 1.1**
**OPEN [x2] TOPPER SIDE KITS [TSK78M23W]**

**Step 1.2**
**OPEN TOPPER ROOF KIT [TRK7823W]**

**Step 1.3**
**<u>FULLY TIGHTEN</u> FAS0438 AND FAS0440 (16 PLACES)**
**1/2" WRENCH**
**1/2" SOCKET**

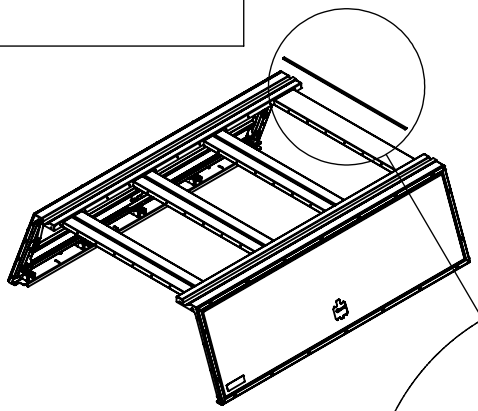
**Step 1.4**
**ADD FOAM STRIP 80402 TO THE MIDDLE OF EACH CROSSBOW (4 PLACES)**

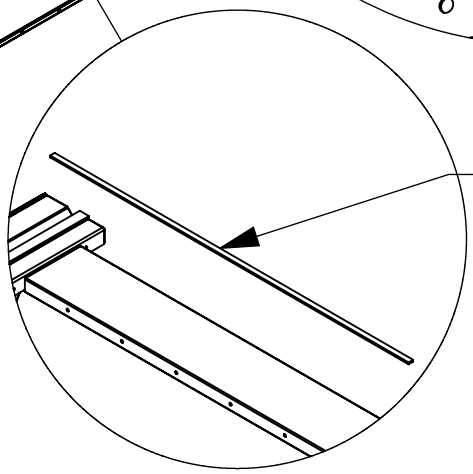




**Step 1.3**

**NOTE: Nut inboard**





**Step 1.4**

# STEP 2 - ATTACH HARDWARE: SIDE DOOR HANDLES, FRONT & REAR SEALS

**Step 2.1**
CUT ZIP TIES THAT ARE HOLDING LOCKRODS IN PLACE.

!! CAUTION !!
DOORS MAY TRY TO OPEN.

**Step 2.2**
ATTACH HANDLE TO DOOR

FULLY TIGHTEN
FAS0917
(4 PER DOOR)
M10 SOCKET

DO NOT OVERTIGHTEN

**Step 2.3**
ATTACH LOCKRODS TO HANDLE

FULLY TIGHTEN
FAS0918
(2 PLACES)
M8 SOCKET

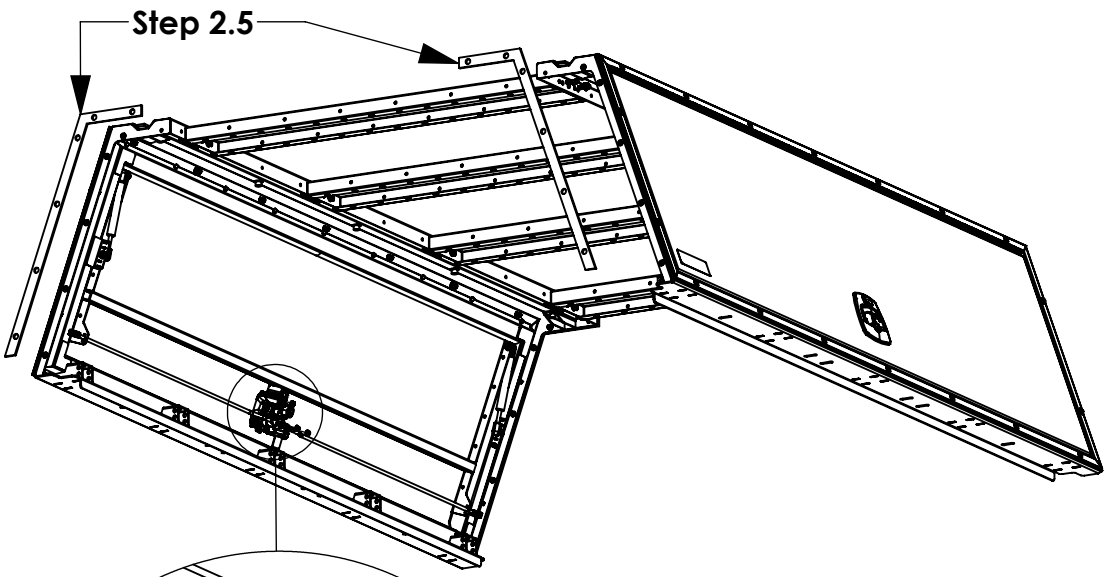
DO NOT OVERTIGHTEN

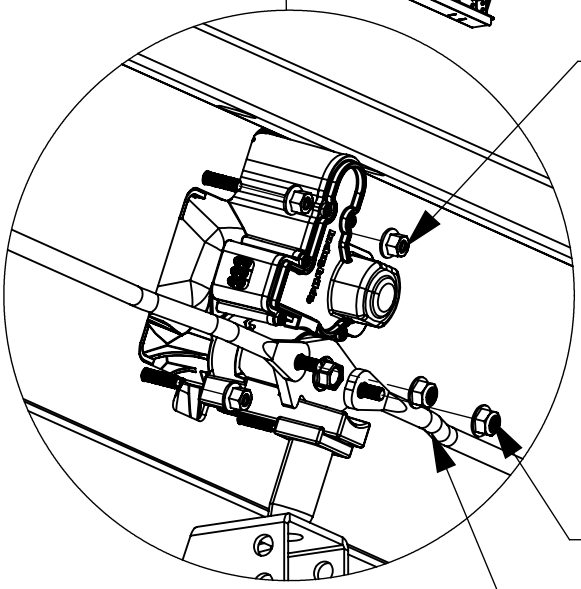
**Step 2.4**
ADJUST HANDLE POINT TO ALIGN WITH CASTING LINE ON HANDLE BODY
(APPROX: 1.0")

FULLY TIGHTEN
4mm ALLEN
(2 PLACES)

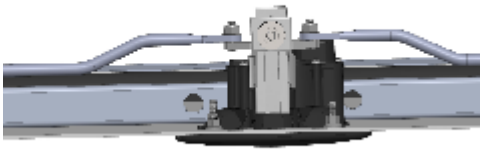
**Step 2.5**
APPLY FOAM SEALS TO ALL CORNERS.

USE HOLES IN SEAL TO ALIGN MATERIAL.

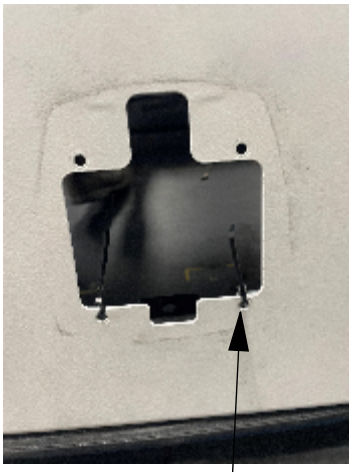


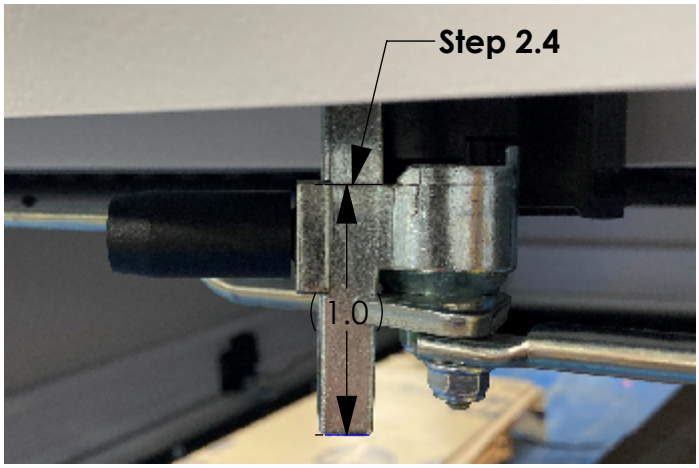




STOP STEP 2.2 & 2.3 HAVE DIFFERENT SIZED FASTENERS



NOTE THAT ORIENTATION OF LOCKRODS IS CRITICAL STOP



# *STEP 3 - ATTACH FRONT PANEL*

**Step 3.1**
**OPEN TOPPER CLOSURE KIT [TCK78HM23W]**

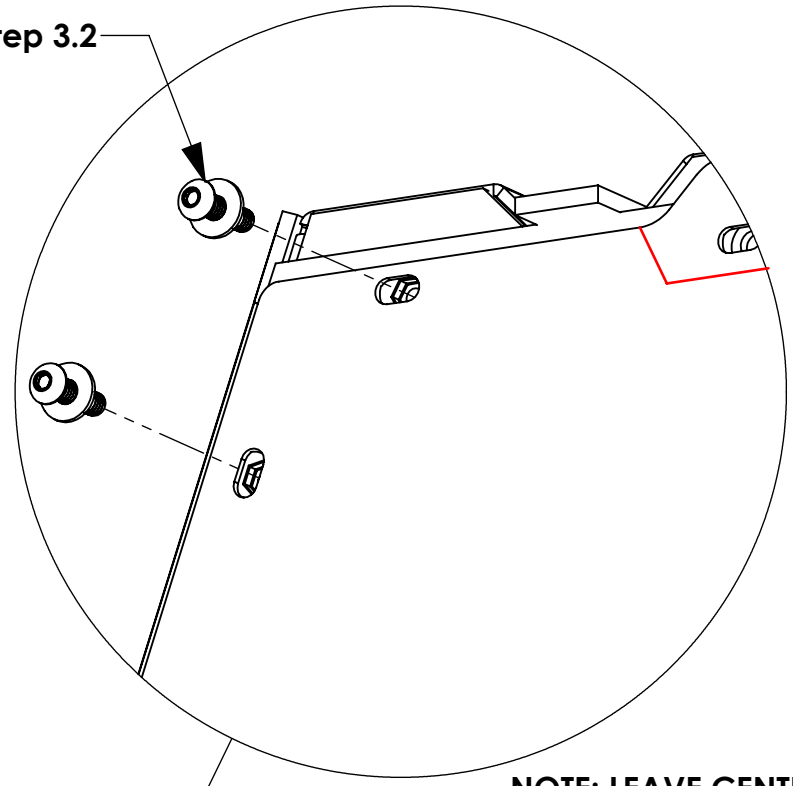
**Step 3.2**
**ATTACH FRONT PANEL**

**<u>HAND TIGHTEN</u>**
**FAS0234, FAS0940 (10 PLACES)**

**DO NOT TIGHTEN UNTIL AFTER STEP 4**

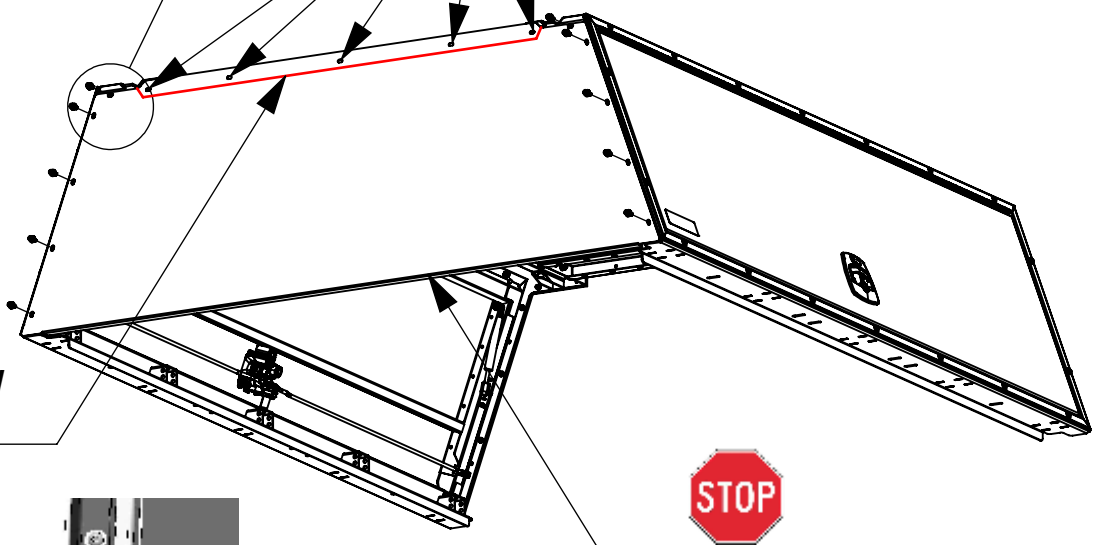
**Step 3.2B**
**COLORADO FRONT PANEL FLANGE IS OUTBOARD**

**DO NOT TIGHTEN UNTIL AFTER STEP 4**




**NOTE: LEAVE CENTER 5 SLOTS EMPTY, THESE ARE FOR ROOF MOUNTING**

STOP

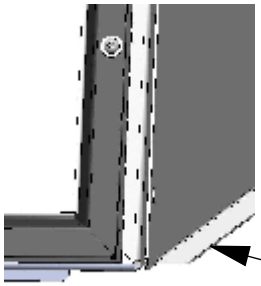


**APPLY A STRIP OF SILICONE THEN RUNS THE LENGTH OF THE FRONT PANEL JUST BELOW THE SCREWS**

STOP

**NOTE: FRONT PANEL FLANGE GOES INBOARD.**

**SEE STEP 3.2B FOR THE COLORADO AS THE FLANGE IS OUTBOARD**



**STEP 3.2B**

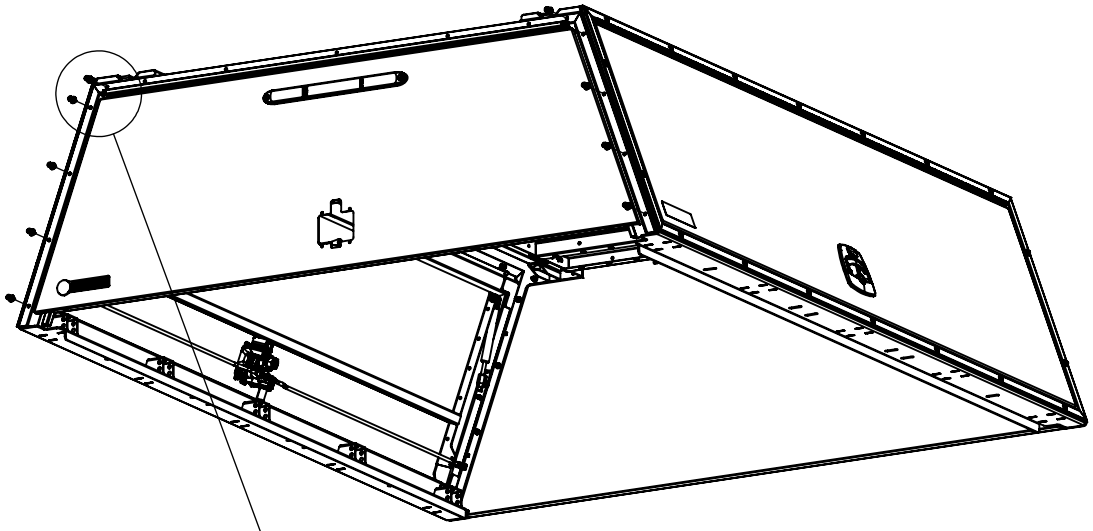
# *STEP 4 - ATTACH LIFTGATE*

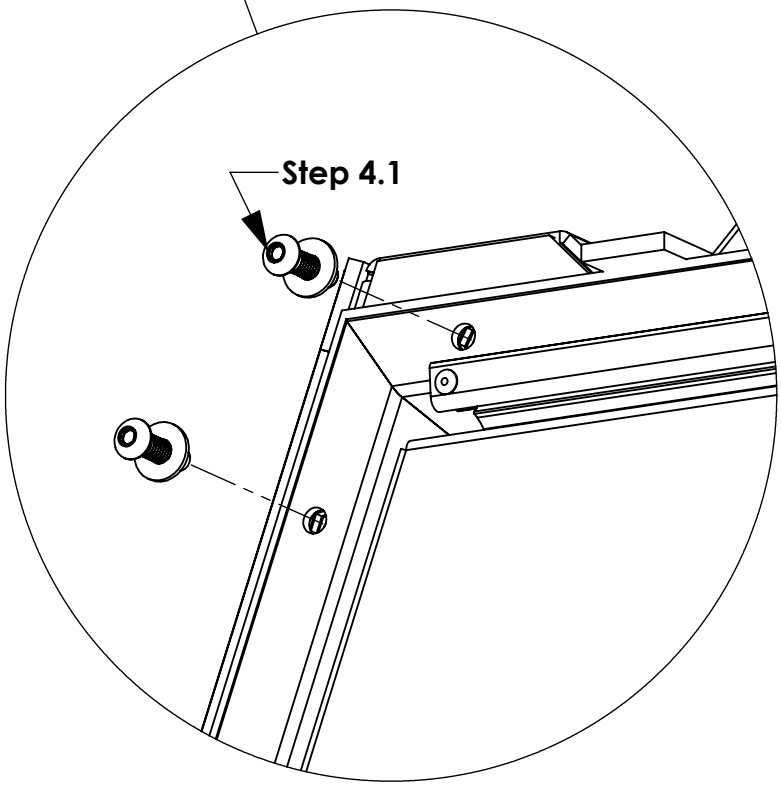
**Step 4.1**
**ATTACH LIFTGATE FRAME**

**<u>FULLY TIGHTEN</u>**
**FAS0234,**
**FAS0940**
**(10 PLACES)**
**5/32" ALLEN**

**Step 4.2**
**GO BACK AND <u>FULLY TIGHTEN</u> FASTENERS FROM <u>STEP 3.2</u>**

**(10 PLACES)**
**5/32" ALLEN**

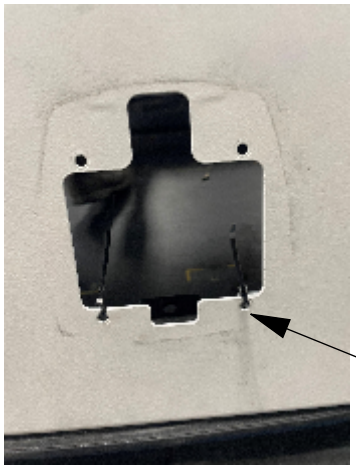


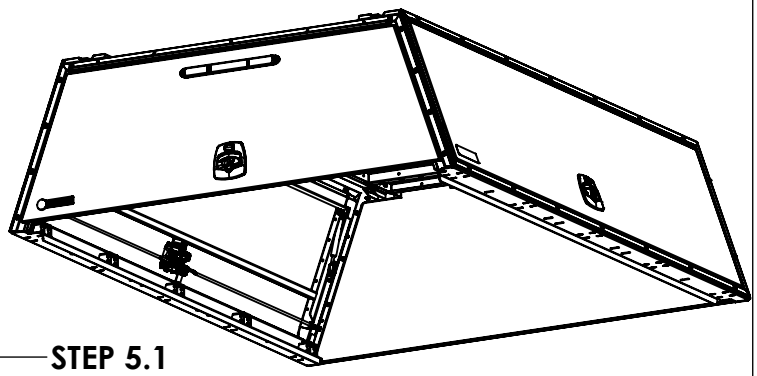


# *STEP 5 - ATTACH LIFTGATE HANDLE*

**Step 5.1**
**CUT ZIP TIES THAT ARE HOLDING LOCKRODS IN PLACE.**

**!! CAUTION !!**
**DOOR MAY TRY TO OPEN.**

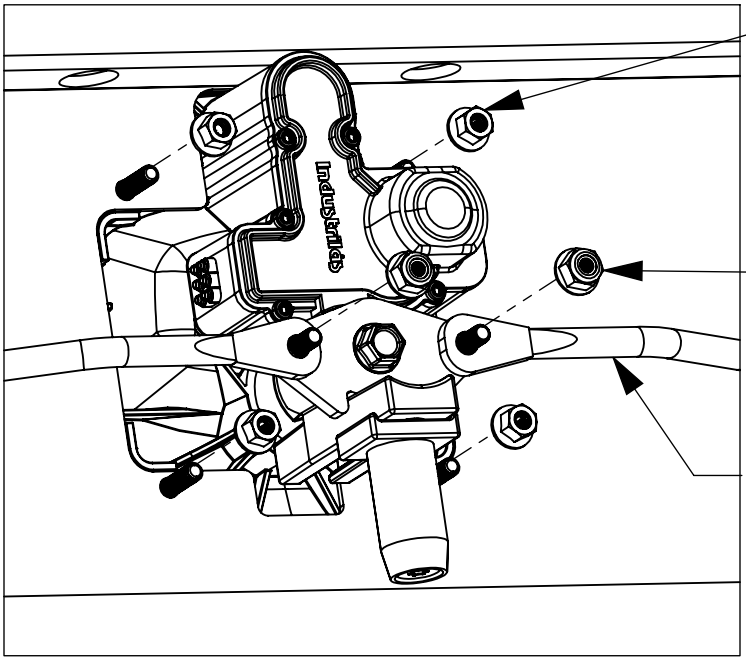


**Step 5.2**
**ATTACH HANDLE TO DOOR**

**<u>FULLY TIGHTEN</u>**
**FAS0917**
**(4 PER DOOR)**
**M10 SOCKET**

**DO NOT OVERTIGHTEN**



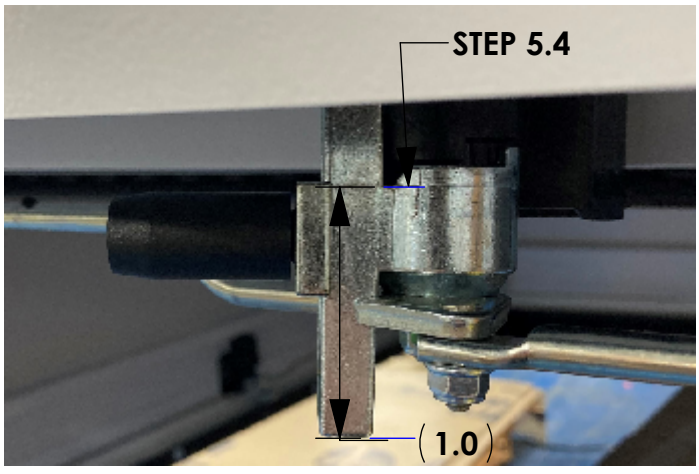

**Step 5.3**
**ATTACH LOCKRODS TO HANDLE**

**<u>FULLY TIGHTEN</u>**
**FAS0918**
**(2 PLACES)**
**M8 SOCKET**

**DO NOT OVERTIGHTEN**

**Step 5.4**
**ADJUST HANDLE POINT TO ALIGN WITH CASTING LINE ON HANDLE BODY (APPROX: 1.0")**

**FULLY TIGHTEN**
**M4 ALLEN**
**(2 PLACES)**



# *STEP 6 - ATTACH ROOF AND ROOF RAILS*

**Step 6.1**
**PLACE ROOF PANEL ON TOPPER BODY, BUT SLID FORWARD OF FRONT PANEL TO AVOID REMOVING SILICONE APPLIED IN STEP 3. THEN SLIDE ROOF PANEL INTO CORRECT POSITION.**

**Step 6.2**
**ATTACH MOUNTING RAILS TO TOPPER BODY.**

**USE AN ALIGNMENT PUNCH TO POKE THROUGH SEALS**

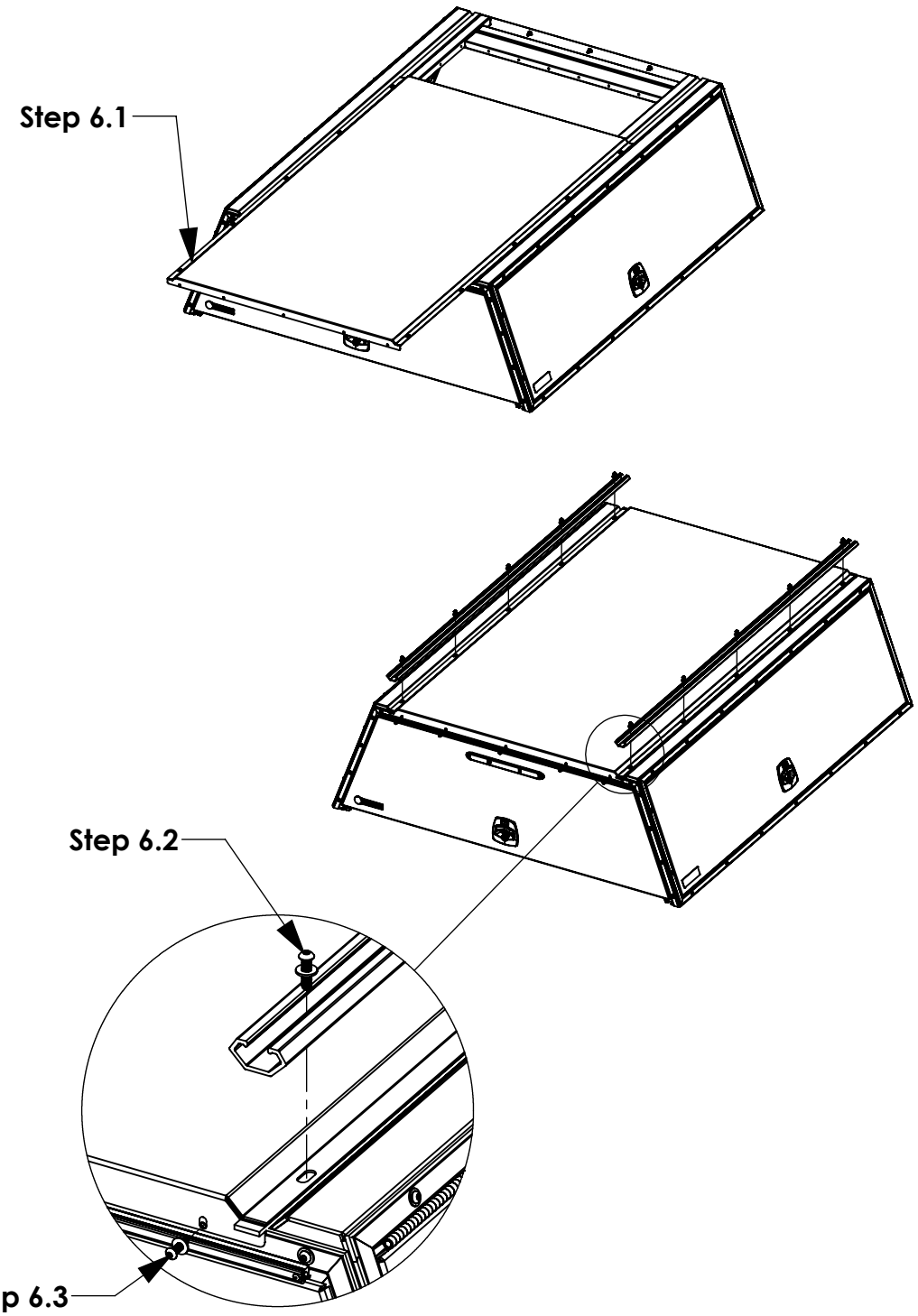
**<u>FULLY TIGHTEN</u>**
**FAS0552, FAS0919 (10 PLACES) 3/16" ALLEN**

**Step 6.3**
**ATTACH ROOF TO TOPPER BODY.**

**<u>FULLY TIGHTEN</u>**
**FAS0055, FAS0552, FAS0940 (10 PLACES) 5/32" ALLEN 7/16" WRENCH**

STOP

**PLEASE NOTE THAT ORDER OF OPERATIONS ON THESE BUILD STEPS IS CRITICAL TO A PROPER SEAL!**



# *STEP 7 - ATTACH TAILGATE COVER*

**Step 7.1**
**ADD SILICONE TO CORNER OF TAILGATE COVER AND AROUND BOTTOM FACE MOUNTING HOLES.**

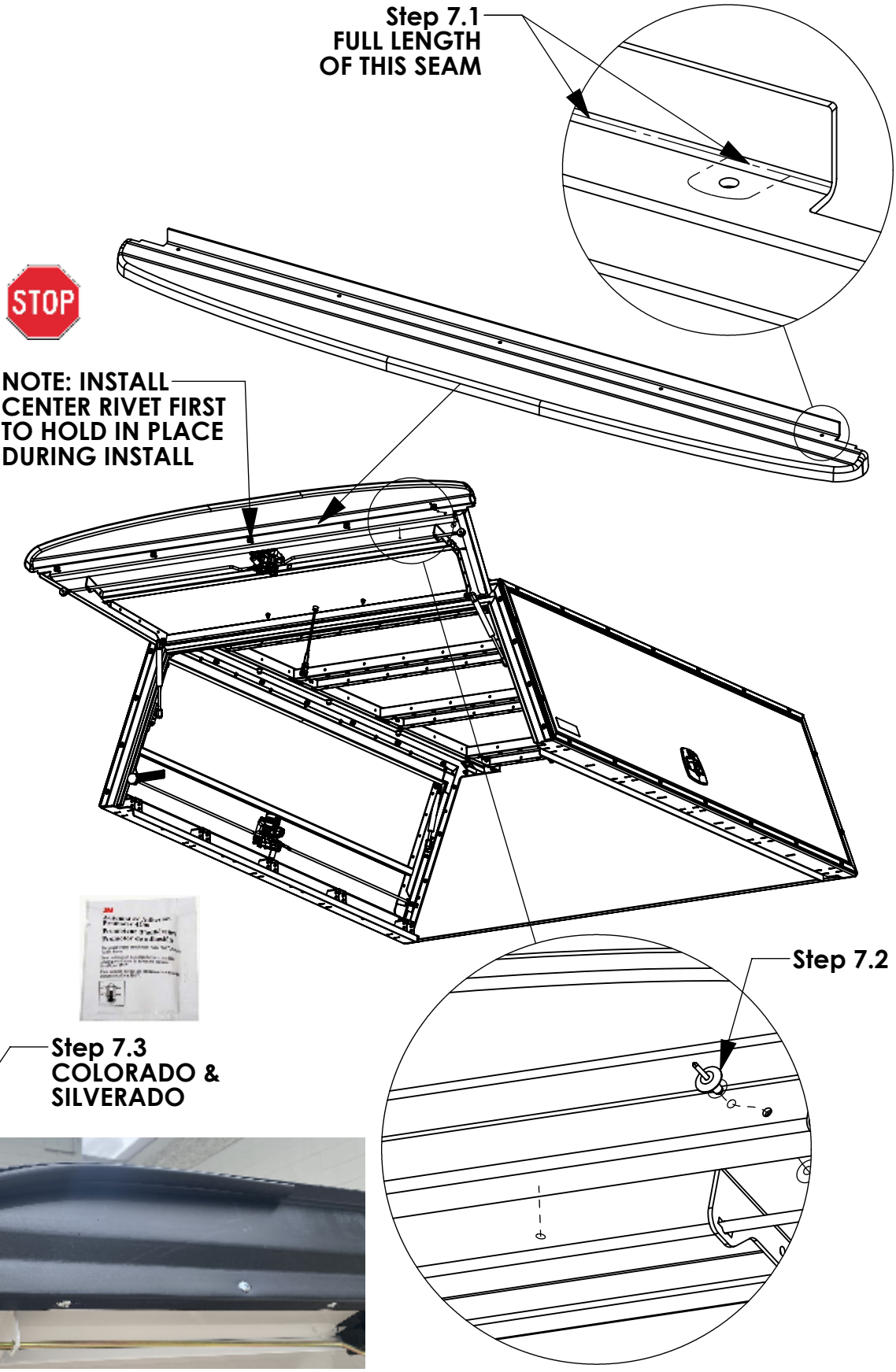
**Step 7.2**
**ATTACH TAILGATE COVER TO REAR DOOR.**

**<u>FULLY SECURE</u>**
**FAS1014**
**(5 PLACES)**

**1/4" RIVET TIP**

**Step 7.3**
**COLORADO & SILVERADO.**
**PREP WITH 57392 ADHESION PROMOTER.**

**ADD 77152 D-SEAL X 22" LG TO BOTH SIDE OF TAILGATE COVER**



# *STEP 8 - ATTACH SEALS TO TRUCK BED*

**Step 8.1**
**INSTALL FRONT BED SEAL. REFER TO TABLE 1 TO GET OEM SPECIFIC DISTANCE OFF OF THE INSIDE EDGE OF THE BED. CENTER BETWEEN THE DRIVER AND PASSENGER SIDE BED RAIL TRIM.**

**TRIM OFF EXTRA, IF NECESSARY.**

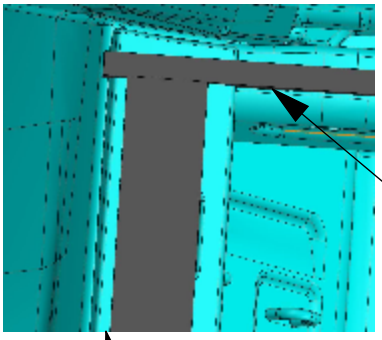
**Step 8.2**
**INSTALL SIDE BED SEALS. ALIGN TO THE FRONT AND INSIDE EDGES OF THE SIDE BED RAIL TRIM.**

**DO NOT TRIM EXCESS UNTIL TOPPER IS ON THE TRUCK.**

**Step 8.3**
**COLORADO ONLY !**
**INSTALL SIDE BED SEALS. ALIGN TO THE FRONT AND INSIDE EDGES OF THE SIDE BED RAIL TRIM.**

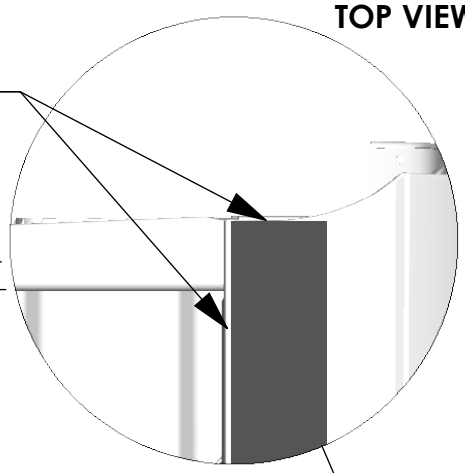
**DO NOT TRIM EXCESS UNTIL TOPPER IS ON THE TRUCK.**

**TOP VIEW -COLORADO, SILVERADO & RAM, FULL DISTANCE AT FRONT EDGE**



**STEP 8.3 1/4" GAP**

**TOP VIEW**




**FRONT**

**DRIVER'S SIDE**

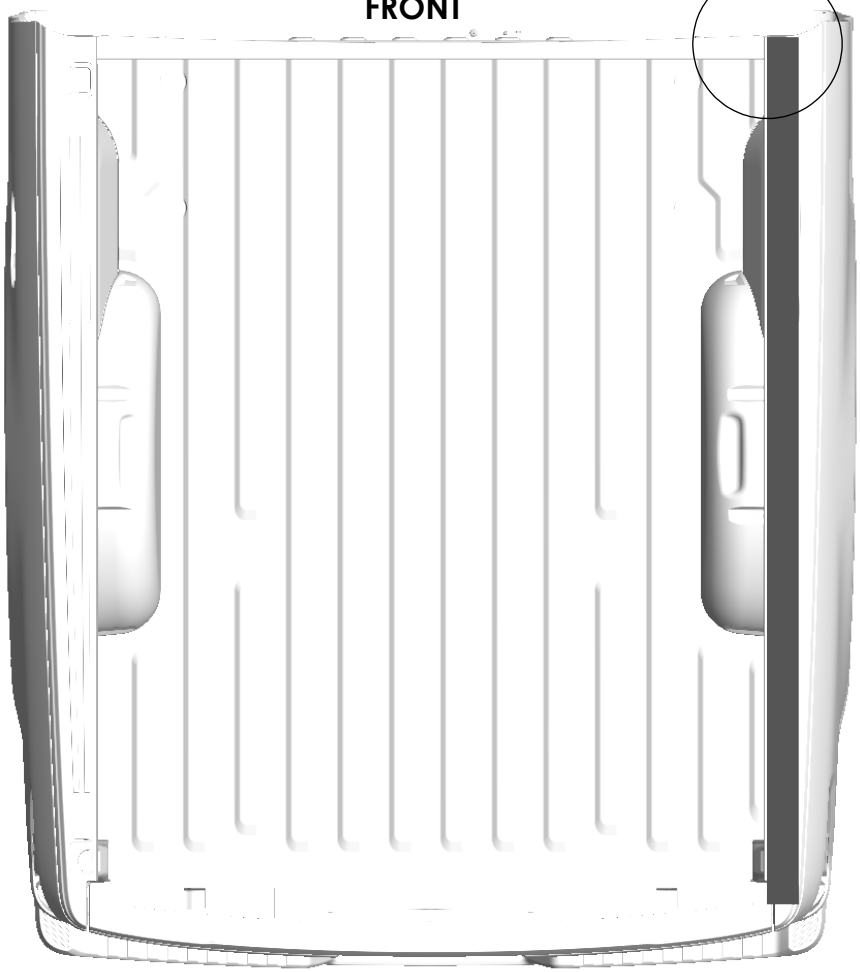


**TABLE 1:**

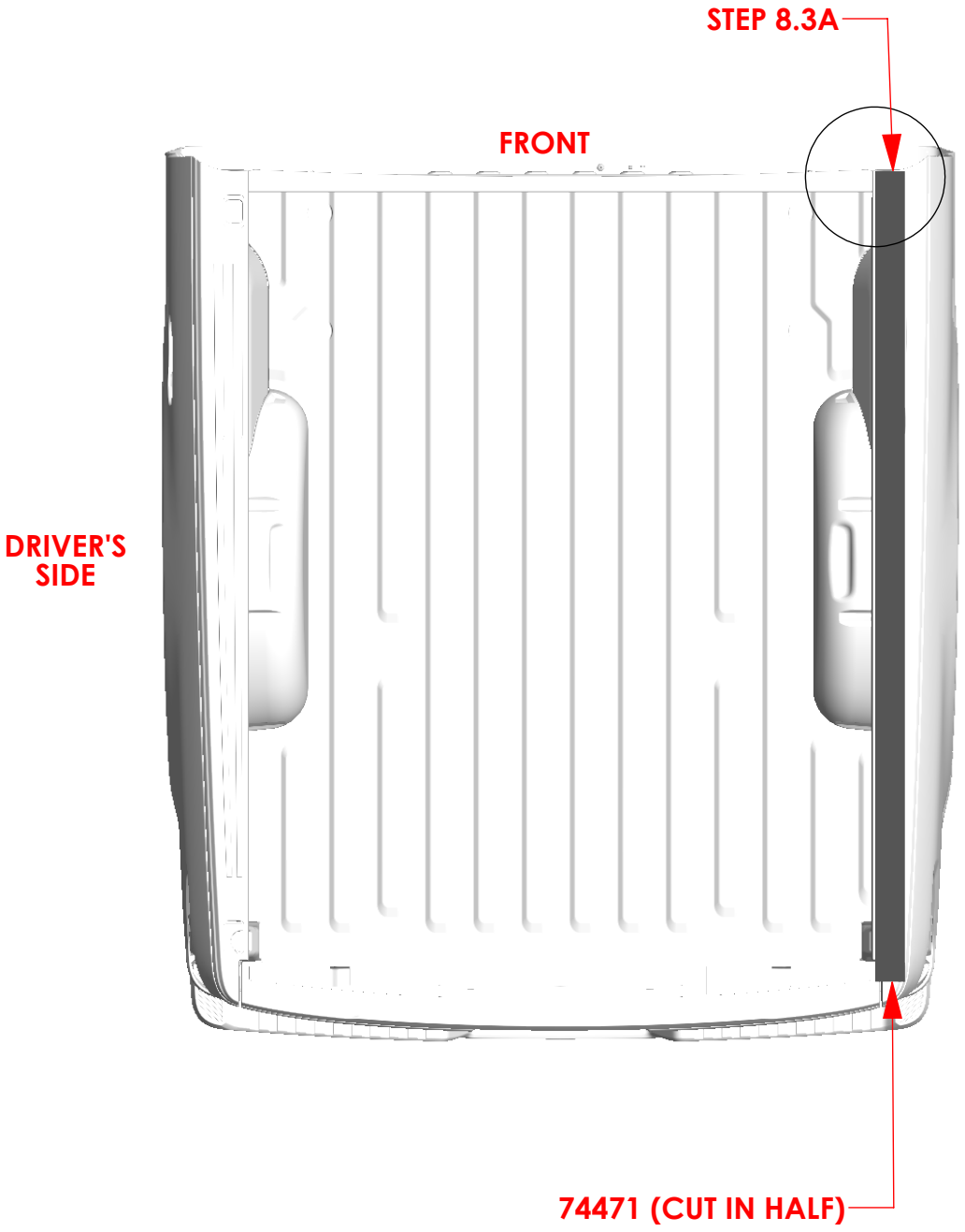
| VEHICLE PLATFORM | DIST. |
|---|---|
| F-150 | .875" |
| SILVERADO | 0.25" |
| RAM | .15" |

# STEP 8.3 CONTINUED - INSTALL FOAM (NOTE: FOR CHEVY COLORADO ONLY)

**Step 8.3A**
**COLORADO ONLY! CUT 74471 IN HALF TO MAKE TWO SEALS. INSTALL ADDITIONAL SIDE BED SEALS (74471 (X1)). ALIGN TO THE FRONT AND INSIDE EDGES OF THE SEALS FROM THE PREVIOUS STEP.**

**DO NOT TRIM EXCESS UNTIL TOPPER IS ON THE TRUCK.**

**Step 8.3B**
**SHIFT TO DRIVERS SIDE OF TRUCK AND MIRROR INSTALLATION OF THE FIRST HALF OF 74471.**



# *STEP 8 - ATTACH SEALS TO TRUCK BED (NOTE: FOR CHEVY SILVERADO ONLY)*

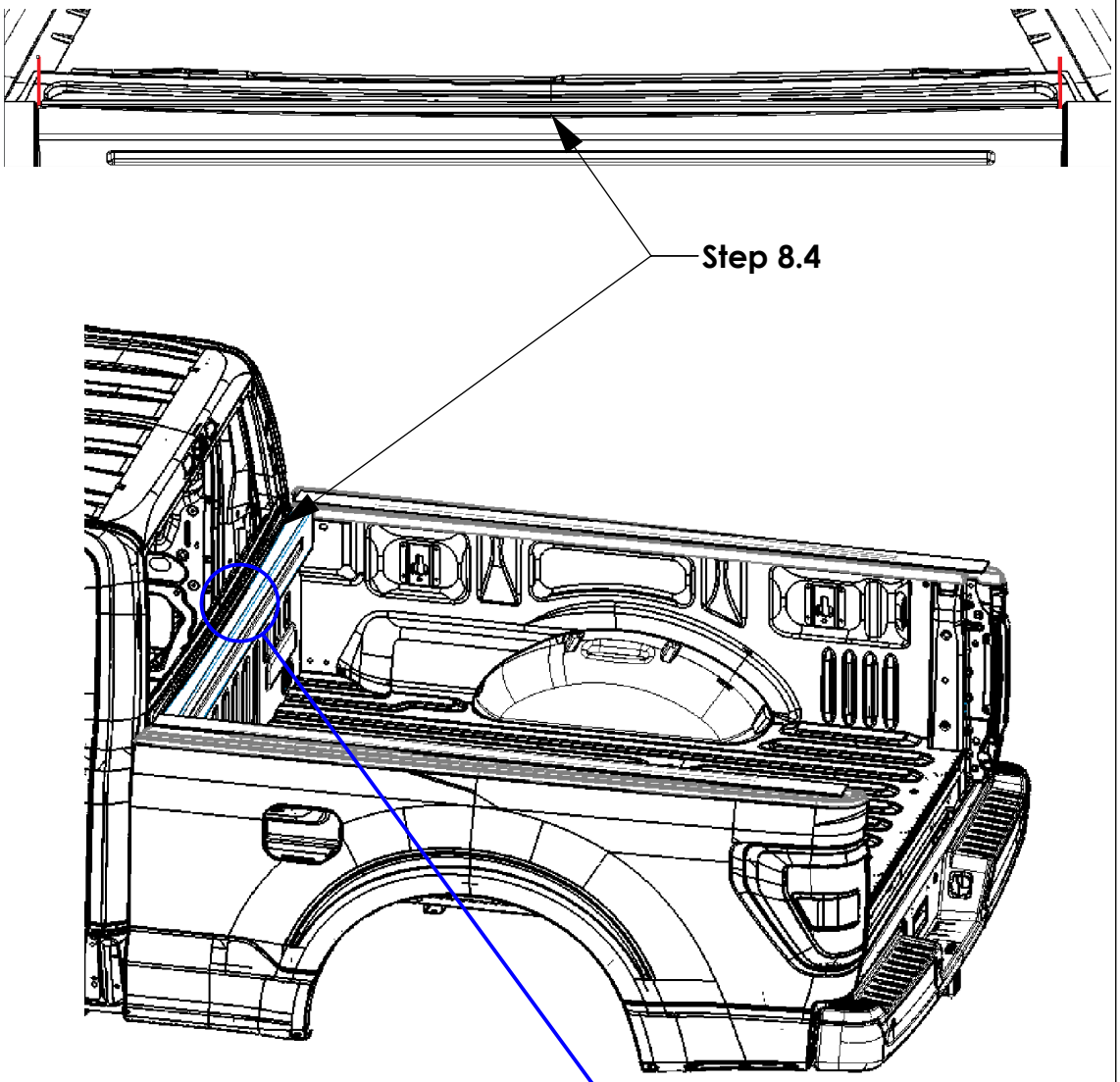
**Step 8.4**
**PLACE 81456 GASKET IN THE GAP BETWEEN THE TRUCK BED AND CAB.**



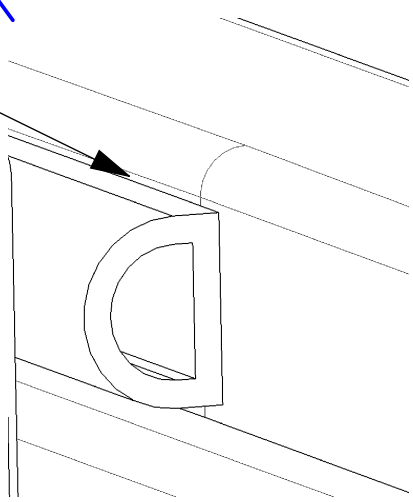

**BEFORE ATTACHING TO TRUCK BED, CLEAN AND PREP AREA. DO NOT ATTACH TO PLASTIC TRIM. IF TRIM IS ON FRONT OF BED ATTACH TO CAB.**

**ONCE AREA IS PREPARED CENTER GASKET ON THE REAR WINDOW.**

**MAKE SURE THAT GASKET HAS FULL SURFACE CONTACT SO ADHESIVE WILL PROPERLY BOND.**




**NOTE:**
**IF TRUCK BED HAS A SPRAY ON BED LINER, PLACE GASKET UNDER LINER ON TRUCK BED**



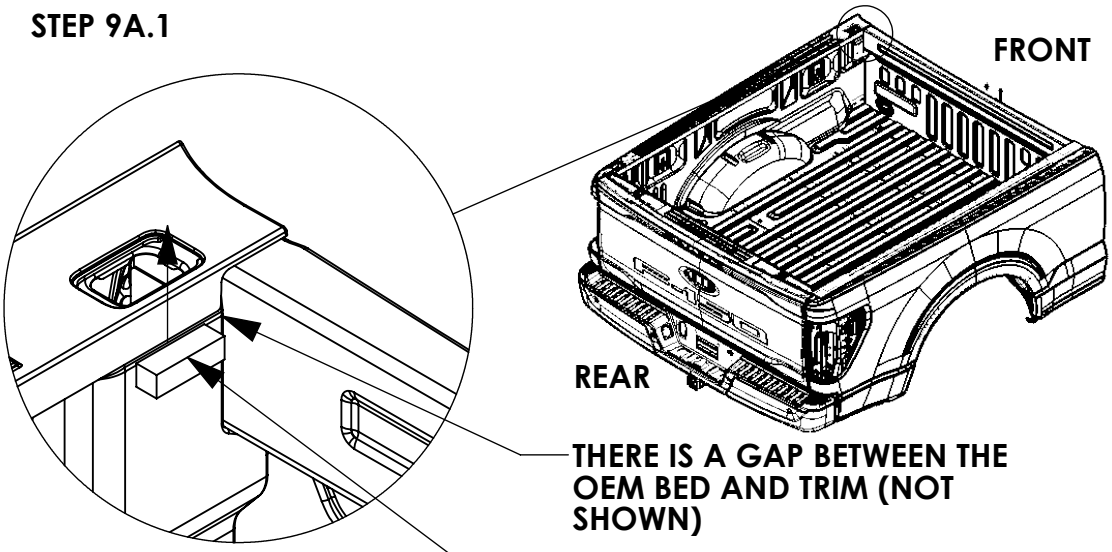
# STEP 9A - INSTALL FOAM & 73740 SEALANT TO TRUCK CAB AND BED SEAMS *(NOTE: FOR CHEVY SILVERADO ONLY)*

**STEP 9A.1**
**CUT A 2.5" FOAM PIECE OF 73398, INSERT UNDER TRIM OF THE BED RAIL, GOING INTO THE GAP AS SHOWN**

**STEP 9A.2**
**INSERT A 2ND FOAM OF THE SAME DIMENSION INTO THE GAP, PERPENDICULAR TO THE ONE IN STEP 9.1, BOTH PIECES SHOULD BE TOUCHING**

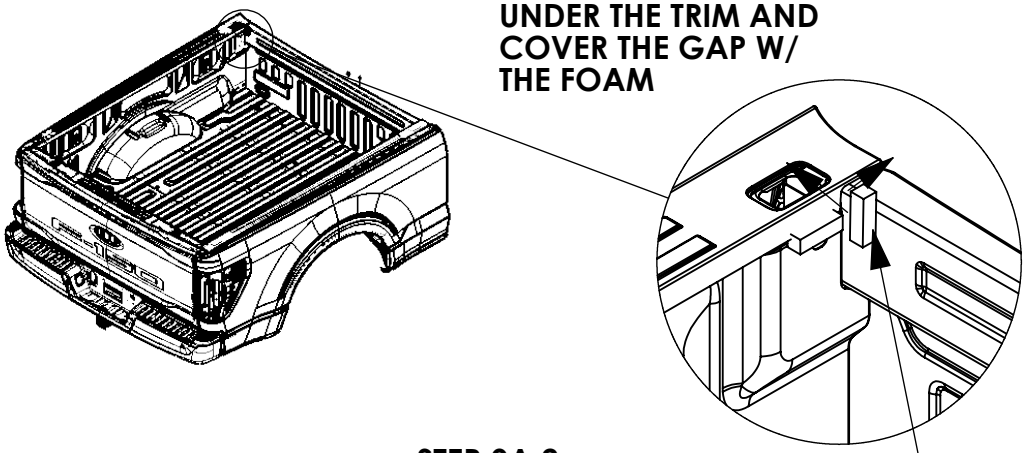
**STEP 9A.3**
**SECURE BOTH PIECES OF FOAM IN PLACE WITH 3M SEALANT AROUND THE PERIMETER AND FILL ANY REMAINING GAPS, REPEAT ON PASSENGER SIDE**

**STEP 9A.1**




**THERE IS A GAP BETWEEN THE OEM BED AND TRIM (NOT SHOWN)**

**INSERT THE FOAM UNDER THE TRIM AND COVER THE GAP W/ THE FOAM**



**STEP 9A.2**

**INSERT THE 2ND PIECE OF FOAM PERPENDICULAR TO THE 1ST PIECE. FOLD OVER THE FOAM TO ALSO COVER THE GAP BETWEEN THE TRIM AND WALL RAIL**



**STEP 9A.3**

**ADD 3M SEALANT AROUND THE PERIMETER OF THE FOAMS, BETWEEN THE RAIL TRIM & THE BED, & REPEAT ON PASSENGER SIDE**

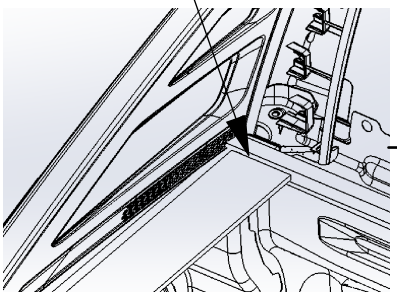
# STEP 9B - INSTALL FOAM TO TRUCK CAB AND BED SEAMS (NOTE: FOR CHEVY SILVERADO EV ONLY)

**STEP 9B.1**
PLACE FOAM AROUND TOP OF BED RAILS, STRIPS WILL BUTT UP AGAINST EACH OTHER AT CORNERS

**STEP 9B.2**
WHEN PLACING TOPPER ON BED, TOPPER WILL NEED TO BE BROUGHT IN LOW AND THEN MOVED FORWARD TO FIT INSIDE TRUCK TRIM. (AS SHOWN)

**STEP 9B.3**
WITH TOPPER IN PLACE EXCESS TRIM

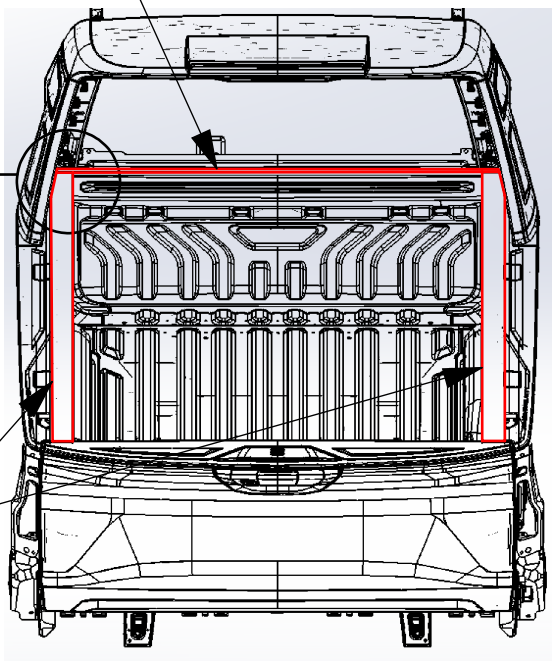
STEP 9B.1



NOTE:
LOCATE DRAIN HOLES AND TRIM FOAM AROUND THEM, TO MAKE SURE HOLES AREN'T BEING BLOCKED

71766

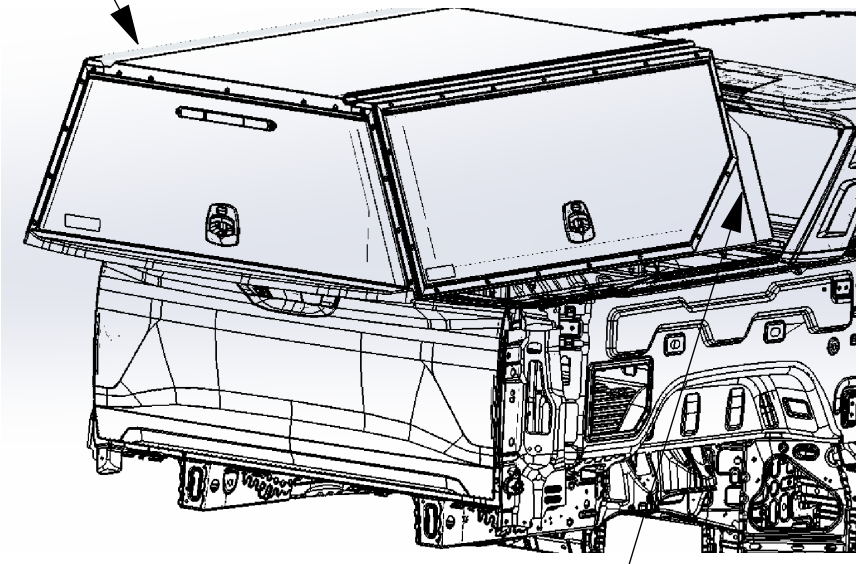
FRONT

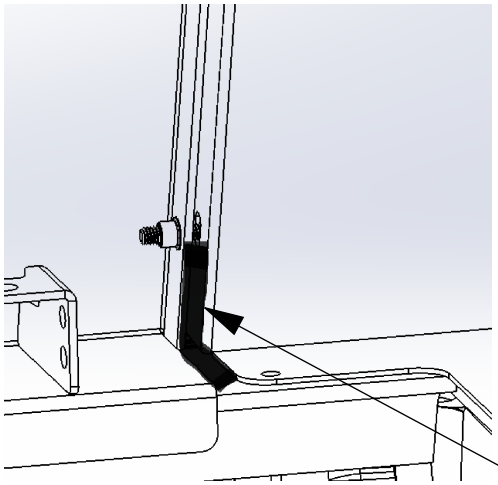


71768

REAR

STEP 9B.2





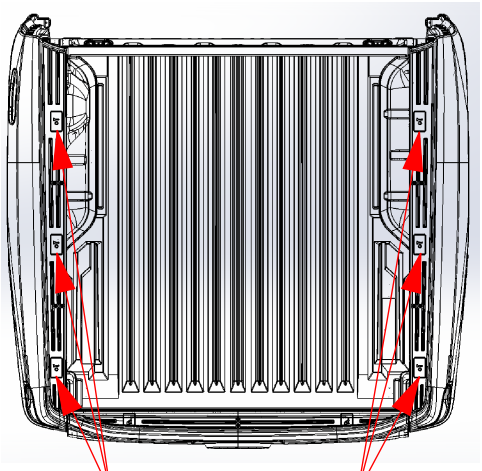
NOTE:
WHEN TOPPER IS IN PLACE USE SLICONE INSIDE OF TOPPER TO SEAL GAPS AT FRONT OF TOPPER . (AS SHOWN)

# STEP 9C - INSTALL FOAM, (6) SPACER & 73740 SEALANT TO TRUCK CAB AND BED SEAMS (NOTE: FOR FORD RANGER ONLY)

**STEP 9C.1**
**REMOVE PLUGS LOCATED ON THE TRUCK BED RAIL,**

STOP

**DO NOT DRILL INTO THE RAIL**

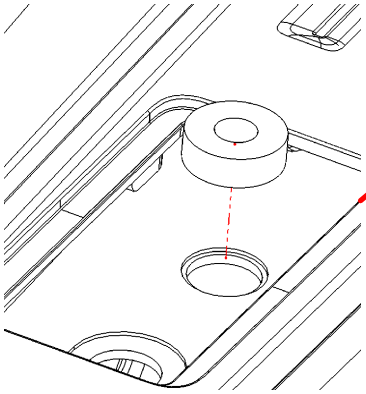


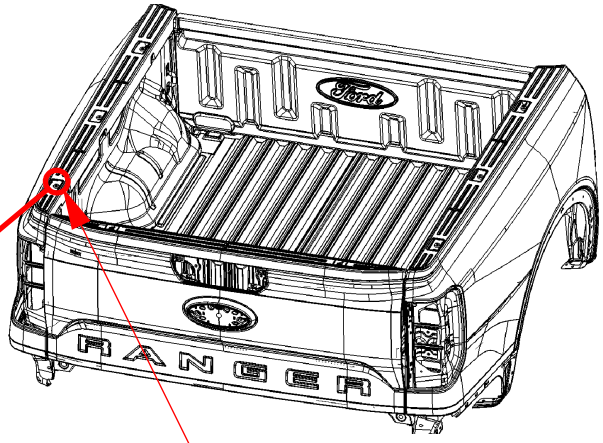
STEP 9C.1

**STEP 9C.2**
**CENTER (6)SPACERS OVER HOLE, TAPE SPACER TO HOLD IT IN THE LOCATION**

**NOTE:**
**TALL SPACERS TO BE USED WITH 2025 MODELS,**

**SHORT SPACERS TO BUT USED WITH 2026 OR NEWER MODELS**



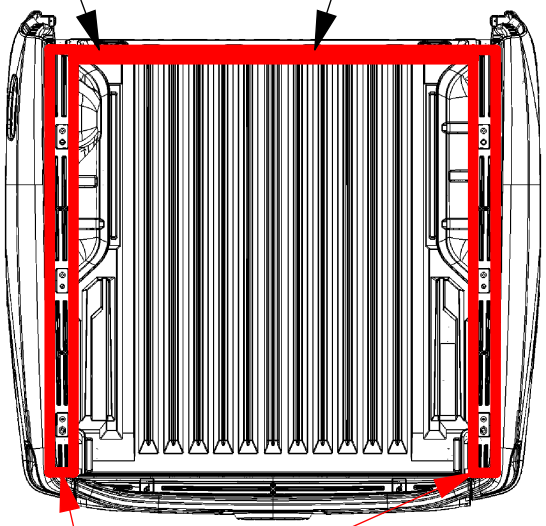



STEP 9C.2

**STEP 9C.3**
**PLACE FOAM AROUND TOP OF BED RAILS, STRIPS WILL BUTT UP AGAINST EACH OTHER AT CORNERS**

STEP 9C.3

71766



71768

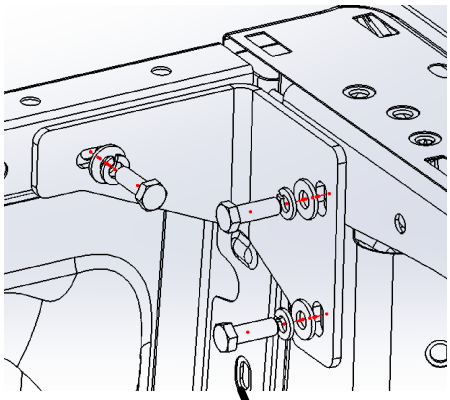
STOP

**NOTE:**
**BEFORE INSTALL PREP IS STARTED, IF RANGER MODEL YEAR IS 2024, MAKE SURE THAT LOAD BOX REINFOREMENT BRACKETS HAVE BEEN INSTALLED. SCAN QR CODE FOR DOCUMENTED DIRECTION**

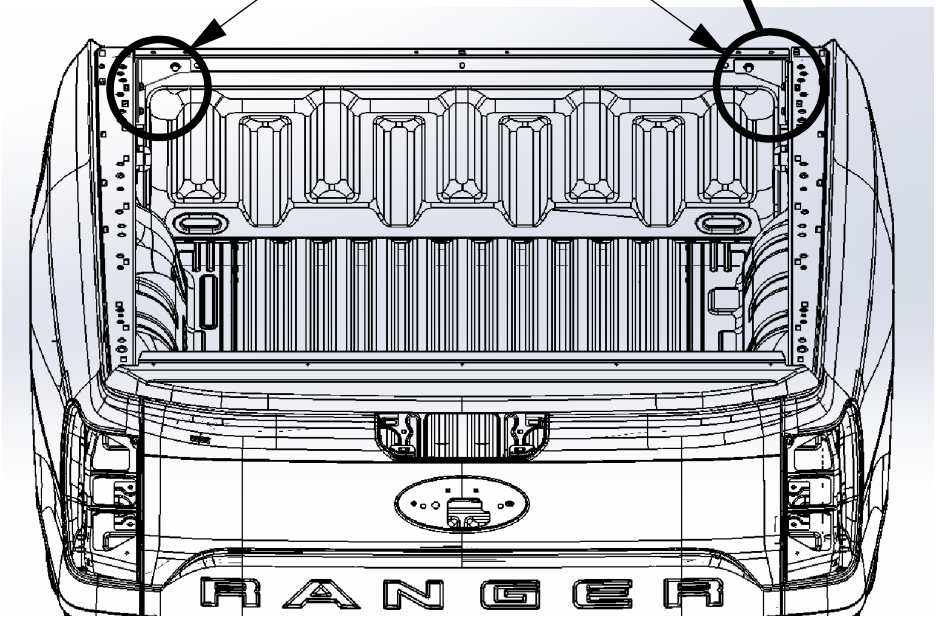
# STEP 9C - INSTALL FOAM, (6) SPACER & 73740 SEALANT TO TRUCK CAB AND BED SEAMS (NOTE: FOR FORD RANGER ONLY)

**STEP 9C.4**
**SLIDE 80670 & 80671 UNDER TRIM AT FRONT CORNERS OF BED TO MOUNT TO OEM HOLES, FULLY TIGHTEN (6)FAS0329, (6)FAS0552, & (6)FAS0588**

**M8 SOCKET**
**DRILL**



**NOTE:**
**TRIM IS NOT VISIBLE FOR CLARITY**




**NOTE:**
**BEFORE INSTALL PREP IS STARTED, IF RANGER MODEL YEAR IS 2024, MAKE SURE THAT LOAD BOX REINFOREMENT BRACKETS HAVE BEEN INSTALLED. SCAN QR CODE FOR DOCUMENTED DIRECTION**

# *STEP 10 - ATTACH TOPPER TO TRUCK BED*

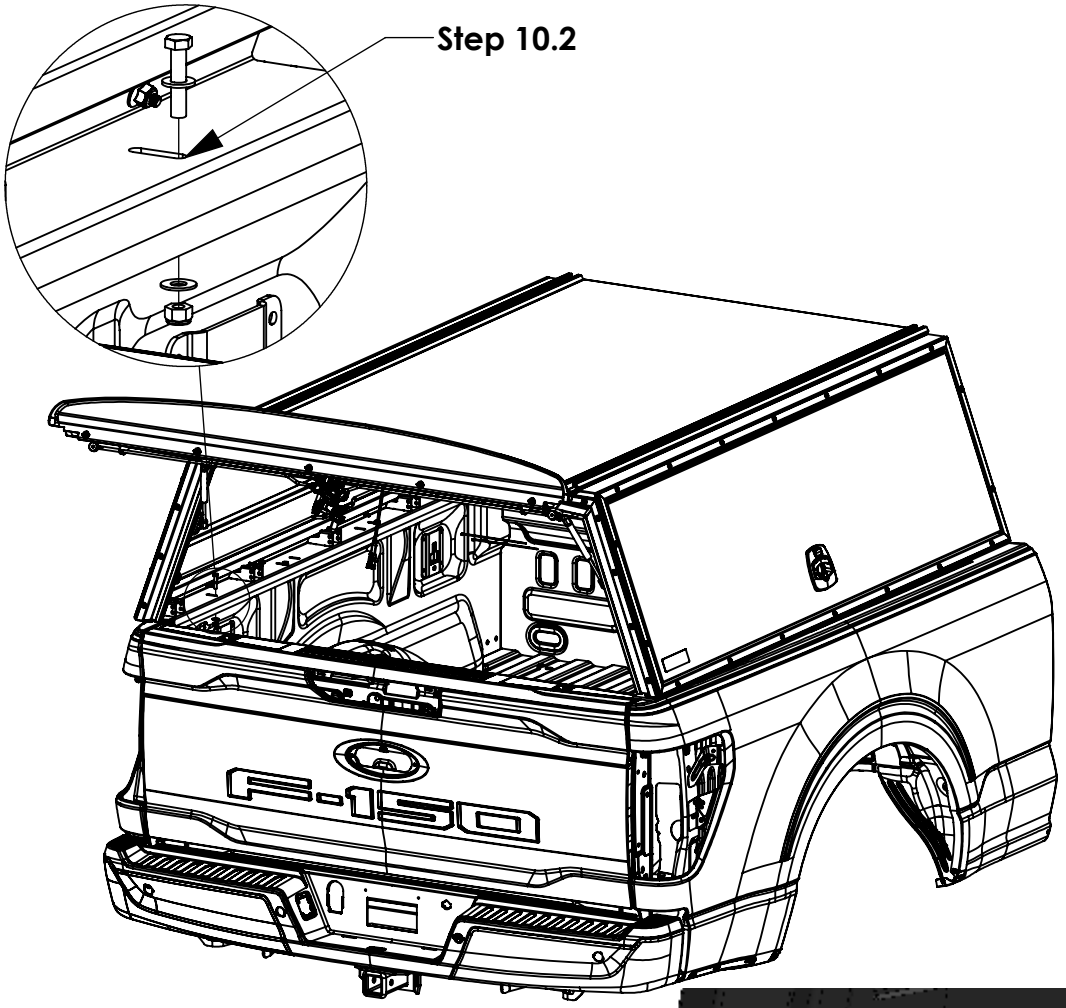
**NOTE: (FOR 8.0' 26" TALL RAM 1500, 2500, 3500 ONLY) TOPPER MUST BE SOFT INSTALLED TO MARK FOR DRILLING. TOPPER TO BE REMOVED PRIOR TO DRILLING.**

**Step 10.1**
**SET TOPPER ONTO TRUCK BED. ALIGNMENT IS BASED OFF OF THE TAILGATE CLEARANCE CUTOUT IN THE SIDE BED RAILS (FOR FORD ONLY) AND PLACE ON THE PREVIOUSLY INSTALLED FRONT BED SEAL STEP 8.1**

**THESE 2 FACES SHOULD BE ALIGNED.**

**NOTE: IT IS RECOMMENDED THAT YOU LOAD THE TOPPER ONTO A TRUCKBED WITH ONE OF THE FOLLOWING METHODS:**

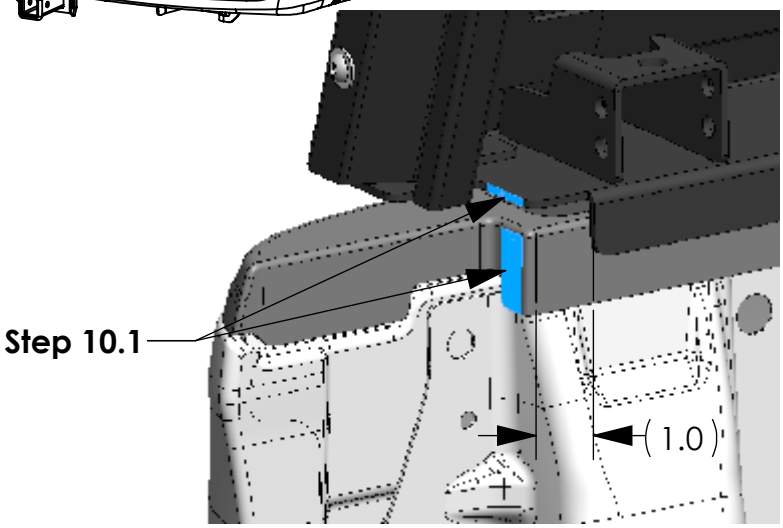
**-HOIST: ATTACH TO THE ROOF RAILS OF THE TOPPER**
**-FORKLIFT: OPEN THE REAR DOOR AND SET FORKS ON THE ROOF BOWS**
**-MANUAL: HAVE 1 INDIVIDUAL AT EACH CORNER OF THE TOP AND CARRY OVER THE SIDES OF THE TRUCK. DO NOT SCRATCH THE VEHICLE.**




**Step 10.2**
**USE HOLES IN THE BED RAIL TO MARK AND DRILL MOUNTING LOCATIONS. IT IS NOT NECESSARY TO REMOVE THE TOPPER FOR THIS STEP.**

**(8 PLACES)**
**11/32" DRILL BIT**

**NOTE: IF THESE HOLES INTERFERE WITH THE OEM BODY, DRILL A NEW HOLE IN THE BED RAIL +/- 2" FROM THE INTERFERENCE.**



# *STEP 10 ALT- ATTACH TOPPER TO TRUCK BED*

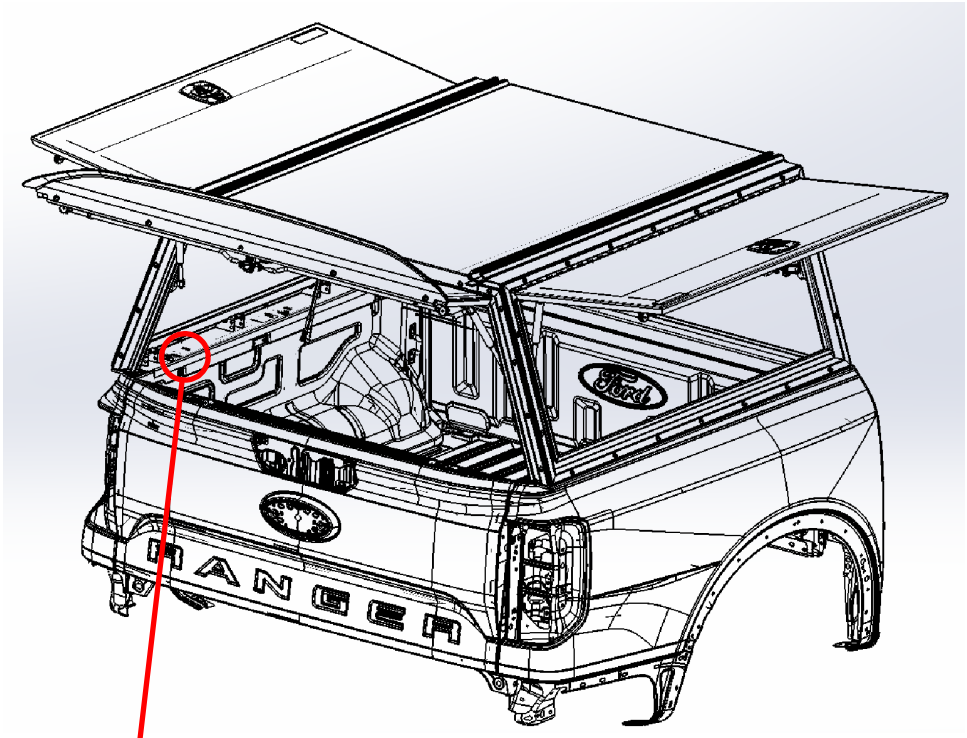
STOP NOTE: (FOR 5.0' FORD RANGER ONLY) TOPPER MUST BE SOFT INSTALLED TO MARK FOR DRILLING. TOPPER TO BE REMOVED PRIOR TO DRILLING.

**Step 10.1 ALT**
SET TOPPER ONTO TRUCK BED. ALIGNMENT IS BASED OFF OF THE TAILGATE CLEARANCE CUTOUT IN THE SIDE BED RAILS (FOR FORD ONLY) AND PLACE ON THE PREVIOUSLY INSTALLED FRONT BED SEAL STEP 8.1

THESE 2 FACES SHOULD BE ALIGNED.

NOTE: IT IS RECOMMENDED THAT YOU LOAD THE TOPPER ONTO A TRUCKBED WITH ONE OF THE FOLLOWING METHODS:

-HOIST: ATTACH TO THE ROOF RAILS OF THE TOPPER
-FORKLIFT: OPEN THE REAR DOOR AND SET FORKS ON THE ROOF BOWS
-MANUAL: HAVE 1 INDIVIDUAL AT EACH CORNER OF THE TOP AND CARRY OVER THE SIDES OF THE TRUCK. DO NOT SCRATCH THE VEHICLE.

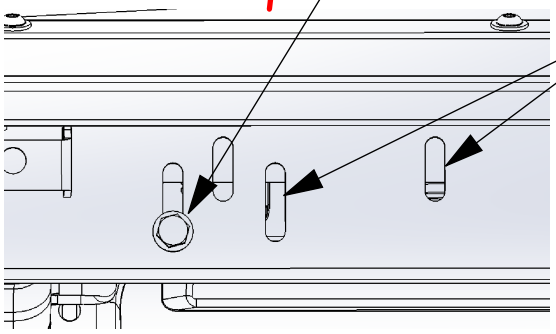



**Step 10.2 ALT**
USE HOLES IN THE BED RAIL TO MARK AND DRILL MOUNTING LOCATIONS. IT IS NOT NECESSARY TO REMOVE THE TOPPER FOR THIS STEP.

(8 PLACES)
11/32" DRILL BIT

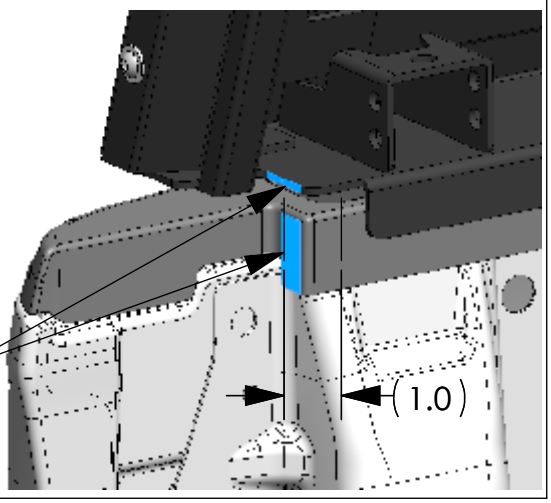
STOP

NOTE: IF THESE HOLES INTERFERE WITH THE OEM BODY, DRILL A NEW HOLE IN THE BED RAIL +/- 2" FROM THE INTERFERENCE.




NOTE:
OUTER SLOTS ARE TO BE USED WITH 2026 FORD RANGER INNER AND SMALLER SLOTS TO BE USED WITH 2025 FORD RANGER

NOTE:
OVERHEAD VIEW FOR CLARITY



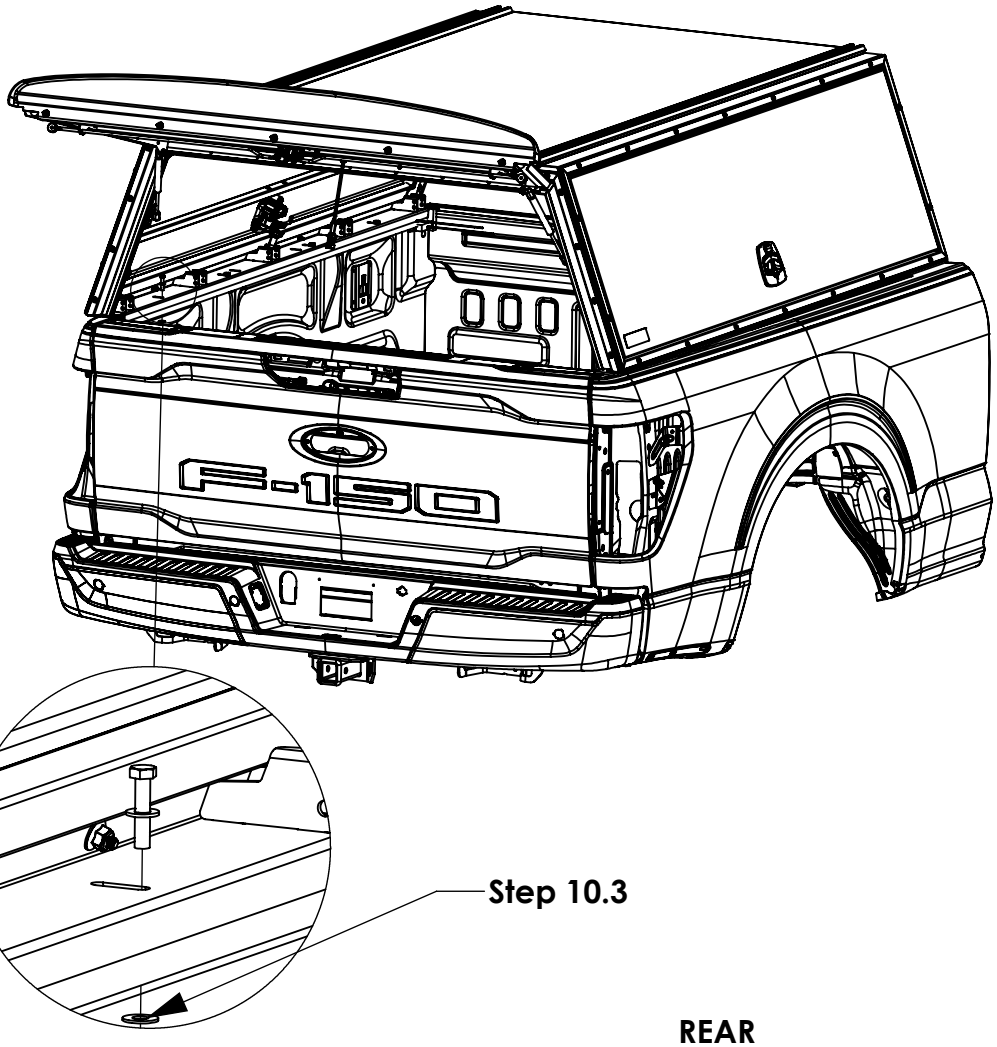
# *STEP 10 - ATTACH TOPPER TO TRUCK BED*

**NOTE: (FOR 8.0' 26" TALL RAM 1500, 2500, 3500 ONLY) TOPPER MUST BE SOFT INSTALLED TO MARK FOR DRILLING. TOPPER TO BE REMOVED PRIOR TO DRILLING.**

**Step 10.3**
**USING THE HOLES YOU JUST DRILLED OUT, FASTEN THE TOPPER TO THE TRUCK BED.**
**FAS0242,**
**FAS0552 [x2],**
**FAS0248**

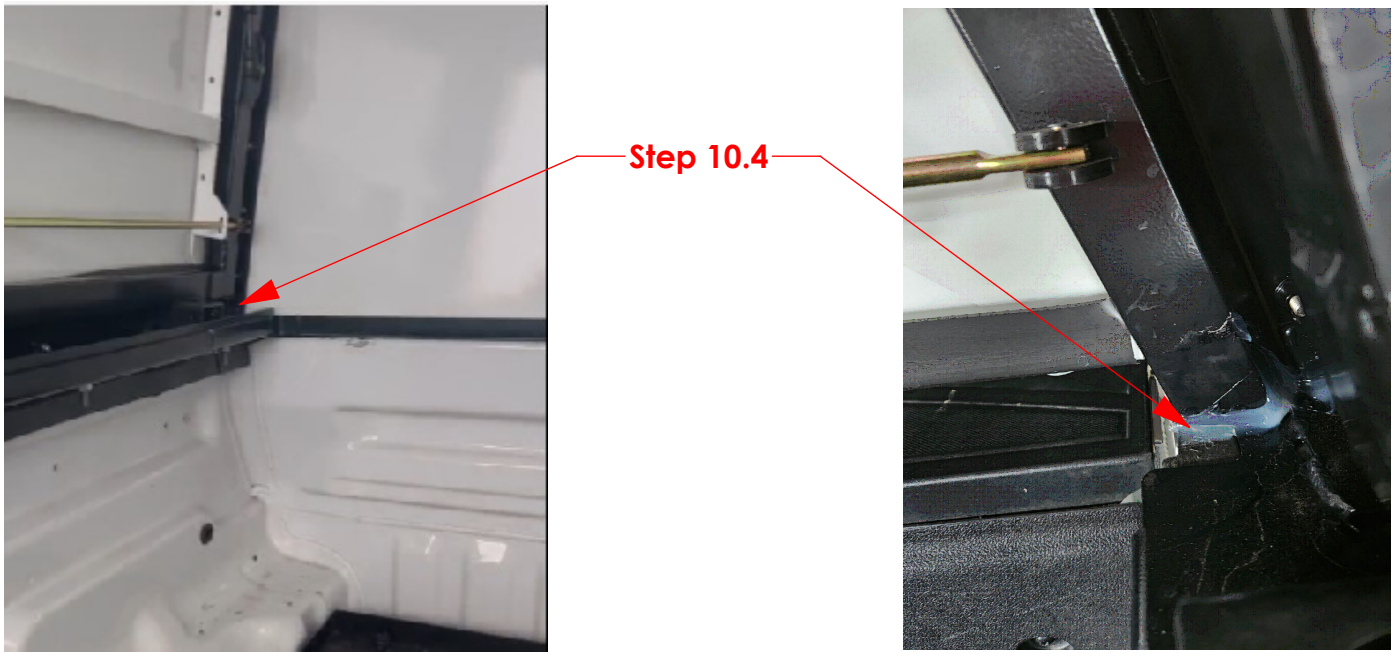
**(8 PLACES)**
**1/2" SOCKET**
**1/2" WRENCH**

**Step 10.4**
**ADD TO BOTH SIDES SILICONE BETWEEN FRONT PANEL GAP AND BED RAIL, AND REAR OF TOPPER.**




**FRONT**

**REAR**



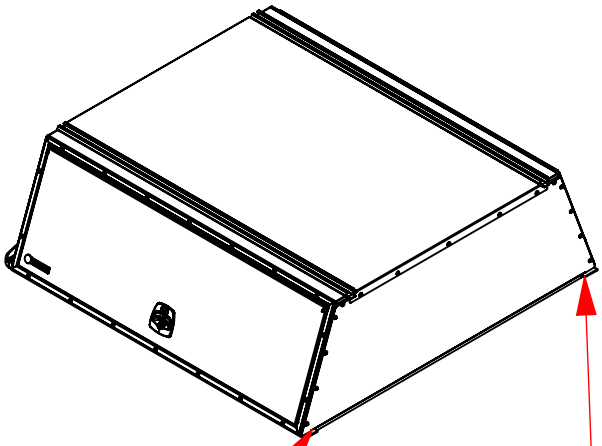

**MAKE SURE ALL FASTENERS ARE TIGHTENED!! INSTALLATION IS COMPLETE**

## *STEP 10 (CON'T) - ATTACH TOPPER TO TRUCK BED*

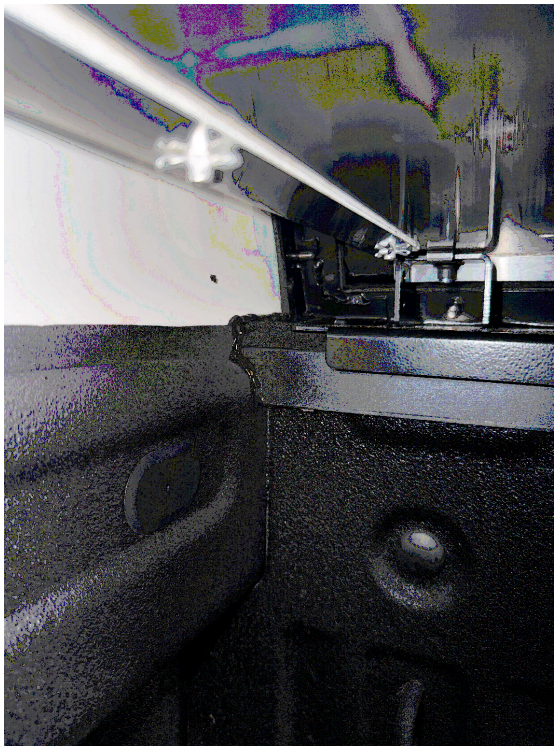
## *NOTE: THIS STEP IS FOR COLORADO TOPS ONLY*

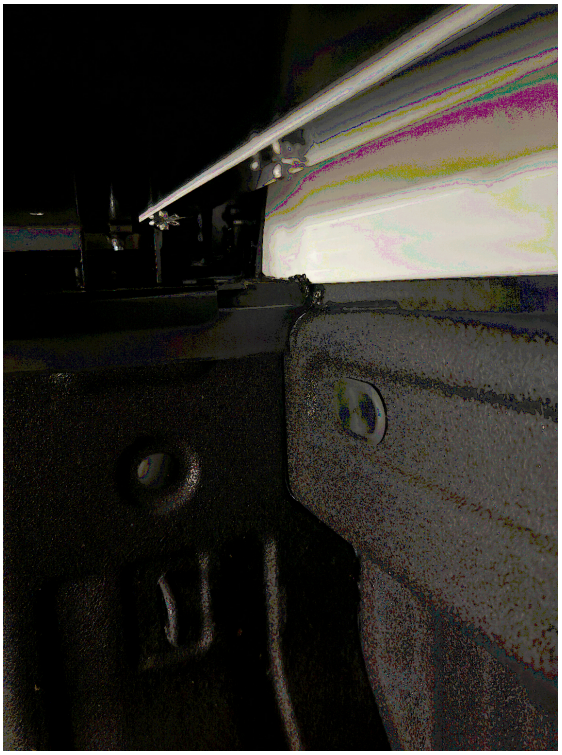
**Step 10.4B ONCE TOPPER IS BOLTED TO BED RAILS, APPLY SILICONE (26618-0) TO LOWER INSIDE CORNERS OF THE TOPPER CLOSEST TO THE CAB, SEALING THE GAP TO THE BED RAIL.**

**NOTE: IMAGES SHOW BLACK SEALENT, SILICONE PROVIDED WILL BE CLEAR.**



**PASSENGER SIDE** **DRIVER SIDE**





**MAKE SURE ALL FASTENERS ARE TIGHTENED!! INSTALLATION IS COMPLETE**

# *STEP 10 ( CON'T) - ATTACH TOPPER TO TRUCK BED*

**NOTE: (FOR 8.0' 26" TALL RAM 1500, 2500, 3500 ONLY) TOPPER MUST BE SOFT INSTALLED TO MARK FOR DRILLING. TOPPER TO BE REMOVED PRIOR TO DRILLING.**

**Step 10.4**
**COLORADO TOPPER. ALIGNMENT IS BASED OFF OF THE TAILGATE AND THE SIDE BED RAILS.**

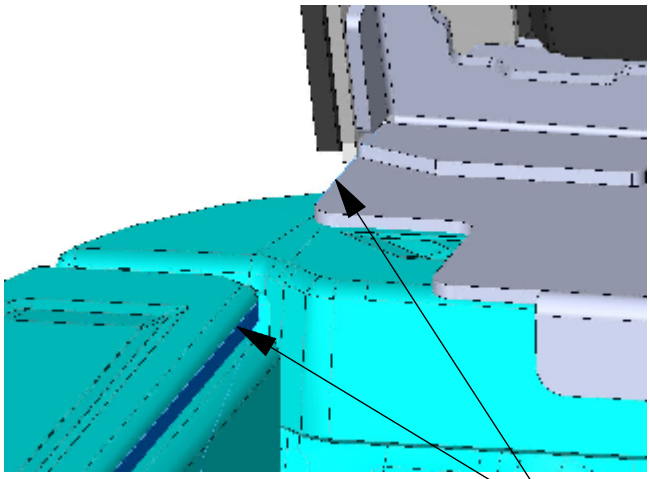
**THESE 2 FACES SHOULD BE ALIGNED.**

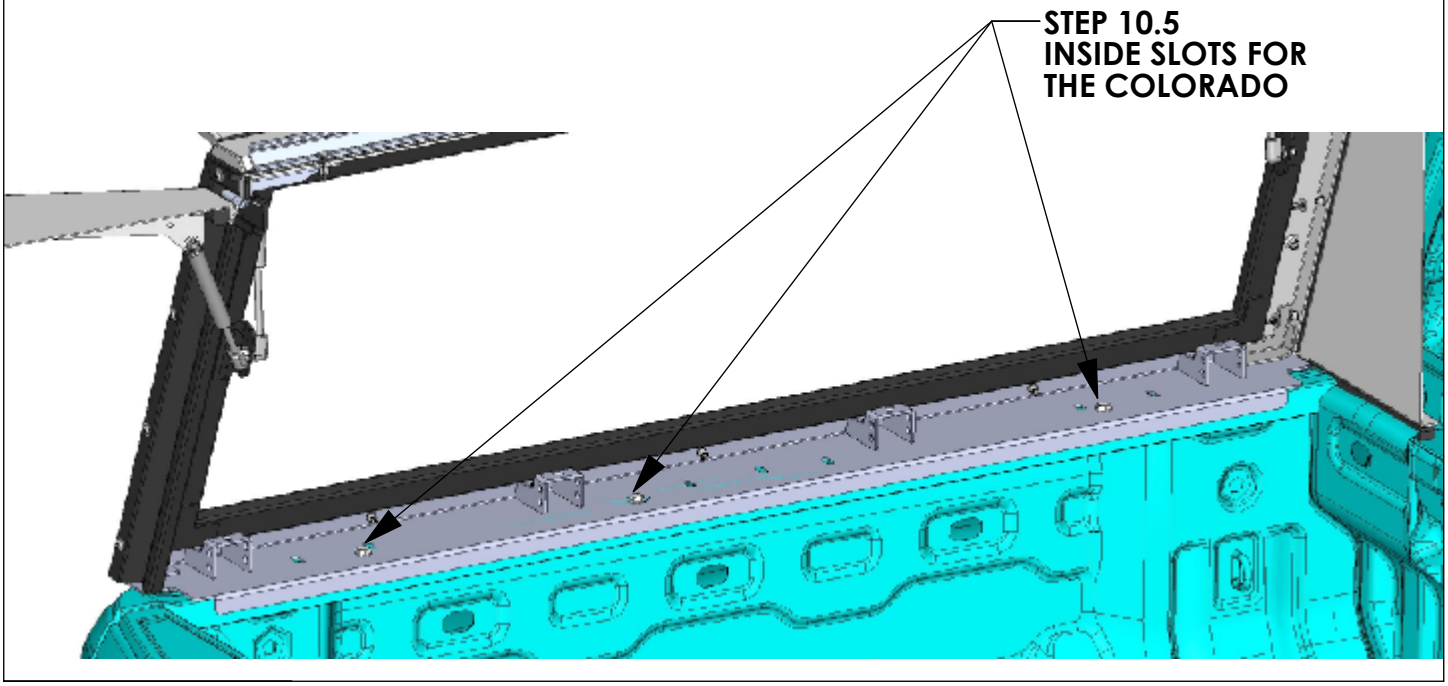
**Step 10.5**
**USING THE HOLES YOU JUST DRILLED OUT, FASTEN THE TOPPER TO THE TRUCK BED.**
**FAS0242,**
**FAS0552 [x2],**
**FAS0248**

**(6 PLACES)**
**1/2" SOCKET**
**1/2" WRENCH**

**NOTE: IT IS RECOMMENDED THAT YOU LOAD THE TOPPER ONTO A TRUCKBED WITH ONE OF THE FOLLOWING METHODS:**

**-HOIST: ATTACH TO THE ROOF RAILS OF THE TOPPER**
**-FORKLIFT: OPEN THE REAR DOOR AND SET FORKS ON THE ROOF BOWS**
**-MANUAL: HAVE 1 INDIVIDUAL AT EACH CORNER OF THE TOP AND CARRY OVER THE SIDES OF THE TRUCK. DO NOT SCRATCH THE VEHICLE.**



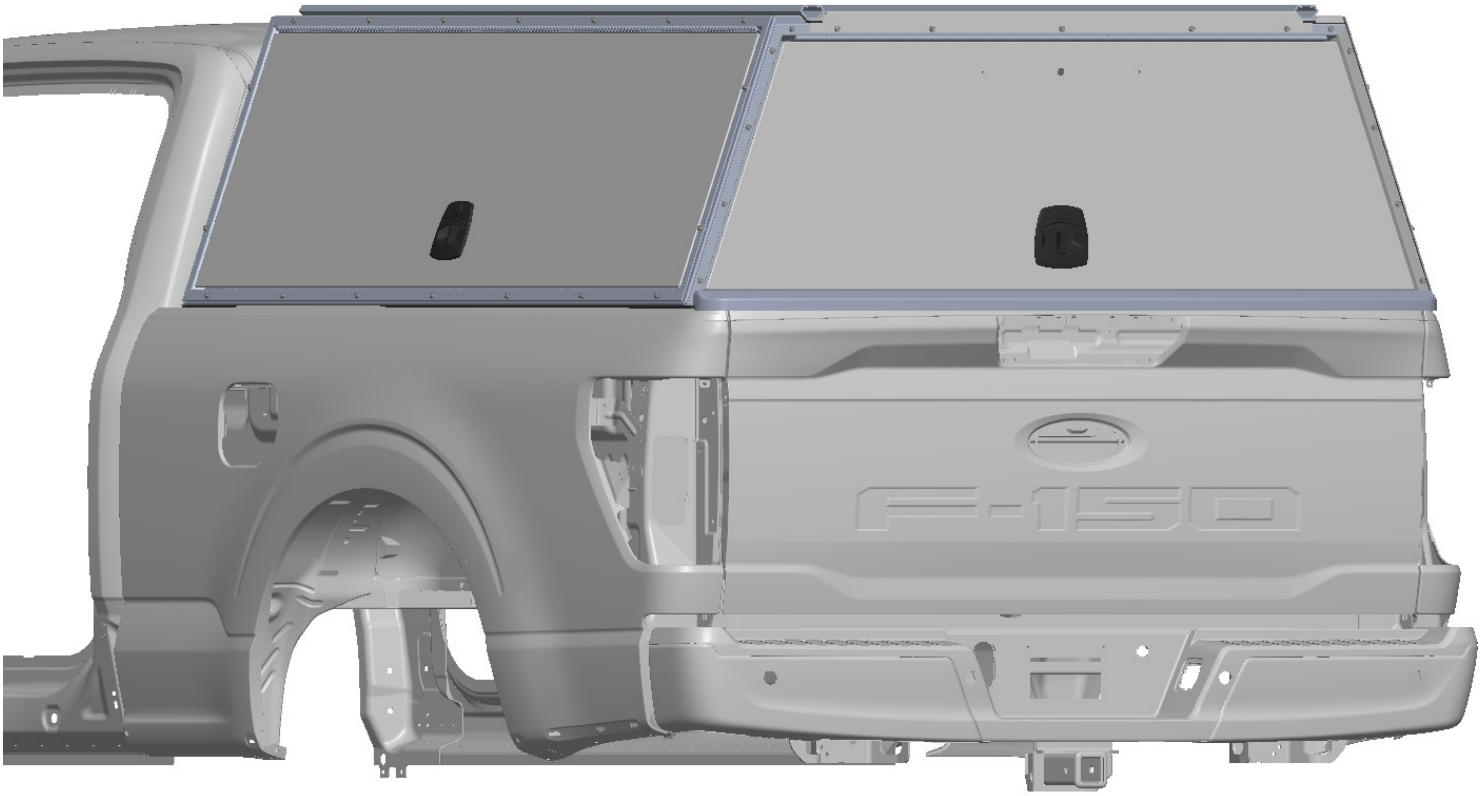

**MAKE SURE ALL FASTENERS ARE TIGHTENED!! INSTALLATION IS COMPLETE**

## Introduction / Comments:

Install Instructions For Brake Light On Topper For Ford F250 / F350 (6.75’ & 8’)

### Note:

Read all instructions prior to installation. Review the Adrian Steel **GENERAL PRECAUTIONS (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 for Brake Light On Topper - Ford F250 / F350 (6.75’ & 8’)

# Section 1: Table of Contents

**Table of Contents:**

Page 1: Cover Page/Introduction ..... 1
Section 1: TOC & Safety Precautions Information ..... 2
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Section 4: General Vehicle Layout ..... 6
Section 5: General Wiring Diagram ..... 7
Section 6: Vehicle Integration ..... 8
Section 7: Test and Check ..... 14

These symbols are used in the document to warn installer to make sure there is understanding beyond general precautions used when working on electrical installations.

| | |
|---|---|
|  | ANSI Z535.6-2006 refers to the use of blue when "addresses practices not related to personal injury". |
|  | Yellow labelling level of personal injury = could result in minor injury. |
|  | Red labelling level of personal injury = could / will result in death. |

## Section 2: Cable Kit Part Identification [PART# 72914]:

**Pre-Assembly Picture of All Parts**




# Parts Included:

- (173”) Nylon Harness Loom
- (1) P-Clip, Philips self tapping screw
- (4) Self-Adhesive tie mounts
- (2) Alcohol pads
- (1) Grommet
- (7) Tree mount cable ties
- (10) Cable ties
- (1) Fastener



# Section 3: Tools Needed & Fastener ID/Torque Table:



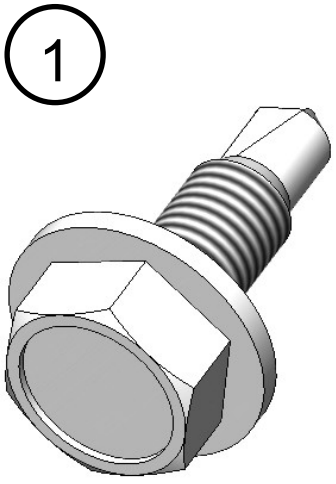

1. Insulated Splice Crimper
2. Wire Strippers
3. Diagonal Cutters
4. Drill driver
5. Phillips Bit with 9/16” Drill driver bit
6. 3/4” Hole or Step Drill (Unibit)
7. Sockets:
    - 10mm
    - Socket driver and extensions

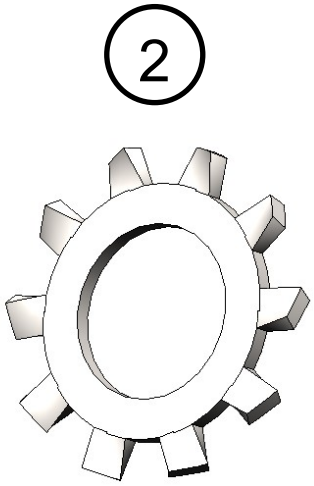
Figure 4-1: Tools Needed for Installation

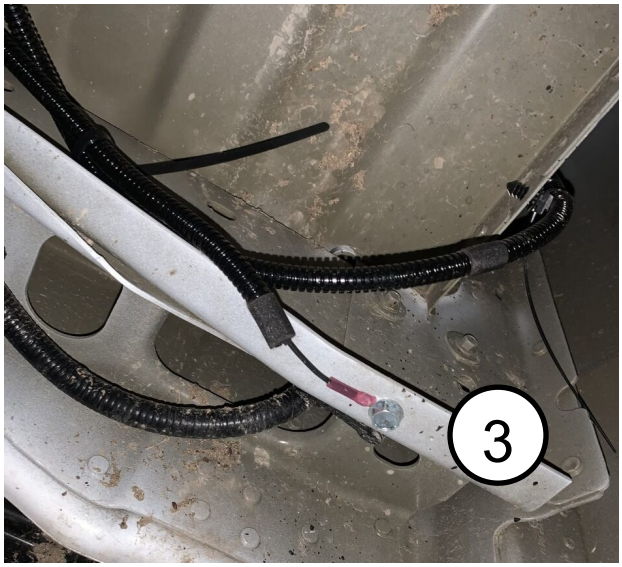
# Section 3: Tools Needed & Fastener ID/Torque Table:

## Torque Table for fasteners in kit and on ground:

| ITEM NO. | ASC PN | Description | PCS | Torque Range | Use Wrench or Size |
|---|---|---|---|---|---|
| 1 | FAS0641 | ¼” HH Self tapper | 1 | | 7/16" |
| 2 | FAS0066 | ¼” Star tooth Washer Galv. | 1 | — | — |
| 3 | Ground Stud fastener | 10mm Nut | 1 | 12Nm [+/- 1.2Nm] (106 lb.in). | 10mm NUT |

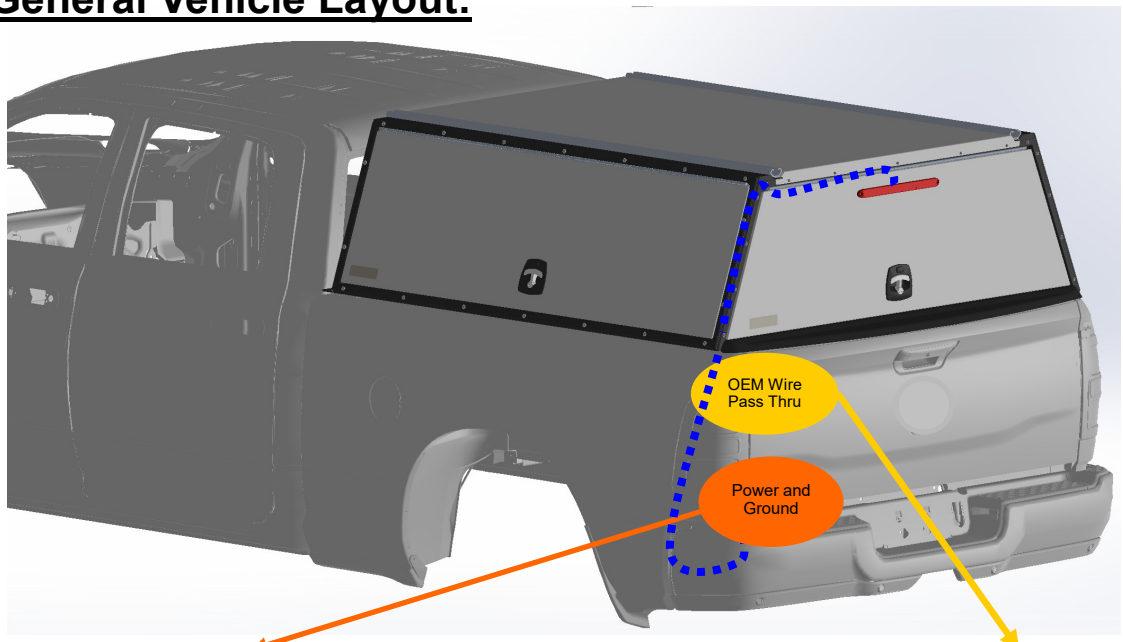



Used for Grounding to Chassis

## Section 4: General Vehicle Layout:



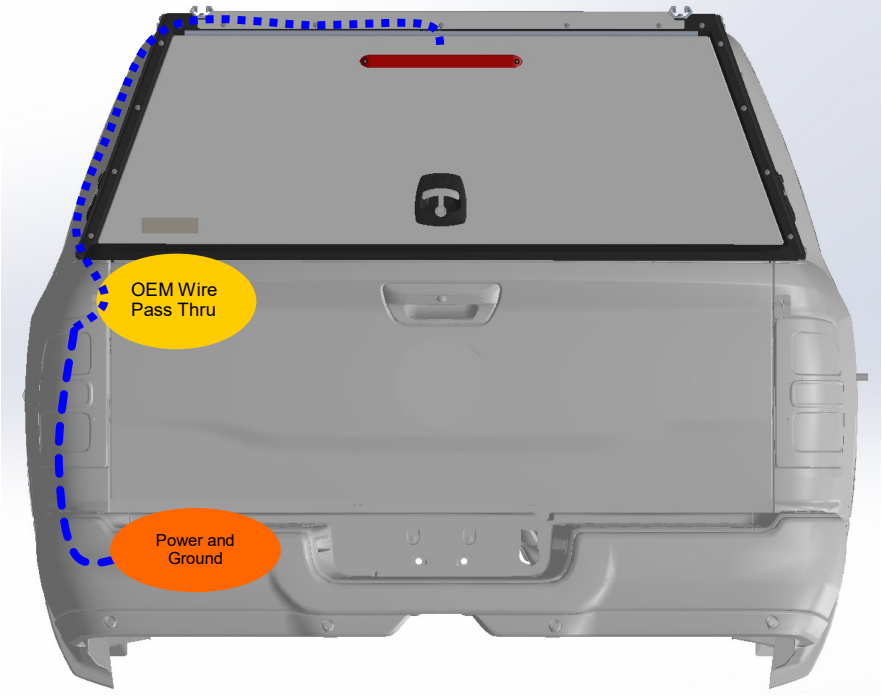






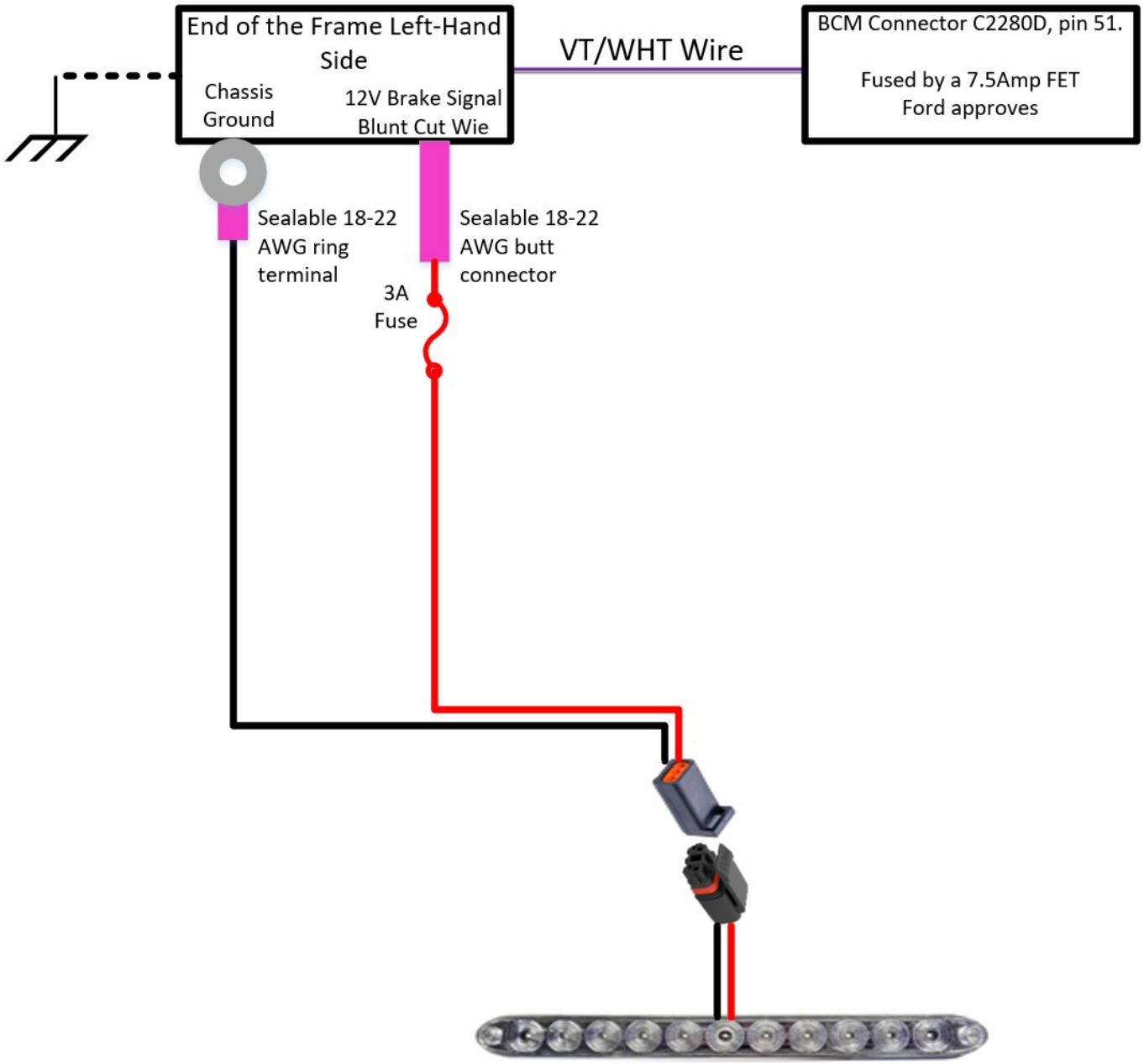



| Color | Key - Items |
|---|---|
| Orange | Power and Ground Location |
| Blue | Harness Routing |
| Yellow | Bed Wire Pass Thru |



# Section 5: General Wiring Diagram:

## F250/350 2023 and 2024




**Ford F250/350 SD**

**MY2023/2024 ➔ 6.75 & 8' Beds**

Violet / White blunt cut wire located on rear driver side frame

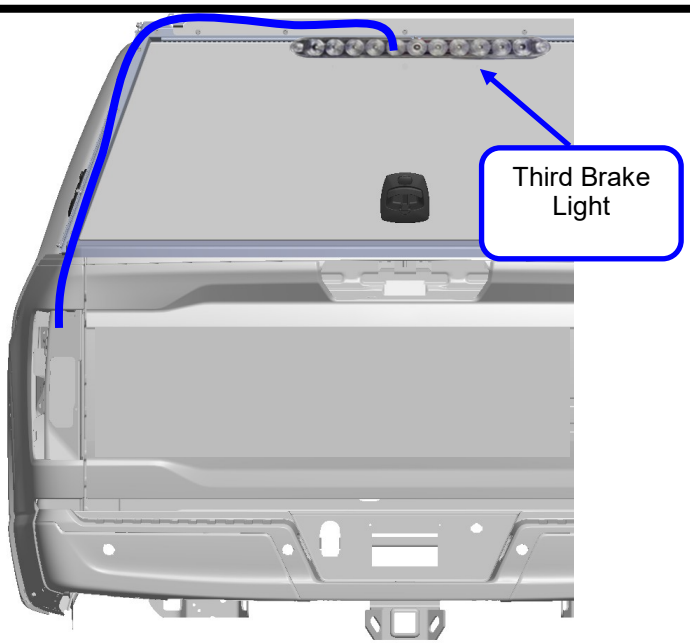
Figure 5-1: Wiring Diagram

# Section 6: Vehicle Integration



**Step 1:** Locate the brake light harness 72914.

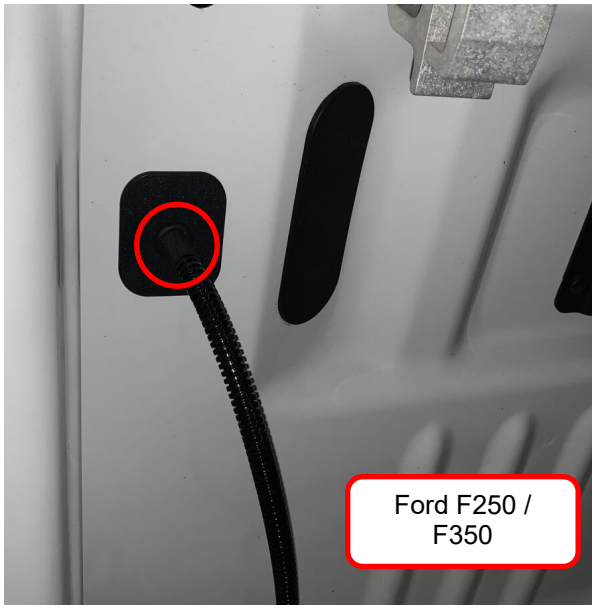
Remove the fuse from the inline fuse holder until the end of the install.




**Step 2:** Locate the 3rd brake light located in the middle rear of the topper. Plug mating end of brake light harness (72914) into pre-existing connector for the brake light.

Once connection of the brake light and harness are made, use the push-click-pull method to ensure positive locking of the connector.

The routing will be inside, along the top of the topper then down along the side corner.

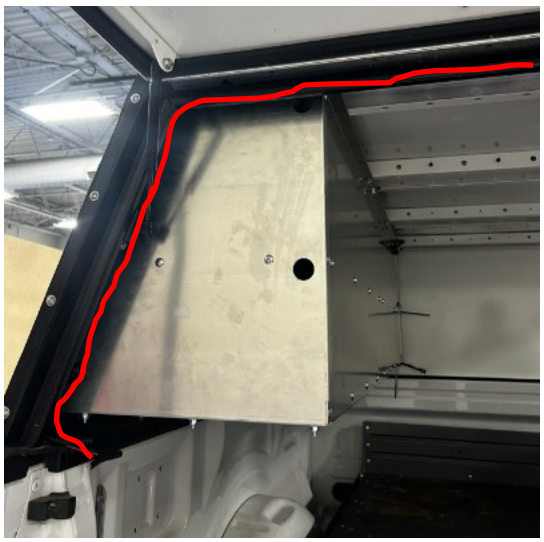



**Step 3:** Locate OEM grommet cover located in the truck bed wall on the driver side.

Using a drill and a 9/16" drill bit, drill a 9/16" hole in the center of the cover. Use the image to the left as reference. This hole will allow for the harness to be inserted into the side of the truck bed.

The end of the harness will be pushed through the 9/16" hole in the cover, then down into the square access hole and down to the bottom of the truck.

Push the harness through the 9/19" hole until the grommet meets the cover. The grommet will then be pushed into the drilled hole and the cover pushed into the square hole.



**Step 4:** Routing (refer to routing diagram at beginning of instructions).

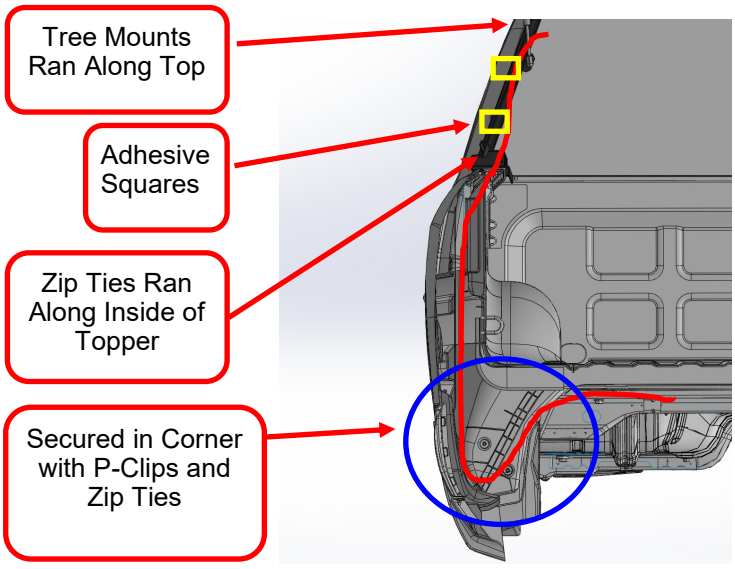
Following the images to the left, begin to route the harness from the brakelight towards the grommet cover.
Continue routing the brake light harness inside the topper. The harness will be roughly routed from the brake light directly towards the driver side topper door and routed down as shown in the image.

Be sure to leave extra wire from the brake light to the topper rails before securing. This ensures the wires will not break when the topper door is opened and closed.

***IMPORTANT:
Ensure while securing wiring to avoid all sharp edges. (Shown in image 2, circled in red).





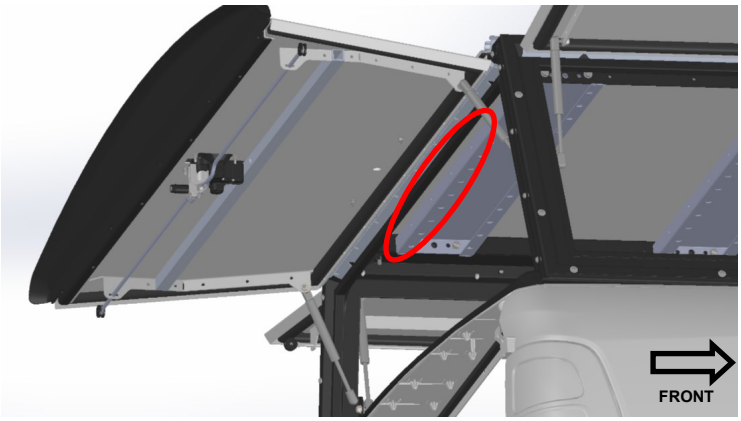




**Step 5:** Begin to secure the harness using provided zip ties and stud mount zip ties where necessary. Ensure the harness is taut. Once the harness is secured running along the inside of the driver side, drop the harness down the D-pillar of the vehicle, through the grommet cover.

Pull the harness and ensure the grommet on the harness is in proper position with the cover.

The harness down the D-pillar shall be tightened to the rail using p-clips to hold the harness in the corner as it goes towards the bed wire pass through cover.

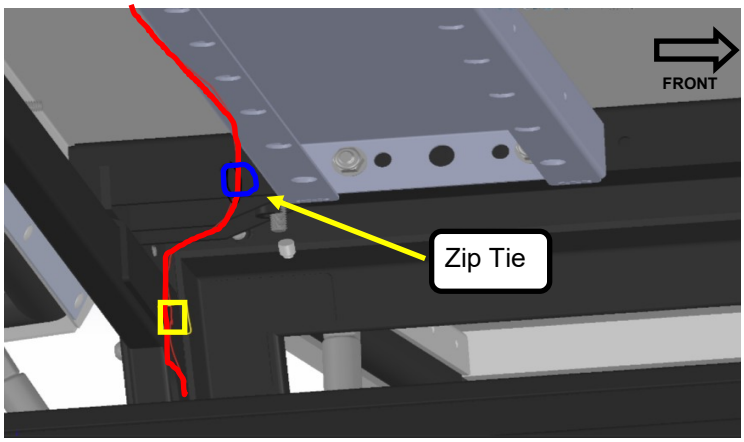
*** Use image as reference only. Drill p-clip into bed crossmember and do not drill into bed floor.



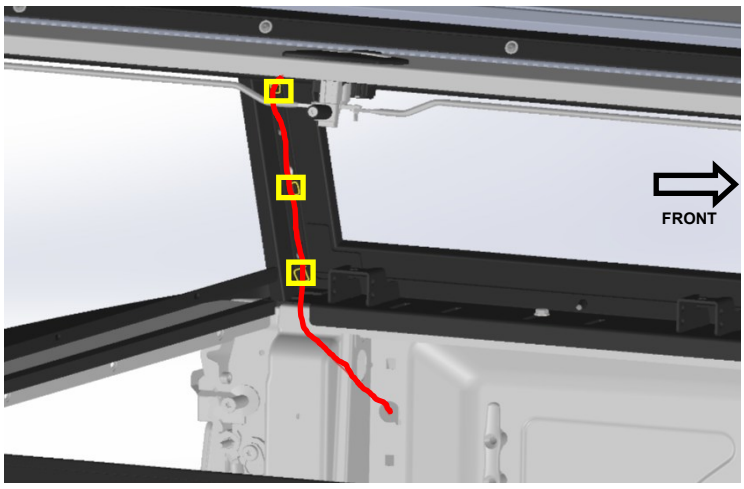

**Step 5 Cont. :**

***** Note: Routing explained more below.**

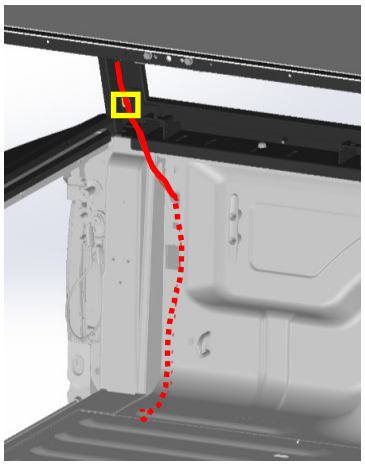
As shown in the first image to the left, route wire harness along first roof bow utilizing tree mounts and zip ties.



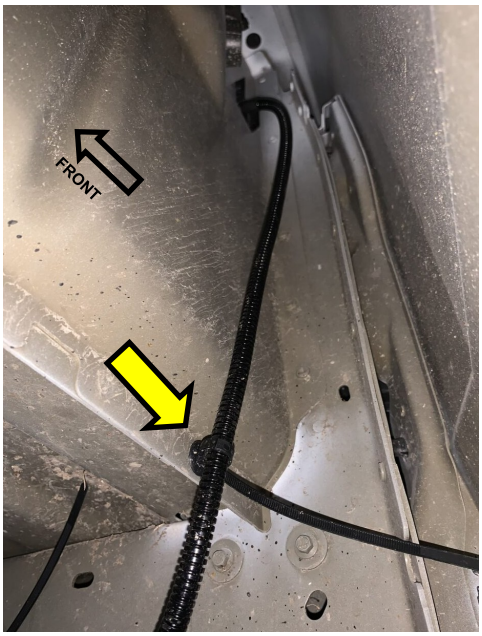

Once harness is secured along first roof bow, locate the first hole running along the driver’s side wall, indicated in the 2nd image. Using a zip tie, secure the harness in the first hole. Ensure the harness is avoiding all sharp edges, as well as not too taut to damage the harness.




Install stud-mount zip ties along the inside edge of the topper, as shown in the third image. Route the harness along the inside edge and secure it to the stud-mount zip ties.



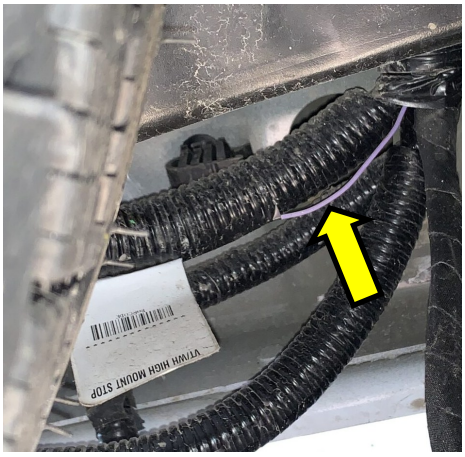
Lastly, once the harness is entirely secured, route the harness downward through the D-pillar as shown in the last image on the left.




**Step 6: MOVE TO REAR UNDERSIDE OF VEHICLE.**

Locate the brake light harness 72914 that is dropped through the side of the bed (at the D-pillar) and ensure that the fuse from the inline fuse holder is removed until the end of the install.

Following the image, secure the harness using zip tie to pre-existing hole in frame (Yellow Arrow).



**Step 7:**
On the street side, rearward of the vehicle spare tire, there is access to the harnessing for the rear high mount stop signal.

Begin to pull OEM harness out from behind truck spare tire until you can visually see the blunt cut wire end wrapped in black tape. Locate the violet and white wire as shown in the image.

Begin to strip the wire covering and prepare it to be connected to the brake light harness.



**Step 8:** Locate the end of the harness (PN72914) with the ring terminal and butt connector.

Use the butt connector to connect to the OEM CHMSL wire. Use a heat gun to shrink the butt connector once crimped on. **It must be completely sealed.**

**Use images as reference.**







**Step 8:** Route the other end over the underbody frame rail to where the harness drops down the D-pillar. Follow the image as reference.



Using the self tapping screw and star washer (see Page 5), screw the ground wire ring terminal to the vehicle.

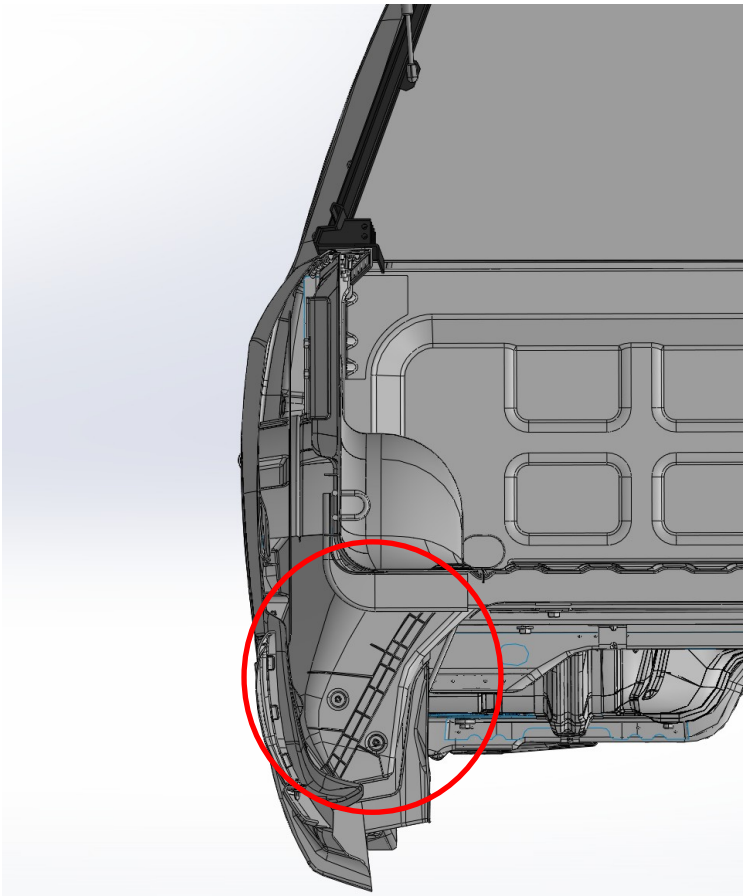
Be certain that self tapping screw and star washer are on either side of the ring terminal and firmly tightened into the body sheet metal structure. It is advised to remove a small portion of the paint in that are to ensure good contact with the sheet metal ground. If the ground connection is loose or insufficient the brake light will work intermittently or not at all.

Ensure the fastener is sufficiently driven into the sheet metal and check the ring terminal to see if it rotates.

Route the harness over towards the blunt cut wire, secure wiring along OEM harnesses in that same area.

***** Note:**
Use the following images as reference for wrapping extra wiring together near spare tire.





**Step 9:**

Loop and tie up any extra harness high as possible.

There can be no extra harness beneath the vehicle where snow and ice can pull down. All harness on the bottom of the vehicle should be cable tied in 6-8 " increments along the existing harness in that area.

Be sure to secure the harness using zip ties and p-clips where necessary. Be sure to mount p-clips in a proper location to not damage the vehicle.

If needed, harness can be routed and secured following existing harnesses. Be sure to secure harness directly in the area circled in red.



**Step 10:**

Place removed fuse back into proper fuse holder position.



## Section 7: Test and Check

*** Once the entire install is complete, place fuse back into harness fuse holder. Ensure fuse is placed properly in fuse holder (it is covered with fuse holder cover), all connections are correctly sealed, and ground has a good connection.

With the vehicle off, press brake pedal.
Once brake pedal is pressed, the OEM brake lights as well as 3rd brake light shall light up.

If the vehicle does not display brake lights or newly installed third high mount stop light when brake pedal is pushed and the vehicle is off, try again while the vehicle is on.

**<< Some manufacturers configure the third stop light signal differently– the light must ALWAYS operate when the vehicle is *running*>>**

Lastly, ensure all harness is secured inside topper as well as under vehicle.

The install is now complete! ***