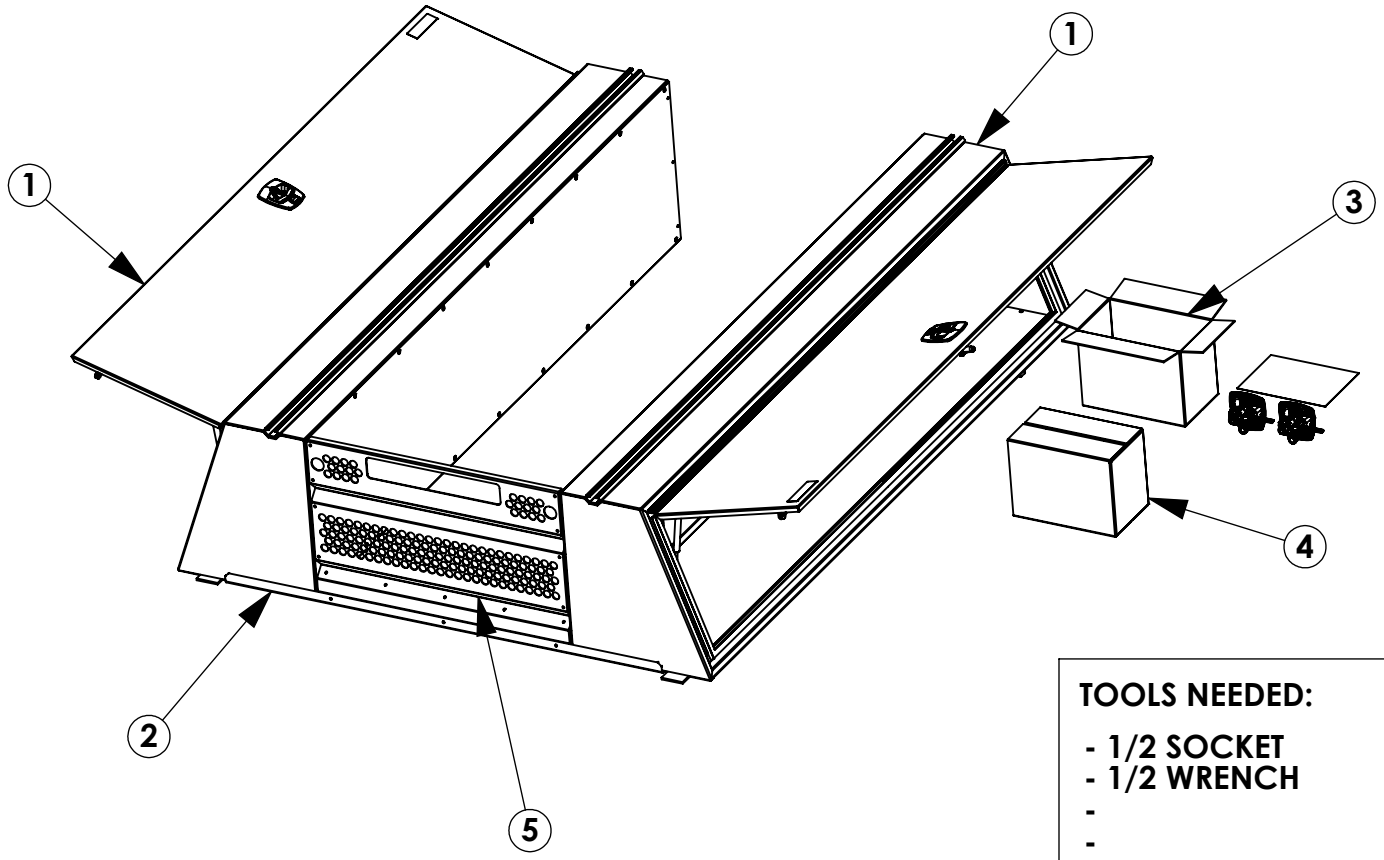
INSTR. NUMBER : 80397	PG: 1	REV: B
PART NUMBER : TSBX-8F1E		
PART DESC. • TOPSIDER KIT, F-150, 8' • BOX, E-LOCK		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TS-BOX8	TOP SIDE BOX, 8' ASSEMBLY	2
2	TS-BKF2	TSB FORD 8' BED BRKT KIT	1
3	81244	KIT,TOPSIDER,8FT,ELOCK W/LIGHTING	1
4	81248	KIT, TAILGATE CHMSL	1
5	TS-CG1	TSBX, CAB GUARD KIT, 1	1

NOTE:
BOM IS FOR BOTH TSBX-8F1E AND TSBX-8F2E



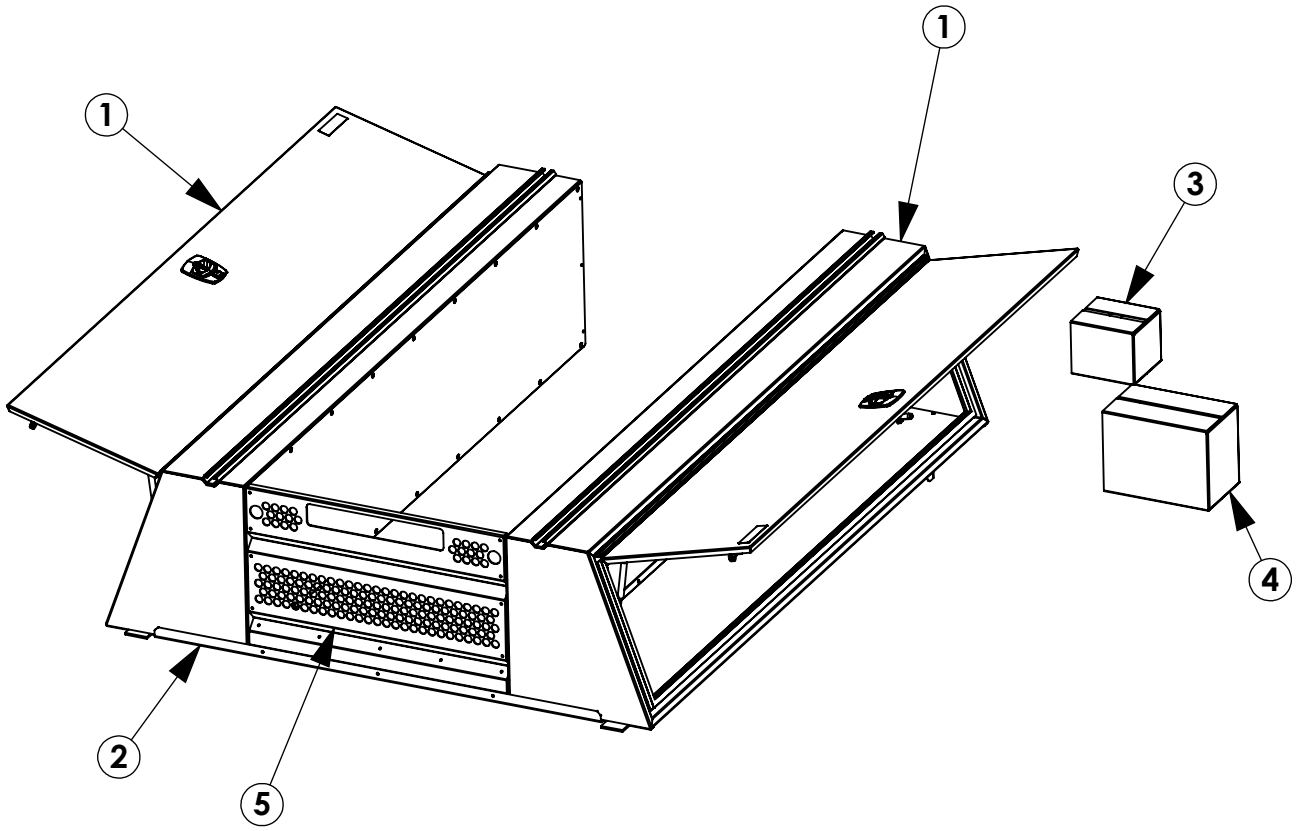
TOOLS NEEDED:

- 1/2 SOCKET
- 1/2 WRENCH
-
-
-
-

INSTR. NUMBER : 80397	PG: 2	REV: B
PART NUMBER : TSBX-8F1M		
PART DESC. • TOPSIDER KIT, F-150, 8' • BOX		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TS-BOX8	TOP SIDE BOX, 8' ASSEMBLY	2
2	TS-BKF2	TSB FORD 8' BED BRKT KIT	1
3	TMLHK2	Topper Mechanical Lock Hatch Kit	1
4	81248	KIT, TAILGATE CHMSL	1
5	TS-CG1	TSBX, CAB GUARD KIT, 1	1

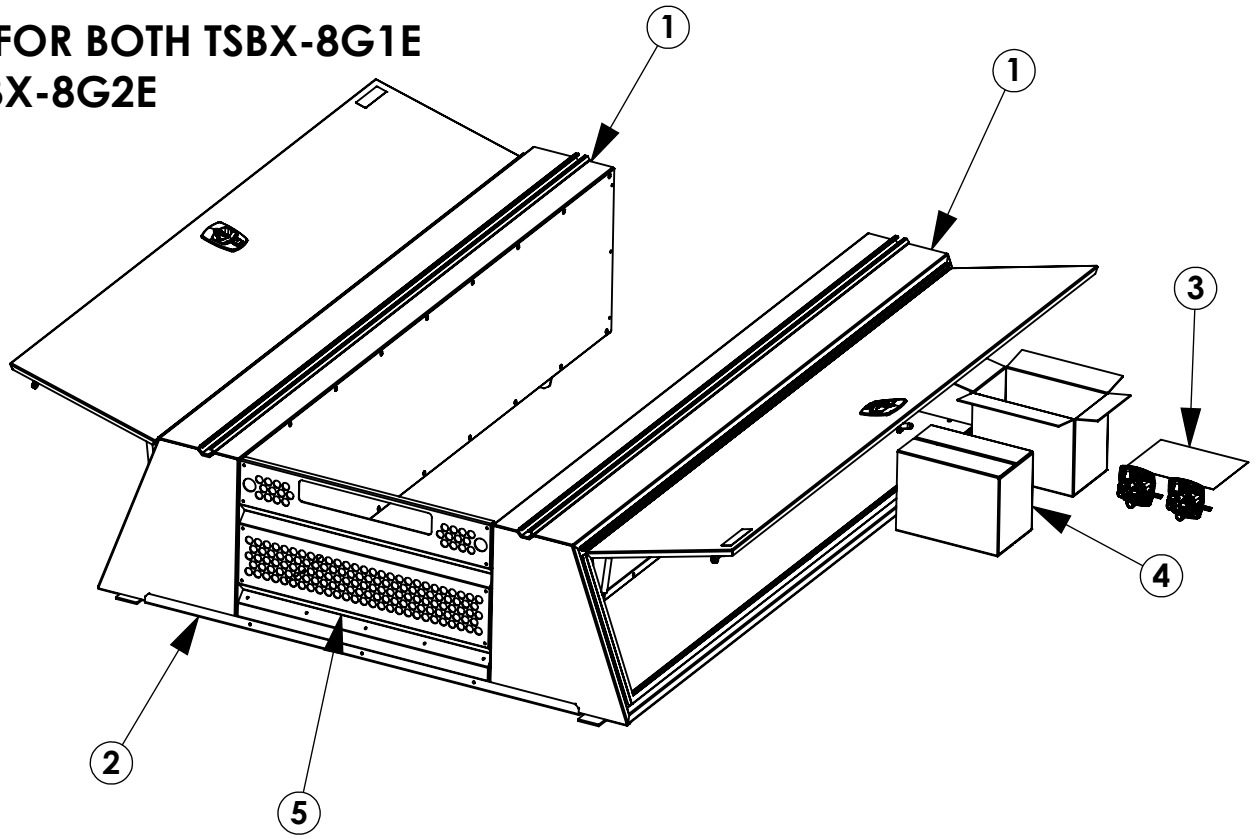
NOTE:
BOM IS FOR BOTH TSBX-8F1M AND TSBX-8F2M



INSTR. NUMBER : 80397	PG: 3	REV: B
PART NUMBER : TSBX-8G1E		
PART DESC. • TOPSIDER KIT, GM 1500, 8' • BOX, E-LOC		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TS-BOX8	TOP SIDE BOX, 8' ASSEMBLY	2
2	TS-BKG2	TSBX, GM 8' BED BRKT KIT	1
3	81244	KIT,TOPSIDER,8FT,ELOCK W/LIGHTING	1
4	81248	KIT, TAILGATE CHMSL	1
5	TS-CG1	TSBX, CAB GUARD KIT, 1	1

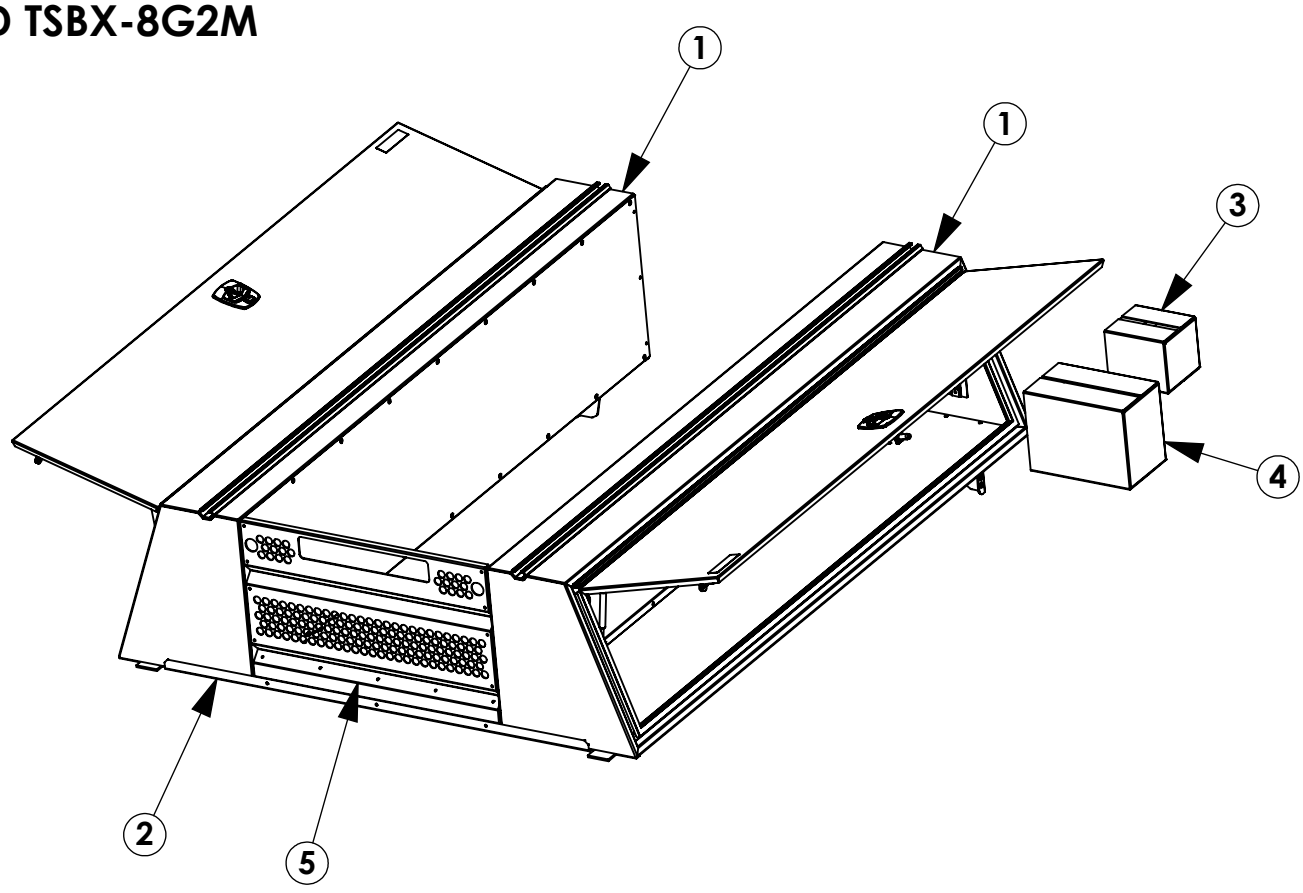
NOTE:
BOM IS FOR BOTH TSBX-8G1E AND TSBX-8G2E



INSTR. NUMBER : 80397	PG: 4	REV: B
PART NUMBER : TSBX-8G1M		
PART DESC. • TOPSIDER KIT, GM 1500, 8' • BOX		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TS-BOX8	TOP SIDE BOX, 8' ASSEMBLY	2
2	TS-BKG2	TSBX, GM 8' BED BRKT KIT	1
3	TMLHK2	Topper Mechanical Lock Hatch Kit	1
4	81248	KIT, TAILGATE CHMSL	1
5	TS-CG1	TSBX, CAB GUARD KIT, 1	1

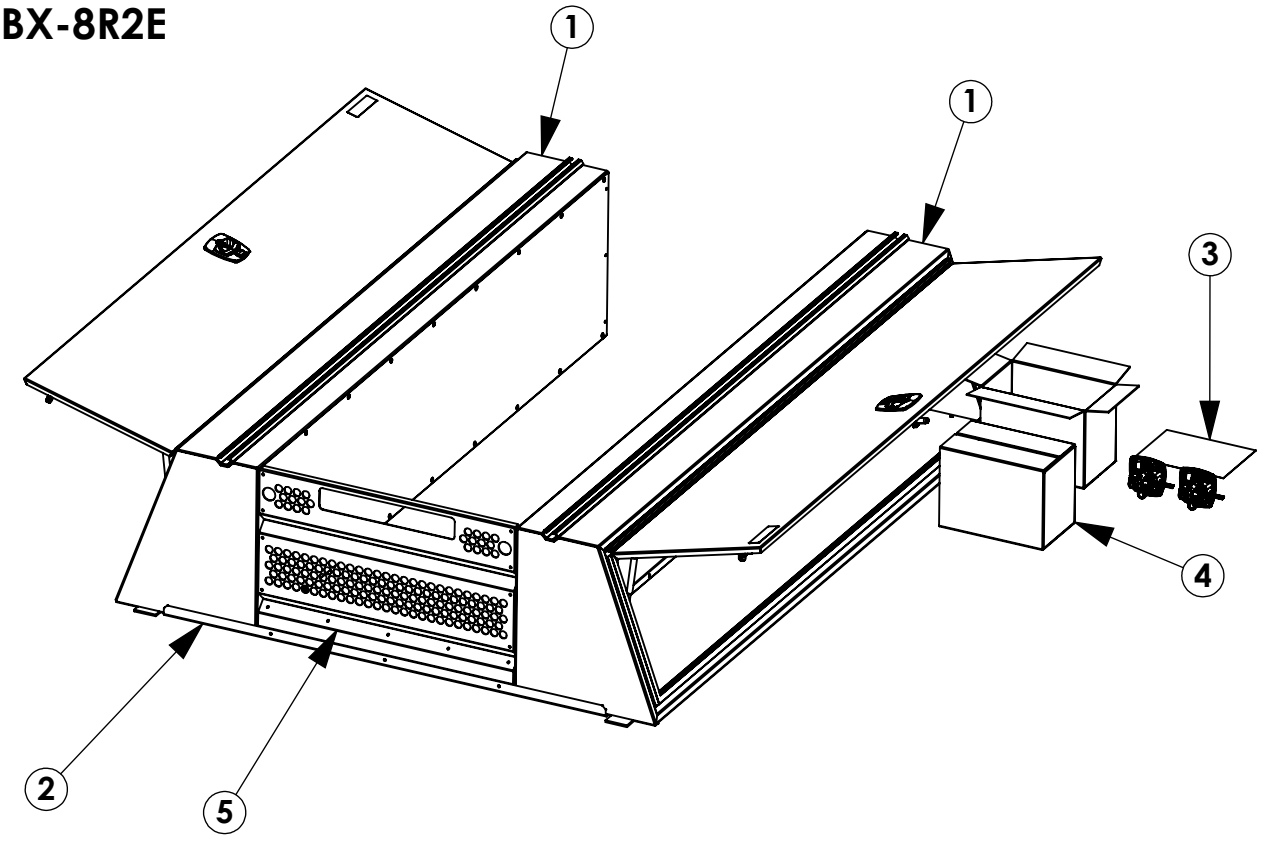
NOTE:
BOM IS FOR BOTH TSBX-8G1M AND TSBX-8G2M



INSTR. NUMBER : 80397	PG: 5	REV: B
PART NUMBER : TSBX-8R1E		
PART DESC. • TOPSIDER KIT, RAM 1500, • 8' BOX, E-LOCK		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TS-BOX8	TOP SIDE BOX, 8' ASSEMBLY	2
2	TS-BKR2	TSBX, RAM 8' BED BRKT KIT	1
3	81244	KIT,TOPSIDER,8FT,ELOCK W/LIGHTING	1
4	81248	KIT, TAILGATE CHMSL	1
5	TS-CG1	TSBX, CAB GUARD KIT, 1	1

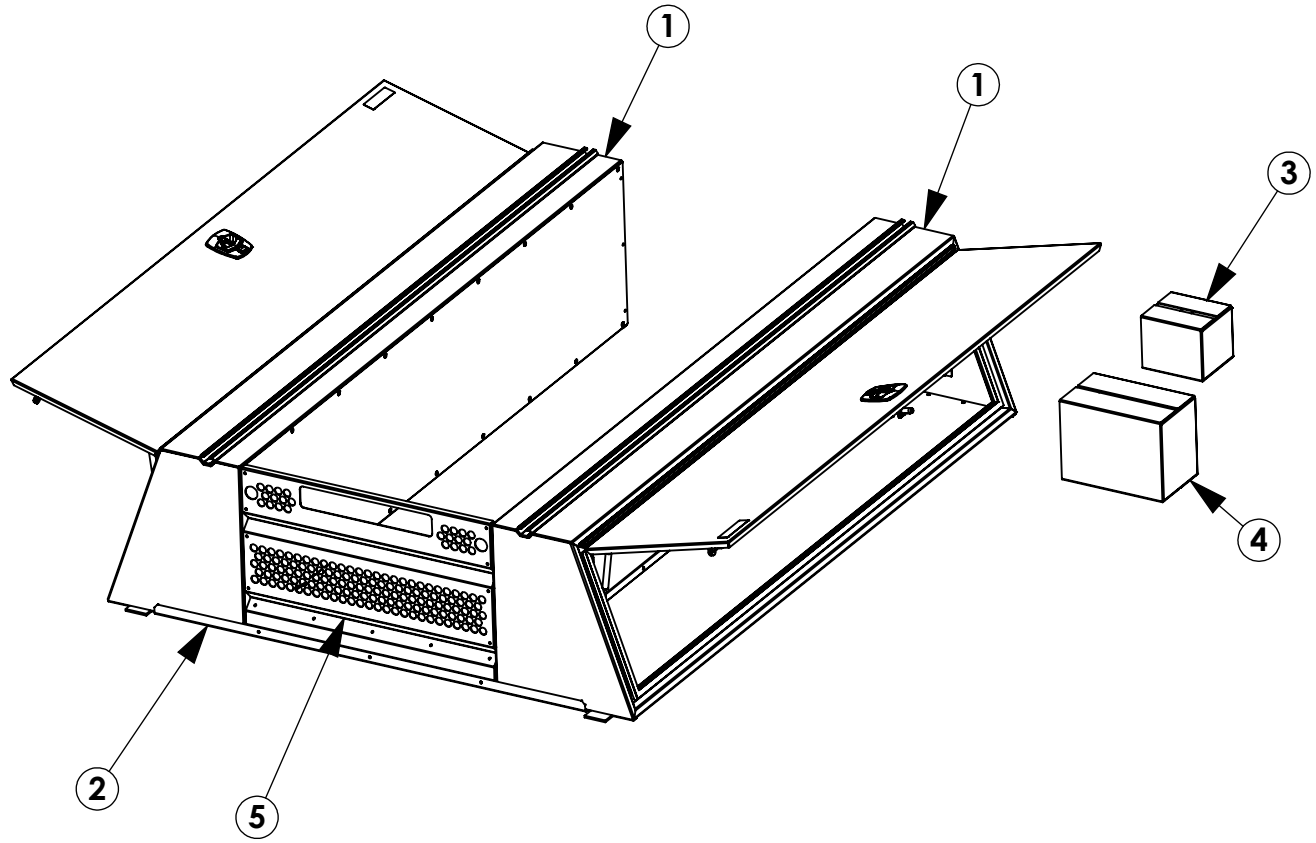
NOTE:
BOM IS FOR BOTH TSBX-8R1E AND TSBX-8R2E



INSTR. NUMBER : 80397	PG: 6	REV: B
PART NUMBER : TSBX-8R1M		
PART DESC. • TOPSIDER KIT, RAM 1500, • 8' BOX		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TS-BOX8	TOP SIDE BOX, 8' ASSEMBLY	2
2	TS-BKR2	TSBX, RAM 8' BED BRKT KIT	1
3	TMLHK2	Topper Mechanical Lock Hatch Kit	1
4	81248	KIT, TAILGATE CHMSL	1
5	TS-CG1	TSBX, CAB GUARD KIT, 1	1

NOTE:
BOM IS FOR BOTH TSBX-8R1M AND TSBX-8R2M



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).

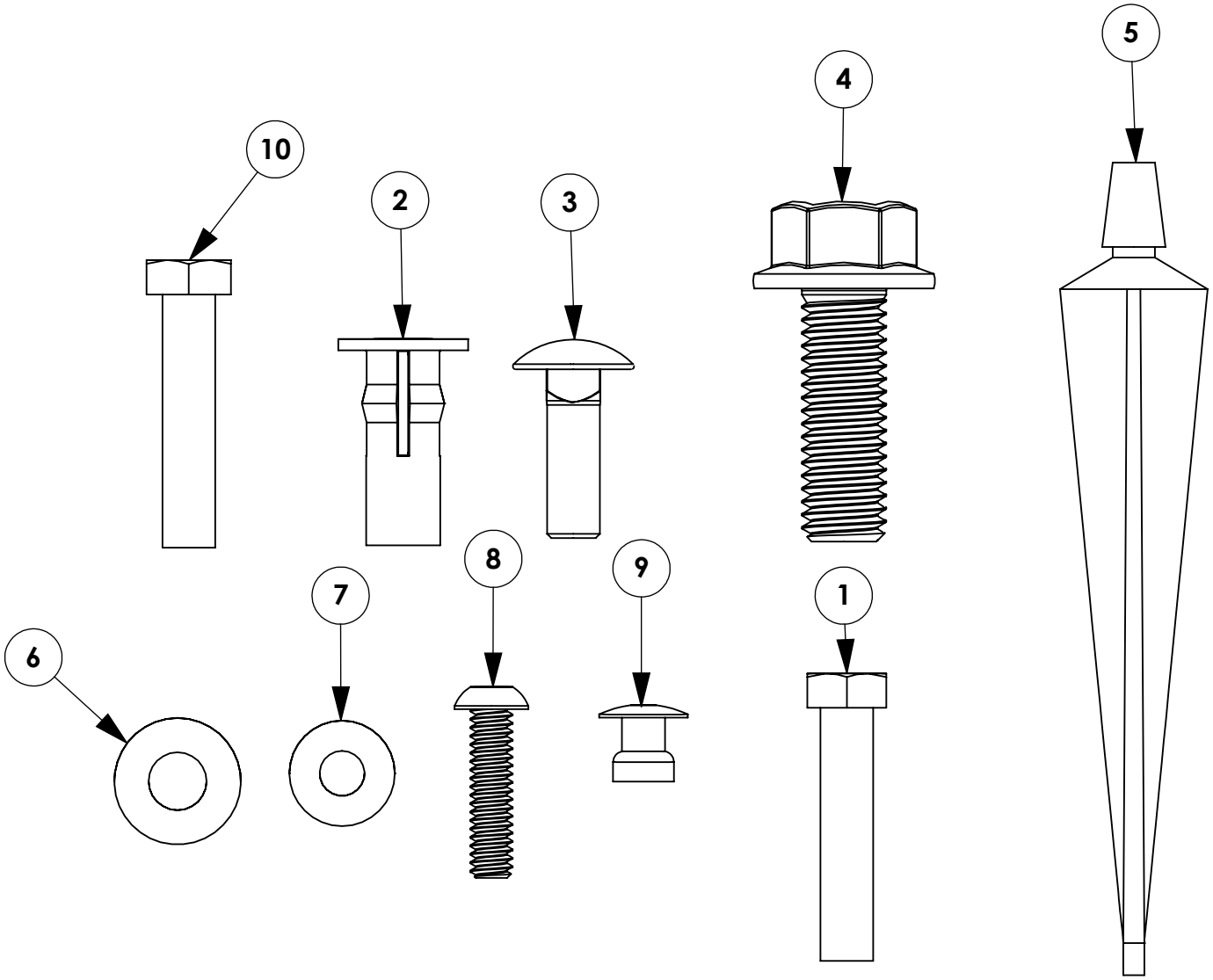
THRU-BOLT CLEARANCE - WHEN USING A THRU-BOLT AT ANY MOUNTING LOCATION, BE SURE THAT YOUR HOLE HAS 1/16" CLEARANCE.

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

FASTENERS USED

BAG REFERENCE: **BAG80398**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FAS0092	Screw, Hex Hd, 5/16-18x1.50 Zn Plate, G8	4
2	FAS0091	Plusnut, 5/16	4
3	FAS0398	BOLT,CRG 5/16-18X1.0 SS	8
4	FAS1025	HHCS FLNG 1/2"-13, 1-1/2" 18-8 SS	2
5	26618-0	Silicone Sealant	1
6	FAS0164	WASHER,FLAT,SAE,5/16,ALUM	10
7	FAS0234	Washer, Flat, 1/4, SST	9
8	FAS0940	SCREW, BHTX 1/4-20X1 SS NP	9
9	FAS0584	Rivet, Blind, Domehead, 1/4 x .25 Grip	6
10	FAS0242	Screw, Hex Hd, 5/16-18x1.50 Stainless Steel	10



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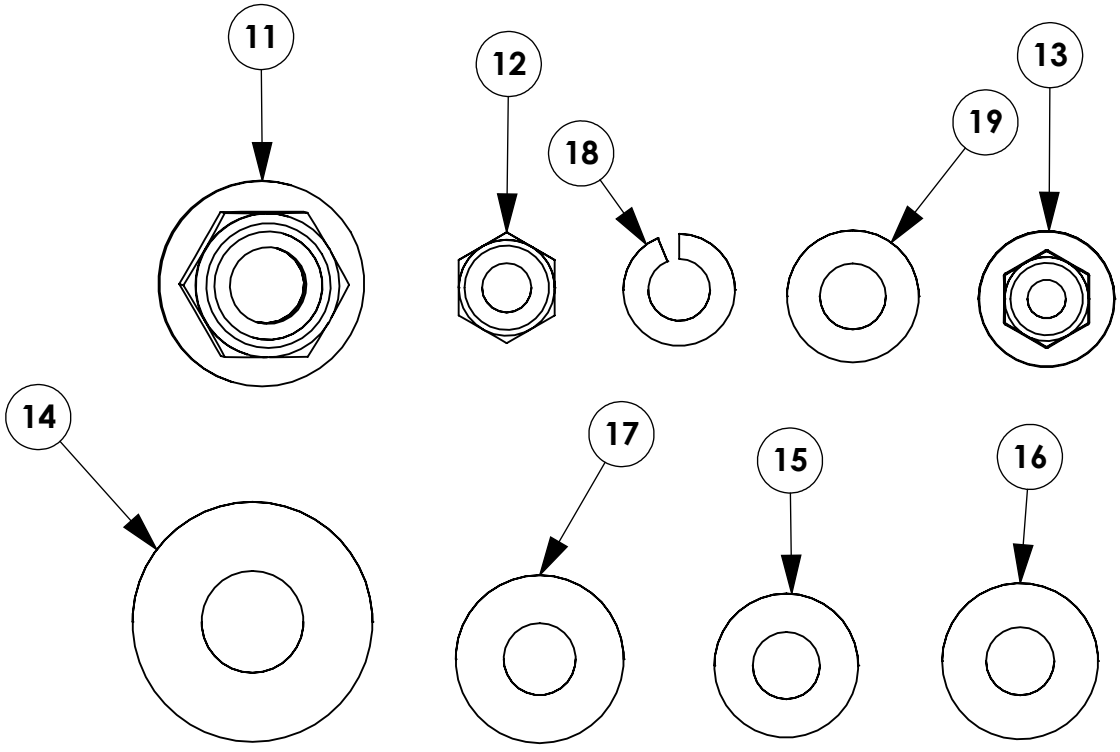
BEST PRACTICE: ORGANIZE ALL FASTENERS & VERIFY THAT ALL ARE ACCOUNTED FOR

FASTENERS USED

BAG REFERENCE: **BAG80398**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
11	FAS1026	NUT, HEX NLK FLG 1/2-13 SS	2
12	FAS0248	Nut, Nylon Insert Lock, 5/16-18 SST	18
13	FAS0055	NUT,HEX NLK FLG 1/4-20 ZP	9
14	FAS0334	WASHER,FLAT 1/2 SS	2
15	FAS0552	Washer, Flat, 5/16, SST	8
16	FAS0688	EPDM WASHER	8
17	FAS0086	WASHER,FLAT USS 5/16 ZP	4
18	FAS0098	Washer, Lock, Split, 5/16, Zinc Plate	4
19	FAS0245	Washer, Flat, 5/16 HRD, ZN	20



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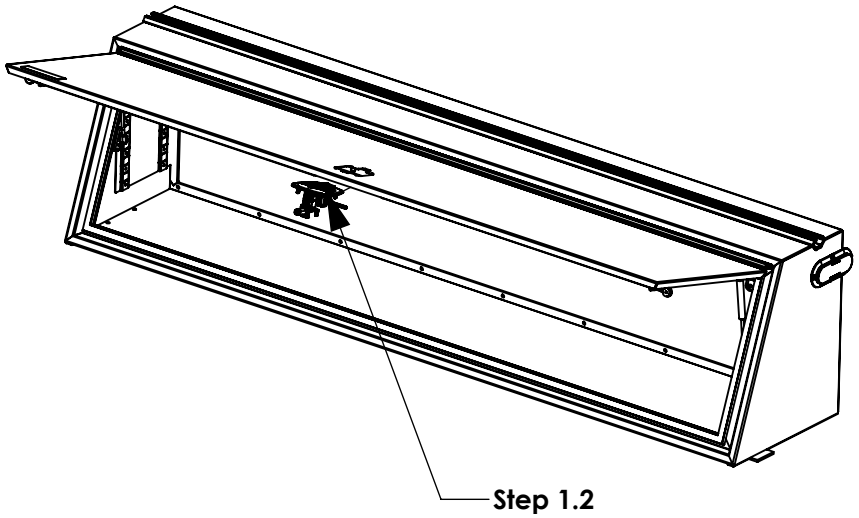
STEP 1 DETERMINE WHICH BOX WILL BE THE PS AND DS SIDE- THESE BOXES WILL SHIP FROM ASC SYMETRICAL

Step 1.1
IDENTIFY WHAT SIDE OF THE BOX WILL BE FACING FORWARD AND REARWARD ON THE VEHICLE.

STEP 1.2
FULLY TIGHTEN FAS0000 AND FAS0000 TO SECURE MECH OR E LOCK TO DOOR. SEE LATCH INSTRUCTIONS FOR MORE DETAIL



LABEL VEHICLE FRONT, REAR, PASSENGER SIDE, DRIVER SIDE (when applicable)

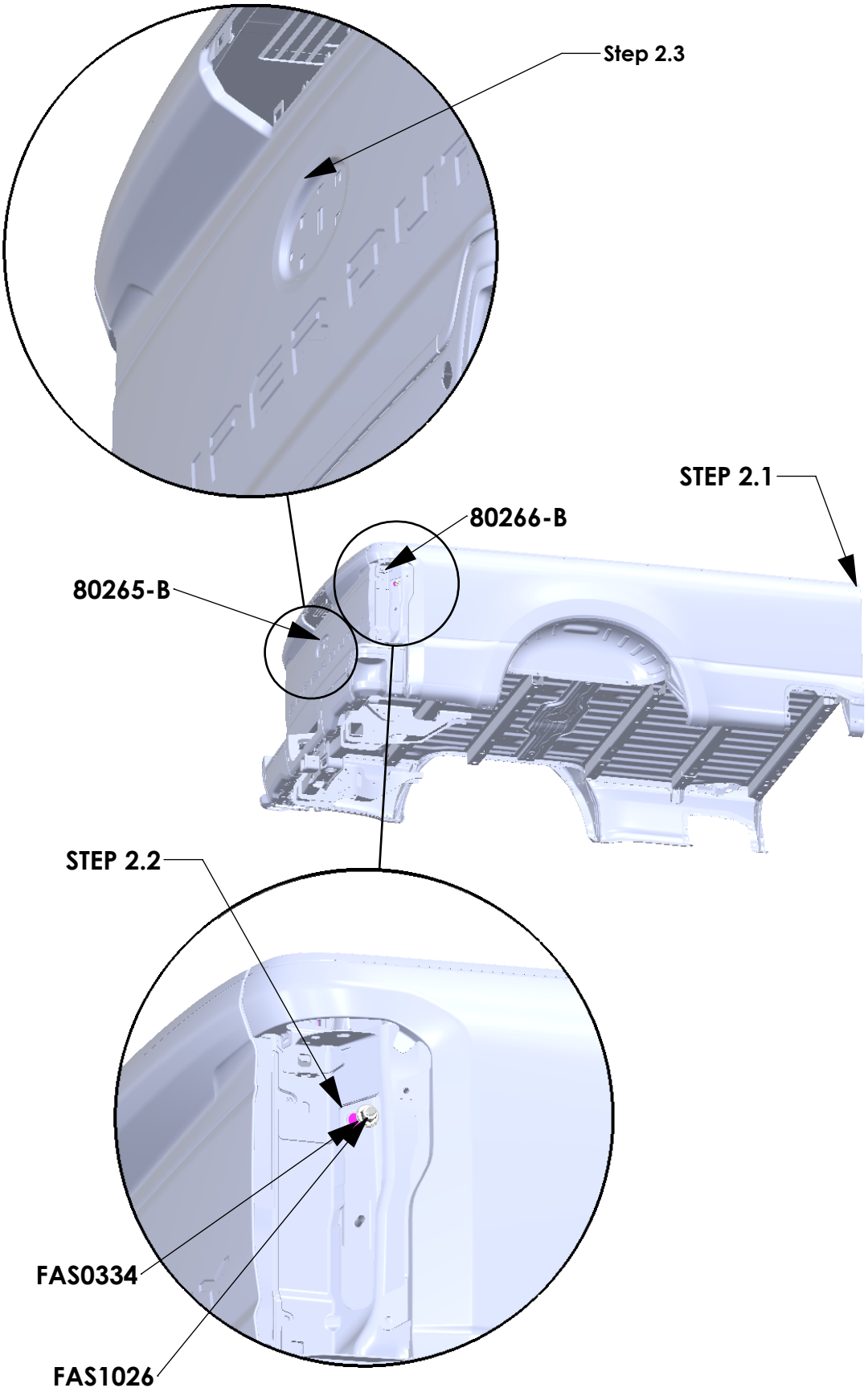
***KEEP ORIENTATION THE SAME THROUGH ALL STEPS WHEN POSSIBE**

STEP 2 - PREP BED (FORD)

Step 2.1
LOCATE THE BED SUPPORT BRACKETS IN THE CAB GUARD BOX, THESE ARE VEHICLE SPECIFIC. MAKE SURE THE PARTS YOU HAVE MATCH BOM FOR YOUR VEHICLE

Step 2.2
FOR FORD/RAM VEHICLE, REMOVE THE TAIL LIGHT TO GAIN ACESS TO MOUNTING HOLE SHOWN

Step 2.3
INSTALL REAR BRACKETS. WE WILL NEED TO LOOSEN AND RETIGHTEN AT VERY END OF INSTALL PRIOR TO REINSTALLING TAILLIGHT
<u>FULLY TIGHTEN</u>
FAS1025, FAS1026, AND FAS0334 (02 PLACES)
1/2 WRENCH
1/2 SOCKET



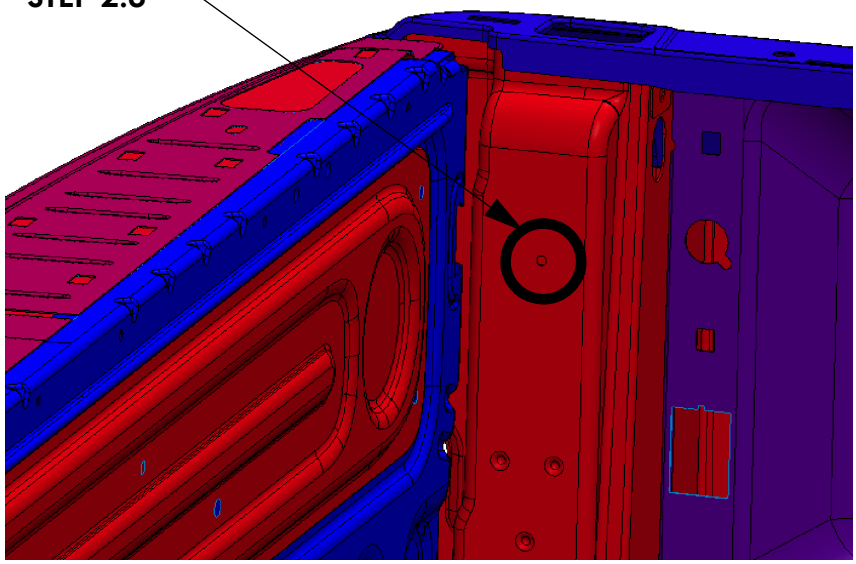
STEP 2 - PREP BED (RAM)

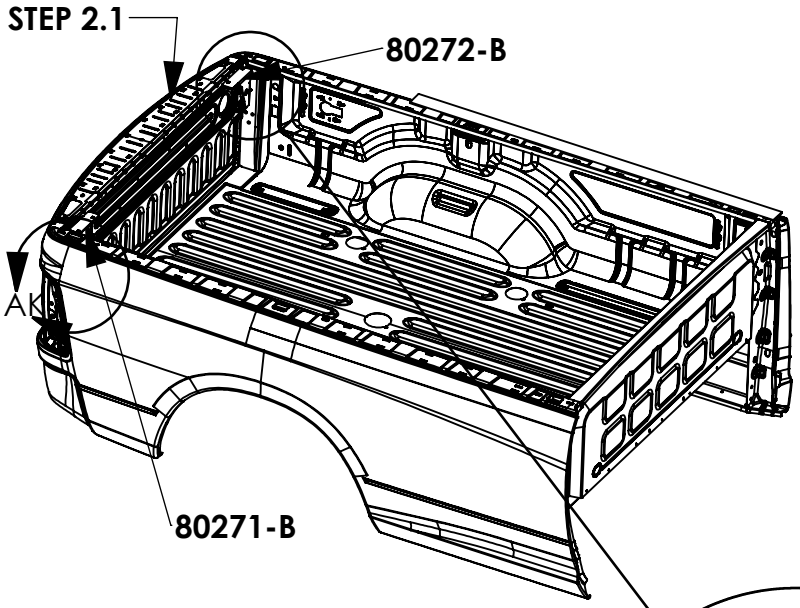
Step 2.1
LOCATE THE BED SUPPORT BRACKETS IN THE CAB GUARD BOX, THESE ARE VEHICLE SPECIFIC. MAKE SURE THE PARTS YOU HAVE MATCH BOM FOR YOUR VEHICLE

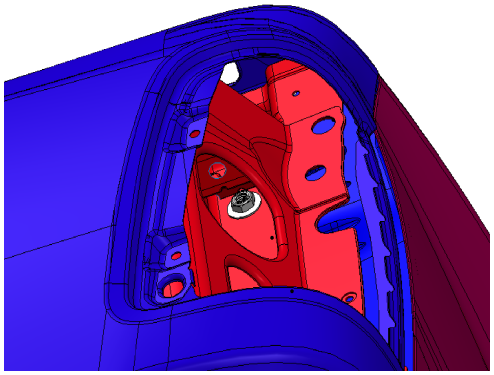
Step 2.2
FOR RAM VEHICLE, REMOVE THE TAIL LIGHT TO GAIN ACESS TO MOUNTING HOLE SHOWN

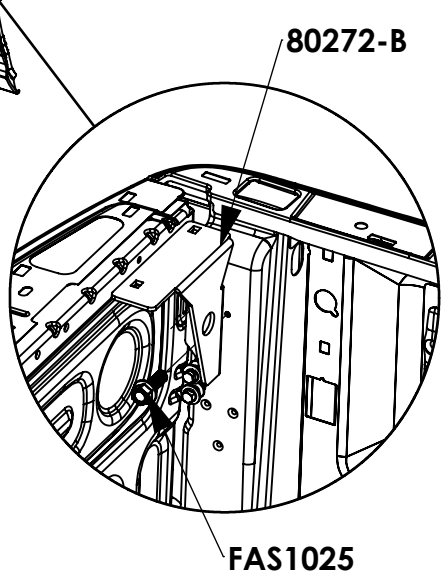
Step 2.3
IDENTIFY OEM HOLE AT REAR OF BED (CIRCLED ABOVE) DRILL OUT TO .565" USING A STEP BIT ON BOTH SIDES OF BED

Step 2.4
INSTALL REAR BRACKETS. WE WILL NEED TO LOOSEN AND RETIGHTEN AT VERY END OF INSTALL PRIOR TO REINSTALLING TAILLIGHT
FULLY TIGHTEN
FAS1025, FAS1026, AND FAS0334
(02 PLACES)
1/2 WRENCH
1/2 SOCKET









STEP 2 - PREP BED (GM)

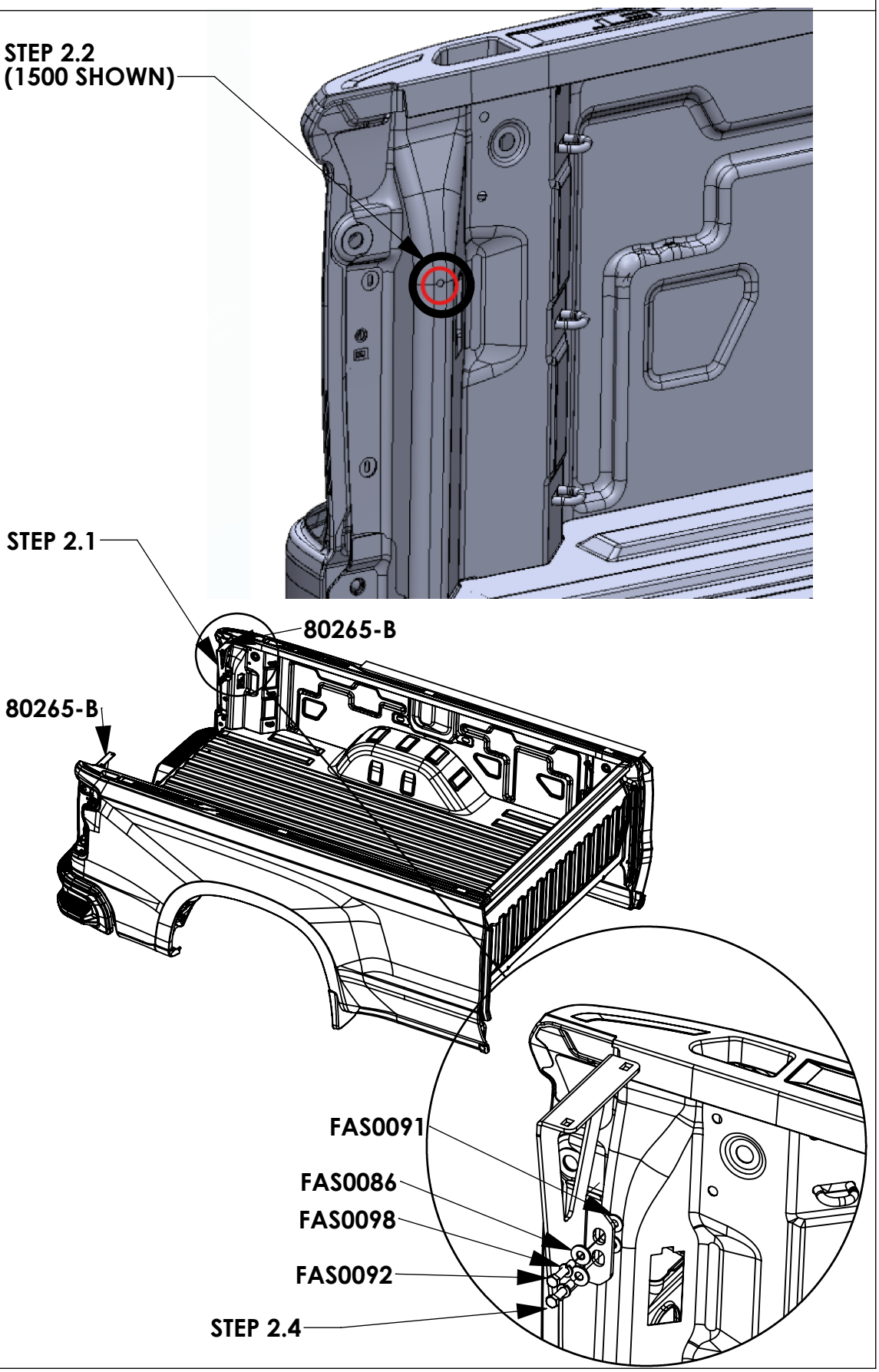
Step 2.1
LOCATE THE BED SUPPORT BRACKETS IN THE CAB GUARD BOX, THESE ARE VEHICLE SPECIFIC. MAKE SURE THE PARTS YOU HAVE MATCH BOM FOR YOUR VEHICLE

Step 2.2
FOR 1500, ALLIGN TOP HOLE ON BED BRKT WITH HOLE SHOWN ON REAR OF TRUCK BED AND MART CENTER OF LOWER SLOT WITH PAINT PEN

FOR 2500, ALLIGN BOTTOM HOLE ON BED BRKT WITH BOTTOM HOLE SHOWN ON REAR OF TRUCK BED AND MART CENTER OF TOP SLOT WITH PAINT PEN

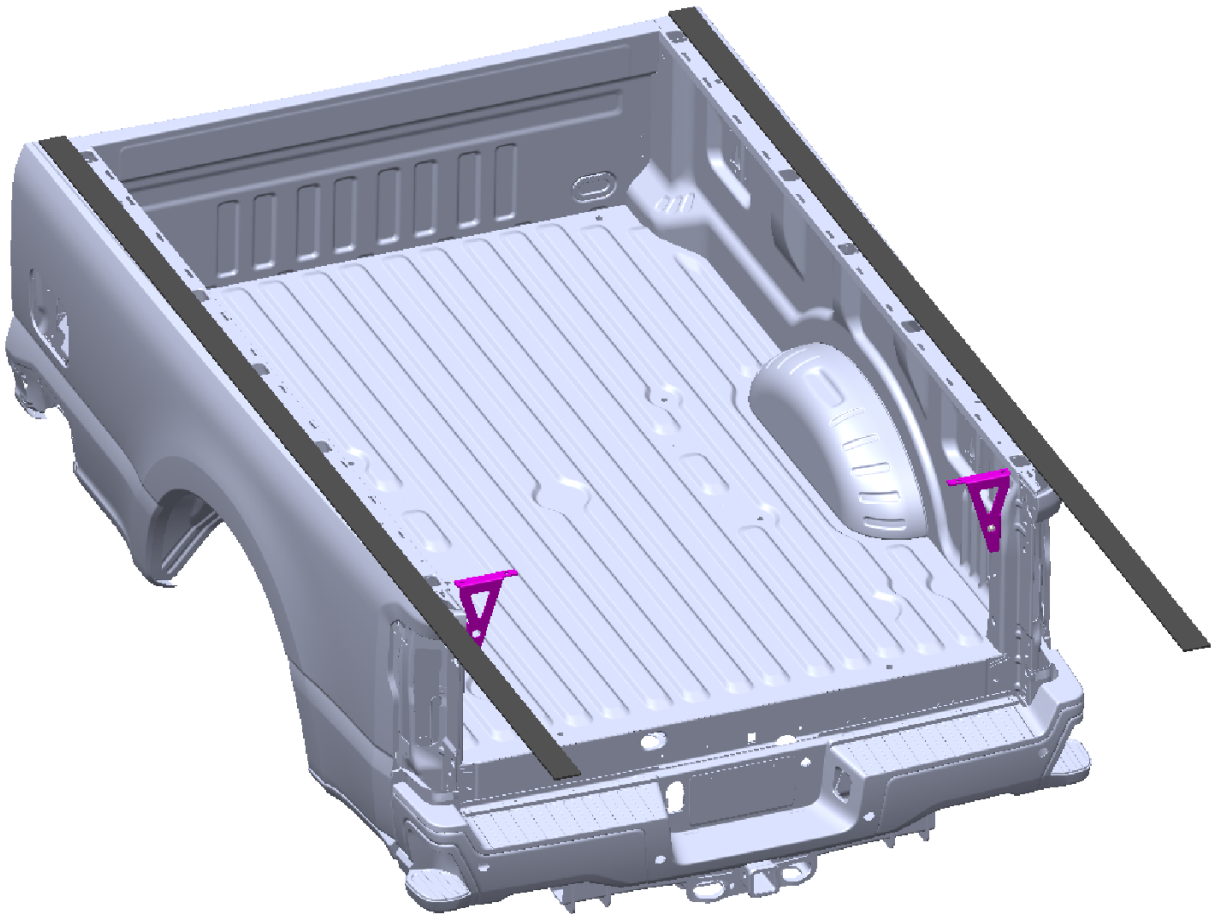
Step 2.3
DRILL OUT OEM AND PAINT MARKED HOLE FOR 5/16 PLUS NUT AND INSTALL PLUS NUTS

Step 2.4
INSTALL REAR BRACKETS LOOSLEY<u>TIGHTEN</u>
FAS0092
FAS0098,FAS0091 AND FAS0086 (04 PLACES)
1/2 WRENCH
1/2 SOCKET



STEP 3 - PREP BED WITH FOAM STRIPS

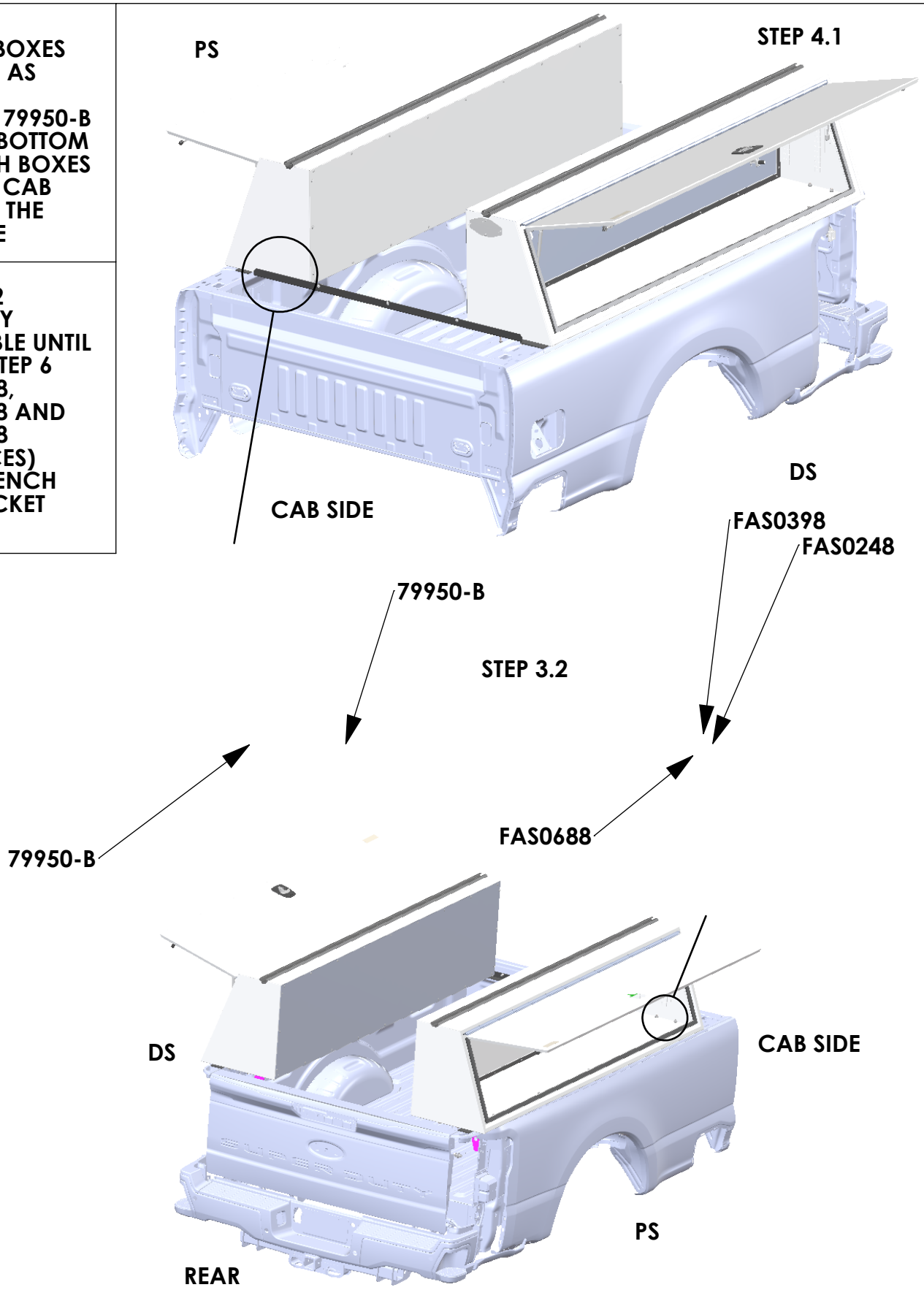
Step 3.1
APPLY FOAM STRIPS 73632 ON BED RAIL (QTY 4 x for whole bed-2 each side) START FLUSH WITH THE END OF THE CAB SIDE OF THE BED RAIL. DO NOT TRIM EXCESS UNTILL FULLY INSTALLED



STEP 4 - PLACE BOXES ON BED SO THE OVERHANG THE TAILGATE BY 2-3 FEET - ATTACH BOXES WITH FRONT RAIL SUPPORT

Step 4.1
PLACE BOXES ON BED AS SHOWN ALLIGN 79950-B TO THE BOTTOM OF BOTH BOXES ON THE CAB SIDE OF THE VEHICLE

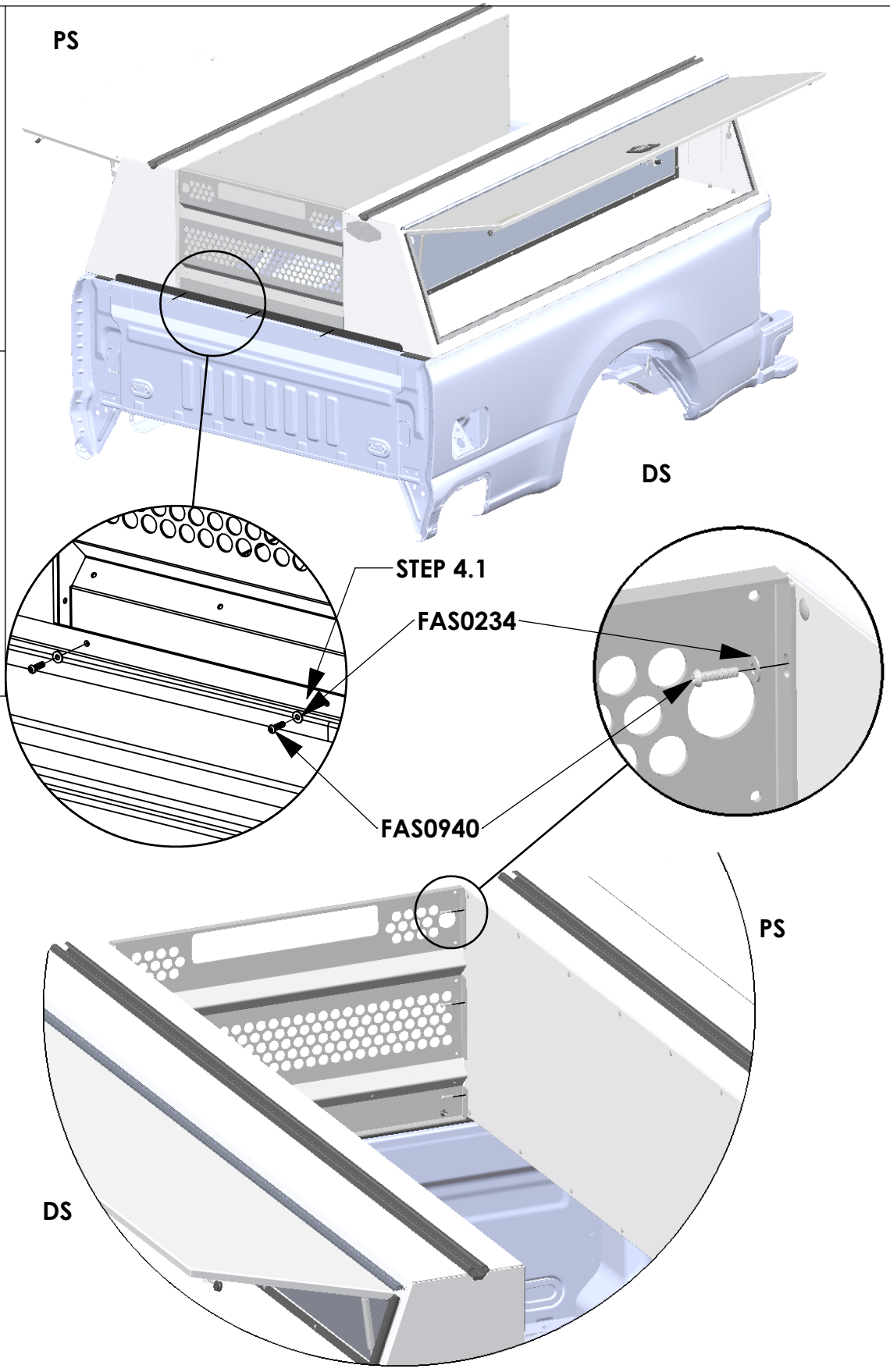
Step 4.2
LOOSELY ASSEMBLE UNTIL AFTER STEP 6 FAS0398, FAS0248 AND FAS0688 (4 PLACES)
1/2 WRENCH
1/2 SOCKET



STEP 4- SET CAB GUARD IN PLACE IN ORIENTATION SHOWN -USE PRY BAR TO WEDGE INTO PLACE IF NECESSARY

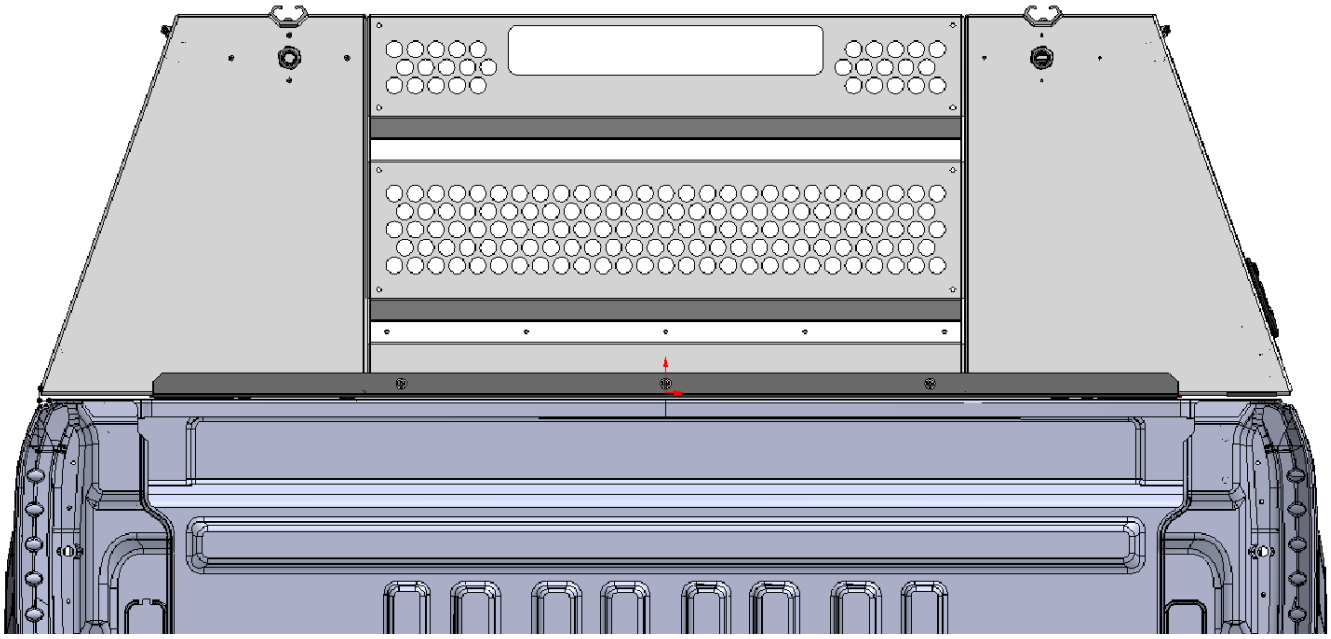
Step 4.1
FULLY TIGHTEN FAS0055 FAS0234 AND FAS0920 (03 PLACES)
7/16 WRENCH
7/16 SOCKET

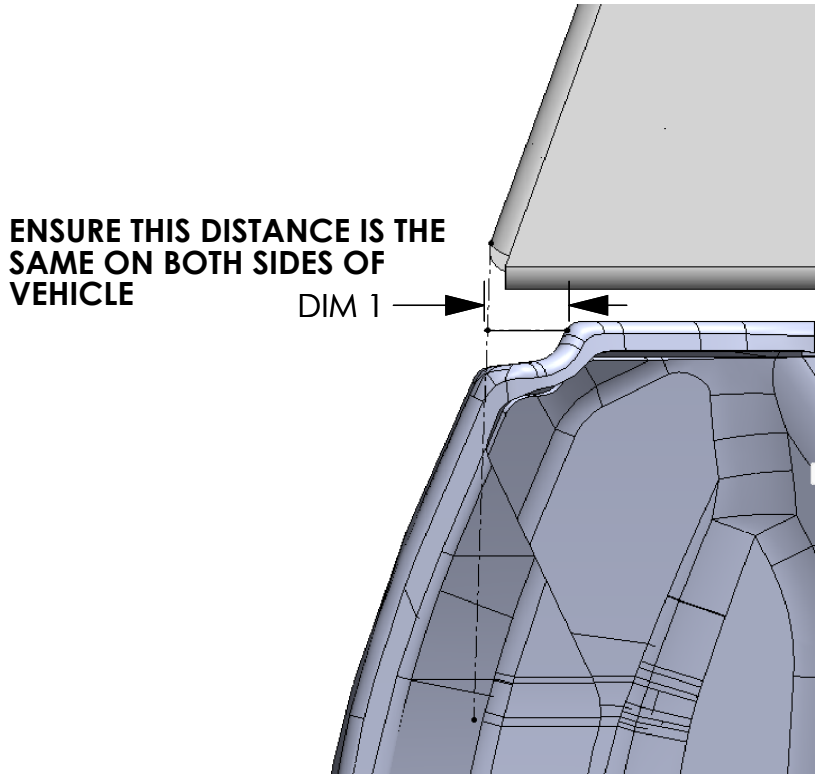
Step 4.2
FULLY TIGHTEN FAS0055 FAS0234 AND FAS0920 ON BOTH SIDES OF THE CAB GUARD (06 PLACES)
7/16 WRENCH
7/16 SOCKET



CHECK THAT THE BOXES ARE CENTERED ON VEHICLE

STEP 5 - MEASURE DISTANCE FROM BED RAIL AT CAB SIDE AND ENSURE BOTH SIDES ARE EQUAL

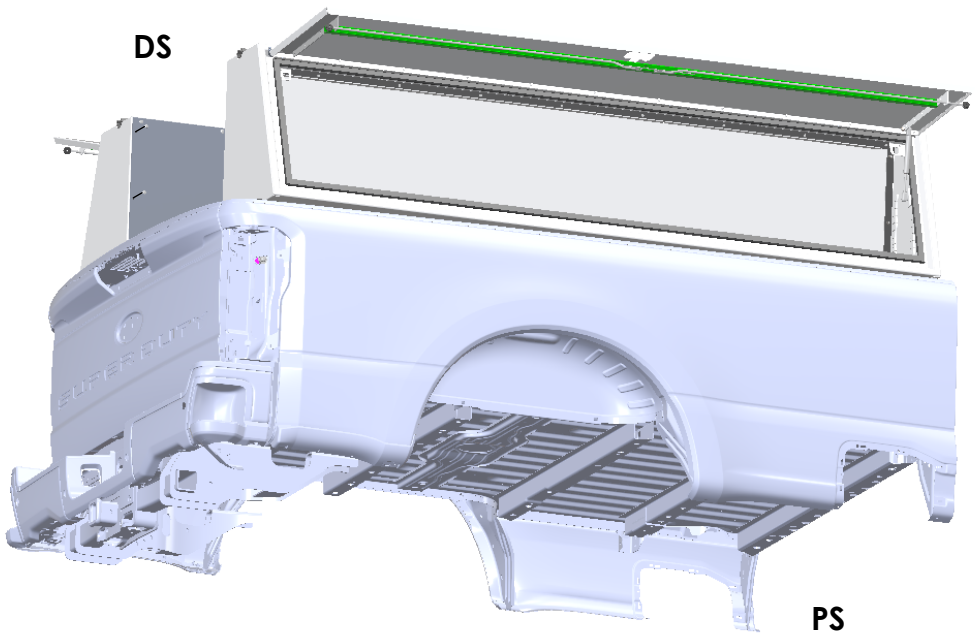


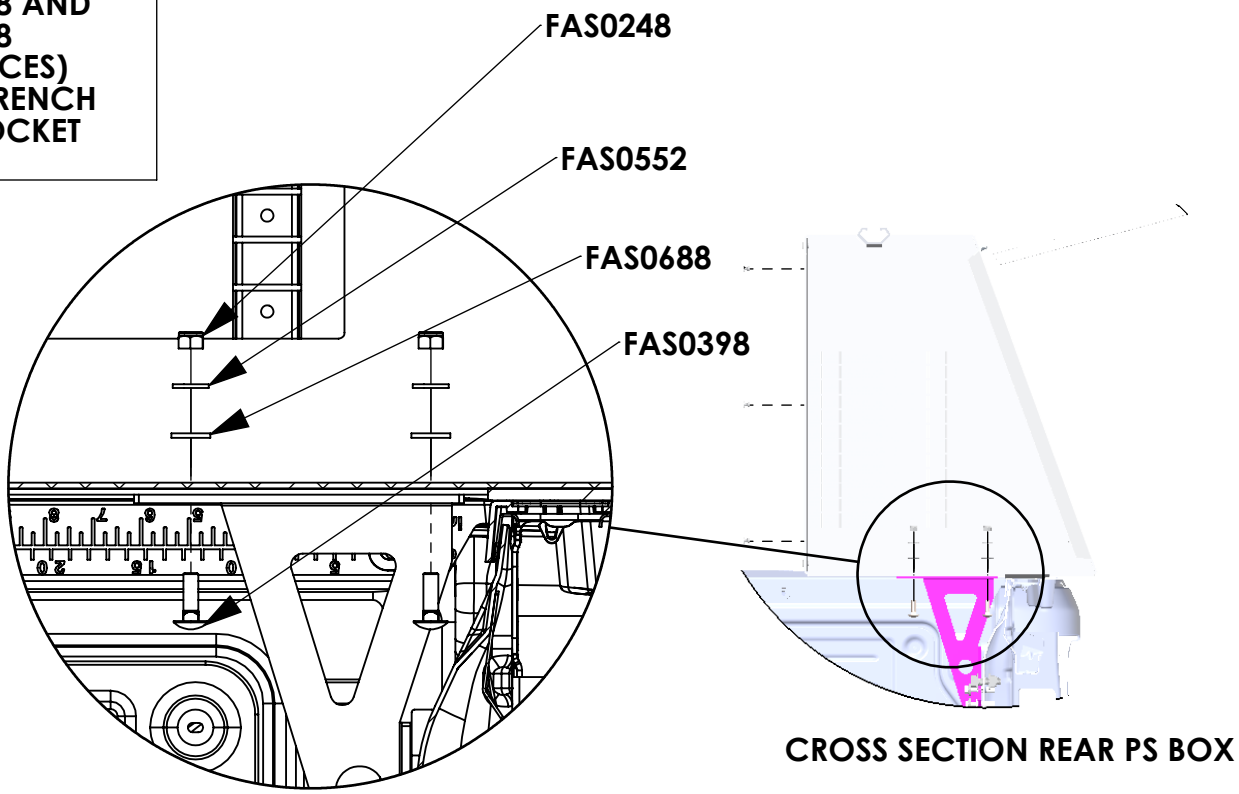


STEP 6- INSTALL FASTENERS TO SECURE BOXES TO REAR GUSSET SUPPORTS

STEP 6.2
BOLT BOXES TO REAR SUPPORTS FULLY TIGHTEN
FAS0248
FAS0164
FAS0688 AND
FAS0398
(04 PLACES)
9/16 WRENCH
9/16 SOCKET

STEP 6.2
BOLT BOXES TO REAR SUPPORTS FULLY TIGHTEN
FAS0248
FAS0164
FAS0688 AND
FAS0398
(04 PLACES)
9/16 WRENCH
9/16 SOCKET

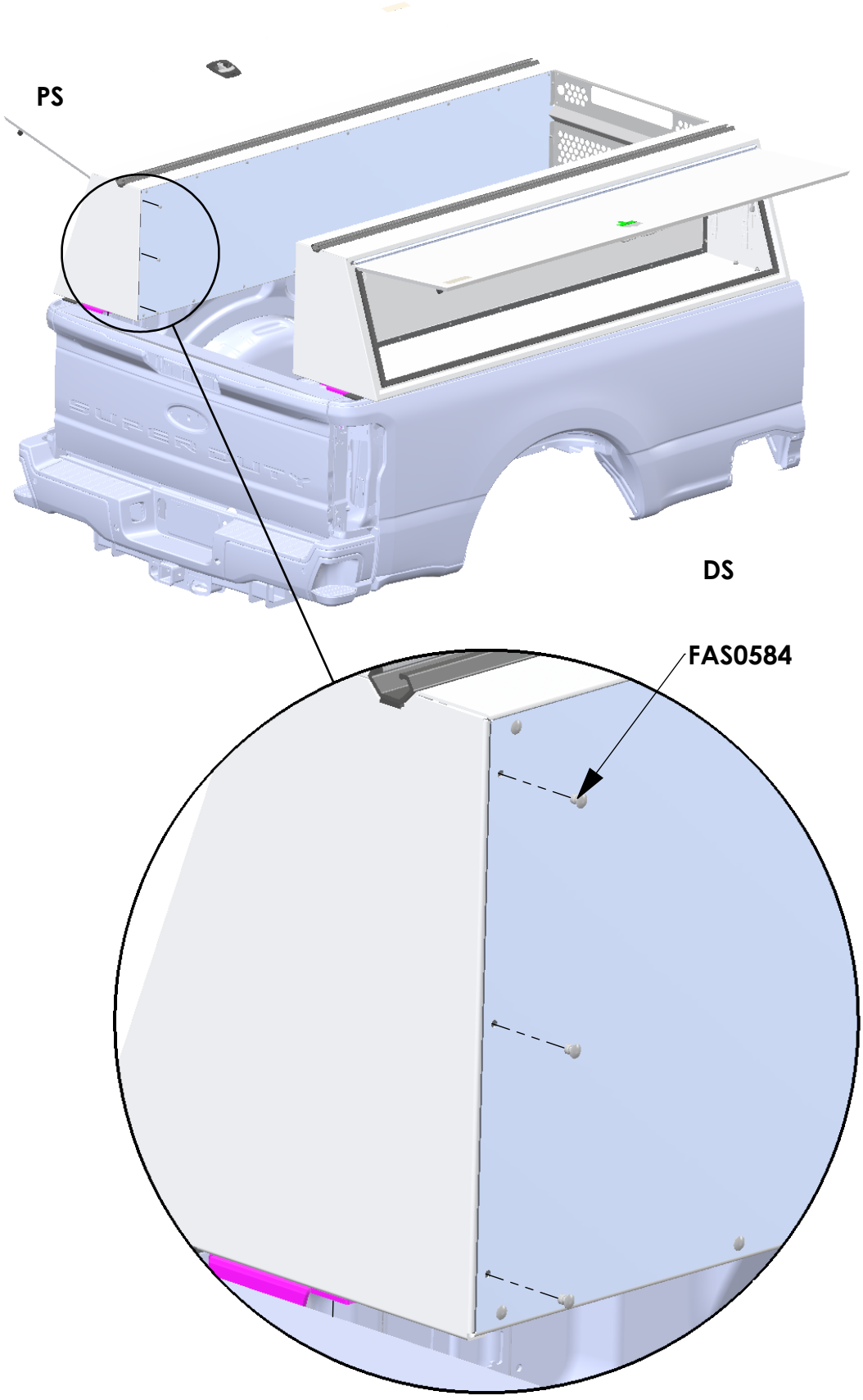




CROSS SECTION REAR PS BOX

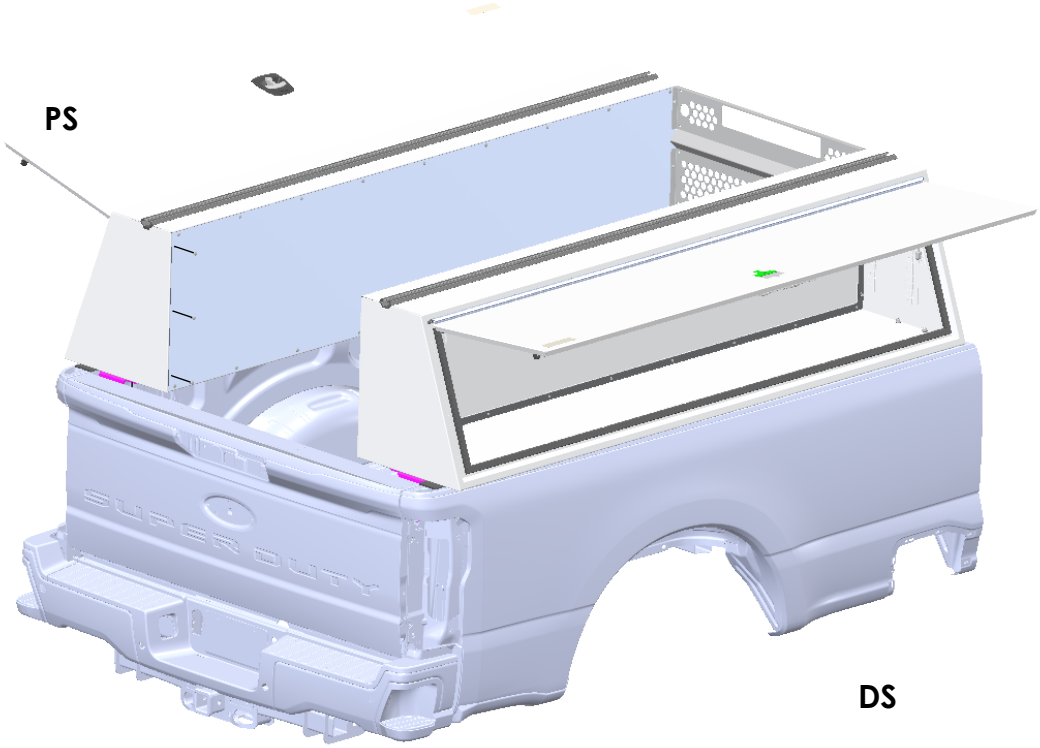
STEP 7- INSTALL RIVETS AT REAR OF BOXES TO SEAL

Step 7.1
<u>INSTALL RIVETS</u>
FAS0584 RIVET IN 3 LOCATIONS ON REAR OF EACH BOX (06 PLACES)
RIVET GUN



STEP 8- TIGHTEN ALL FASTENERS

Step 8.1
FULLY INSTALL FASTENERS FROM STEP 2 AND REINSTALL TAIL LIGHTS AT THIS POINT



STEP 9- DRILL BED RAIL MOUNTING HOLES

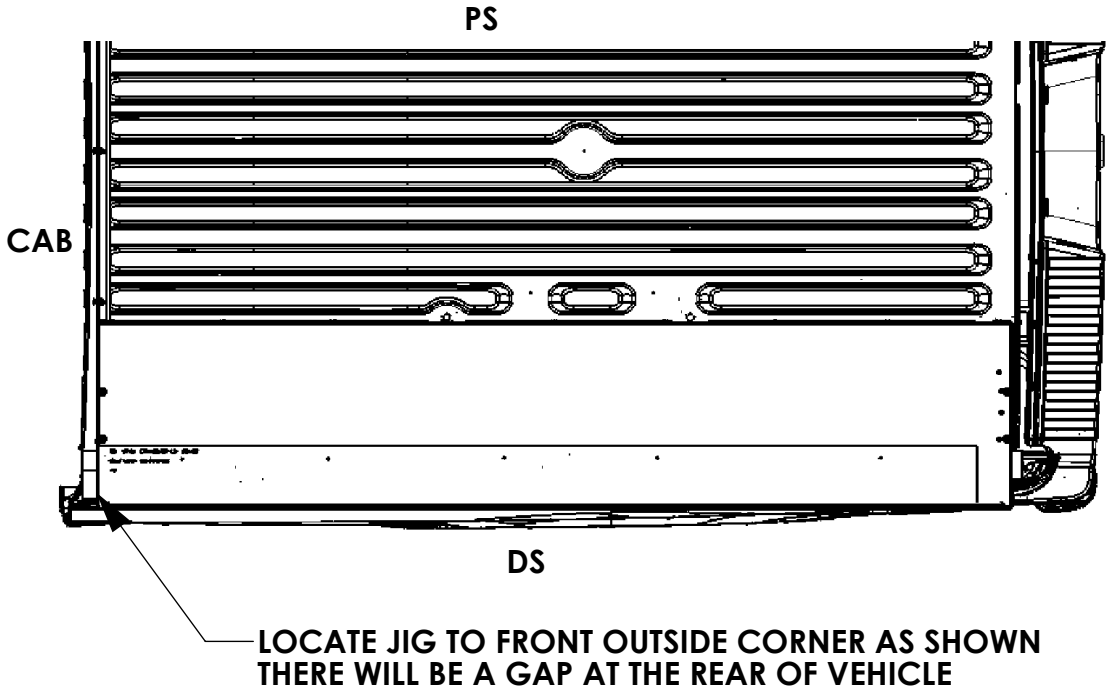
Step 9.1
IDENTIFY THE CORRECT DRILL JIG FOR THE VEHICLE YOUA RE INSTALLING ON

RAM1/2/3500 8'

F-150 8'

F-250/350 8'

GM1/2/3500 8'



Step 9.2

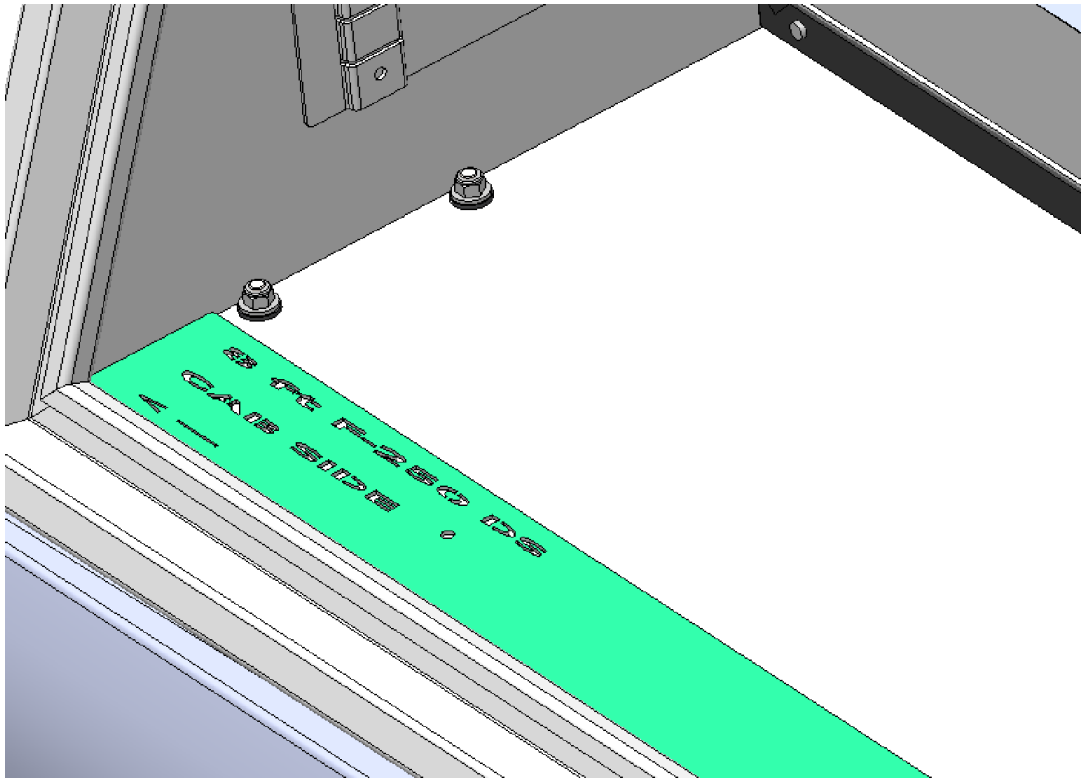
PLACE JIG IN VEHILCE AS SHOWN. START ON THE DS

FLIP JIG TO MIRROR ON PS

MARK ALL HOLES WITH PAINT PEN

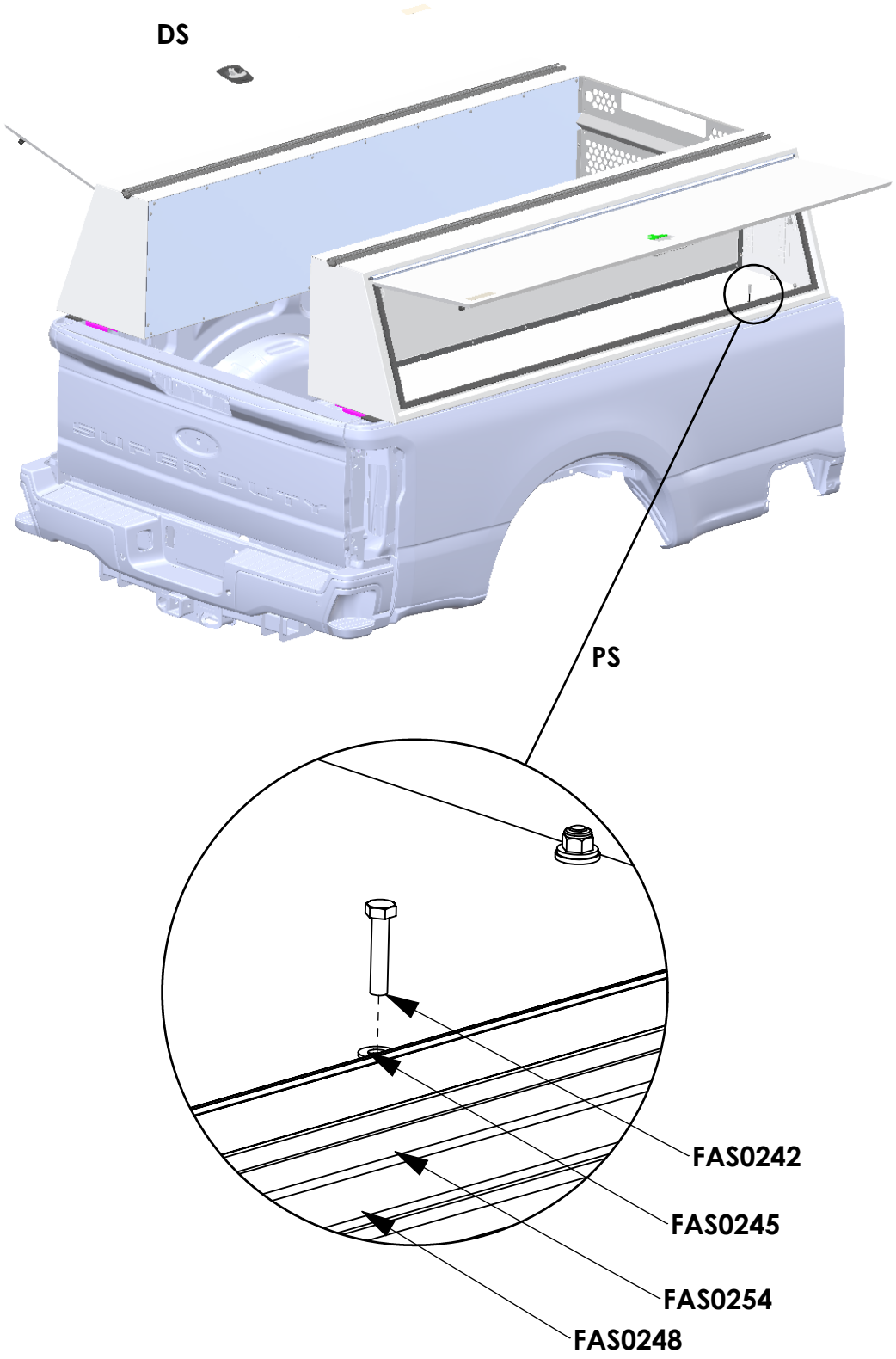
STEP 9.3

USING A STEP BIT OR 3/8 DRILL BIT, DRILL OUT ALL 10 MARKED HOLES ON DS AND PS BED RAILS



STEP 10- INSTALL 10 BED RAIL FASTENERS AND FULLY TIGHTEN

STEP 10
REMOVE JIGS
FULLY TIGHTEN
FAS0242
FAS0245 (2)
FAS0254 TO SECURE BOXES TO THE BED RAIL (10)PLACES



KIT, TAILGATE CHMSL

CATALOG NUMBER **81244**

PRODUCT APPLICATION

PRODUCT FEATURES

Lights and E-Locks kit designed for 8 FT Topsider toolboxes

Kit includes two 6 FT light strips, two E-Locks, and the accompanying harnesses, plunger switches, and modules

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

This kit is validated for model year 2026.

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Introduction / Comments:

Install Instructions for Open Bed Solution Electrical Accessories

Note:

Read all instructions prior to installation. Review the Adrian Steel **GENERAL PRECAUTIONS PAGES (56638**) before attempting installation. Only personnel familiar with using electrical best practices should perform this install. Reference **ELECTRICAL BEST PRACTICES MANUAL (54479)** before attempting installation.

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

Table of Contents

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Parts Included 3
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Tools Required

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

Parts Included

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

Dependent on Kit - *

80379

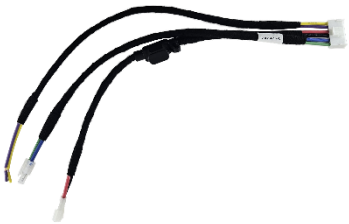
80995

80994

80996

74533

74349

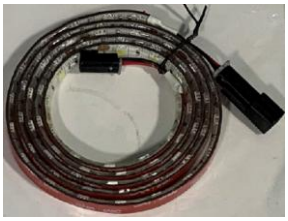


74341

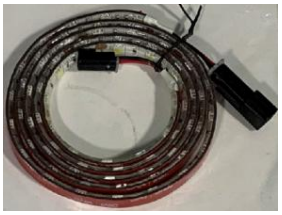
74340

80883

36096-0

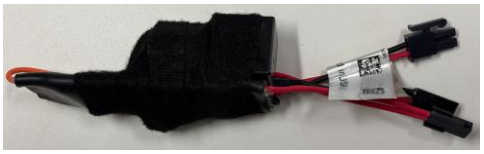


81171



81172

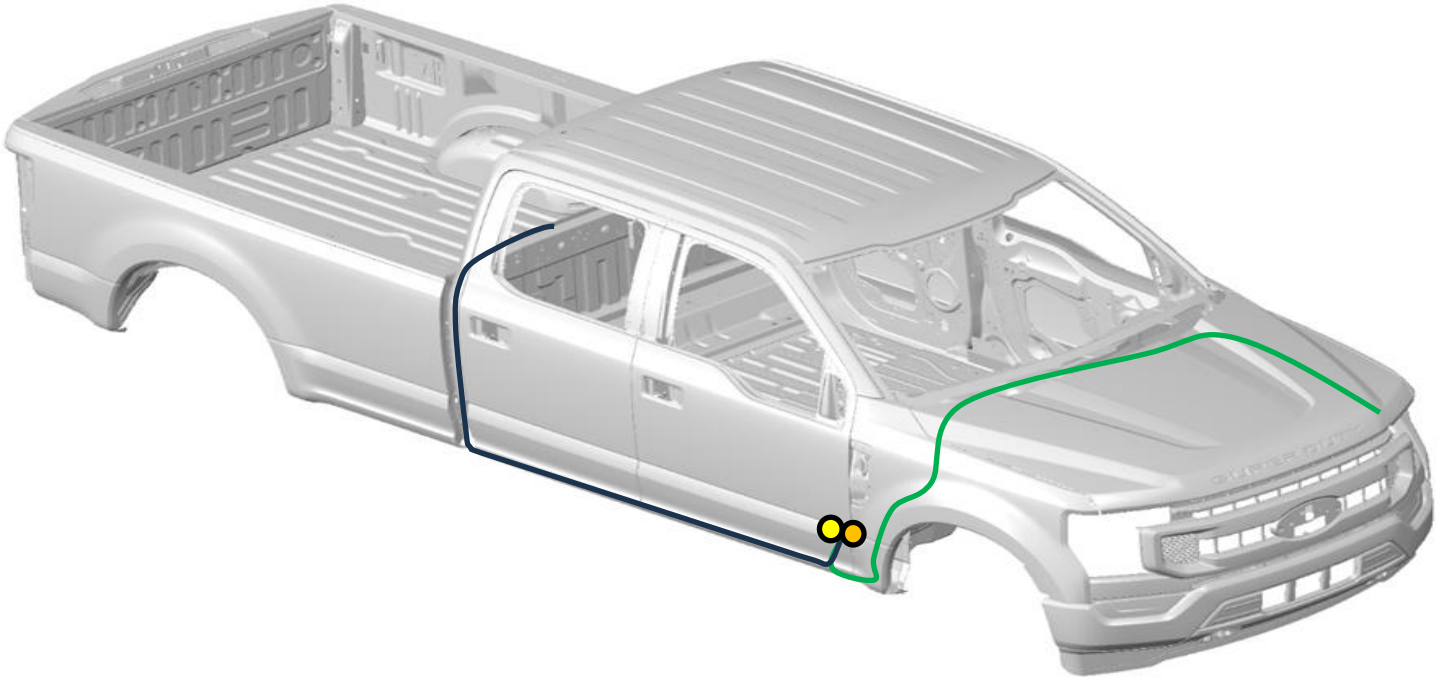
26618-0

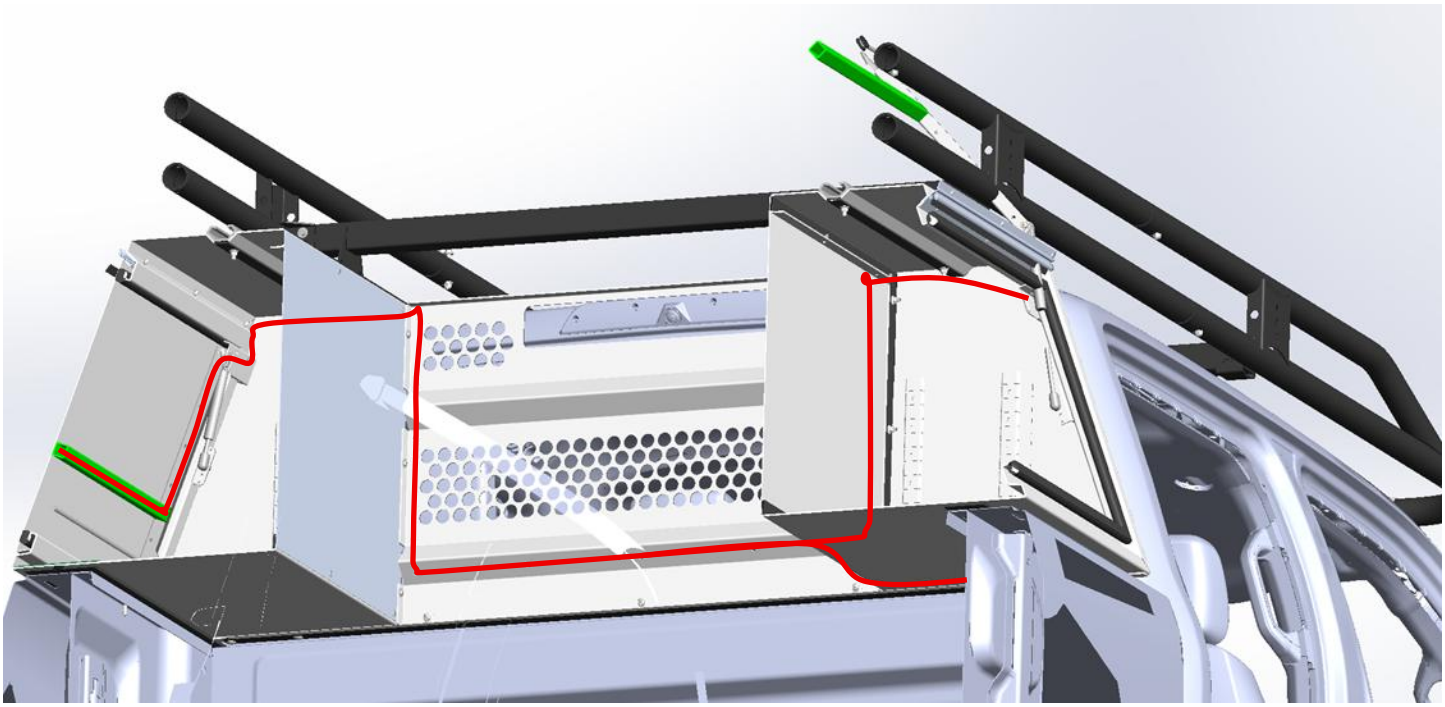


80721

BAGTMLHK

Routing Overview





Install Instructions

Step 1:

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

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

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

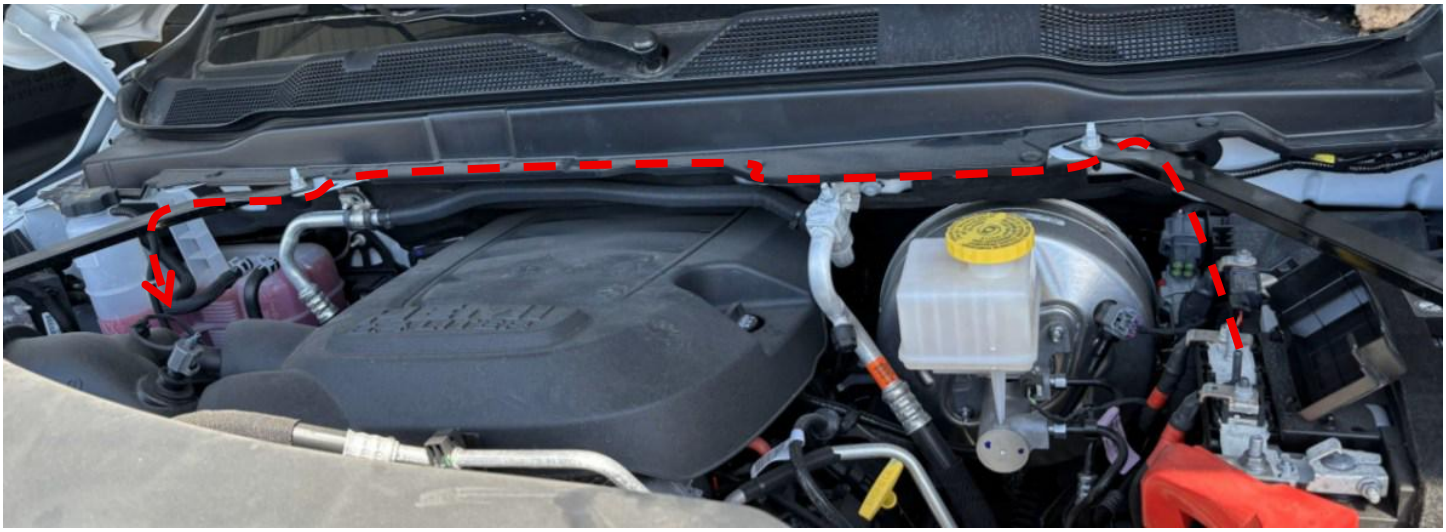
F-150 and F-250

RAM 1500 and 2500

Silverado 1500 and 2500

Step 2:

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



Step 3:

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

Step 4:

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

Step 5:

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

Step 6:

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

Connect the harnesses and modules together as shown.

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

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

Posi-tap Install instructions:

Remove the gray cap on the Posi-Tap

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

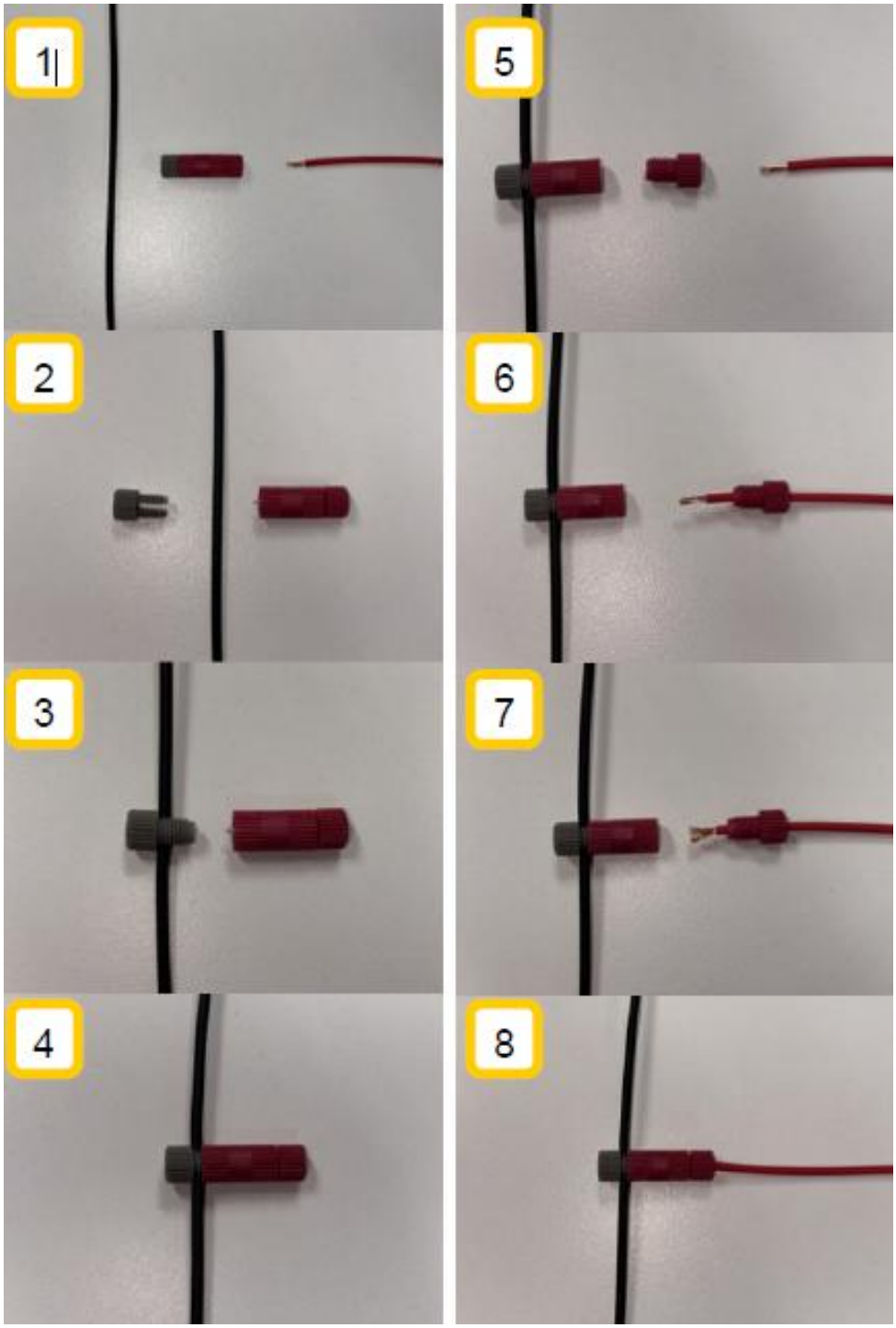
Twist the Posi-Tap onto the gray cap with the OEM wire secured in between the two.

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

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

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

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



Platform Specific Posi-Tap Installation Instructions

Ford F-150 & Superduty

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

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

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

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

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

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

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

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

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

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

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

Fig 12.1

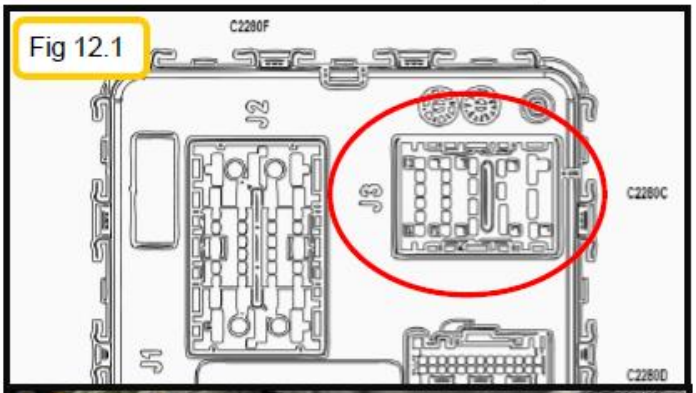


Fig 12.2

Fig 12.3

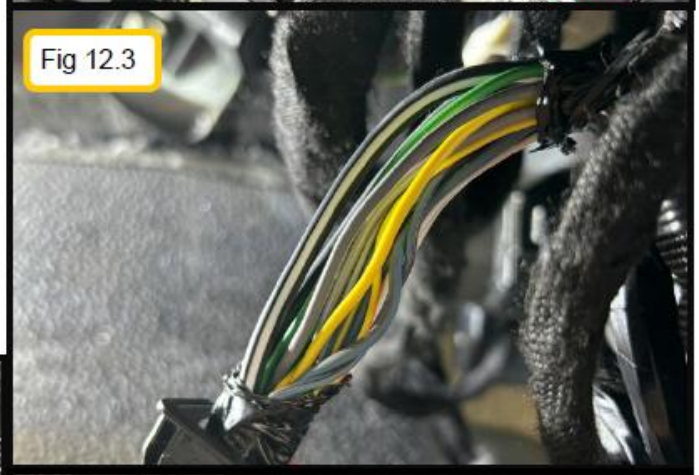


Fig 12.4

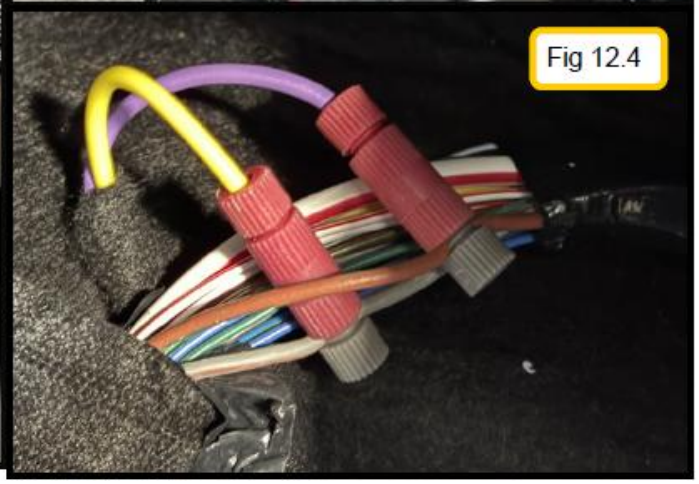
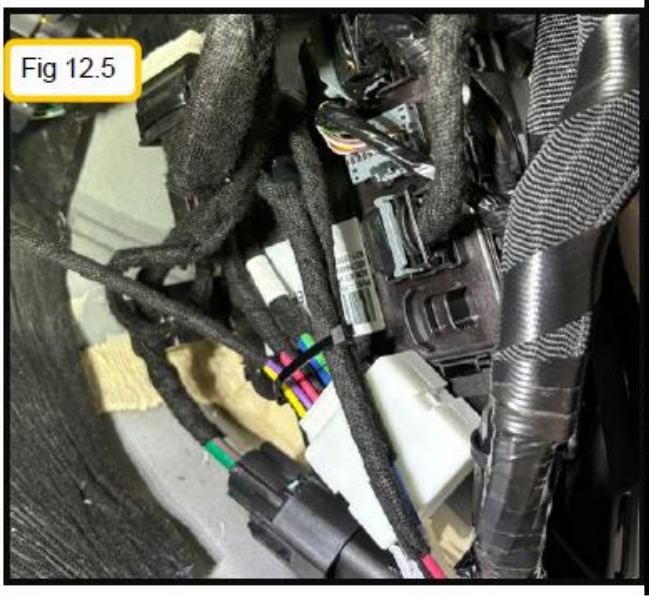


Fig 12.5



Platform Specific Posi-Tap Installation Instructions

RAM 1500 & HD (MY25+)

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

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

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

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

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

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

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

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

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

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

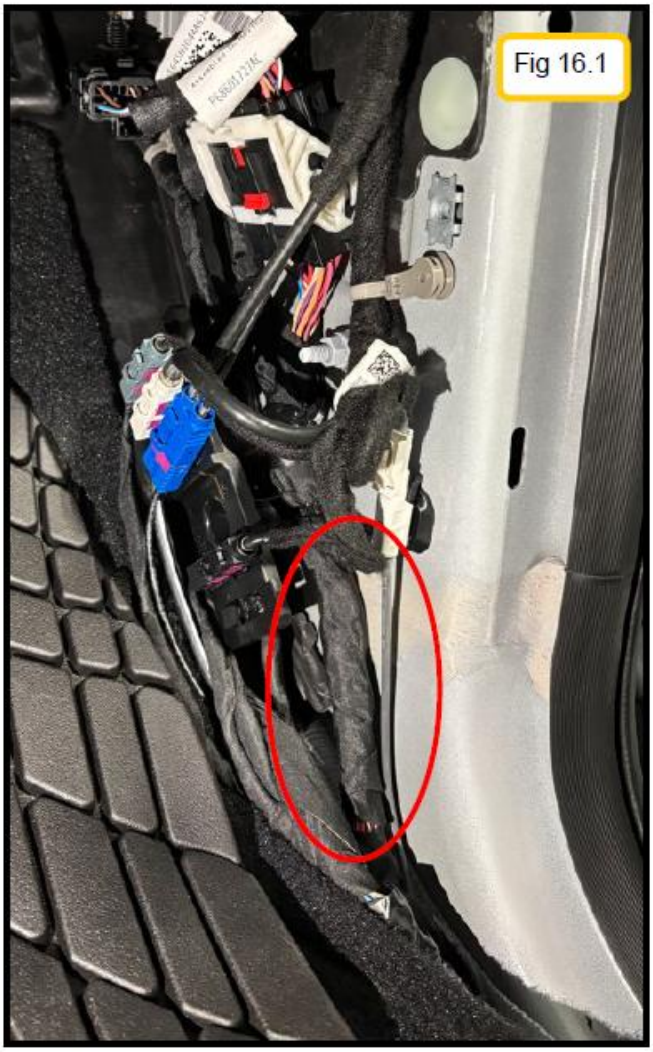


Fig 16.1

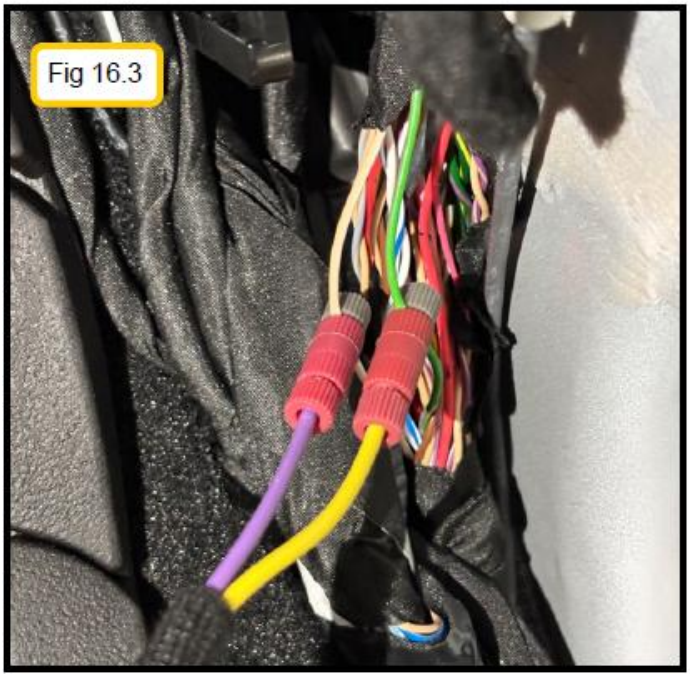


Fig 16.3

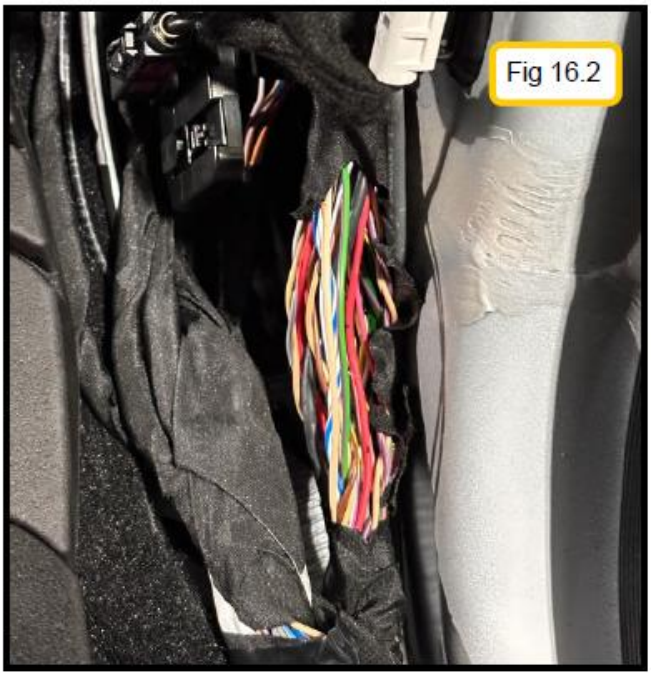


Fig 16.2

Platform Specific Posi-Tap Installation Instructions

Chevy Silverado ICE and Hybrid 1500-3500

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

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

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

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

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

6. Plug the connectors back into the BCM.

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

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

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

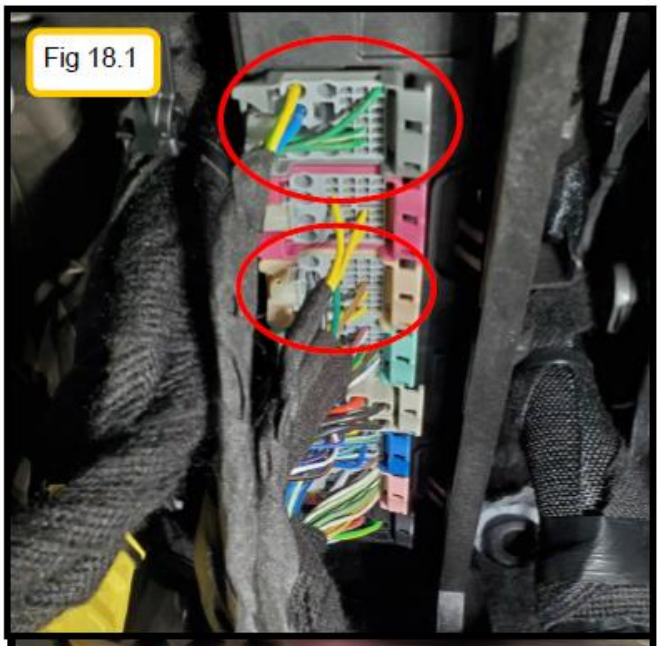


Fig 18.1

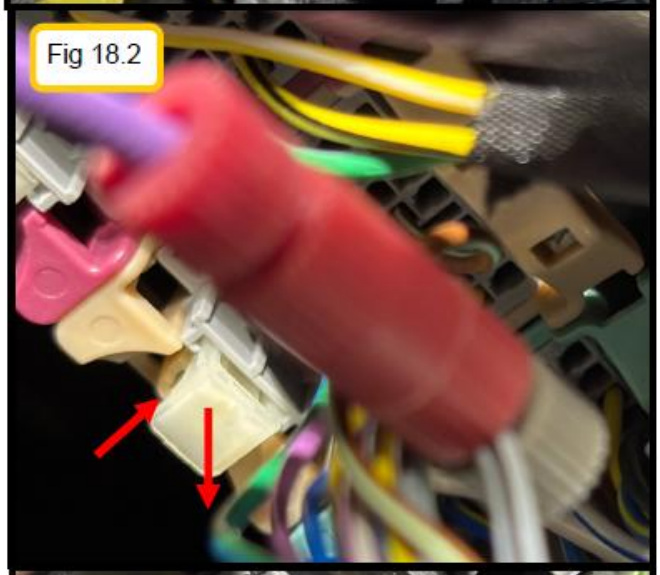


Fig 18.2

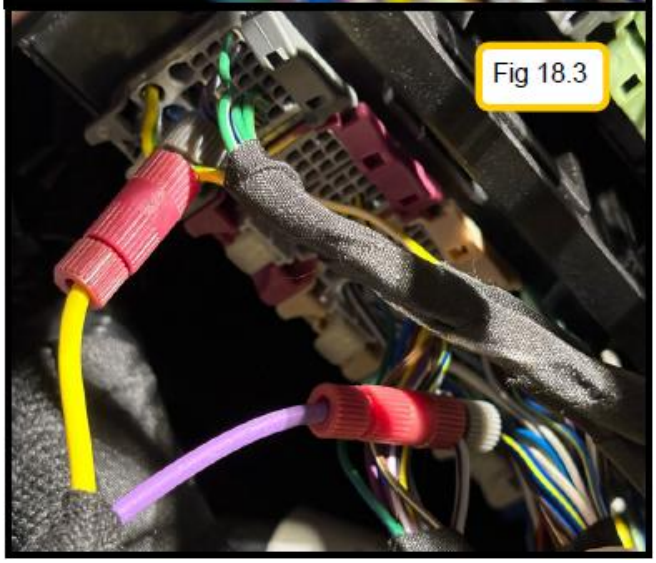
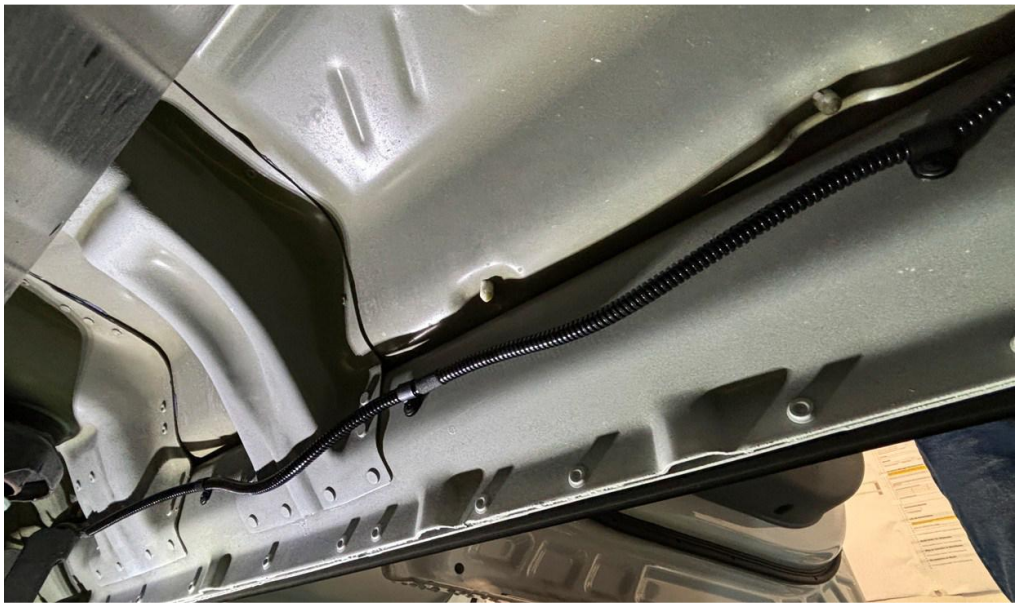


Fig 18.3

Step 7:

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



Step 8:

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

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

Step 9:

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

Step 10:

Secure the flange nut on the threads of the grommets.

Step 11:

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

Step 12:

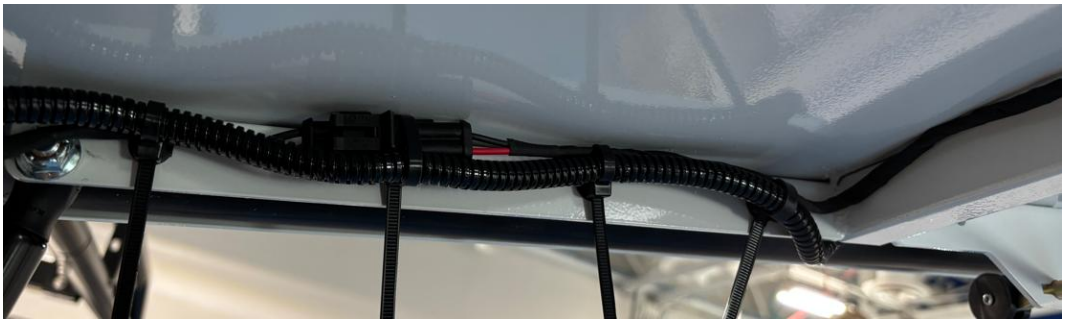
Connect the two quick connect terminals on the toolbox harness to the two blades on the plunger switch.

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

Step 13:

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

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



Step 14:

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

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

Step 15:

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

Step 16:

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

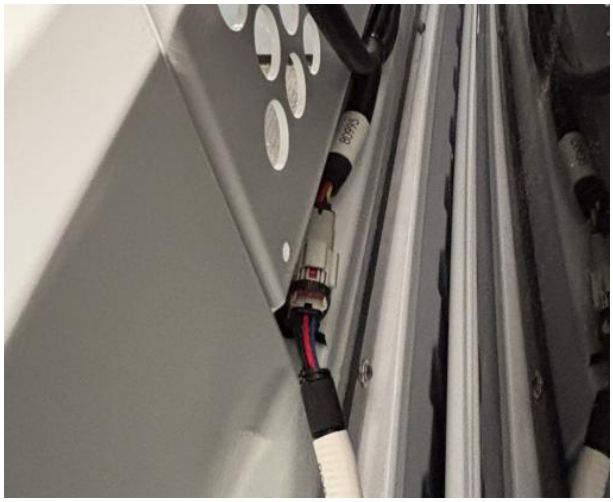
Once both the light strip and the E-Lock are installed, you can then tighten the zip ties along the door brace from step 13.

Step 17:

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

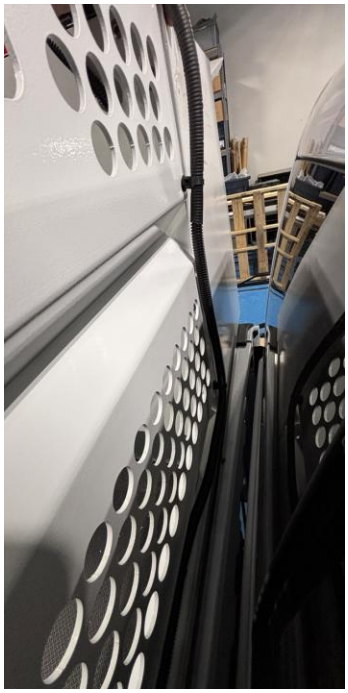
Step 18:

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



Step 19:

Secure the toolbox harness to the cab guard as shown.



Step 20:

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

Step 21:

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

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

Proceed to the next page for install testing and troubleshooting

QC Tests and Troubleshooting

QC Step 1:

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

Troubleshooting:

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

QC Step 2:

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

Troubleshooting:

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

THE INSTALL IS NOW COMPLETE

KIT, TAILGATE CHMSL

CATALOG NUMBER **81248**

PRODUCT APPLICATION

PRODUCT FEATURES

CHMSL kit designed to mount on OEM tailgate for ASCO topsider install.

Kit includes CHMSL light and harness that ties directly into OEM stop lamps.

This kit is compatible with model year 2026 Ford Super Duty.

SEE PAGE 2 FOR APPLICATION NOTES AND ACCESSORIES, OTHER PRODUCTS THAT WORK WITH THIS UNIT.

The information contained in this document is the sole property of ADRIAN STEEL COMPANY. ADRIAN STEEL COMPANY retains the right to modify and/or change the product of its design at any time without prior notification.

ADRIAN STEEL
Cargo Management Solutions for Commercial Vehicles

CATALOG NUMBER **81248**

PRODUCT APPLICATION

This product is designed to be installed on OEM vehicle tailgate for ASCO topsider box install.

ACCESSORIES THAT WILL WORK WITH THIS PRODUCT

CATALOG NUMBER	*DESCRIPTION*
80384	TAILGATE CHMSL HARNESS
71628	TOPPER LIGHT T17 W/ CONN
80700	DASH WARNING LABEL

SPECIAL APPLICATION NOTES

The information contained in this document is the sole property of ADRIAN STEEL COMPANY. ADRIAN STEEL COMPANY retains the right to modify and/or change the product of its design at any time without prior notification.

Introduction / Comments:

Install Instructions for Tailgate CHMSL Kit

Note:

Read all instructions prior to installation. Review the Adrian Steel **GENERAL PRECAUTIONS PAGES (56638**) before attempting installation. Only personnel familiar with using electrical best practices should perform this install. Reference **ELECTRICAL BEST PRACTICES MANUAL (54479)** before attempting installation.

Install Instructions for Tailgate CHMSL Kit

Parts Included

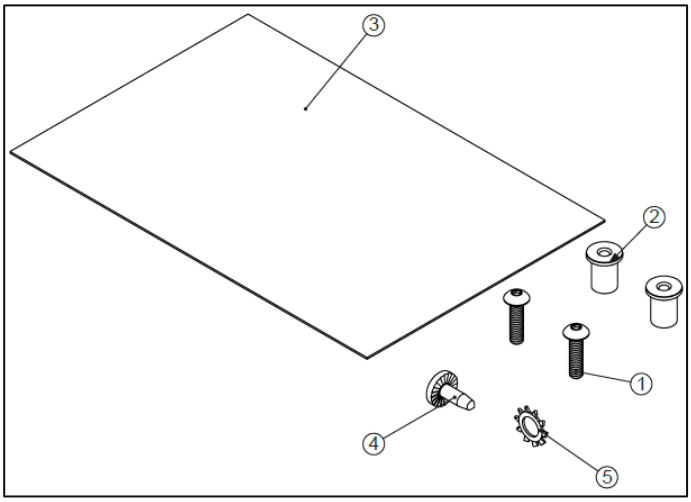
71680	HARN, BRAKE LIGHT TOP 25'
71628	TOPPER LIGHT T17 W/ CONN
35353-0	BUTT CONN,22-18GA,SEALED
80700	DASH WARNING LABEL
BAG81366	FAS BAG, TOPSIDER CHMSL
1) FAS0922	SCREW,BHCS 8-32 X 0.63 SS
2) FAS1021	NUT,WELL 8-32 HD 0.312"
3) BAG0406-A	BAG, 4X6 3MIL
4) FAS0148	SCREW,FHP TEK 10-24X.5 ZN
5) FAS0066	WASHER,LCK EXT 1/4 ZP

71628

35353-0

80700

71680



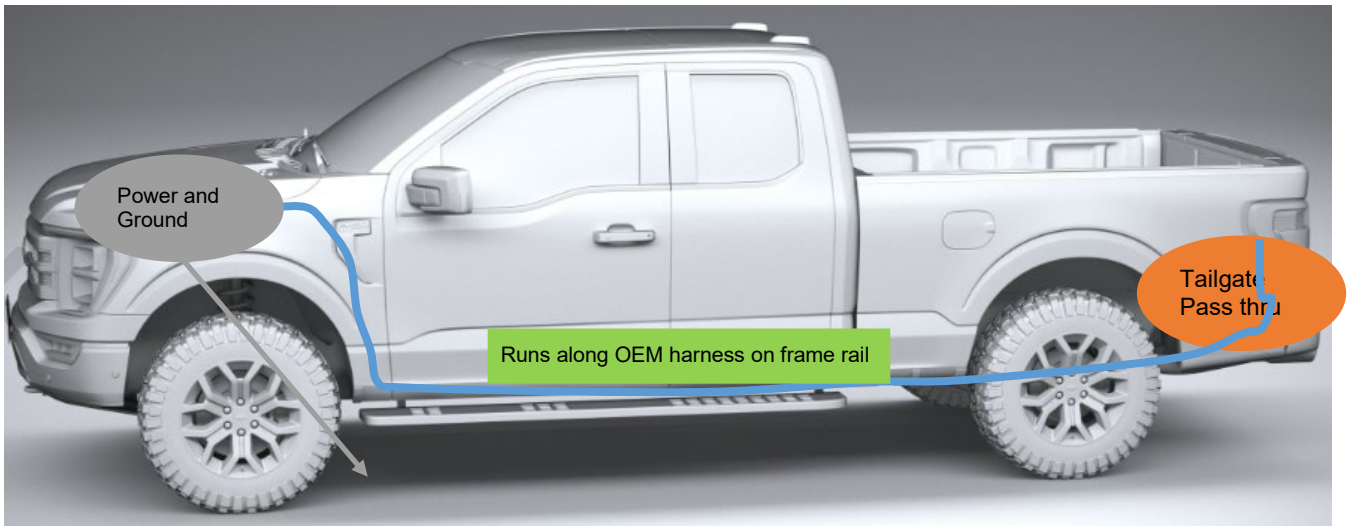
BAG81366

Tools Needed

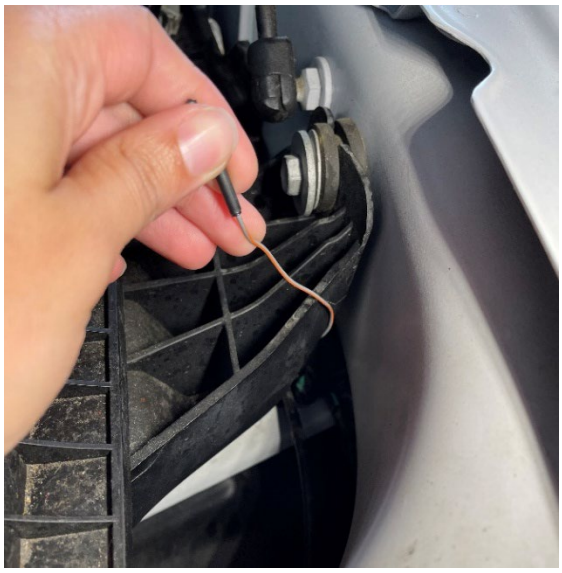
1. Insulated Splice Crimper
2. Wire Strippers
3. Diagonal Cutters
4. Drill driver
5. Phillips Bit with 9/16” Drill driver bit
6. 3/4” Hole Saw or Step Drill
7. 10mm Socket
8. Socket driver and extensions

Figure 4-1: Tools Needed for Installation

Vehicle Specific Install Steps – Ford F-150



Vehicle Specific Install Steps – Ford F-150



Step 1:
Locate harness 71680. Remove the fuse from the inline fuse holder until the end of the install.

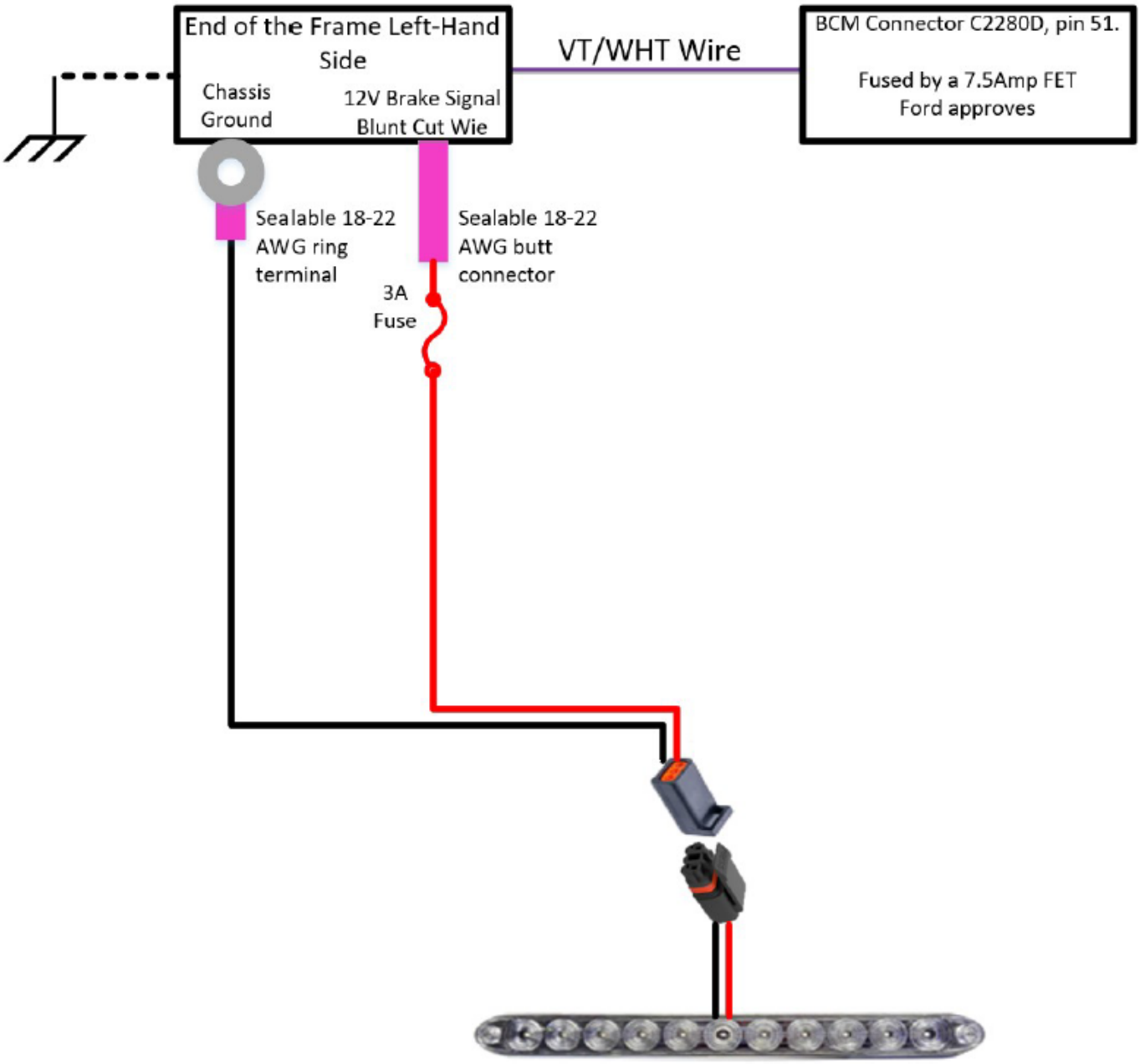
Step 2:
Open the hood of the F-150 and locate the OEM harness under the driver's side hood strut mount.

There will be a small gray/orange (ICE) or green/purple (Hybrid) wire with a black end cap that comes out separate from the OEM harness. This is the OEM CHMSL circuit wire for our 3rd brake light

Snip the black cover and strip the end of the wire. Crimp one end of the included butt splice connector to the OEM wire, and the other to the bare wire on harness 71680.

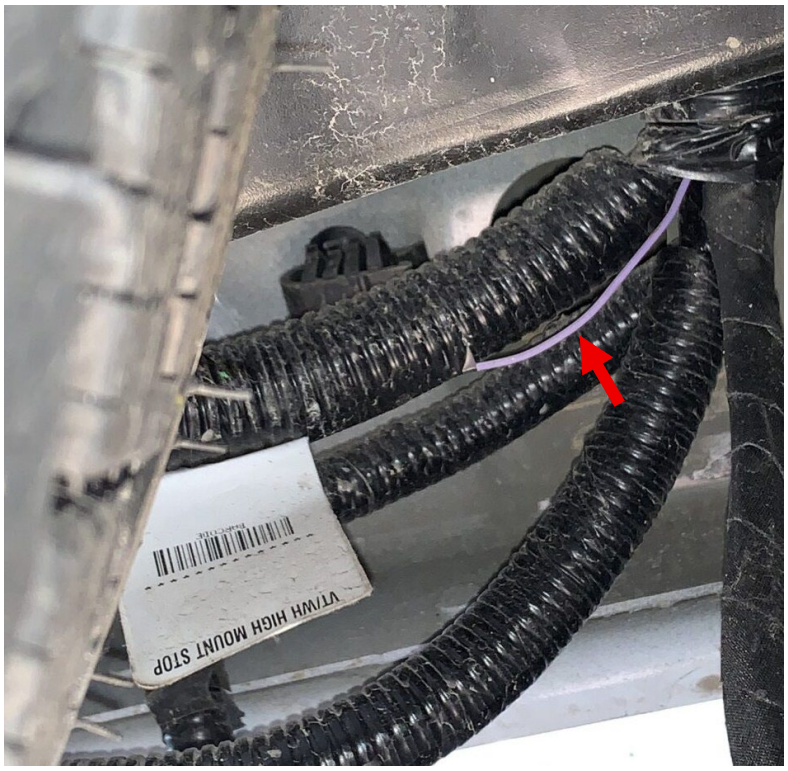
Step 3:
Back out the OEM ground screw and place the ring terminal from harness 71680 between the OEM ground point and the screw. Retighten the screw back in place.

Vehicle Specific Install Steps – Ford F-250/350



For MY23+ Ford F-250/350 with 6.75’ and 8’ Beds

Vehicle Specific Install Steps – Ford F-250/350



Step 1:
On the street side, rearward of the vehicle spare tire, there is access to the harnessing for the rear high mount stop signal.

Pull the 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.

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

Step 2:
Grab harness 71680 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.

Vehicle Specific Install Steps – Ford F-250/350

Step 3:
Route the other end over the underbody frame rail to where the harness drops down the D pillar. Follow the image as reference.

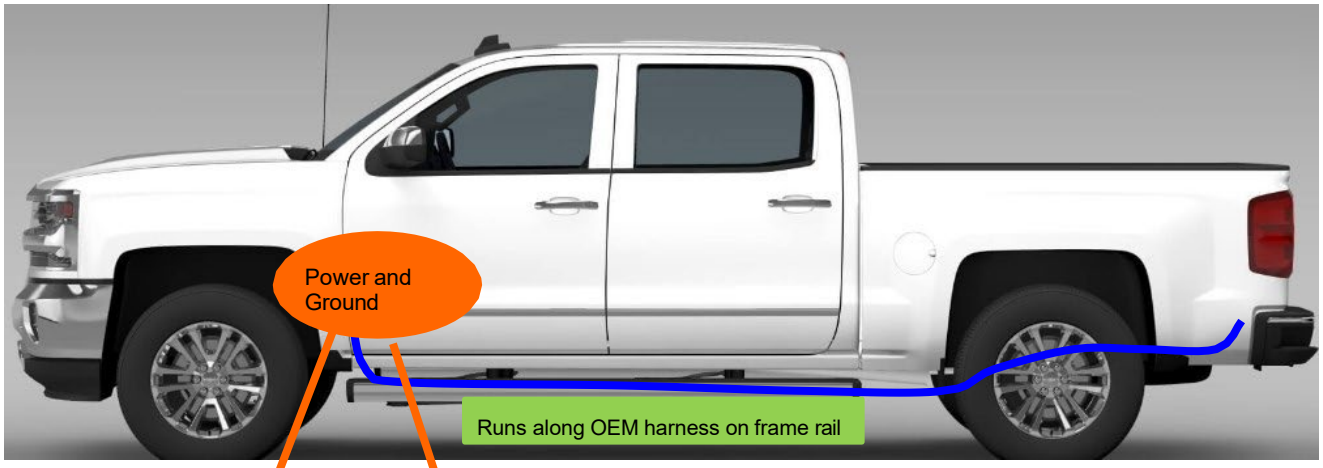
Step 4:
Using the self-tapping screw and star washer (see Page 5), screw the ground wire ring terminal to the vehicle.

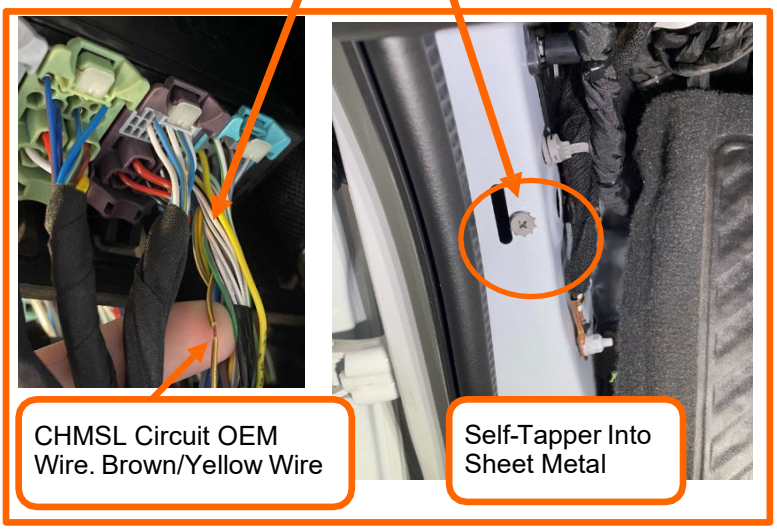
Be certain that self-tapping screw and star washer are on either side of the ring terminal and firmly tightened into the body sheet metal structure. It is advised to remove a small portion of the paint in that are to ensure good contact with the sheet metal ground. If the ground connection is loose or 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 cannot rotate.

Step 5:
Route the harness over towards the blunt cut wire, secure wiring along OEM harnesses in that same area.

Vehicle Specific Install Steps – Silverado



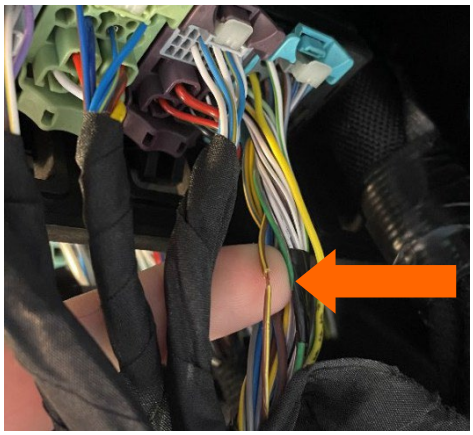


Vehicle Specific Install Steps – Silverado

Step 1:
Locate the brake light harness 71680.

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

Open the driver's side door. Remove the trim panels circled in red.



Step 2:
Locate the body control module on the lefthand side of the vehicle body, behind the OBDII port. There will be 5 colorful connectors with wire harnesses plugged into the bottom of the module.

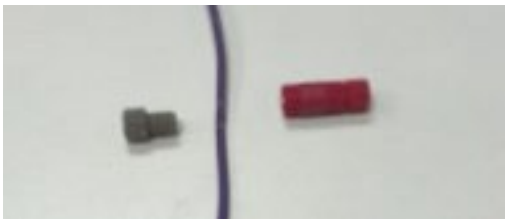
Locate the light blue connector (X5), pin 25. This wire will be Yellow/Brown. This is the OEM CHMSL circuit wire for the brake light. Use a meter to be sure this is the correct wire (OEM's tend to change wire colors).

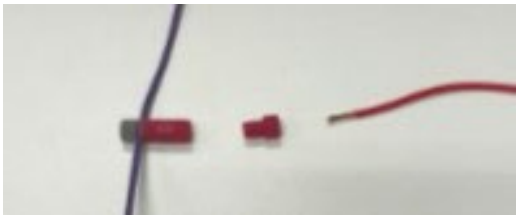
Separate the wire from the bundle (by your finder or a trim tool) to prepare it to be connected with the brake light harness.

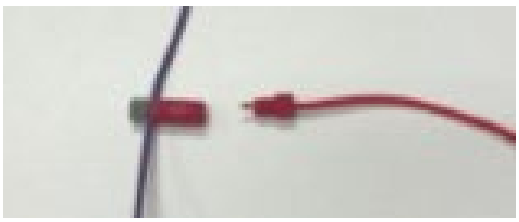
Locate the posi-tap in the brake light harness bag.

Vehicle Specific Install Steps – Silverado

The red wire in the pictures is referencing the brake light harness.
The purple wire in the picture is referencing the OEM brake light signal wire.







Step 3:

Remove the grey cap on the posi-tap.

Push the OEM brake signal wire into the insert on the grey cap.

Twist the grey cap back onto the posi-tap with the OEM wire secured. The pin point on the posi-tap will puncture the OEM wire and obtain the signal.

Remove the red cap on the posi-tap.

Insert the blunt cut end of the brake light harness through the red cap.

Twist the cap back onto the posi-tap with the brake light harness secured.

The picture to the left is the actual installed posi-tap onto the OEM wire.

Be sure the connection is secure.

Vehicle Specific Install Steps – Silverado

Step 4:
On the driver's side: locate the cut outs for the trim panels in the sheet metal near the OEM chassis ground. This is located to the left of the OBDII port on the vehicle body.

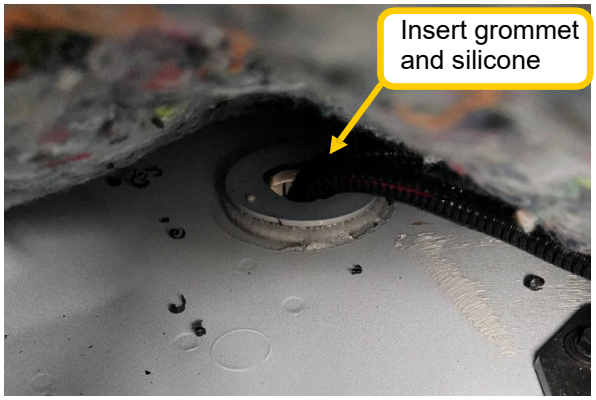
Locate the cut out that is higher on the frame than the OEM ground, shown in the picture to the left.

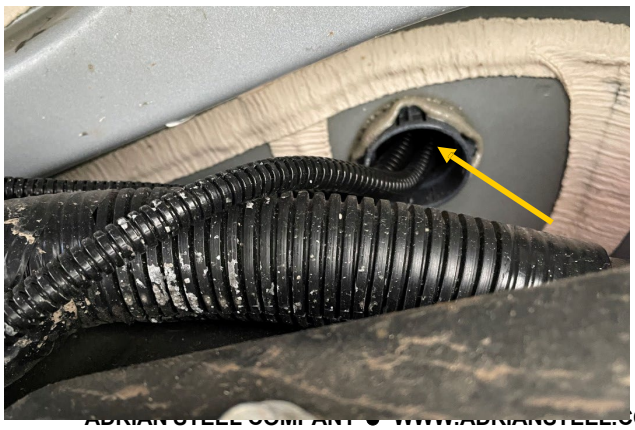
Locate the fastener bag BAG81366 and find the small tek screw and the star washer.

Insert the ring terminal through the star washer then through the ground ring terminal on the brake light harness.

Screw the tek screw into the frame like shown in the picture to the left.

Be sure not to over tighten or under tighten the screw. Be sure there is a good connection by checking the connectivity of the ground with a multimeter. You can do this seeing if there is a resistance (Setting "Ω" on meter) between the OEM copper ground and the new ring terminal.





Step 5:
Locate the OEM floor grommet by lifting up the carpet on the driver's side.

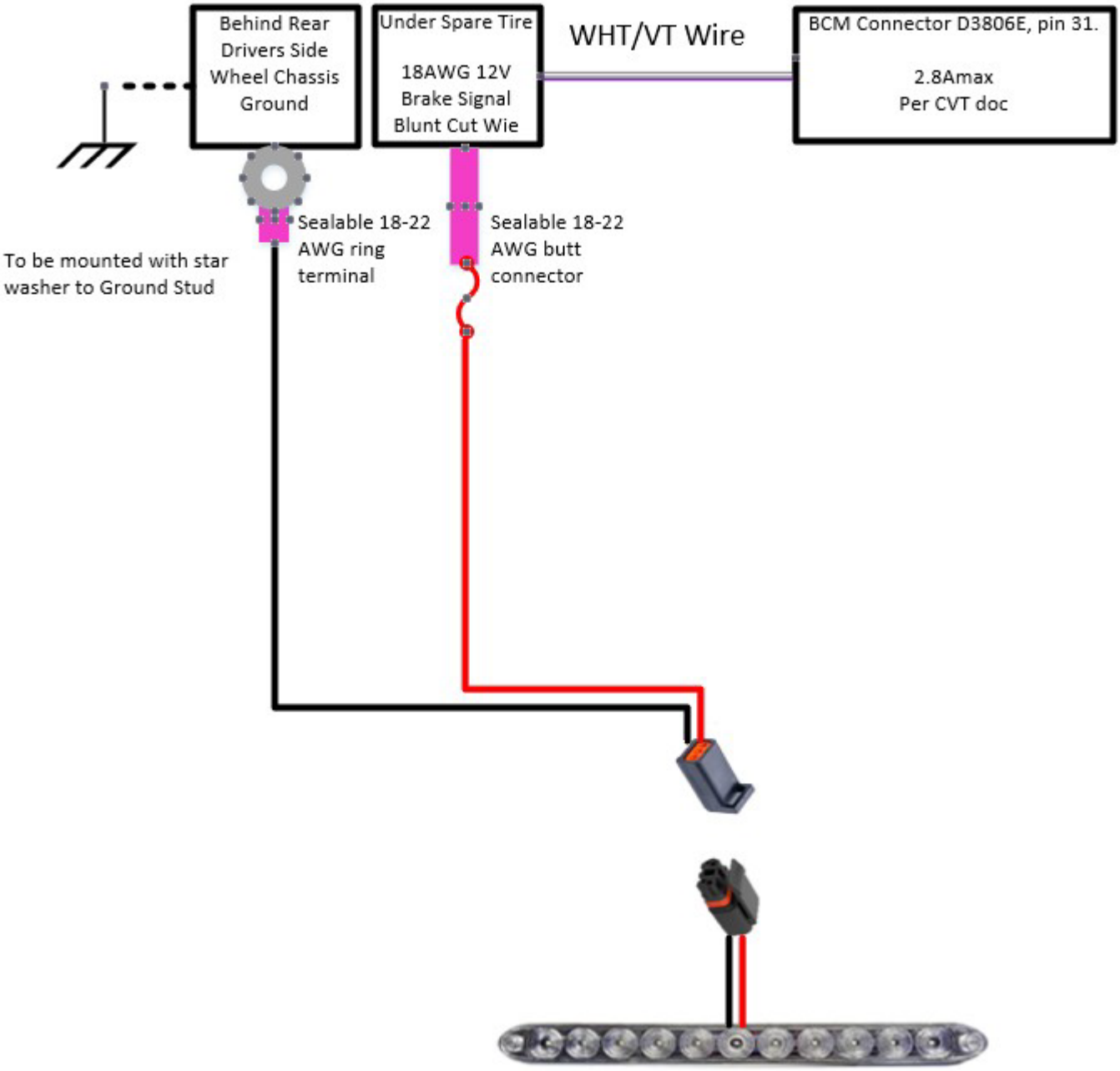
If installing the interior lighting kit as well as the brake light kit, utilize the larger grommet supplied in the brake light harness bag.

If only installing the brake light harness, utilize the smaller grommet supplied in the brake light harness kit.

Drill (for larger grommet a 1" hole and 0.625" (5/8) hole for the smaller grommet) then route the wire harness through the grommet, to the underbody of the truck.

Silicone when done.

Vehicle Specific Install Steps – RAM 1500



For MY23+ RAM 1500 with 5.6’, 6.3’, and 8’ Beds

Vehicle Specific Install Steps – RAM 1500

Step 1:
Locate the brake light harness 71680 that is dropped through the D-pillar and ensure that the fuse from the inline fuse holder is removed until the end of the install.

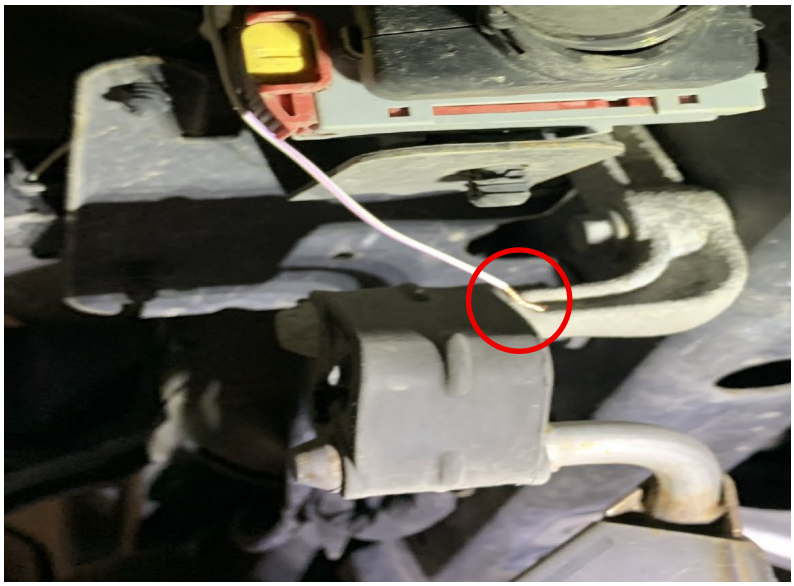
Step 2:
On the street side, rearward of the vehicle tire is access to the harnessing for the rear electrical. Locate OEM red and gray connector.

Look around the topside of the harness connections and follow the part of the harness that goes toward the center of the vehicle (towards the curb side) [See yellow arrow 1].

There will be a small tape covered wire separate from the OEM harness. It will have a black covering on the end [See yellow arrow 2].

This is the OEM CHMSL circuit wire for the brake light. Its color is White with a Violet stripe.

Vehicle Specific Install Steps – RAM 1500



Step 3:
On backside of the OEM harness, locate the white and violet wire. Begin to strip the wire covering and prepare it to be connected to the brake light harness.
Use the image as reference.

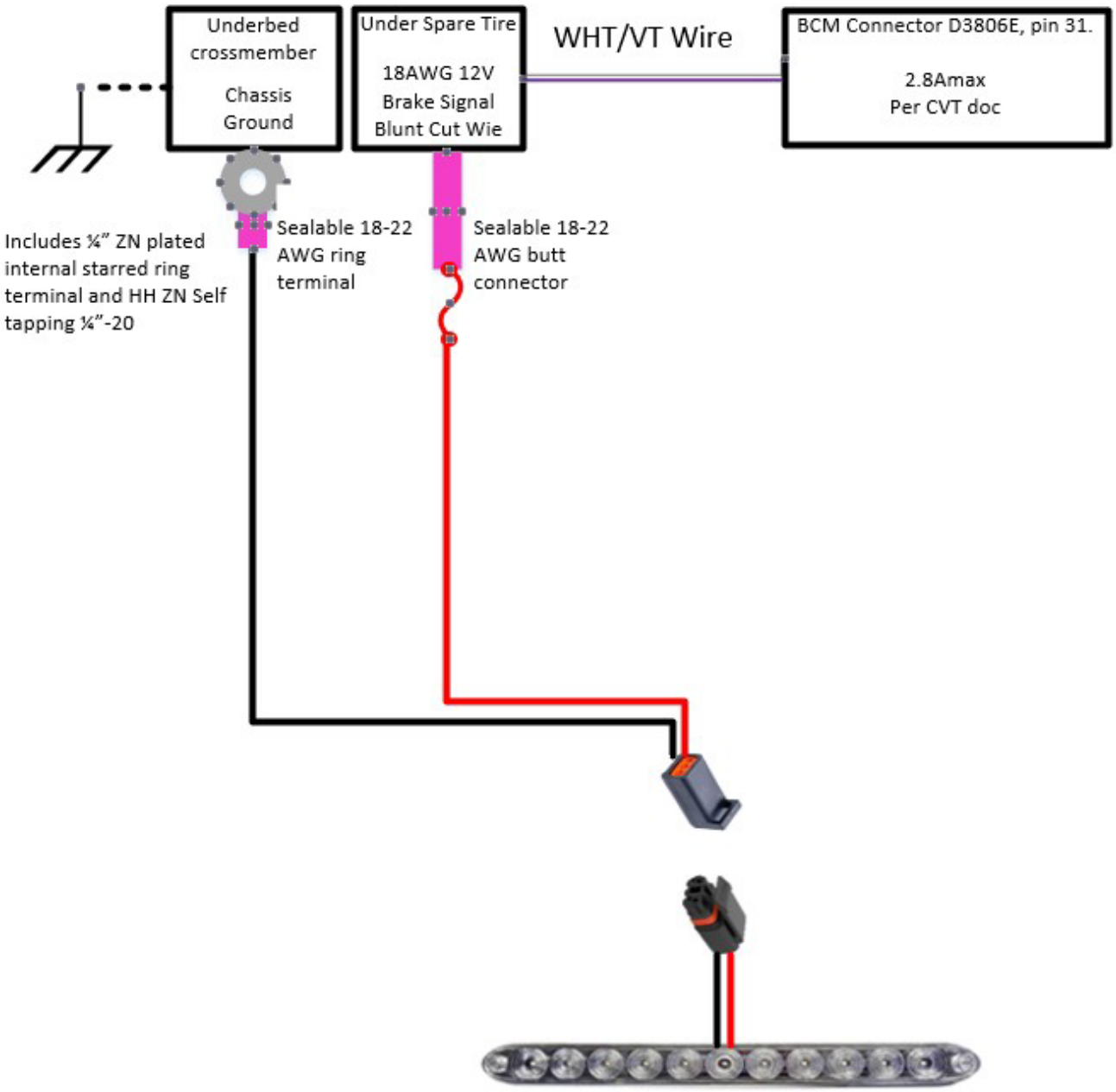
Step 4:
Locate the end of the harness with the ring terminal and butt connector.

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.

Step 5:
Alongside of the OEM harness, locate the OEM chassis ground located on the frame—forward of the CHMSL connection, but still aft of the street side rear wheel. Shown circled in red in the image to the left.

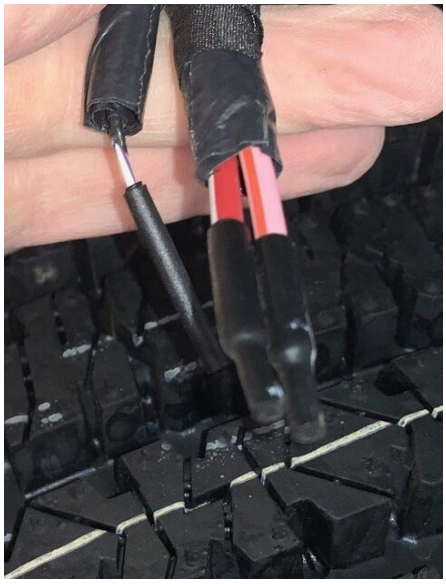
Using a 10mm socket wrench, firmly secure the ring terminal on the brake light harness to the chassis ground. Be sure to place a 1/4” star tooth washer (FAS0066) in proper position, in front of ring terminal before securing back in place.

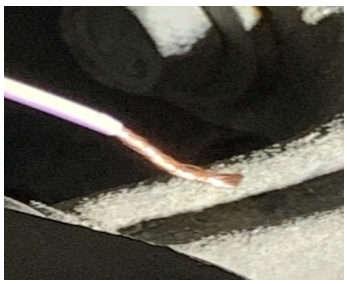
Vehicle Specific Install Steps – RAM 2500/3500



For MY23+ RAM 2500/3500 with 5.6', 6.3', and 8' Beds

Vehicle Specific Install Steps – RAM 2500/3500





Step 1:
Locate the underside of the vehicle. Near the spare tire, closer to passenger side, locate OEM harness shown in the image to the left. Cut white tape wrapped around harness. Begin to pull OEM harness out from behind truck tire until you can visually see the blunt cut wire end wrapped in black tape.

Step 2:
Locate the end of the harness 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.

Step 3:
Route the other end over the underbody frame rail to the white underbed crossmember. Follow the image as reference.

Using a self-tapping screw, begin to screw the other end wire terminal to the vehicle.

1pc - ¼” HH Self tapper FAS0641
1 pc - ¼”Star tooth Washer Galv. FAS0066

Excess Wire Under Body. Use the provided tek screw and p-clip to secure wiring to the frame

Refer to vehicle specific routing diagrams to route the harness into the tailgate.

Route the brake light harness rearward following the OEM wire harness on the frame.

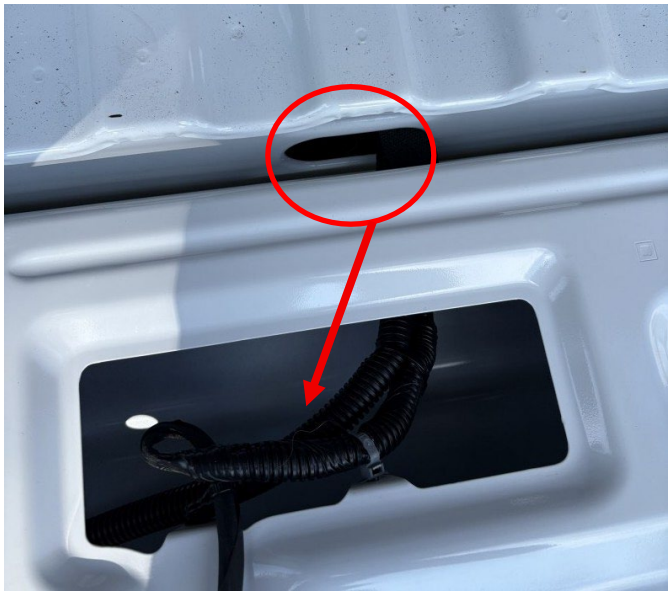
Continue routing the harness rearward until you reach the bumper.

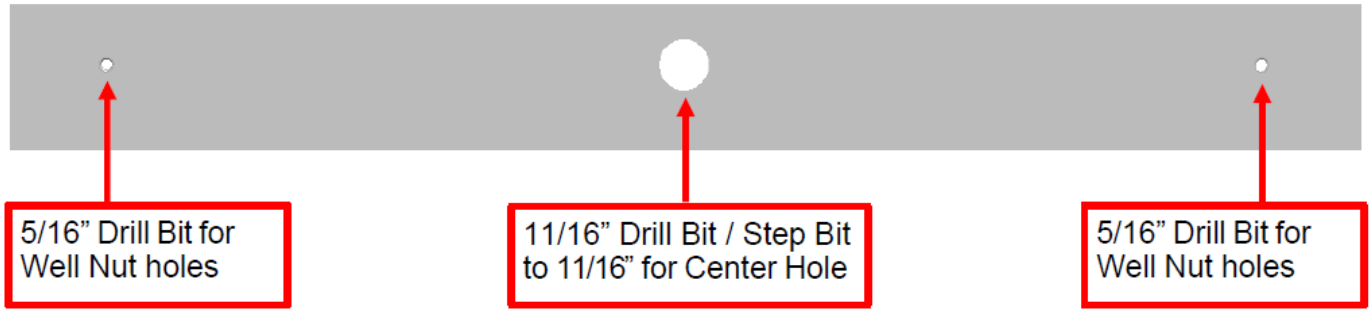
Route the harness between the bed and the tailgate, into the bottom of the tailgate.

Tuck any excess wiring into the empty cavity underneath the bed frame. Bundle the excess wire in the cavity using zip ties. Use the Tek screw and p-clip to secure the bundle to the frame.

Secure the wiring with zip ties.

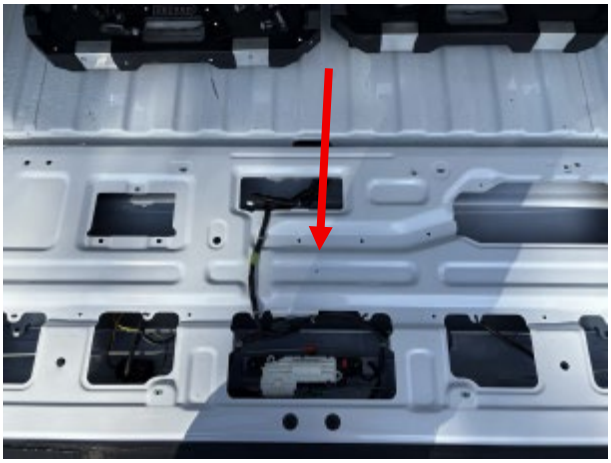
DO NOT secure wiring to any brake lines.





Drill the middle hole centered and as high on the tailgate as possible while making certain the light sits flat on the tailgate. The light must be at least 34 inches about the ground, and cannot be tilted at more than a 10 degree angle.

Place (2) FAS1021 Well Nuts in outside holes for the taillight. Ensure flange is flush to the tailgate. Using FAS0922 fasten taillights onto tailgate. Confirm Well Nuts have a good grab on the back side of the tailgate.



Continue routing the brake light harness inside the tailgate, to the light.

Connect the harness to the light:
Plug the connectors together. Pull connectors lightly to ensure they do not come apart.

Be sure the red wire on the harness connects to the black wire on the light. Then the black wire on the harness connects to the white wire on the light.

Insert the fuse into the inline-fuse holder on the brake light harness.

The install is now complete.

Check that the brake light comes on when the brake pedal is pushed, then back off once pedal is released.