# TSBX KIT, GM1500 6' BED E

*PRODUCT WEIGHT*

**231.48 LBS**

*WIDTH X DEPTH X HEIGHT*

**75.75" X 73" X 23"**

*CAPACITY*

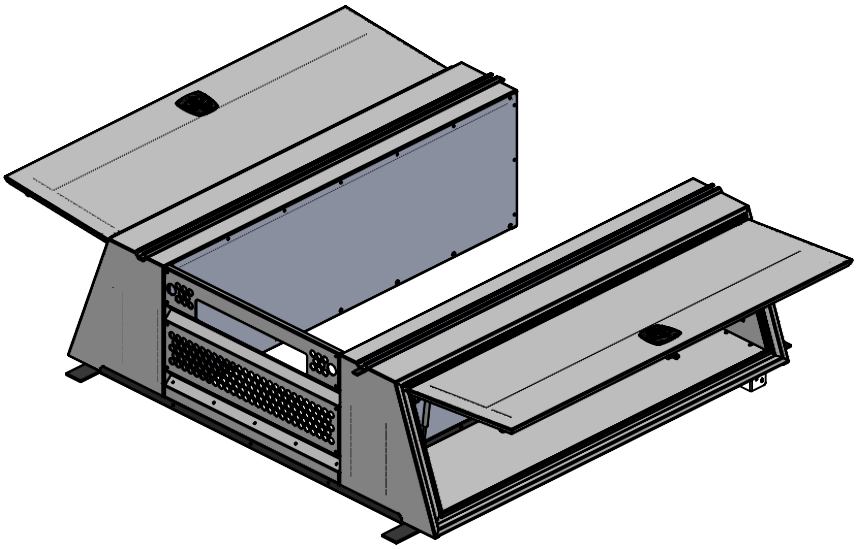
**100 LBS PER BOX**

*COLOR*

**WHITE**

*CATALOG NUMBER*

**TSBX-6G1E**



## PRODUCT FEATURES

**With 13.5 cubic feet per box of enclosed space provides significantly more room than standard crossover or low-profile toolboxes. Easily store tools, gear, and equipment. The toolboxes sit on the bed rails, preserving the full length and depth of the truck bed while maintaining usable floor space for large items. The enclosed design keeps everything dry, and protected from weather, dust, and road debris. The toolboxes are theft resistant but easy to access, reducing time spent digging through the bed or climbing in and out. An adjustable shelf and divider can be added for additional organization.**

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

# TSBX KIT, GM1500 6' BED E

*CATALOG NUMBER* **TSBX-6G1E**

## *PRODUCT APPLICATION*

**With 13.5 cubic feet per box of enclosed space provides significantly more room than standard crossover or low-profile toolboxes. Easily store full-size tools, jobsite gear, compressors, power tools, and recovery equipment. Sitting on the bed rails, preserving the full length and depth of the truck bed. Maintains usable floor space for larger cargo like lumber, pallets, or equipment. Completely enclosed design keeps tools secure, dry, and protected from weather, dust, and road debris. This product comes equipped with an E-LOCK with lighting.**

## *ACCESSORIES THAT WILL WORK WITH THIS PRODUCT*

| *CATALOG NUMBER* | *DESCRIPTION (smart)* |
|---|---|
| TSA-S6D4 | TOP SIDE BOX, 6' SHLV KIT |
| TSBX-DK4 | TOP SIDE BOX, DIVD KIT |
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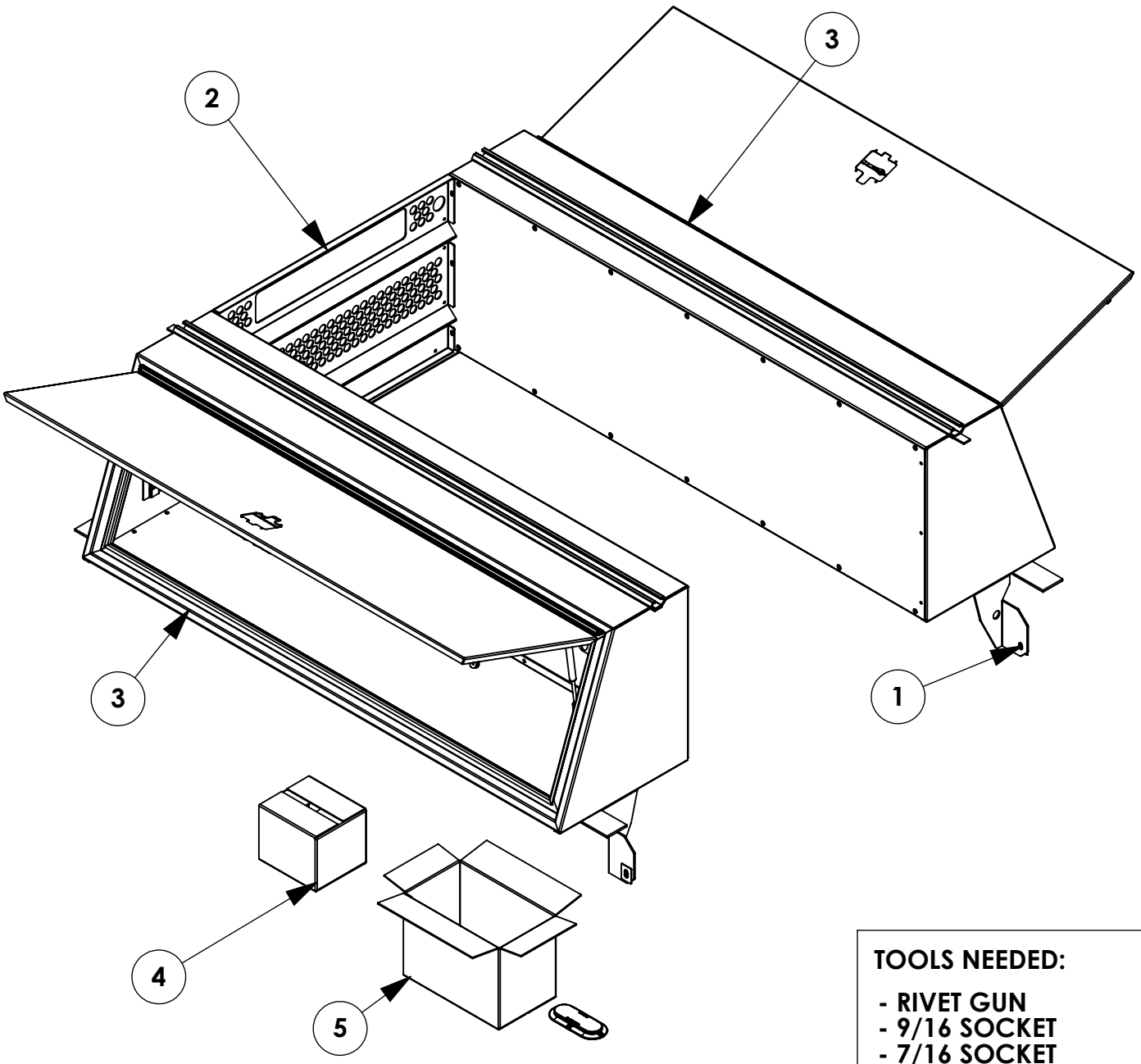
| INSTR. NUMBER | PG: | REV: |
|---|---|---|
| :81821 | 1 | B |

PART NUMBER : **TSBX-6F1M**

PART DESC. : TSBX KIT, F150 6' BED M

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6F1 | TSBX FORD F-150 6' CAB GUARD/BED BRKT KIT | 1 |
| 2 | TS-CG1 | TSBX, CAB GUARD KIT, 1 | 1 |
| 3 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 4 | TMLHK2 | TOPPER MECHANICAL LOCK HATCH KIT | 1 |
| 5 | 81248 | CHMSL KIT TSBX | 1 |

**NOTE:**
**REFER TO 83171 INSTALL INSTRUCTION FOR KITS WITHOUT CAB GUARD**

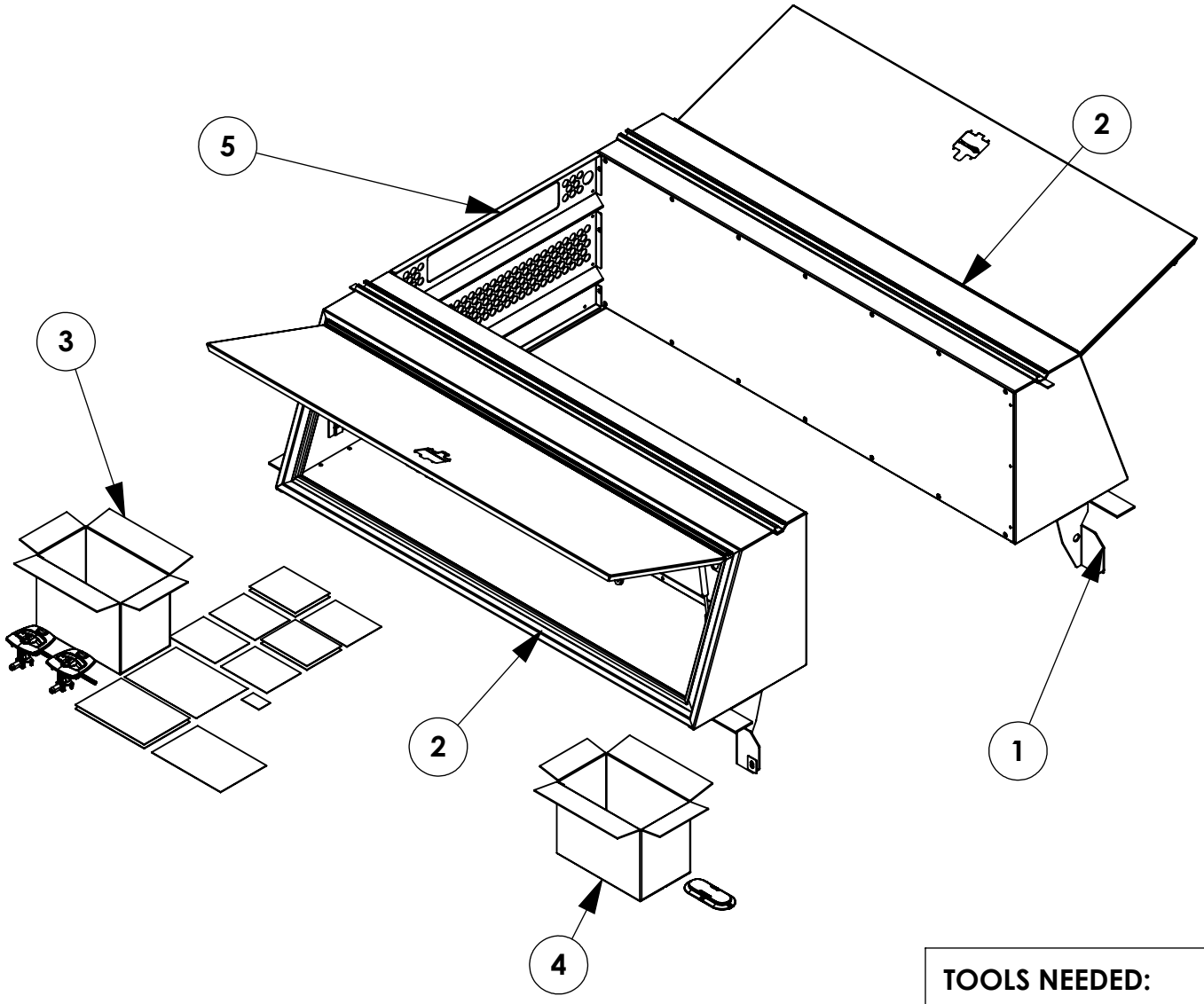



**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

| INSTR. NUMBER : 81821 | PG: 2 | REV: B |
|---|---|---|
| PART NUMBER : **TSBX-6F1E** | | |
| PART DESC. : TSBX KIT, F-150 6' BED E | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6F1 | TSBX FORD F-150 6' CAB GUARD/BED BRKT KIT | 1 |
| 2 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | E-LOCK CREW,PASS,8 | 1 |
| 5 | TS-CG1 | TSBX, CAB GUARD KIT, 1 | 1 |

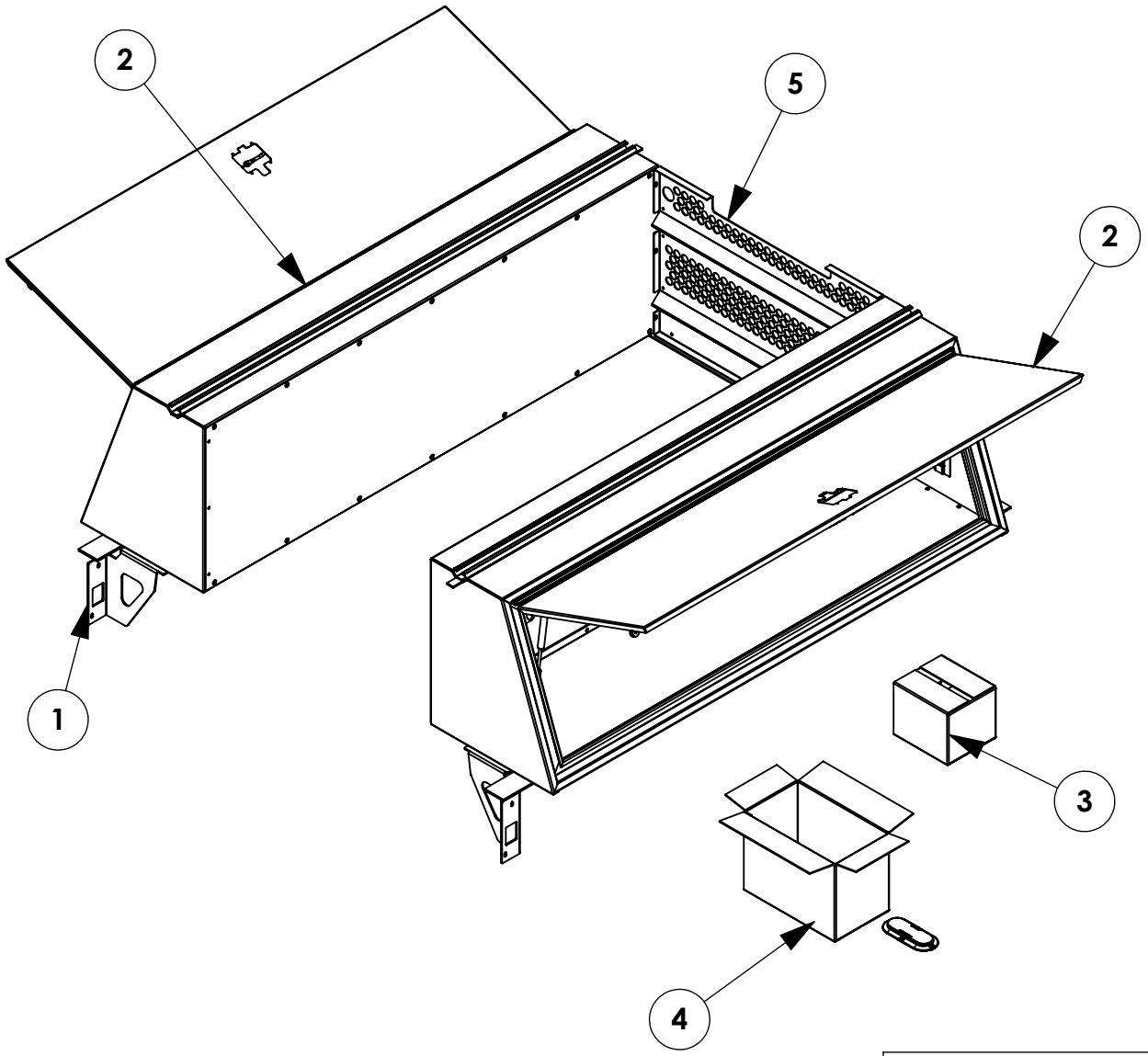



**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

| INSTR. NUMBER : 81821 | PG: 3 | REV: B |
|---|---|---|
| PART NUMBER : **TSBX-6F2M** | | |
| PART DESC. : TSBX KIT, F-250 6' BED M | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6F2 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 2 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 3 | TMLHK2 | TOPPER MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |
| 5 | TS-CG2 | TSBX, CAB GUARD KIT, 2 | 1 |

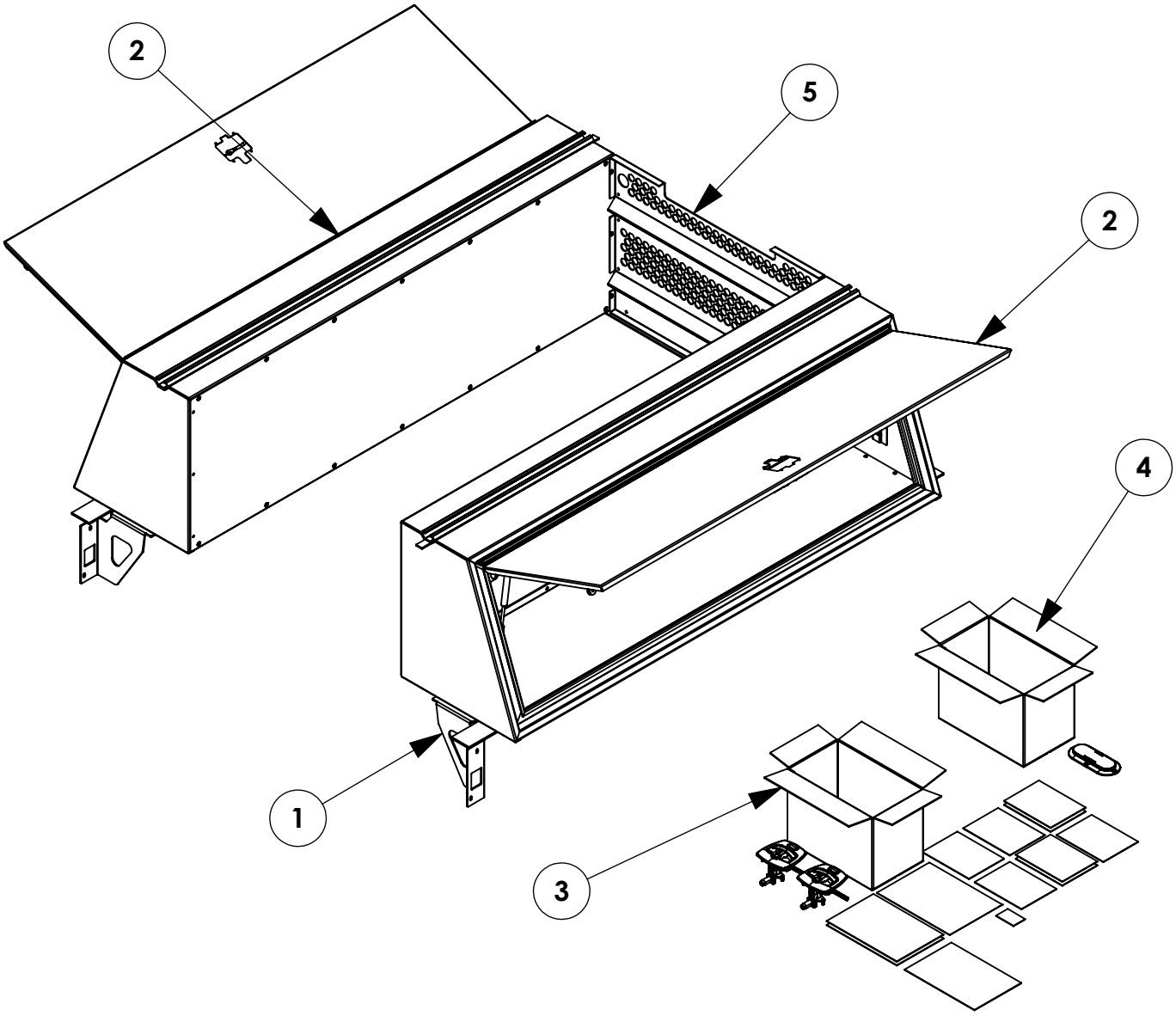



**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

| INSTR. NUMBER : 81821 | PG: 4 | REV: B |
|---|---|---|
| PART NUMBER : **TSBX-6F2E** | | |
| PART DESC. : TSBX KIT, F-250 6' BED E | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6F2 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 2 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |
| 5 | TS-CG2 | TSBX, CAB GUARD KIT, 2 | 1 |

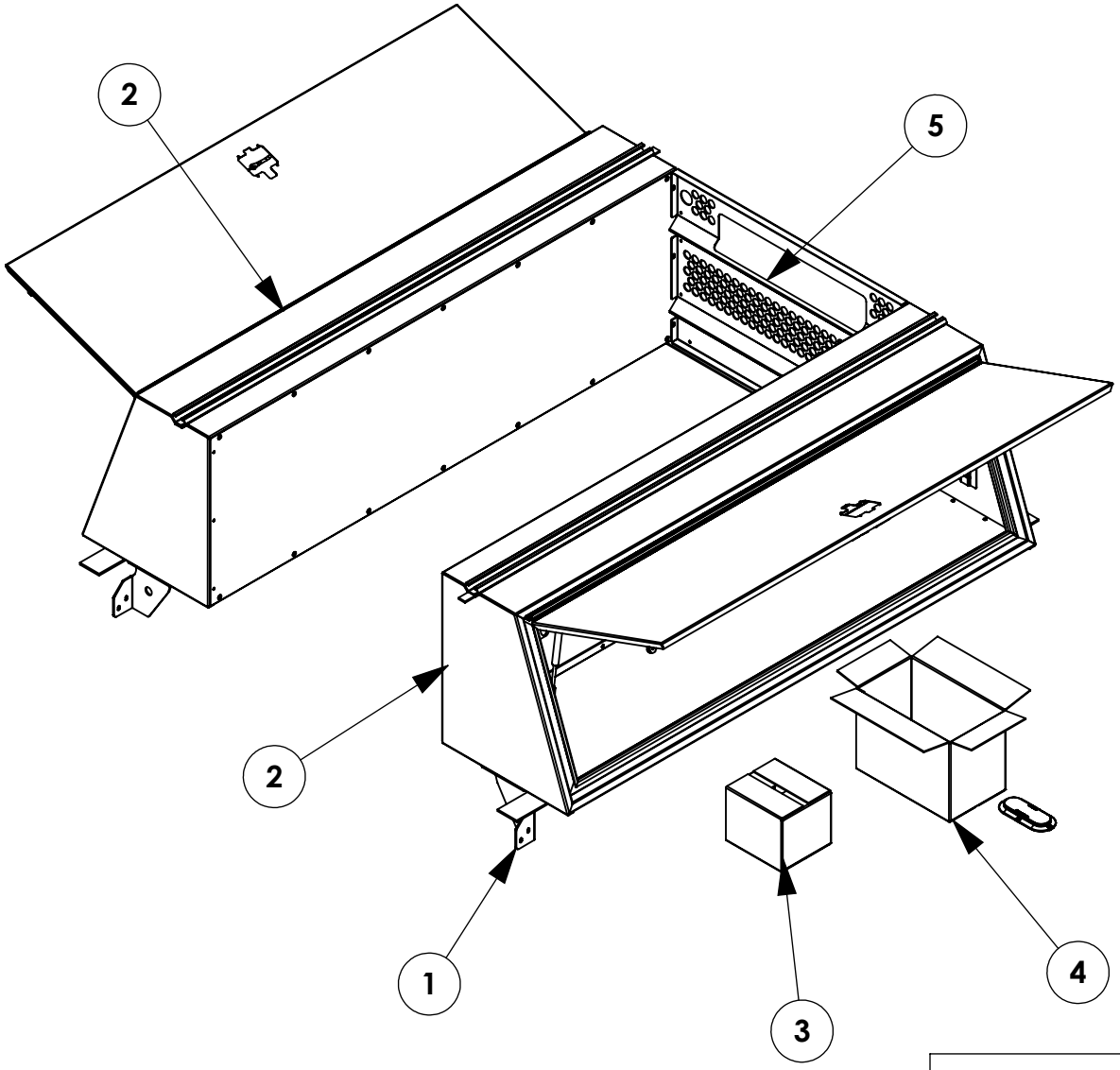



**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

| INSTR. NUMBER : 81821 | PG: 5 | REV: B |
|---|---|---|
| PART NUMBER : **TSBX-6G1M** | | |
| PART DESC. : TSBX KIT, GM 1500 6' BED M | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6G1 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 2 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 3 | TMLHK2 | TOPPER MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |
| 5 | TS-CG3 | TSBX, CAB GUARD KIT, 3 | 1 |

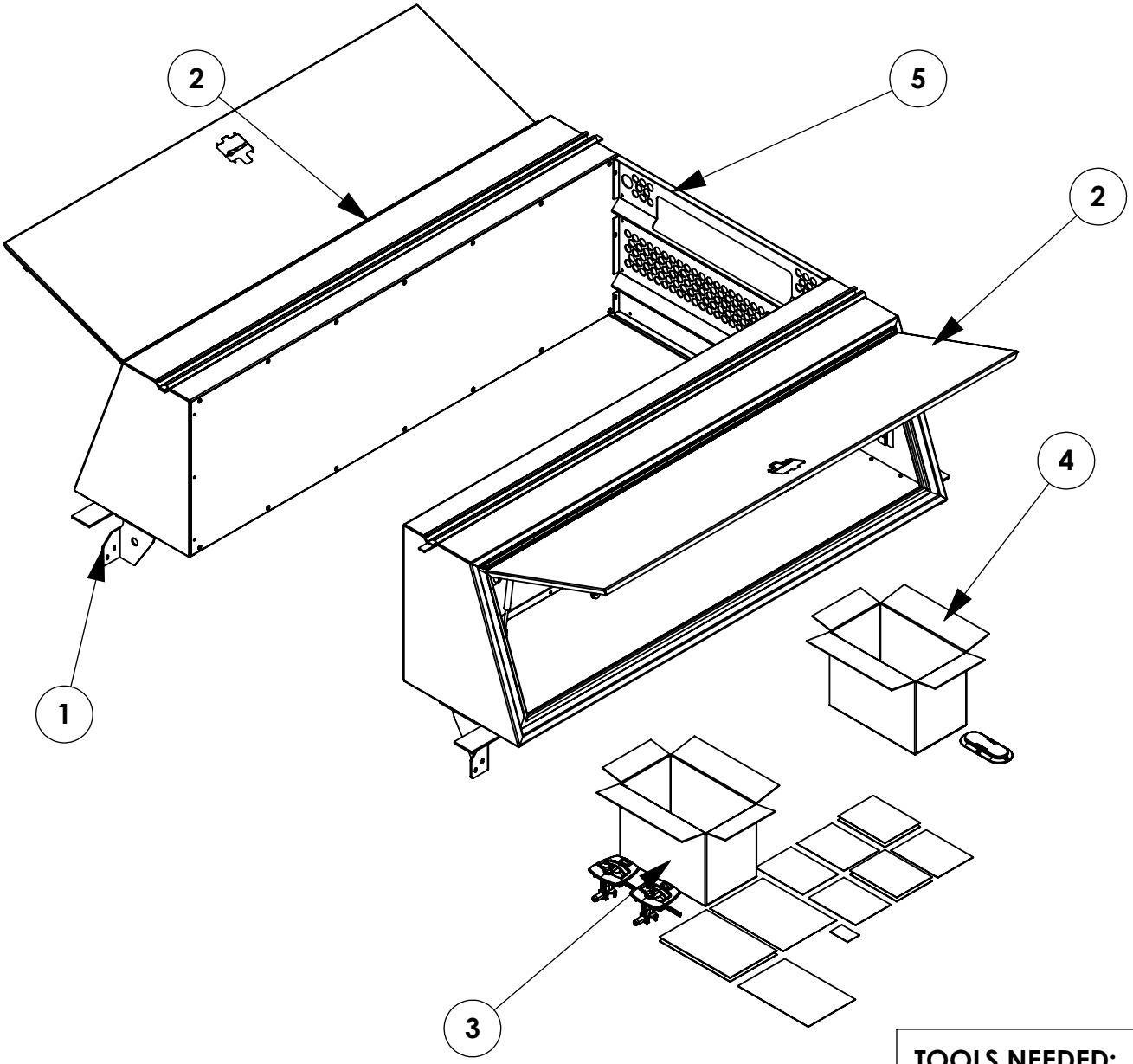



**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

| INSTR. NUMBER : 81821 | PG: 6 | REV: B |
|---|---|---|
| PART NUMBER : **TSBX-6G1E** | | |
| PART DESC. : TSBX KIT, GM1500 6' BED E | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6G1 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 2 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |
| 5 | TS-CG3 | TSBX, CAB GUARD KIT, 3 | 1 |

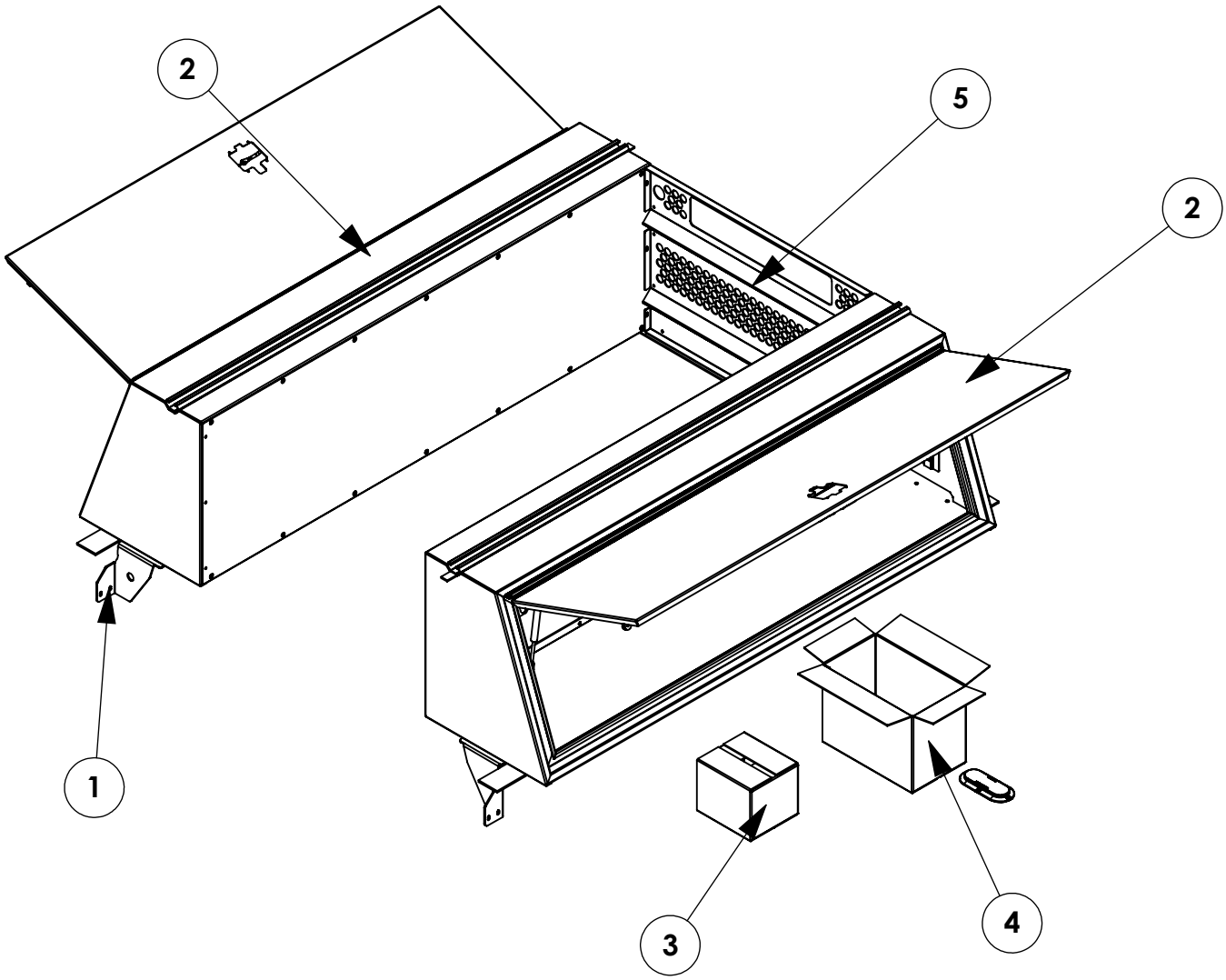



**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

| INSTR. NUMBER : 81821 | PG: 7 | REV: B |
|---|---|---|
| PART NUMBER : **TSBX-6G2M** | | |
| PART DESC. : TSBX KIT, GM2500 6' BED M | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6G2 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 2 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 3 | TMLHK2 | TOPPER MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |
| 5 | TS-CG1 | TSBX, CAB GUARD KIT, 1 | 1 |

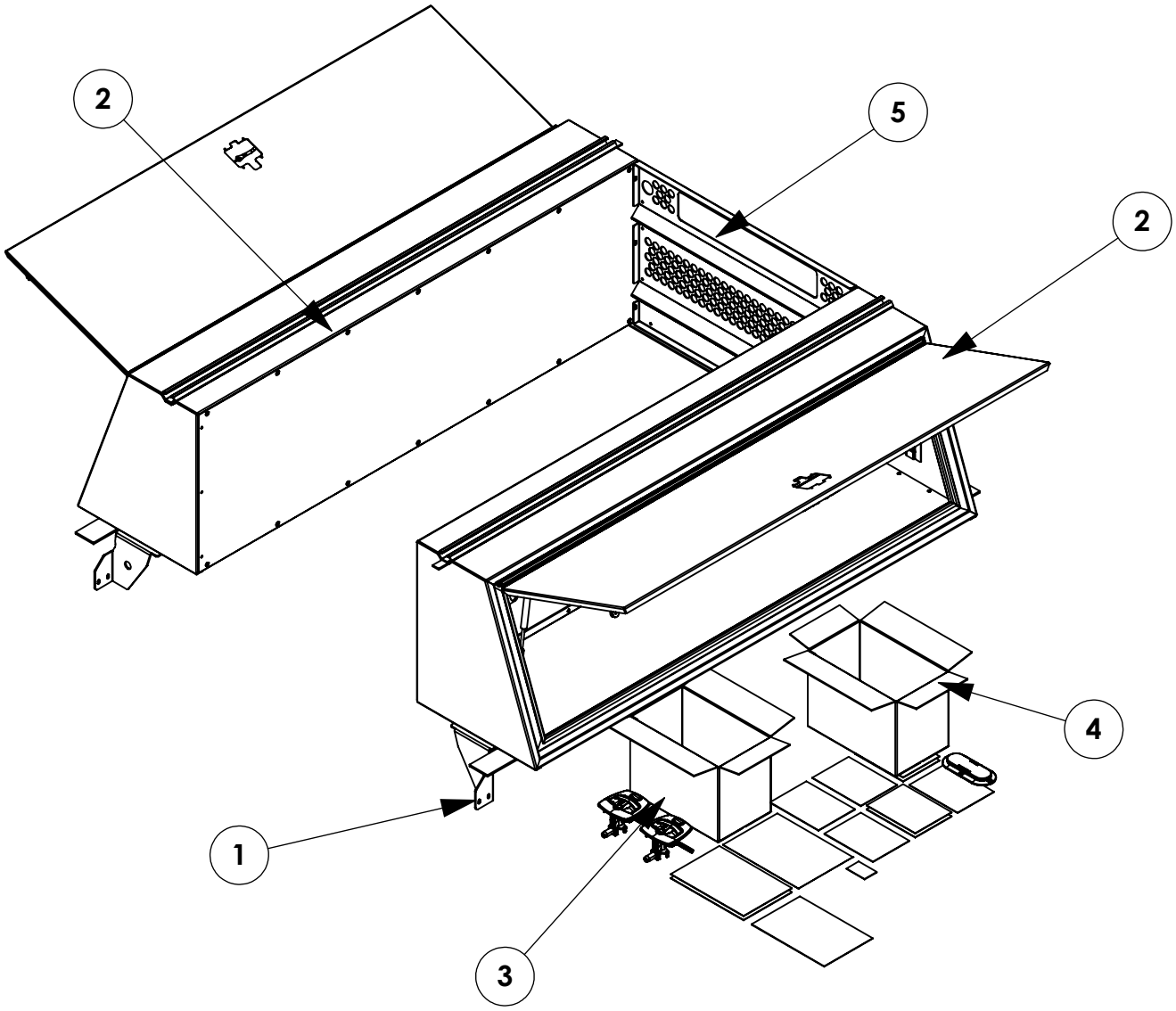



**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

| INSTR. NUMBER : 81821 | PG: 8 | REV: B |
|---|---|---|
| PART NUMBER : **TSBX-6G2E** | | |
| PART DESC. : TSBX KIT, GM2500 6' BED E | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6G2 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 2 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |
| 5 | TS-CG1 | TSBX, CAB GUARD KIT, 1 | 1 |

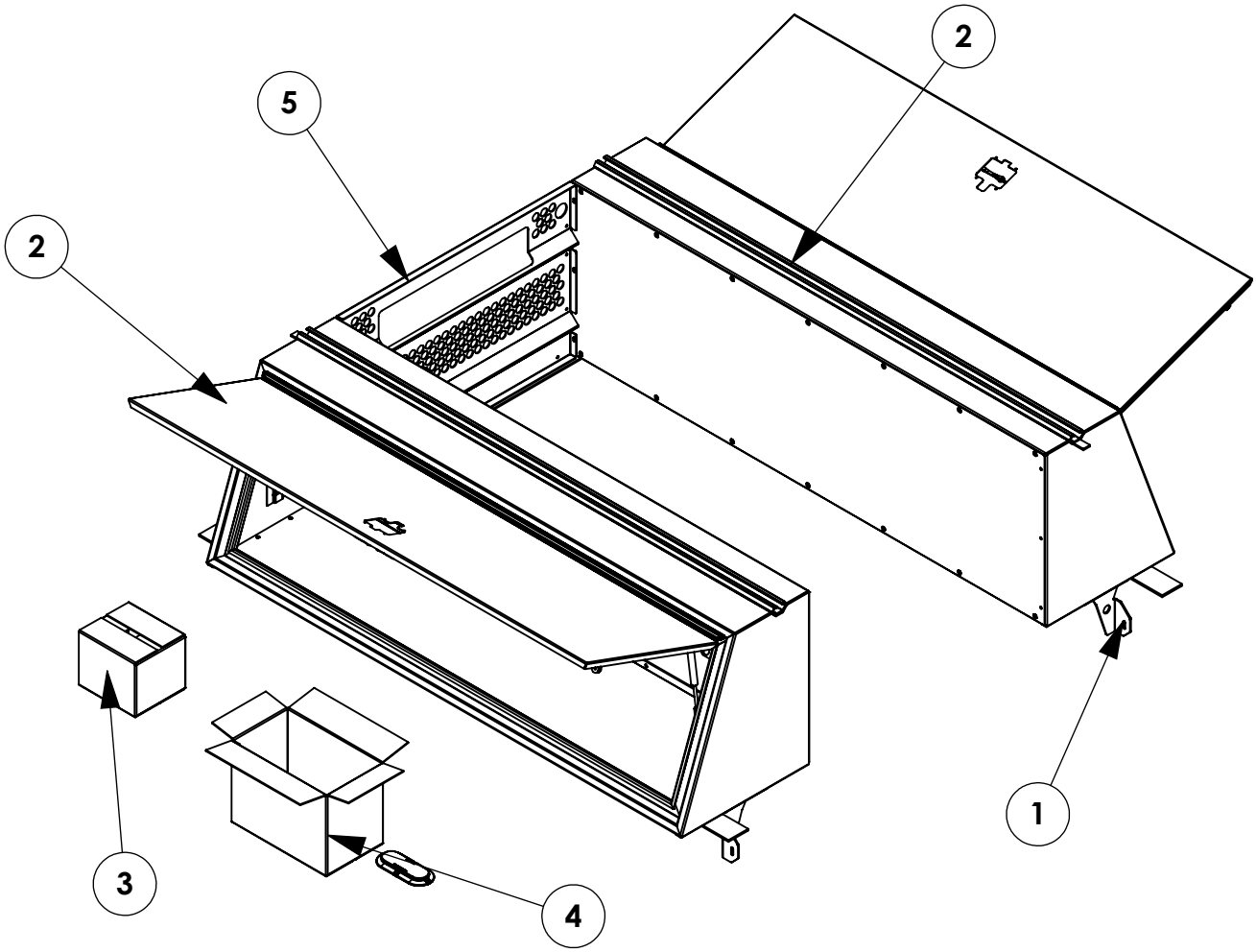



**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

| INSTR. NUMBER : 81821 | PG: 9 | REV: B |
|---|---|---|
| PART NUMBER : **TSBX-6R1M** | | |
| PART DESC. • TSBX KIT, RAM1500&2500, • 6' BED M | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6R1 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 2 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 3 | TMLHK2 | Topper Mechanical Lock Hatch Kit | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |
| 5 | TS-CG3 | TSBX, CAB GUARD KIT, 3 | 1 |

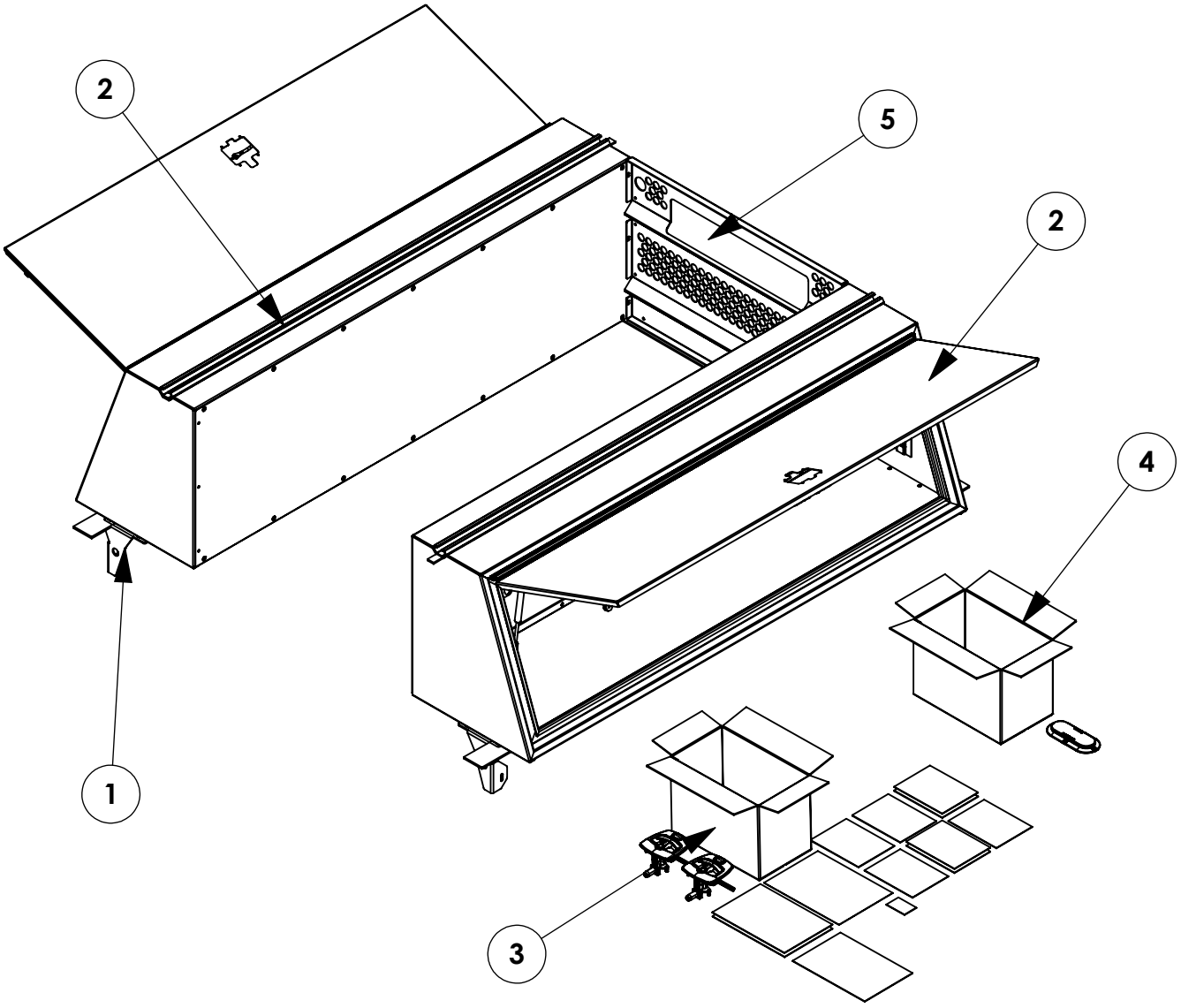



**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

| INSTR. NUMBER : 81821 | PG: 10 | REV: B |
|---|---|---|
| PART NUMBER : **TSBX-6R1E** | | |
| PART DESC. • TSBX KIT, RAM1500&2500 • 6' BED E | | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BK6R1 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 2 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |
| 5 | TS-CG3 | TSBX, CAB GUARD KIT, 3 | 1 |




**TOOLS NEEDED:**

- **RIVET GUN**
- **9/16 SOCKET**
- **7/16 SOCKET**
- **T27 TORX**
- **DRILL**

## *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.

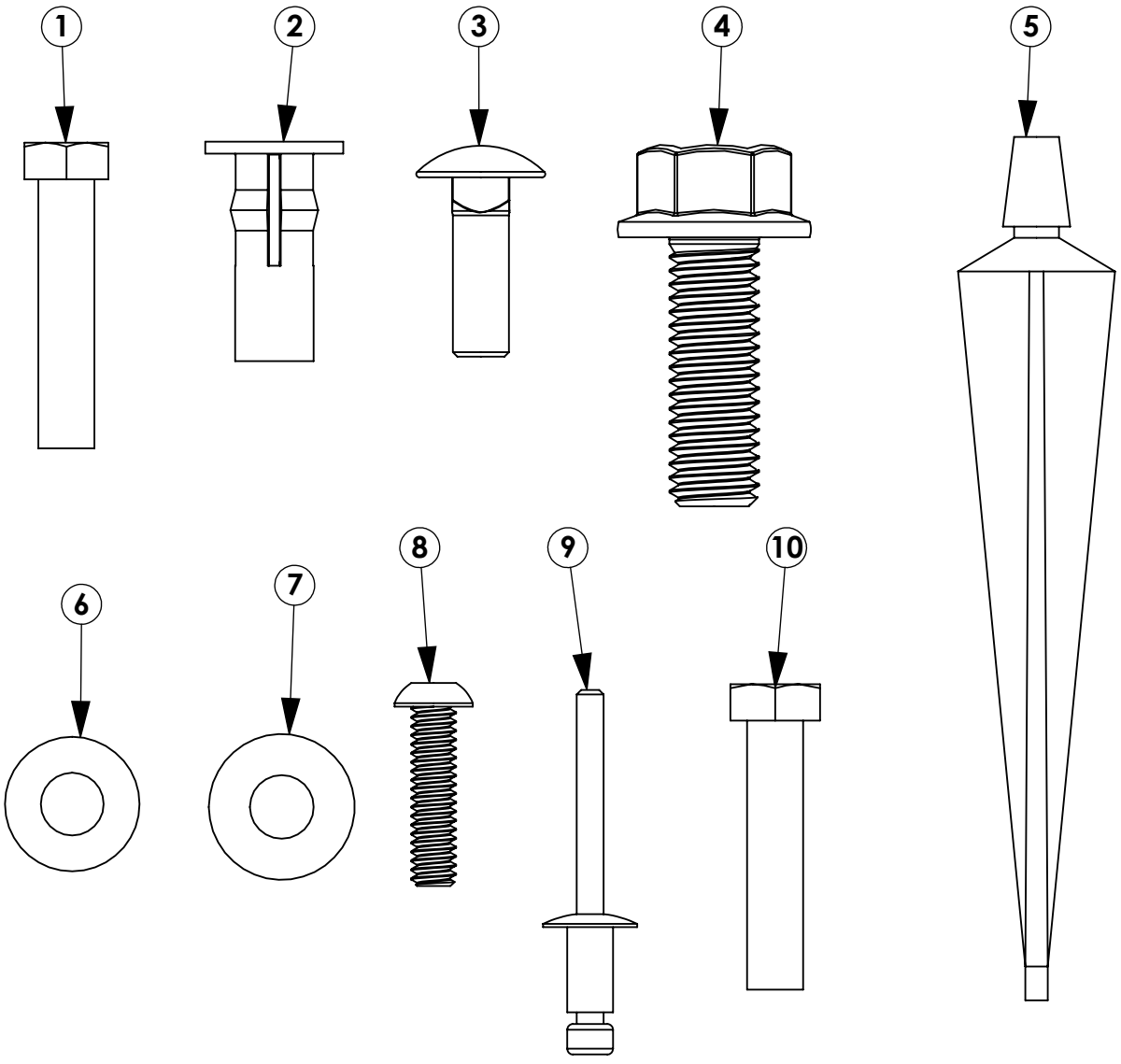
**BEST PRACTICE: ORGANIZE ALL FASTENERS & VERIFY THAT ALL ARE ACCOUNTED FOR**



## *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 | FAS0552 | WASHER, FLAT, 5/16, SST | 8 |
| 7 | FAS0688 | EPDM WASHER | 8 |
| 8 | FAS0940 | SCREW, BHTX 1/4-20X1 SS NP | 9 |
| 9 | FAS0584 UNCRIMPED | RIVET, BLIND, DOMEHEAD, 1/4 X .25 GRIP | 12 |
| 10 | FAS0242 | SCREW, HEX HD, 5/16-18X1.50 STAINLESS STEEL | 10 |



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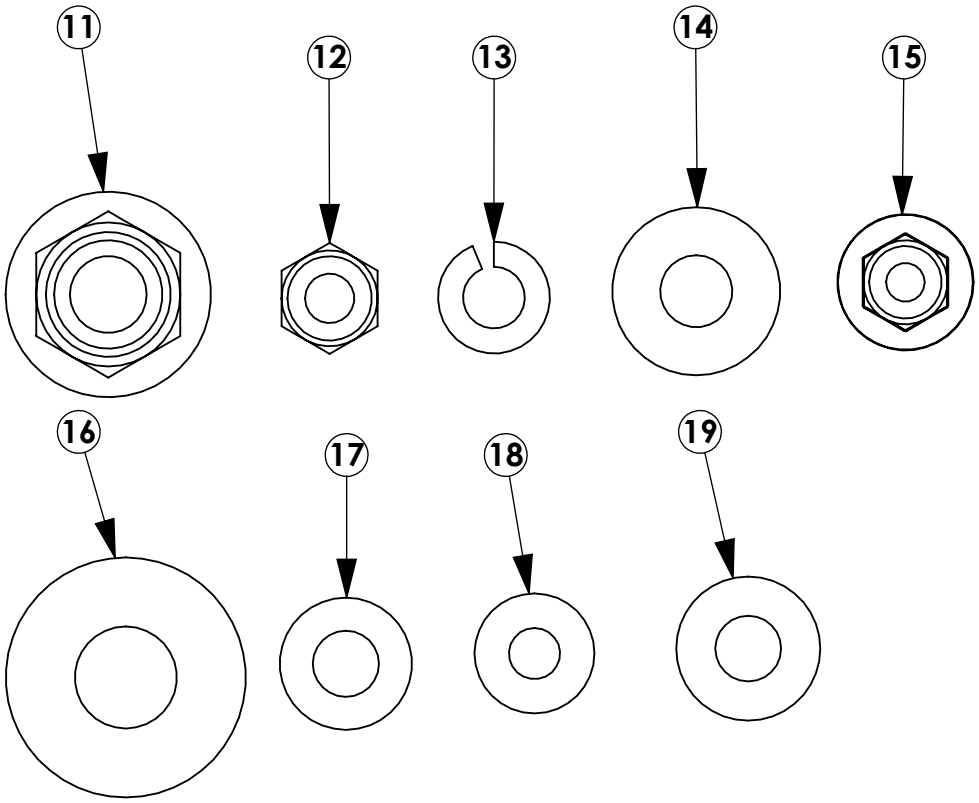
**BEST PRACTICE: ORGANIZE ALL FASTENERS & VERIFY THAT ALL ARE ACCOUNTED FOR**

PAGE: **14**

## *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 | FAS0098 | WASHER, LOCK, SPLIT, 5/16, ZINC PLATE | 4 |
| 14 | FAS0086 | WASHER,FLAT USS 5/16 ZP | 4 |
| 15 | FAS0055 | NUT,HEX NLK FLG 1/4-20 ZP | 9 |
| 16 | FAS0334 | WASHER,FLAT 1/2 SS | 2 |
| 17 | FAS0245 | WASHER, FLAT, 5/16 HRD, ZN | 20 |
| 18 | FAS0234 | WASHER, FLAT, 1/4, SST | 9 |
| 19 | FAS0164 | WASHER,FLAT,SAE,5/16,ALUM | 10 |



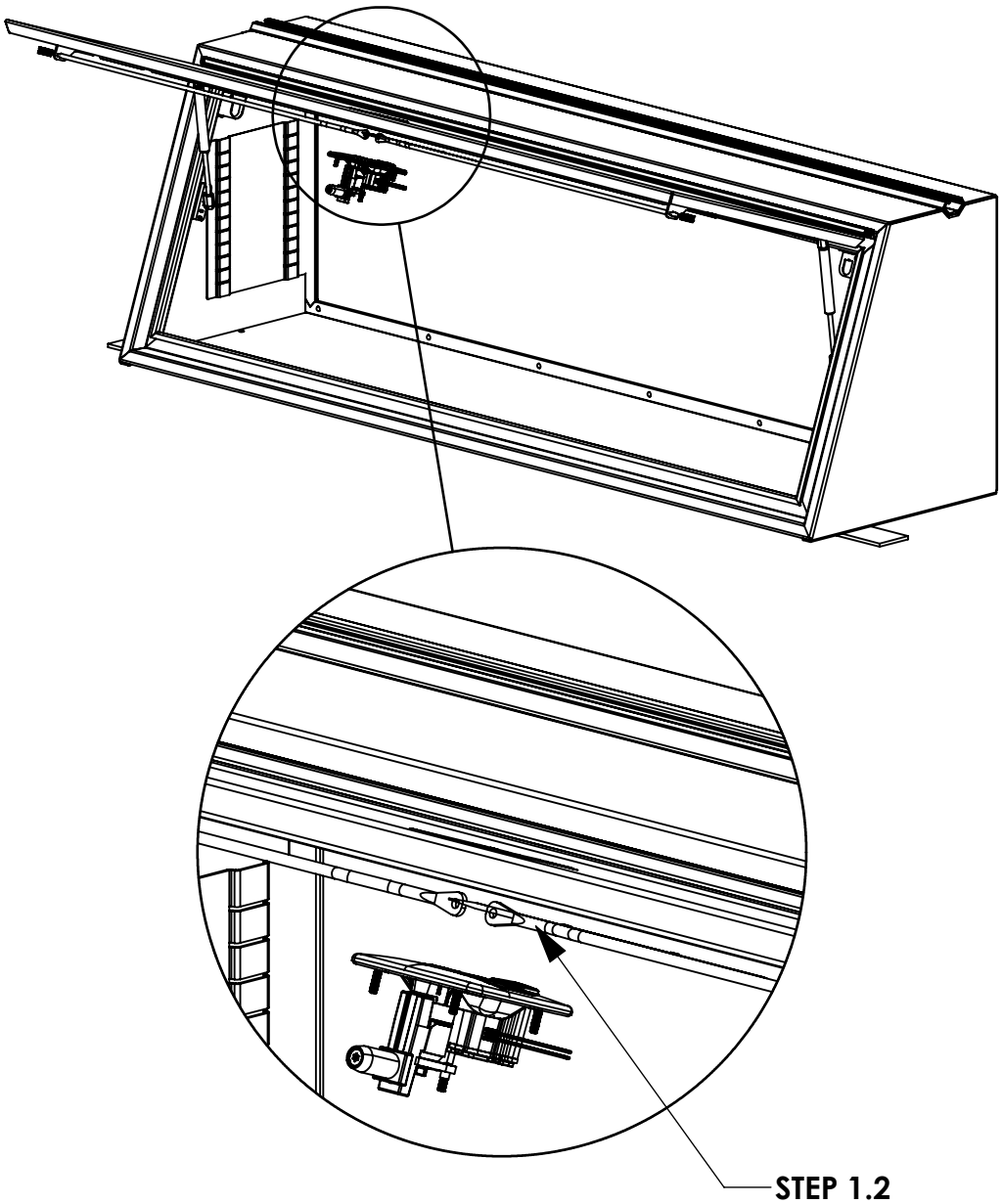
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# *STEP 1 - DETERMINE WHICH BOX WILL BE THE PS AND DS SIDE - TEHSE BOXES WILL SHIP FROM ASC SYMMETRICAL*

**Step 1.1**
**IDENTIFY WHAT SIDE OF THE BOX WILL BE FACING FORWARD AND REWARD ON THE VEHICLE**

**Step 1.2**
**INSTALL LATCH <u>FULLY TIGHTEN</u>**
**FAS0917**
**(4 PLACES)**

**Step 1.3**
**<u>REPEAT FOR 2ND BOX</u>**



# *STEP 2.1 - INSTALL BED SUPPORT BRACKETS THIS IS VEHICLE SPECIFIC*

# F-150

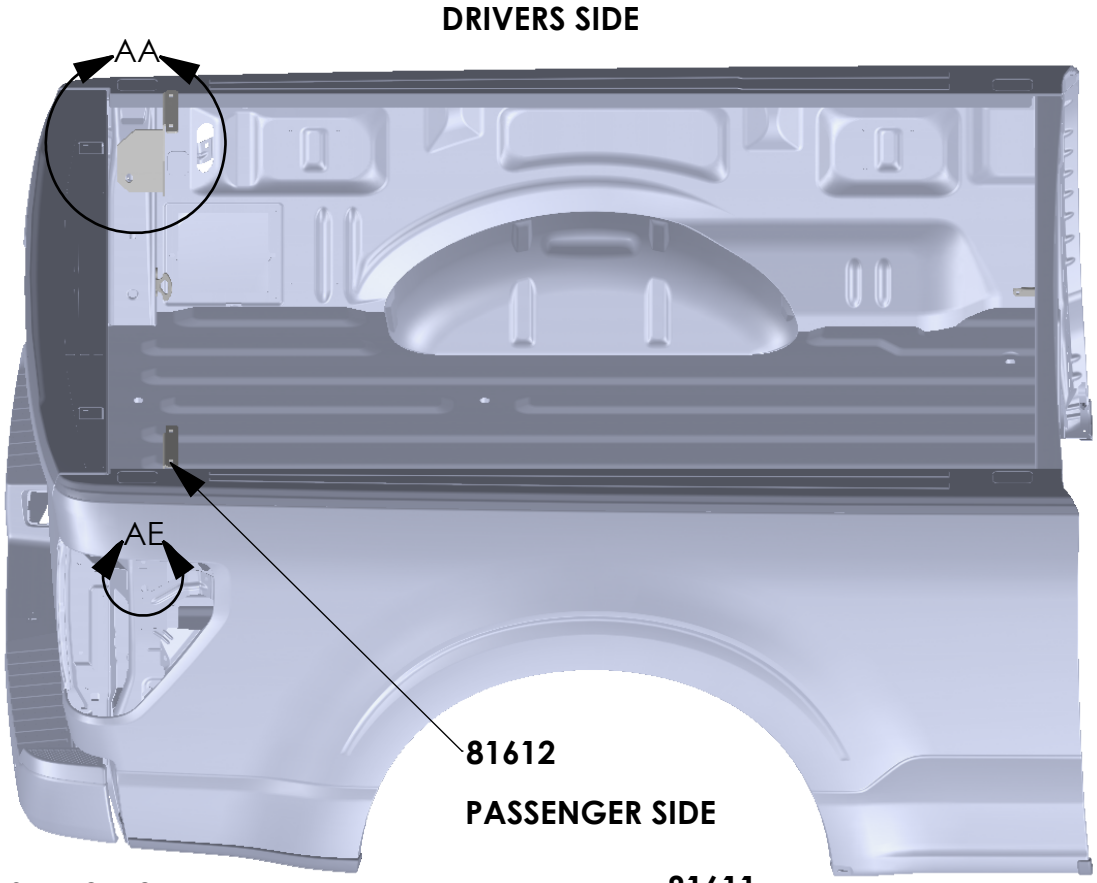
**Step 2.1.1**
**LOCATE THE BED SUPPORT BRACKETS IN THE BRKT KIT**

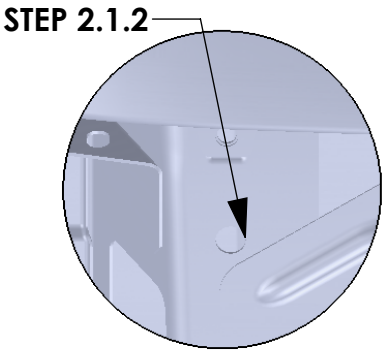
**81611-B AND 81612-B FOR F-150**

**Step 2.1.2**
**REMOVE TAIL LIGHT TO GAIN ACCESS TO MOUNTING HOLES SHOWN**

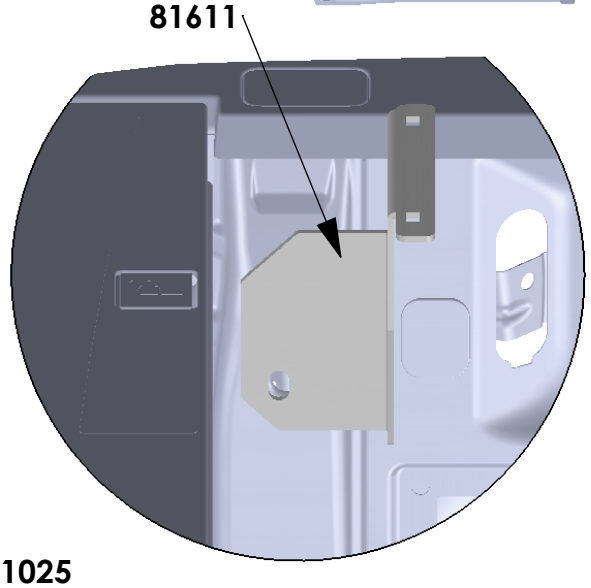
**Step 2.1.3**
**ATTACH BRACKETS <u>LOOSELY TIGHTEN</u> FAS1025, FAS0334, 81848-B, AND FAS1026 (2 PLACES)**

**DO NOT REINSTALL TAIL LIGHT UNTIL END OF INSTALL**

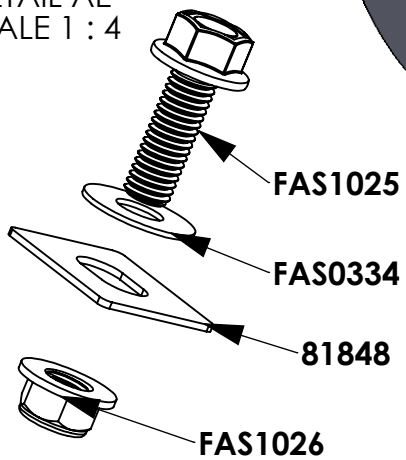



DETAIL AE
SCALE 1 : 4




DETAIL AA
SCALE 1 : 5



## *STEP 2.2 - INSTALL BED SUPPORT BRACKETS*
## *THIS IS VEHICLE SPECIFIC*

# F-250

**Step 2.2.1**
**LOCATE THE BED SUPPORT BRACKETS IN THE BRKT KIT**

**81609-B AND 81610-B FOR F-250**

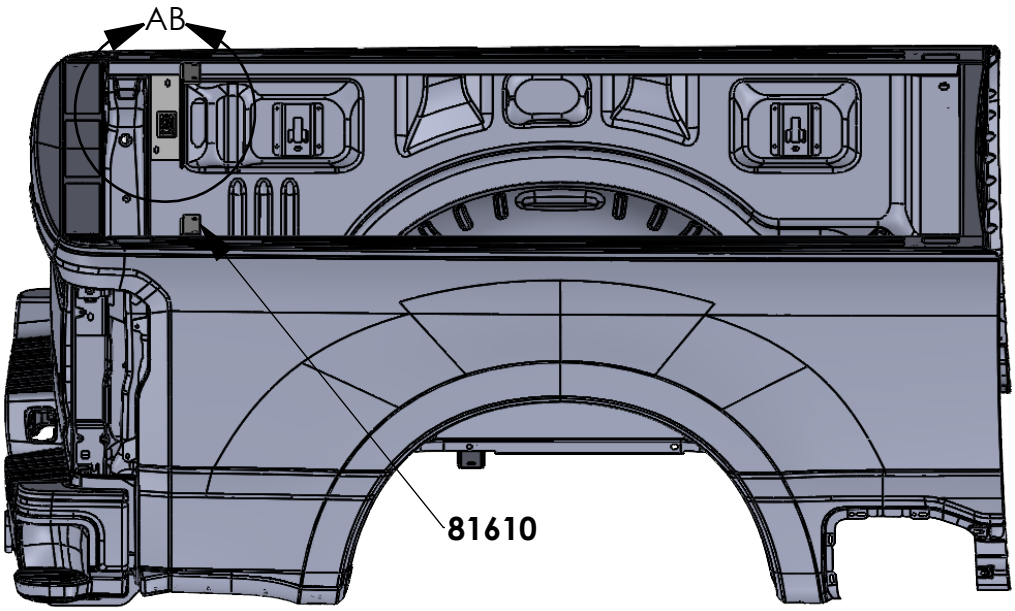
**Step 2.2.2**
**ALIGN UPPER HOLE ON BED BRACKET TO HOLE IN F-250 BED**
**MARK**
**BOTTOM HOLE**
**DRILL**
**OUT OEM HOLE TO .565"**
**DRILL**
**MARKED HOLE TO .565"**

**Step 2.2.3**
**SET PLUSNUTS**
**FAS0091**
**(4 PLACES)**

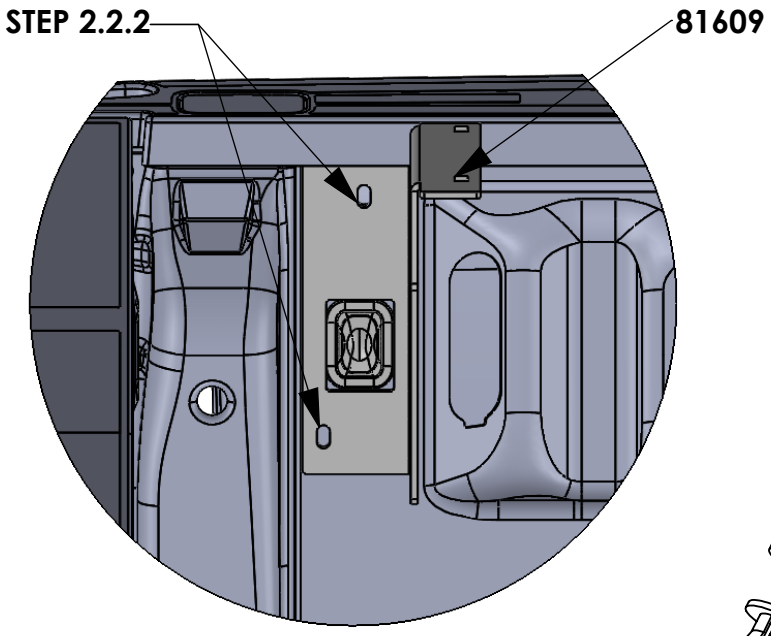
**Step 2.2.4**
**LOOSELY TIGHTEN**

**FAS0091, FAS0092, FAS0086, AND FAS0086**
**(4) PLACES**

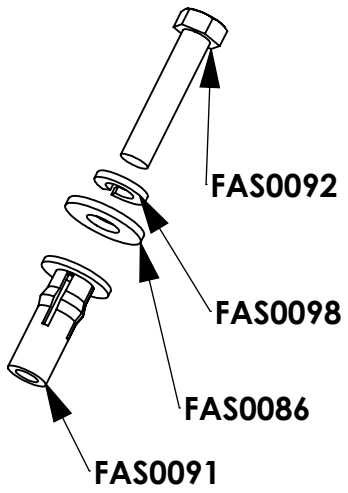
**DRIVERS SIDE**




**PASSENGER SIDE**




DETAIL AB
SCALE 1 : 5



## *STEP 2.3 - INSTALL BED SUPPORT BRACKETS*
## *THIS IS VEHICLE SPECIFIC*

# GM1500

**Step 2.3.1**
**LOCATE THE BED SUPPORT BRACKETS IN THE BRKT KIT**

**81332-B AND 81333-B FOR GM1500**

**ONLY INSTALL DS BRACKET**
**PS BRACKET WILL BE INSTALLED LATER**

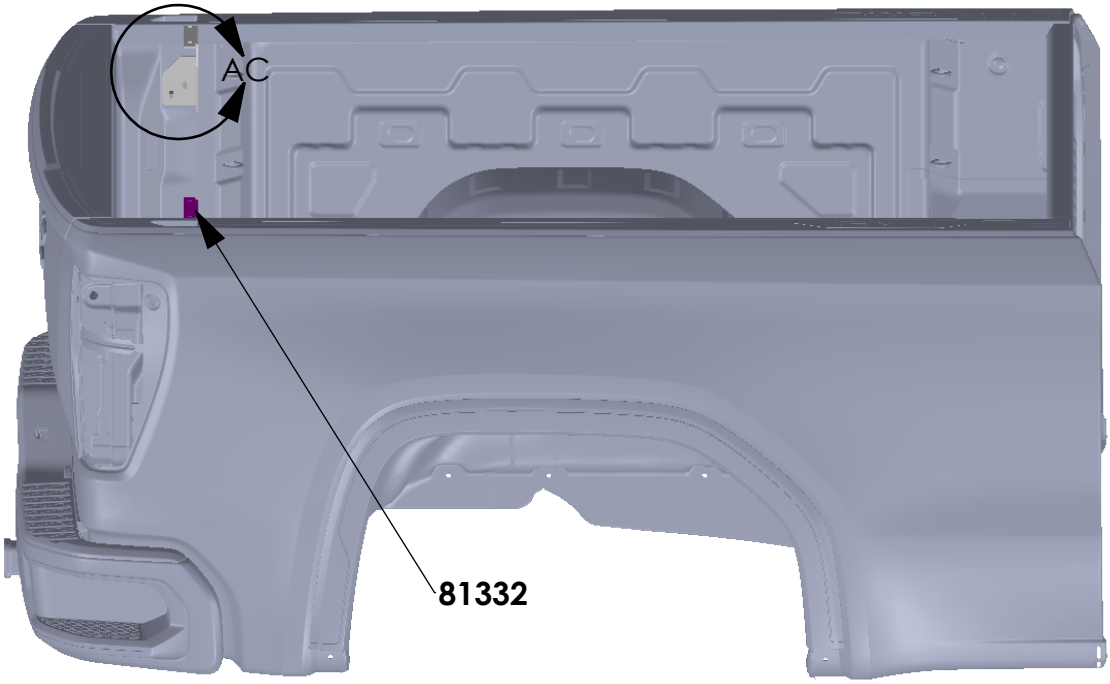
**Step 2.3.2**
**ALIGN LEFT HAND HOLE ON BED BRACKET TO HOLE IN GM1500 BED**
**MARK**
**RIGHT HAND HOLE**
**DRILL**
**OUT OEM HOLE TO .565"**
**DRILL**
**MARKED HOLE TO .565"**

**Step 2.3.3**
**SET PLUSNUTS**
**FAS0091**
**(2 PLACES)**

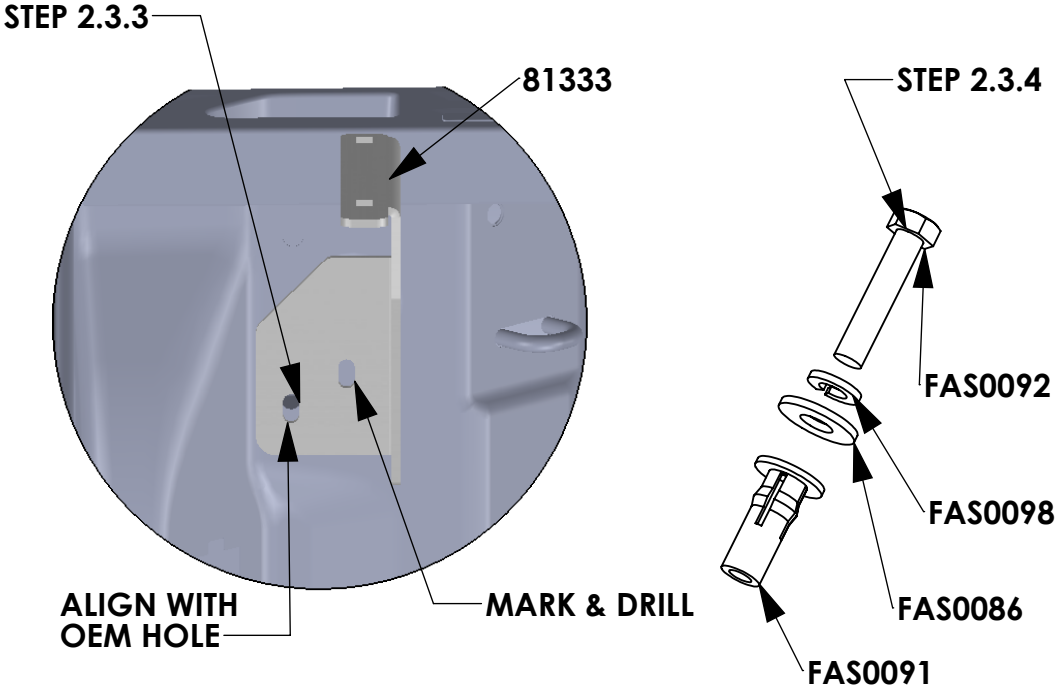
**Step 2.3.4**
**LOOSELY TIGHTEN**

**FAS0091, FAS0092, FAS0086, AND FAS0086**
**(2) PLACES**

**DRIVERS SIDE**




**PASSENGER SIDE**




DETAIL AC
SCALE 1 : 4

## *STEP 2.4 - INSTALL BED SUPPORT BRACKETS*
## *THIS IS VEHICLE SPECIFIC*

# GM2500

**Step 2.4.1**
**LOCATE THE BED SUPPORT BRACKETS IN THE BRKT KIT**

**81614-B AND 81613-B FOR GM2500**

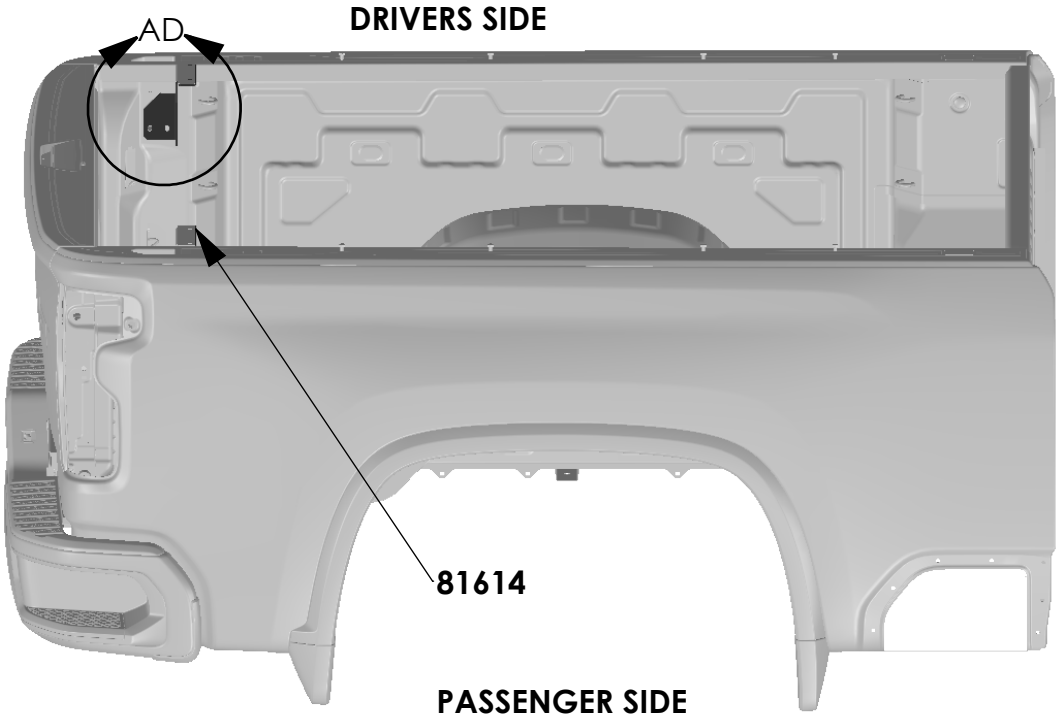
**ONLY INSTALL DS BRACKET**
**PS BRACKET WILL BE INSTALLED LATER**

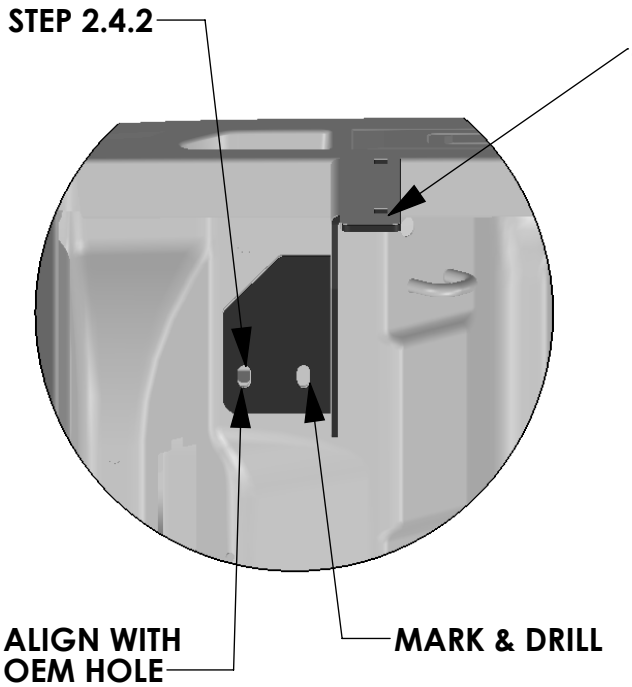
**Step 2.4.2**
**ALIGN LEFT HAND HOLE ON BED BRACKET TO HOLE IN GM2500 BED**
**MARK**
**RIGHT HAND HOLE**
**DRILL**
**OUT OEM HOLE TO .565"**
**DRILL**
**MARKED HOLE TO .565"**

**Step 2.4.3**
**SET PLUSNUTS**
**FAS0091**
**(2 PLACES)**

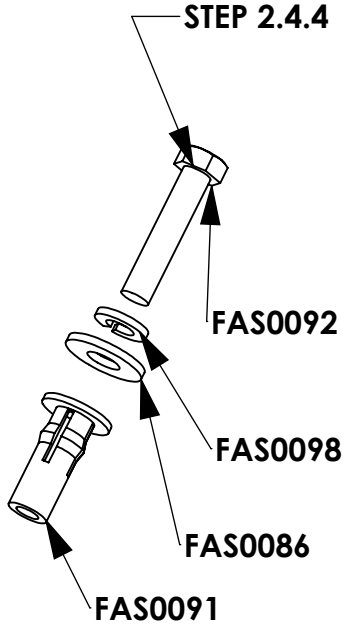
**Step 2.4.4**
**LOOSELY TIGHTEN**

**FAS0091, FAS0092, FAS0086, AND FAS0086**
**(2) PLACES**




DETAIL AD
SCALE 1 : 5



*STEP 2.5 - INSTALL BED SUPPORT BRACKETS*
*THIS IS VEHICLE SPECIFIC*

# RAM1500

**Step 2.5.1**
**LOCATE THE BED SUPPORT BRACKETS IN THE BRKT KIT**

**81330-B AND 81331-B FOR RAM1500 & RAM 2500**

**Step 2.5.2**
**ALIGN HOLE ON BED BRACKET TO HOLE IN RAM BED**

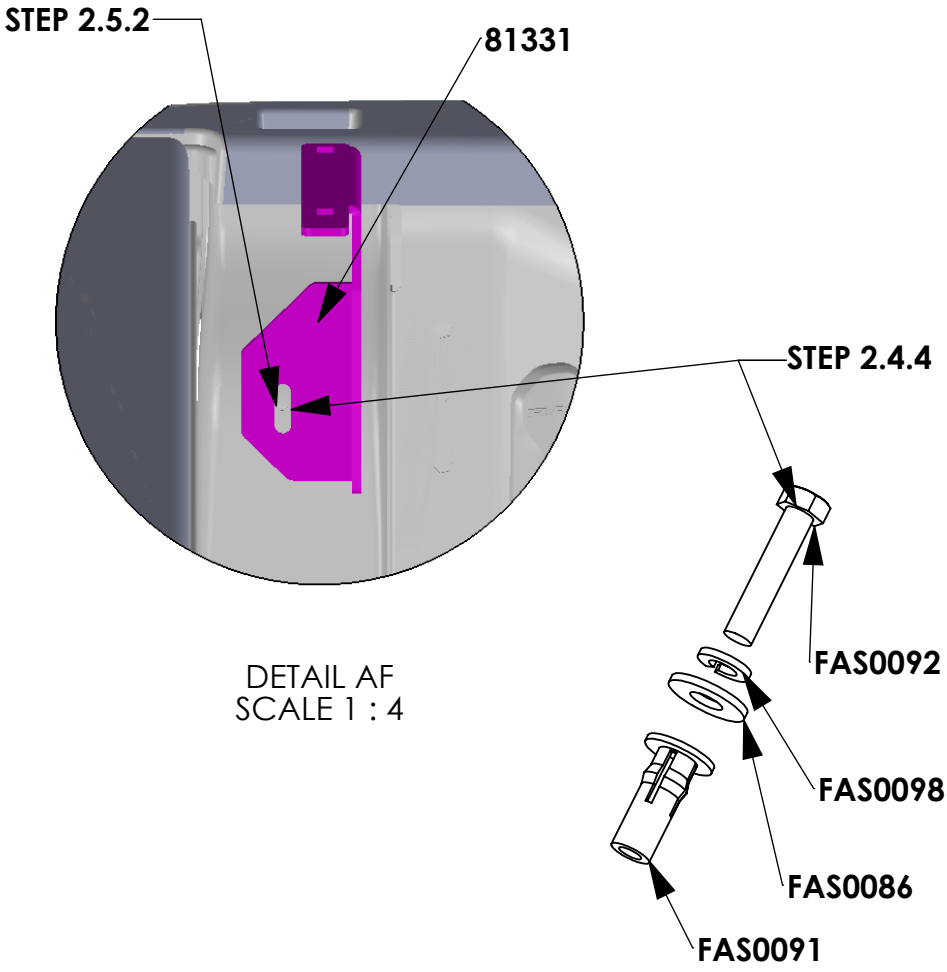
**DRILL**
**OUT OEM HOLE TO .565"**

**Step 2.5.3**
**SET PLUSNUTS**
**FAS0091**
**(2 PLACES)**

**Step 2.4.4**
**LOOSELY TIGHTEN**

**FAS0091, FAS0092, FAS0098, AND FAS0086**
**(2) PLACES**



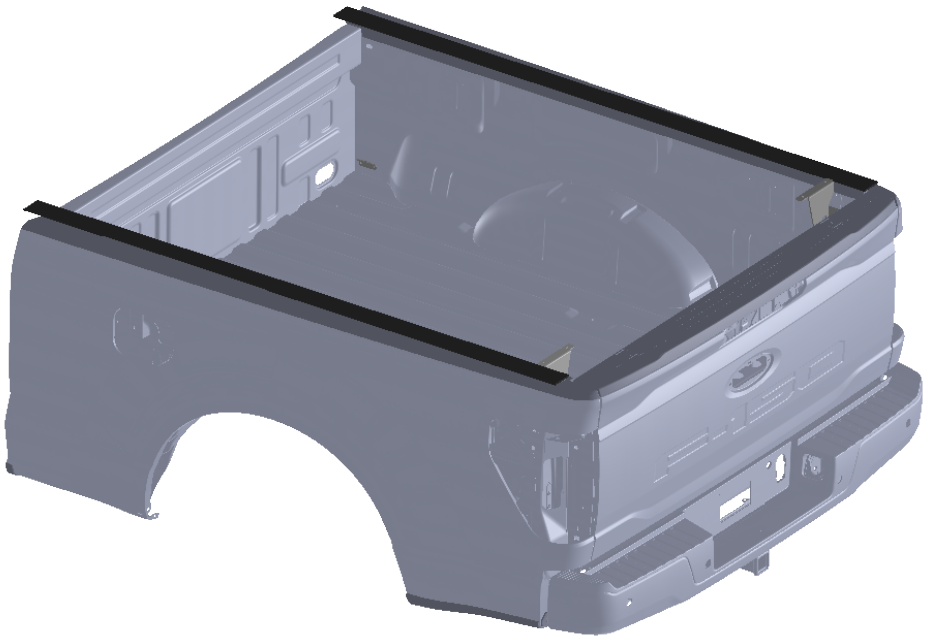




DETAIL AF
SCALE 1 : 4

# *STEP 3 - PREP BED (ALL VEHICLEES)*

**Step 3.1**
**APPLY FOAM STRIPS 73632 ON BED RAIL (1 PER SIDE)**
**START FLUSH WITH THE END OF THE CAB SIDE OF THE BED RAIL**
**DO NOT TRIM EXCESS UNTIL FULLY INSTALLED**

**F-150 BED SHOWN**



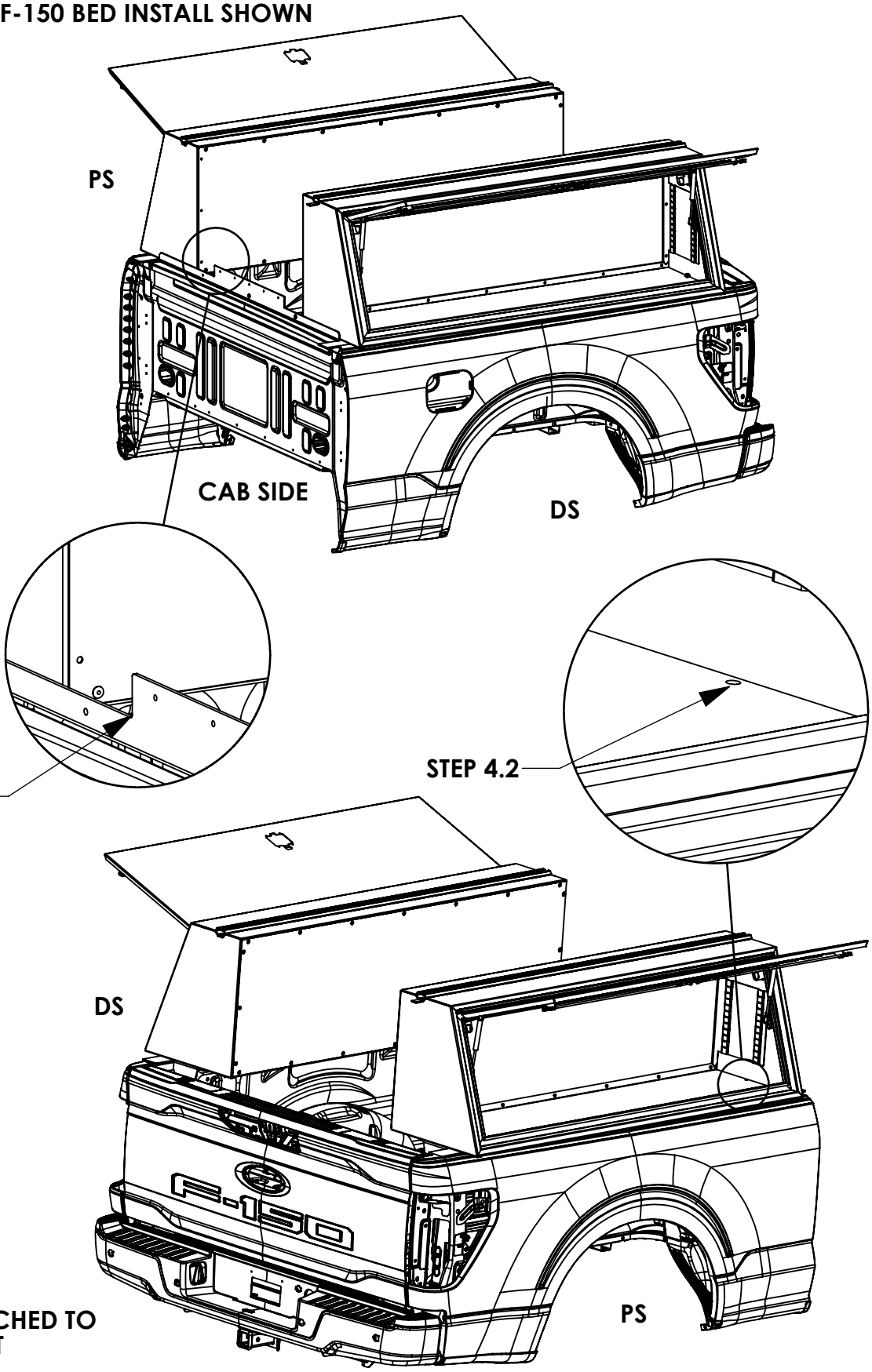
# *STEP 4 - ATTACH FRONT SUPPORT BRACKET*

**F-150 BED INSTALL SHOWN**

**Step 4.1**
**PLACE BOXES ON BED RAILS**

**Step 4.2**
**LOOSELY ASSEMBLE UNTIL AFTER STEP 7**
**FAS0398, FAS0552, FAS0248 AND FAS0688 (4 PLACES)**

**1/2 SOCKET**




**BOXES NOT ATTACHED TO BED AT THIS POINT**

# *STEP 5 - ATTACH CAB GAURD*

**Step 5.1**
**PLACE CAB GAURD IN POSITION SHOWN**
**USE PRY BAR IF NECESSARY**

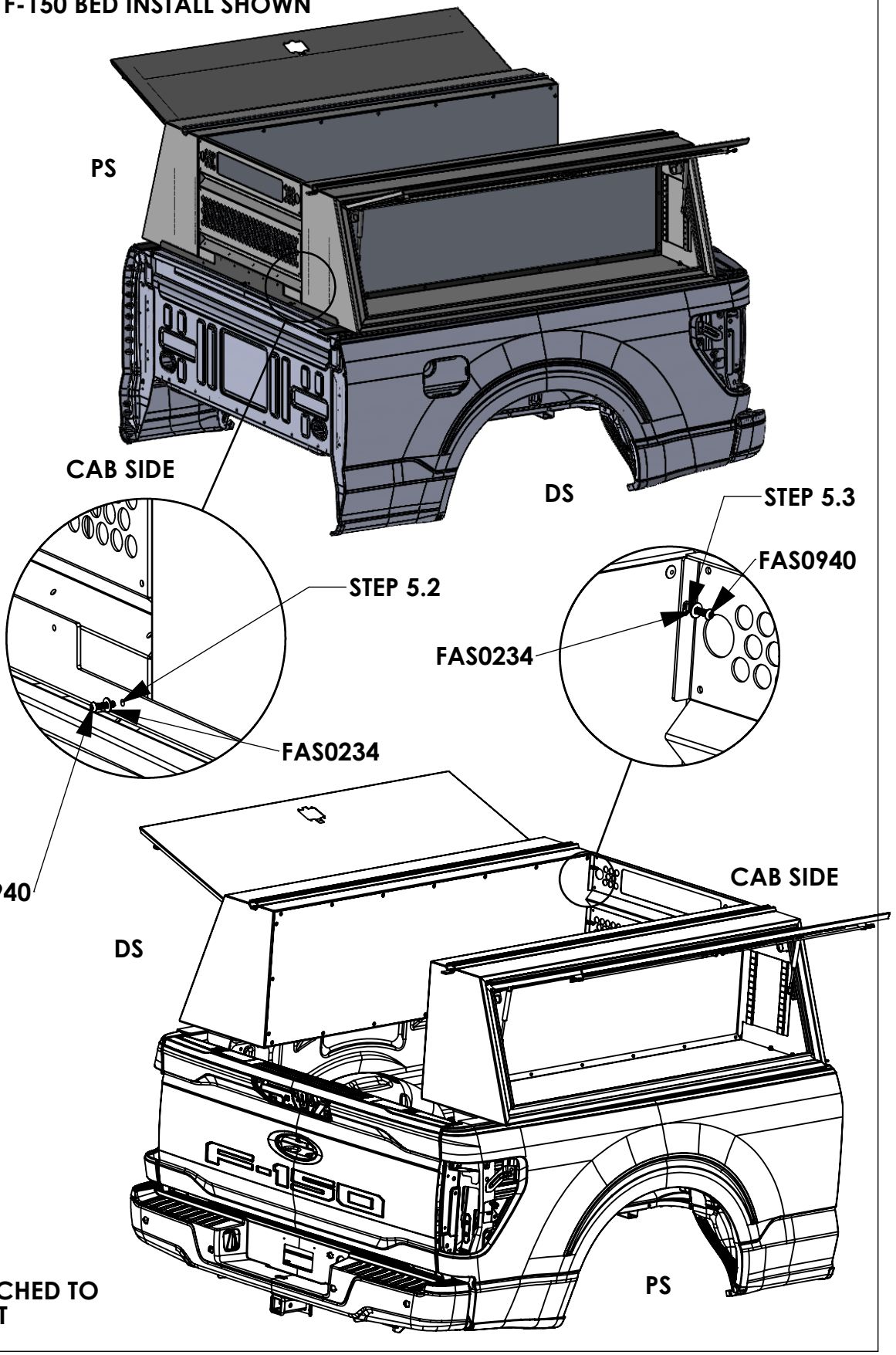
**Step 5.2**
**ATTACH TO FRONT BED SUPPORT**
**<u>FULLY TIGHTEN</u>**
**FAS0055, FAS0234 AND FAS0940**
**(3 PLACES)**

**T27 TORX**
**7/16 WRENCH**

**Step 5.3**
**ATTACH TO BOXES**
**<u>FULLY TIGHTEN</u>**
**FAS0055, FAS0234 AND FAS0940**
**(6 PLACES)**

**T27 TORX**
**7/16 WRENCH**

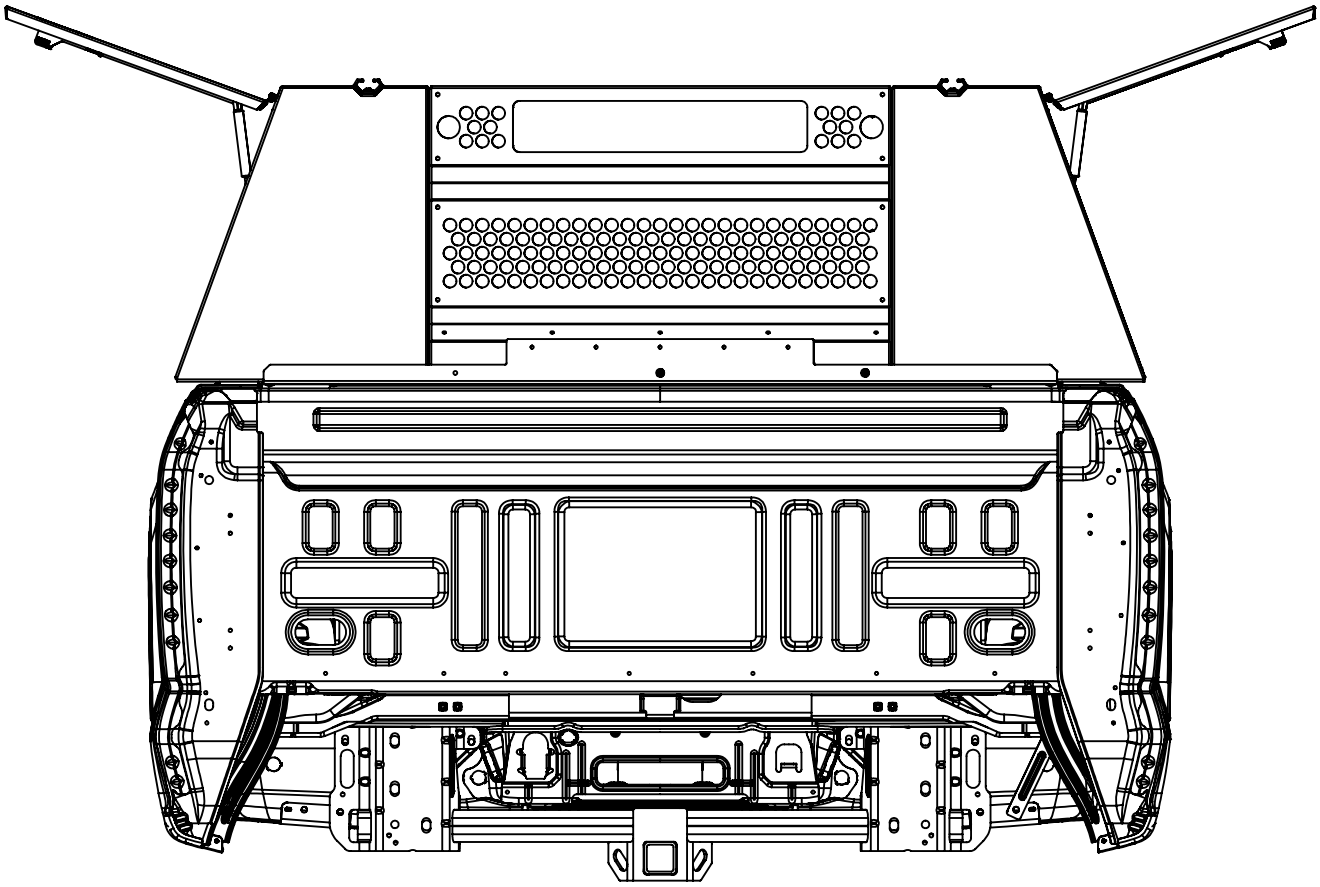
**F-150 BED INSTALL SHOWN**




**BOXES NOT ATTACHED TO BED AT THIS POINT**

# CHECK THAT THE BOXES ARE CENTERED ON THE VEHICLE

## STEP 4 - MEASURE DISTANCE FROM BED RAIL AT CAB SIDE AND ENSURE BOTH SIDES ARE EQUAL



# *STEP 7 - ATTACH CAB GAURD*

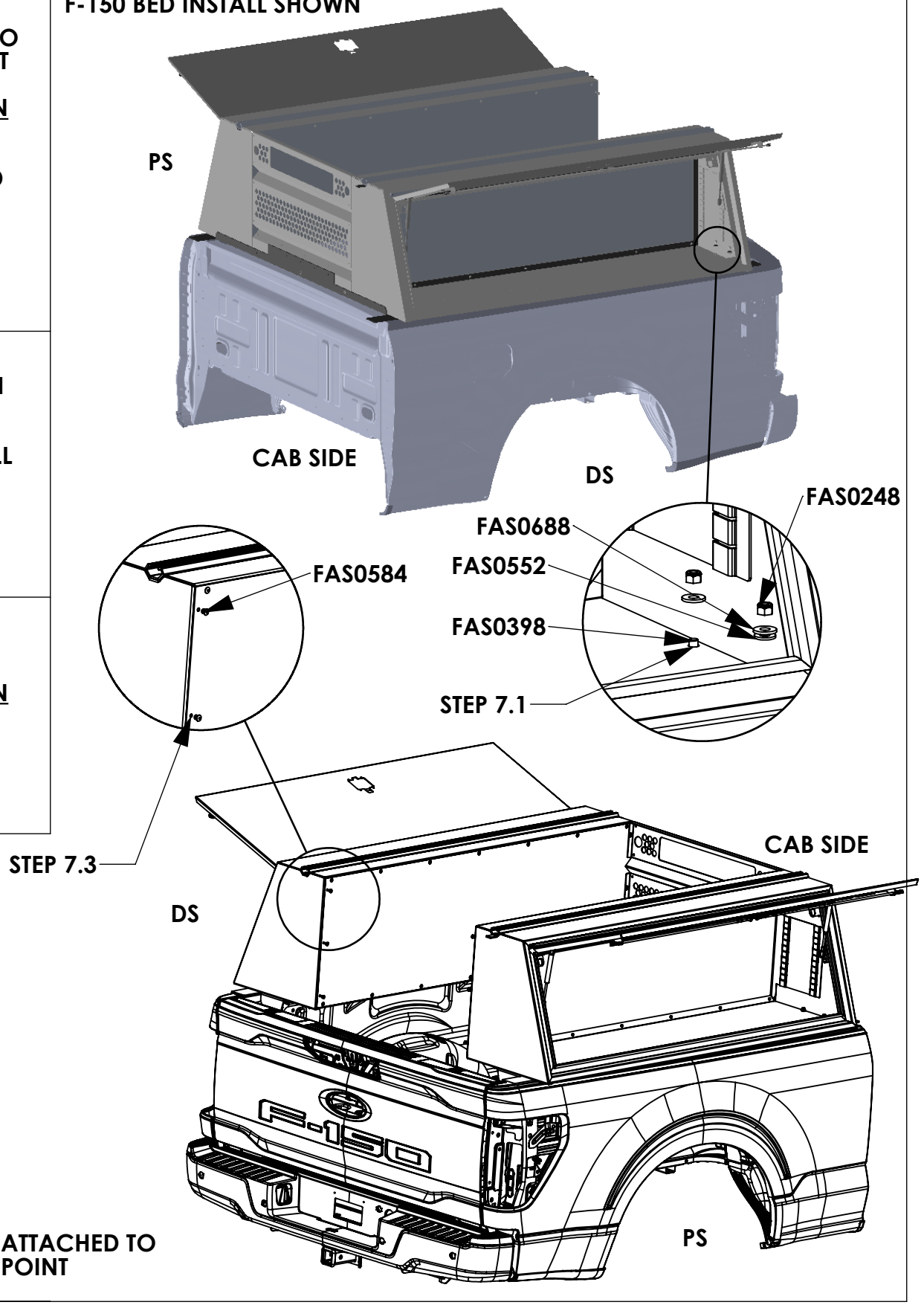
**Step 7.1**
**BOLT BOXES TO REAR SUPPORT BRACKETS**
**<u>FULLY TIGHTEN</u>**
**FAS0248**
**FAS0552**
**FAS0688 AMD**
**FAS0398**
**(4) PLACES**
**9/16 SOCKET**

**Step 7.2**
**FULLY TIGHTEN FASTENERS FROM STEP 2 AND REINSTALL TAILIGHT IF NECESSARY**

**Step 7.3**
**RIVET BACK PANEL**
**<u>FULLY TIGHTEN</u>**
**FAS0584**
**(6 PLACES)**

**RIVET GUN**

**F-150 BED INSTALL SHOWN**




**BOXES NOT ATTACHED TO BED AT THIS POINT**

# *STEP 8 - DRILL BED RAIL MOUNTING HOLES AND INSTALL FASTENERS*

**Step 8.1**
**IDENTIRY THE CORRECT DRILL JIG**
**IF YOU DO NOT HAVE A DRILL JIG YOU WILL NEED TO ENSURE A SAFE PLACE TO DRILL**

**Step 8.2**
**PLACE JIG IN BOX AS SHOWN FOR DS**

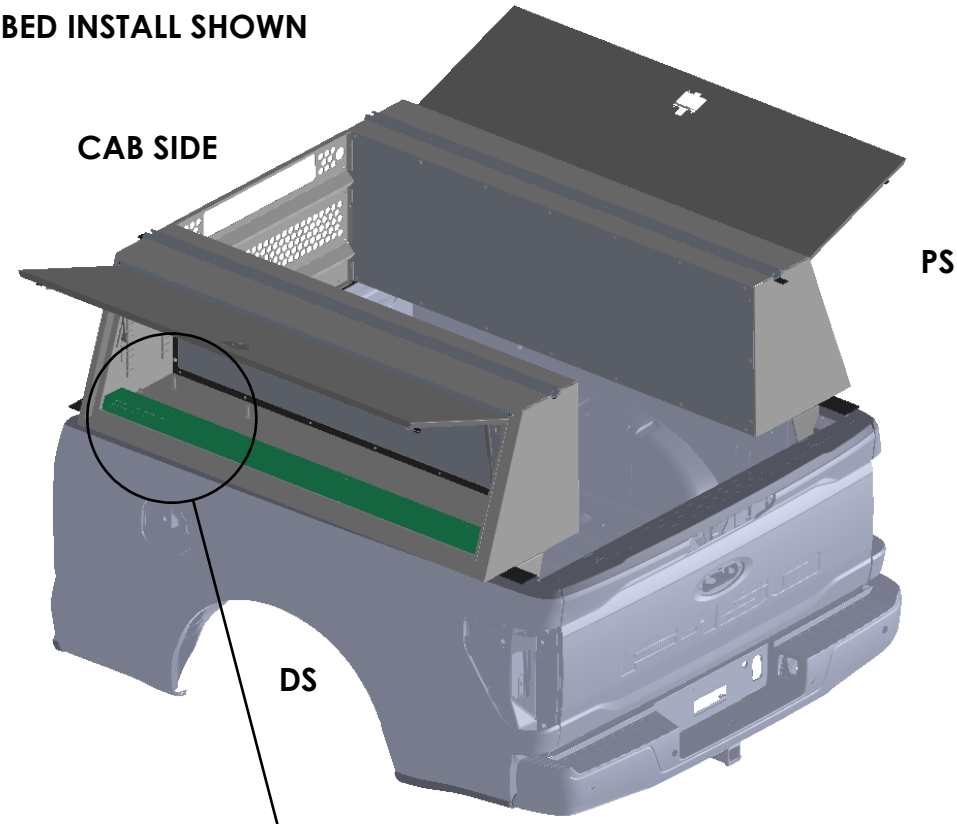
**FLIP FOR PS**

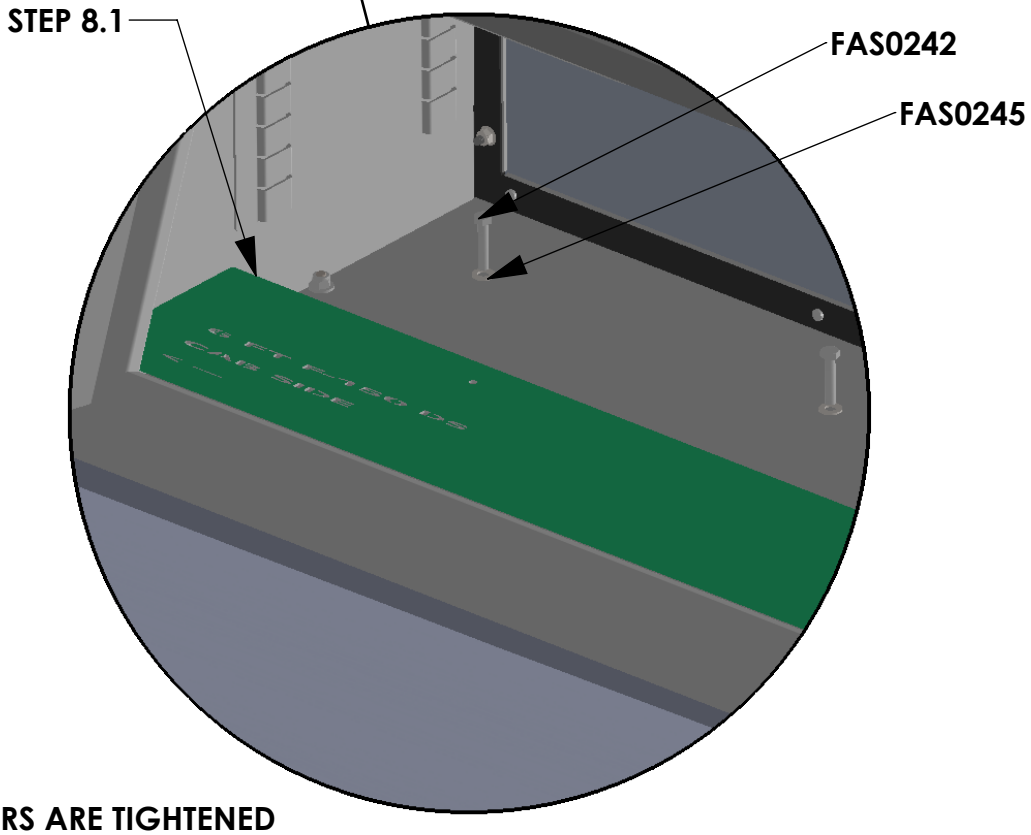
**MARK HOLES WITH PEN AND DRILL USING A STEP BIT OR 3/8" DRILL BIT**

**Step 8.3**
**INSTALL BED RAIL FASTENERS FULLY TIGHTEN FAS0242 FAS0245(2), AND FAS0254**

**(8) PLACES**

**F-150 BED INSTALL SHOWN**



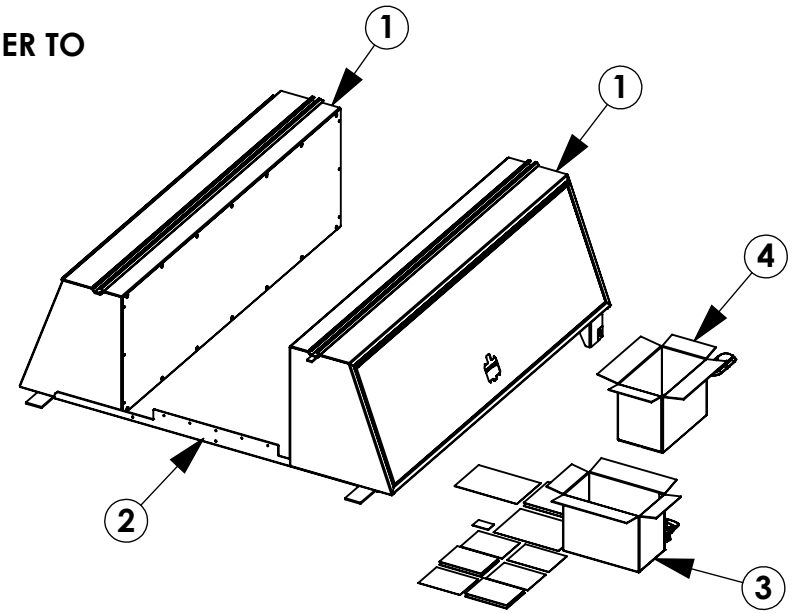

**ENSURE ALL FASTENERS ARE TIGHTENED**
**INSTALL IS COMPLETE**

| INSTR. NUMBER : 83171 | PG: 1 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

TSBX-6F1E-NG

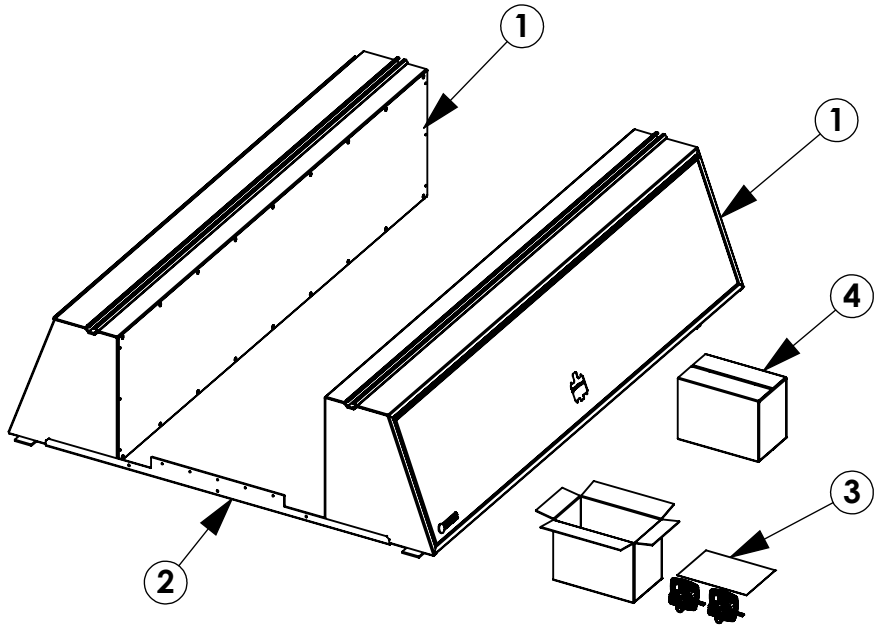
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6F1 | TSBX FORD F-150 6' CAB GUARD/BED BRKT KIT | 1 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

**NOTE:**
**FOR KITS WITH CAB GUARD REFER TO**
**81821 FOR 6' BEDS &**
**80397 FOR 8' BEDS**




TSBX-8F1E-NG

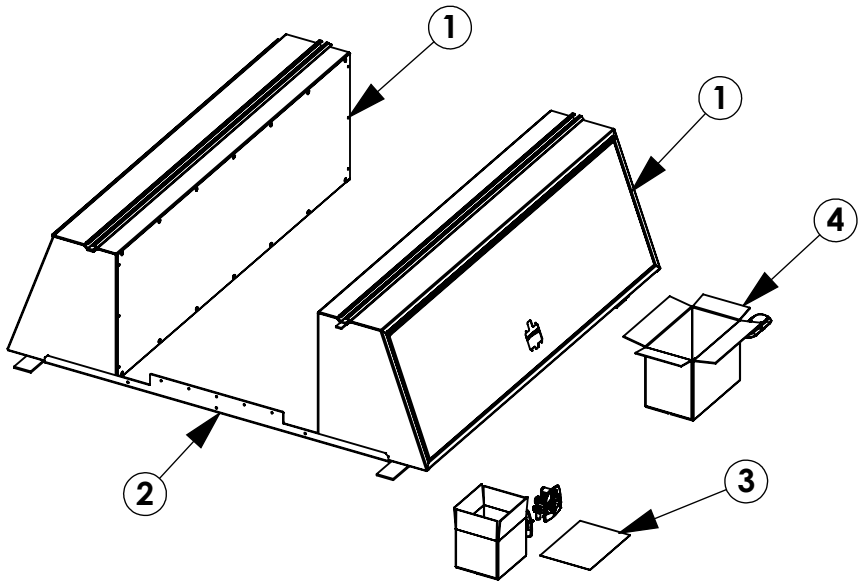
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BOX8 | TOP SIDE BOX, 8' ASSEMBLY | 2 |
| 2 | TS-BKF2 | TSB FORD 8' BED BRKT KIT | 1 |
| 3 | 81244 | KIT,TOPSIDER,8FT,ELOCK W/LIGHTING | 1 |
| 4 | 81248 | KIT, TAILGATE CHMSL | 1 |



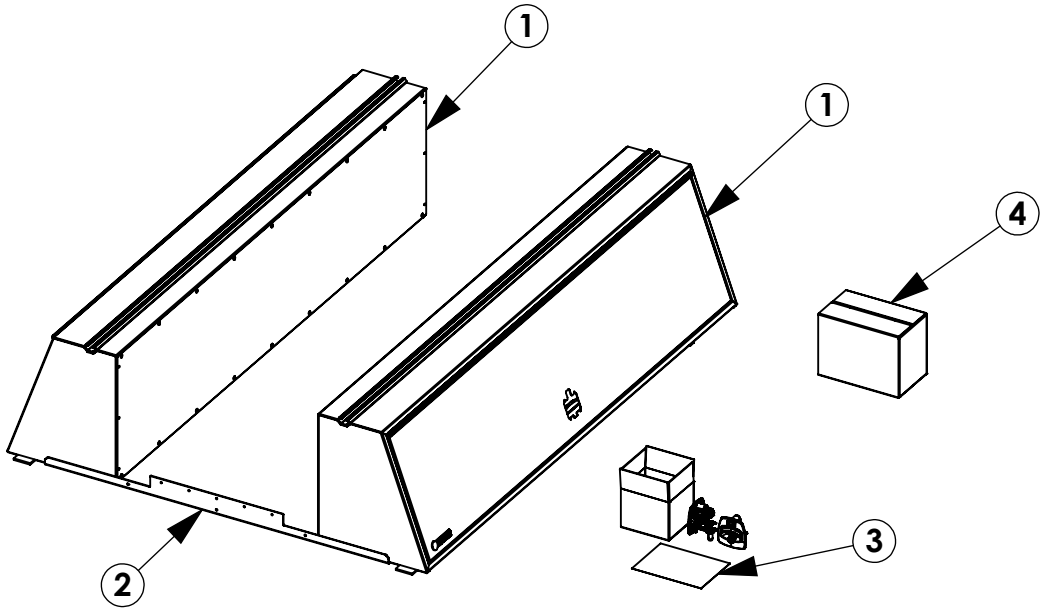

**TOOLS NEEDED:**
- **1/2 SOCKET**
- **1/2 WRENCH**
- **RIVET GUN**
- **STEP BIT**
- **DRILL**
- **3/8" DRILL BIT**
- **1/2" DRILL BIT**
- **9/16" WRENCH**
- **9/16" SOCKET**

| INSTR. NUMBER : 83171 | PG: 2 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

| TSBX-6F1M-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6F1 | TSBX FORD F-150 6' CAB GUARD/BED BRKT KIT | 1 |
| 3 | TMLHK2 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

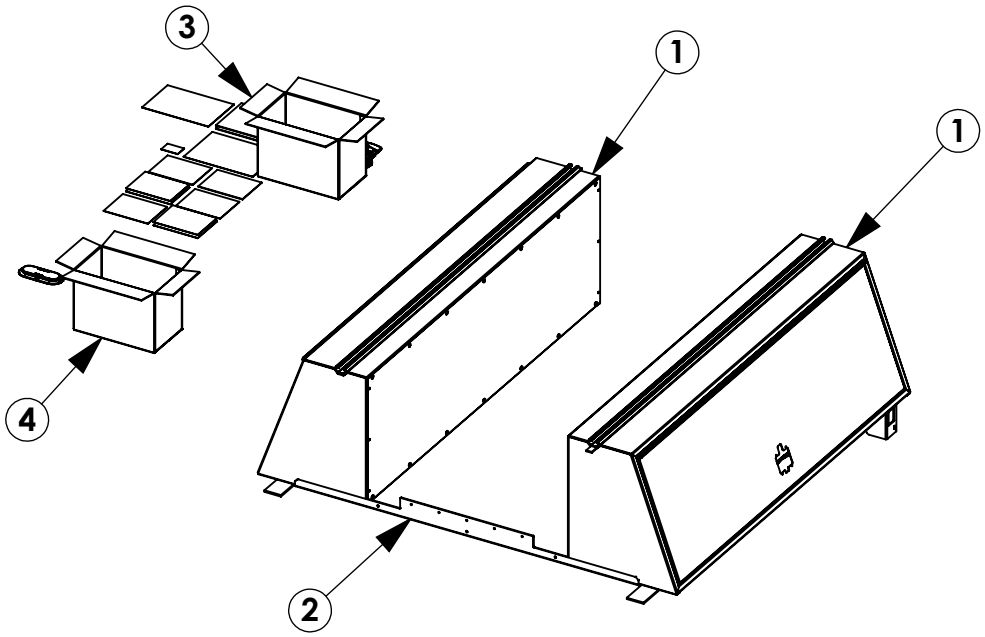



| TSBX-8F1M-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX8 | TOP SIDE BOX, 8' ASSEMBLY | 2 |
| 2 | TS-BKF2 | TSB FORD 8' BED BRKT KIT | 1 |
| 3 | TMLHK2 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | KIT, TAILGATE CHMSL | 1 |

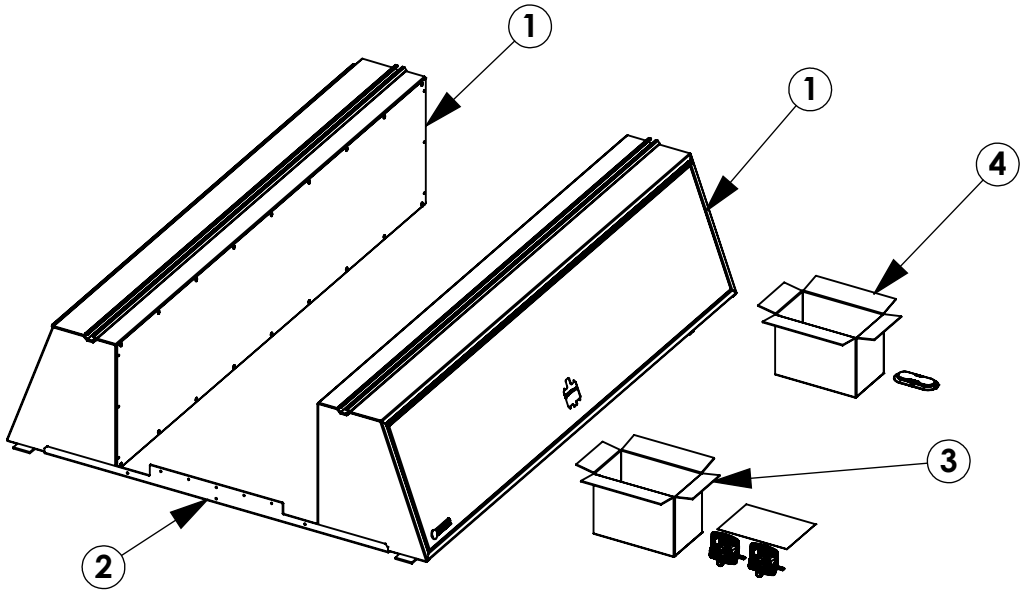


| INSTR. NUMBER : 83171 | PG: 3 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

| TSBX-6F2E-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6F2 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

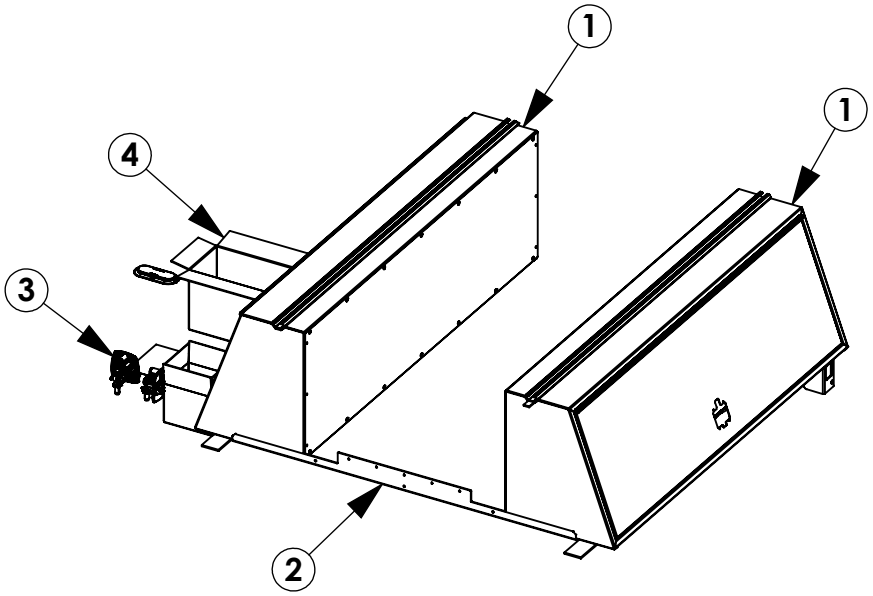



| TSBX-8F2E-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX8 | TOP SIDE BOX, 8' ASSEMBLY | 2 |
| 2 | TS-BKF2 | TSB FORD 8' BED BRKT KIT | 1 |
| 3 | 81244 | KIT,TOPSIDER,8FT,ELOCK W/LIGHTING | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

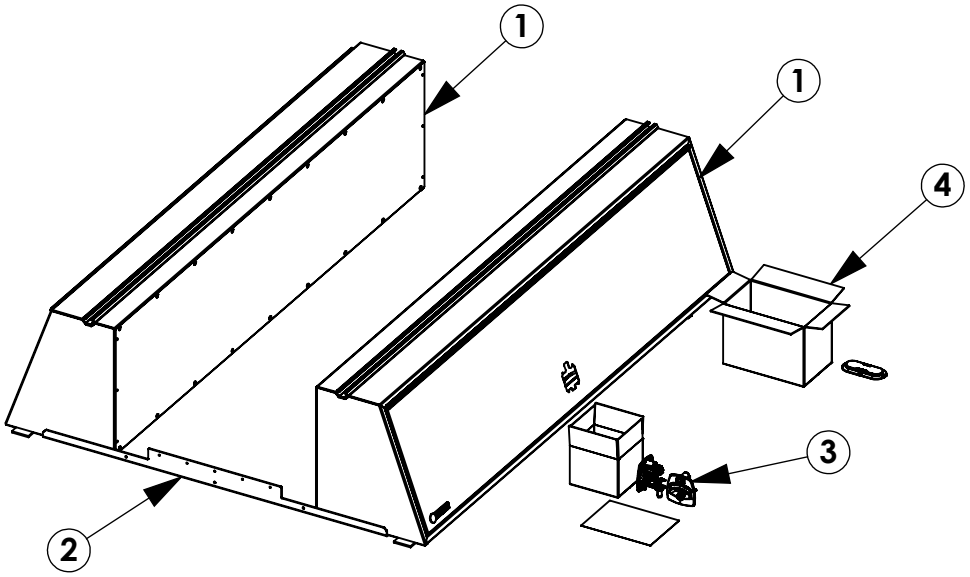


| INSTR. NUMBER : 83171 | PG: 4 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

| TSBX-6F2M-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6F2 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 3 | TMLHK2 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

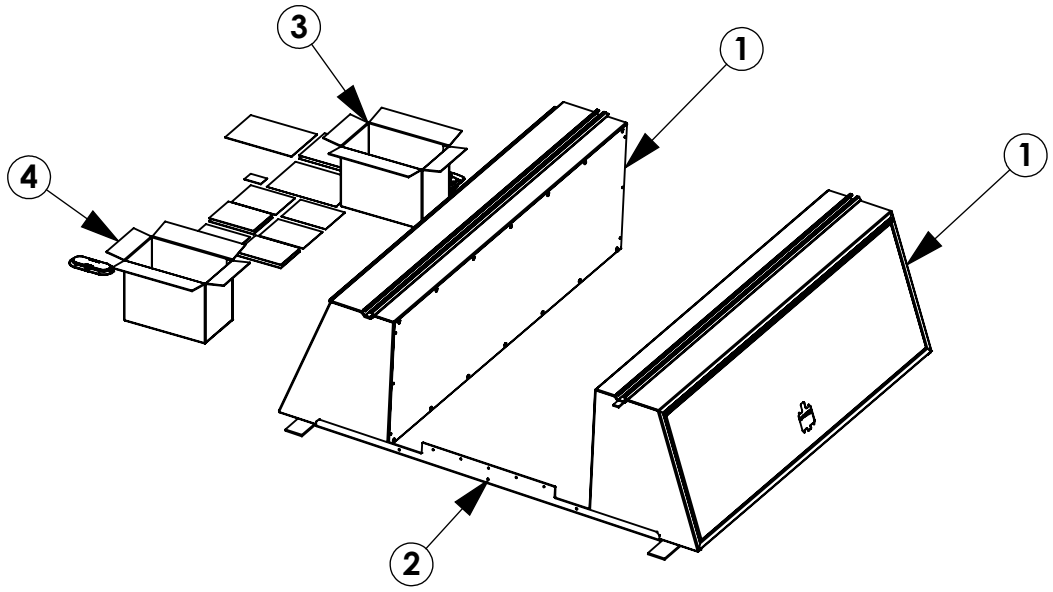



| TSBX-8F2M-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX8 | TOP SIDE BOX, 8' ASSEMBLY | 2 |
| 2 | TS-BKF2 | TSB FORD 8' BED BRKT KIT | 1 |
| 3 | TMLHK2 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

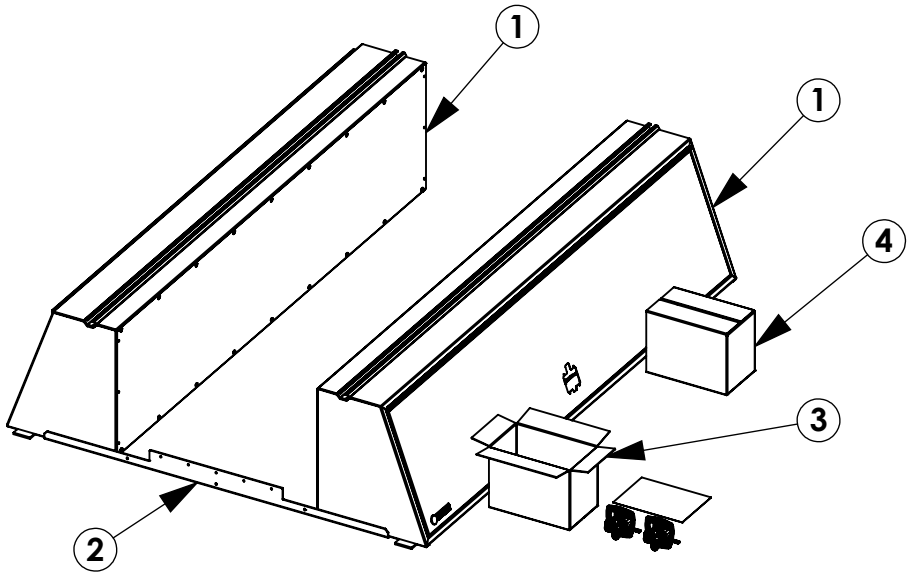


| INSTR. NUMBER : 83171 | PG: 5 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

| TSBX-6G1E-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6G1 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

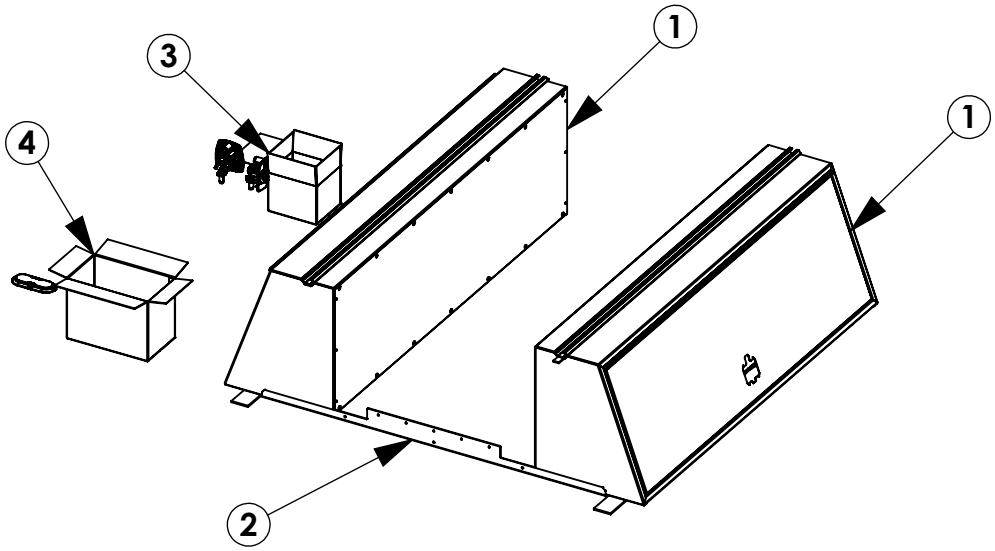



| TSBX-8G1E-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX8 | TOP SIDE BOX, 8' ASSEMBLY | 2 |
| 2 | TS-BKG2 | TSBX, GM 8' BED BRKT KIT | 1 |
| 3 | 81244 | KIT,TOPSIDER,8FT,ELOCK W/LIGHTING | 1 |
| 4 | 81248 | KIT, TAILGATE CHMSL | 1 |

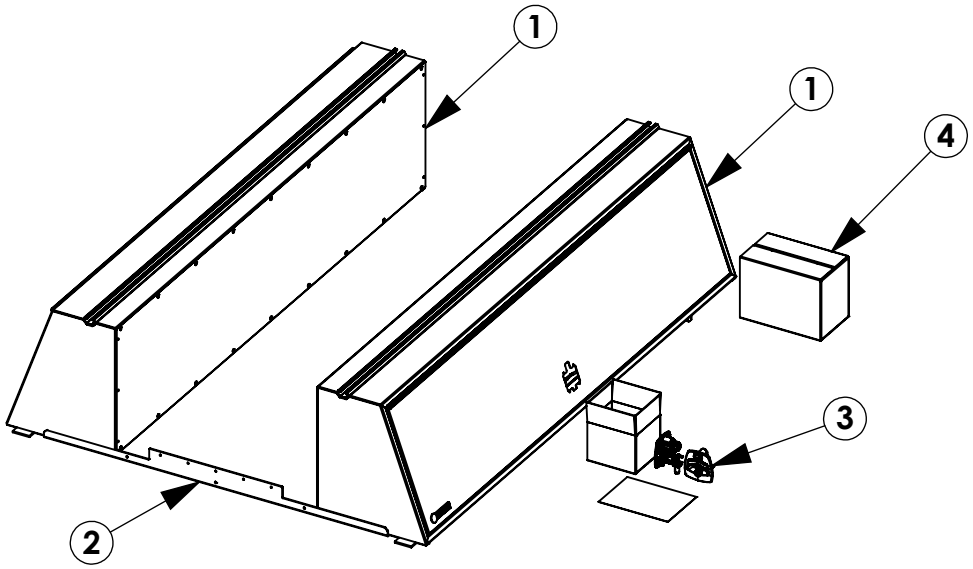


| INSTR. NUMBER : 83171 | PG: 6 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

| TSBX-6G1M-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6G1 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 3 | TMLHK2 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

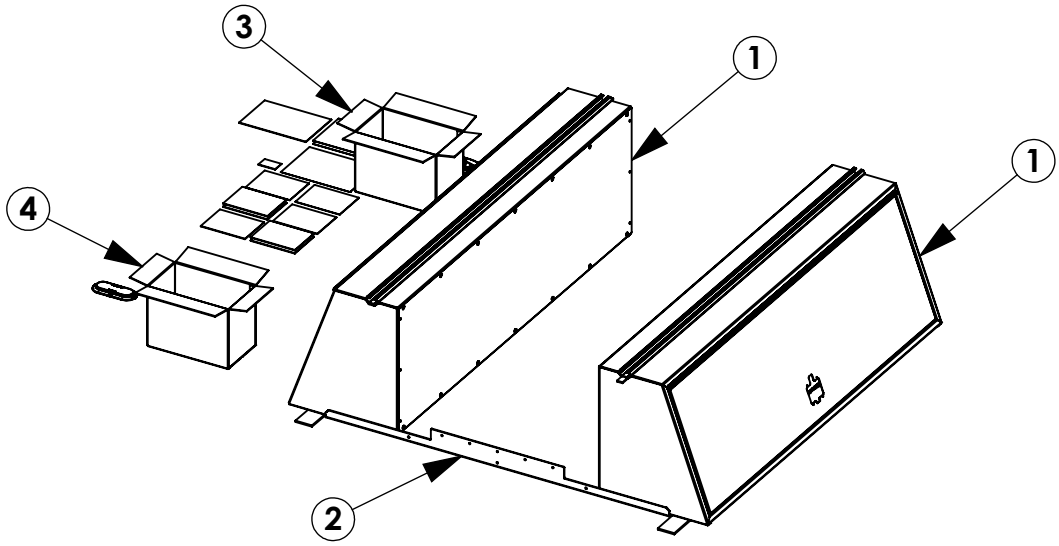



| TSBX-8G1M-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX8 | TOP SIDE BOX, 8' ASSEMBLY | 2 |
| 2 | TS-BKG2 | TSBX, GM 8' BED BRKT KIT | 1 |
| 3 | TMLHK2 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | KIT, TAILGATE CHMSL | 1 |

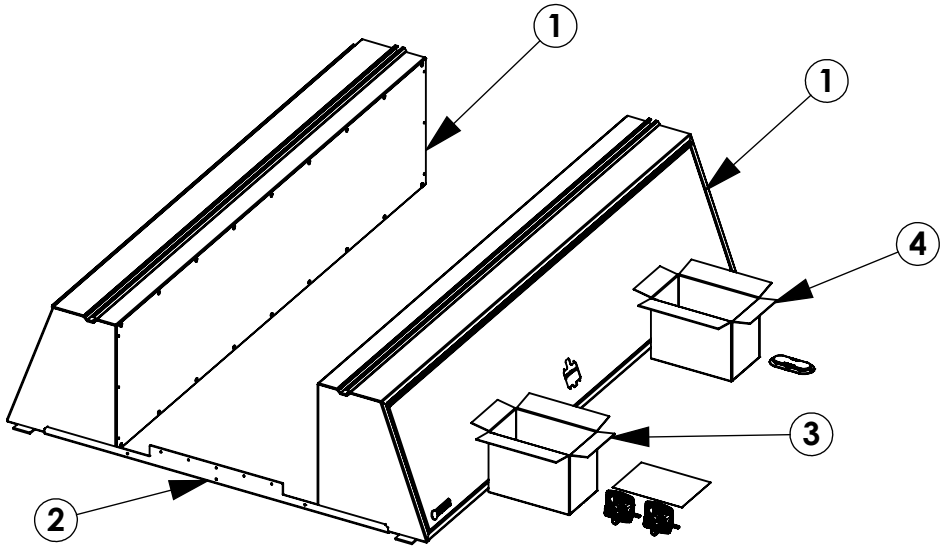


| INSTR. NUMBER : 83171 | PG: 7 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

| TSBX-6G2E-NE | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6G2 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |



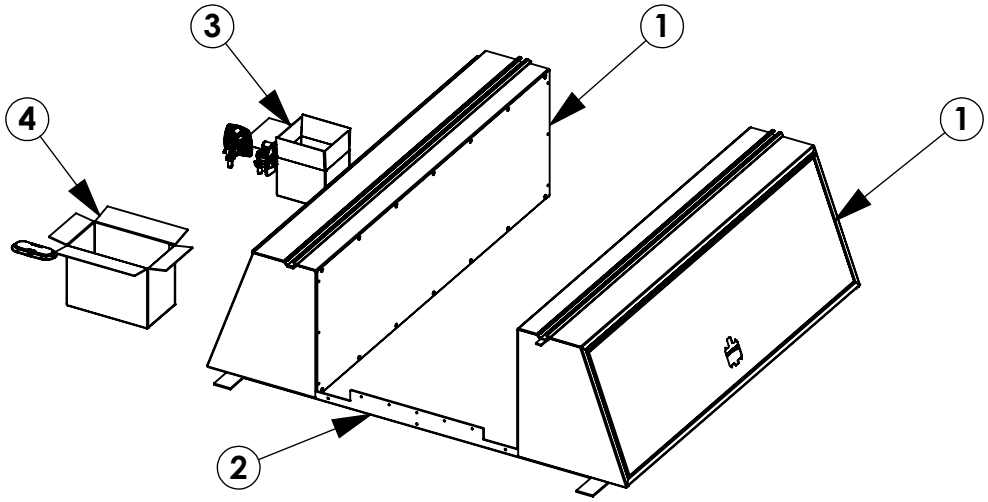

| TSBX-8G2E-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX8 | TOP SIDE BOX, 8' ASSEMBLY | 2 |
| 2 | TS-BKG2 | TSBX, GM 8' BED BRKT KIT | 1 |
| 3 | 81244 | KIT,TOPSIDER,8FT,ELOCK W/LIGHTING | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |



| INSTR. NUMBER : 83171 | PG: 8 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

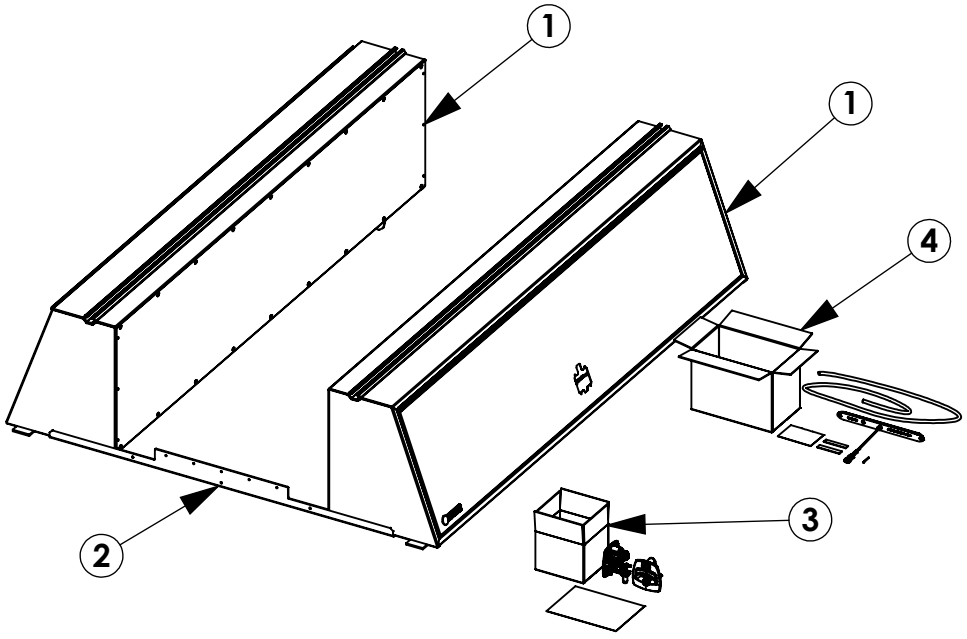
TSBX-6G2M-NG

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6G2 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 3 | TMLHK2 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |



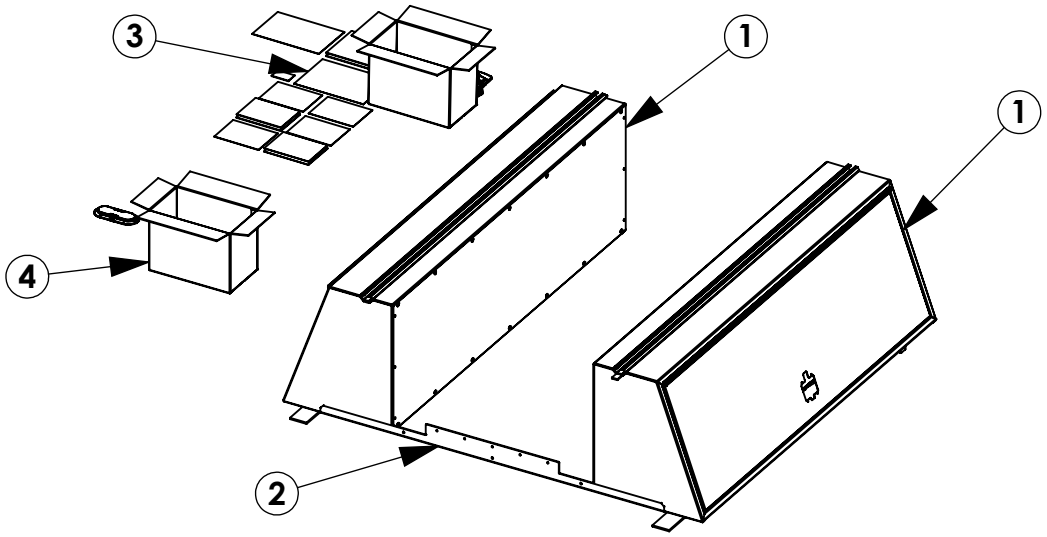

TSBX-8G2M-NG

| 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 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | KIT, TAILGATE CHMSL | 1 |

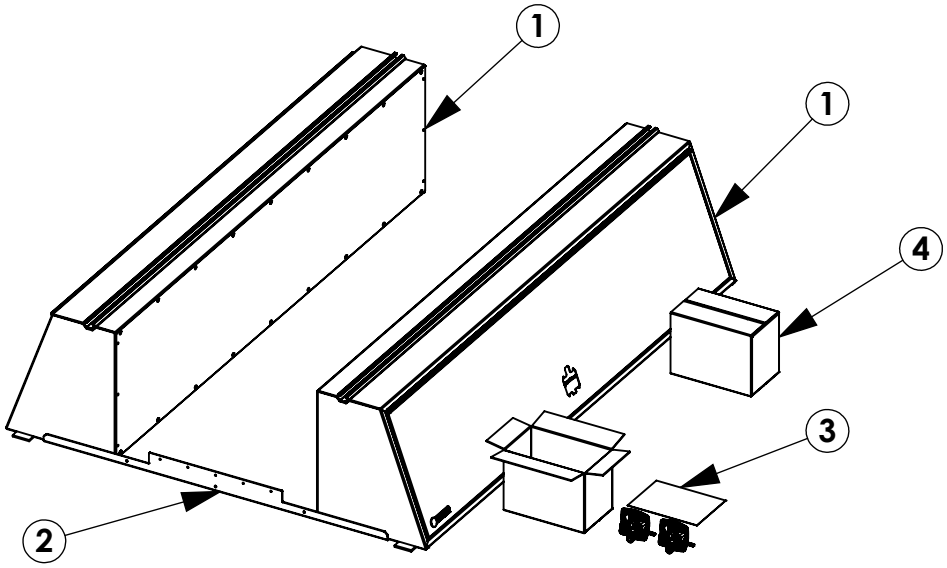


| INSTR. NUMBER : 83171 | PG: 9 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

| TSBX-6R1E-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6R1 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 3 | 81246 | KIT,TOPSIDER,6FT,FULL | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

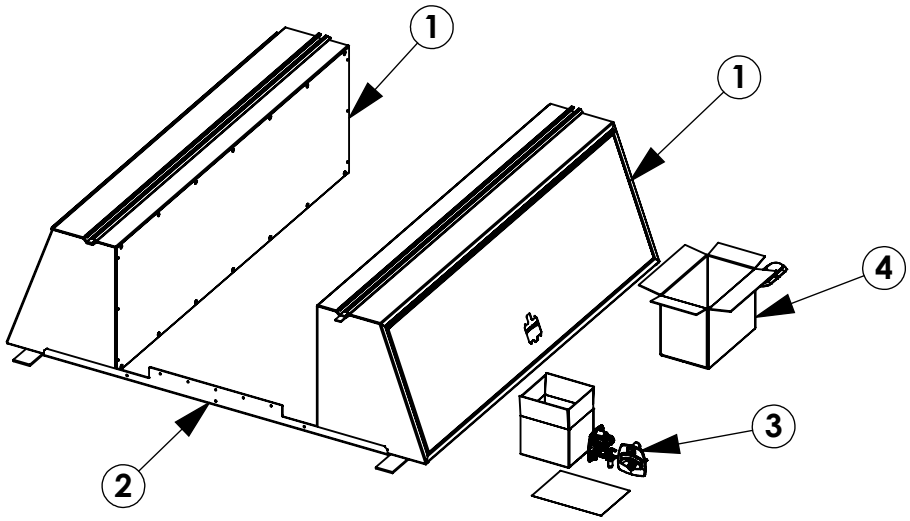



| TSBX-8R1E-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX8 | TOP SIDE BOX, 8' ASSEMBLY | 2 |
| 2 | TS-BKR2 | TSBX, RAM 8' BED BRKT KIT | 1 |
| 3 | 81244 | KIT,TOPSIDER,8FT,ELOCK W/LIGHTING | 1 |
| 4 | 81248 | KIT, TAILGATE CHMSL | 1 |

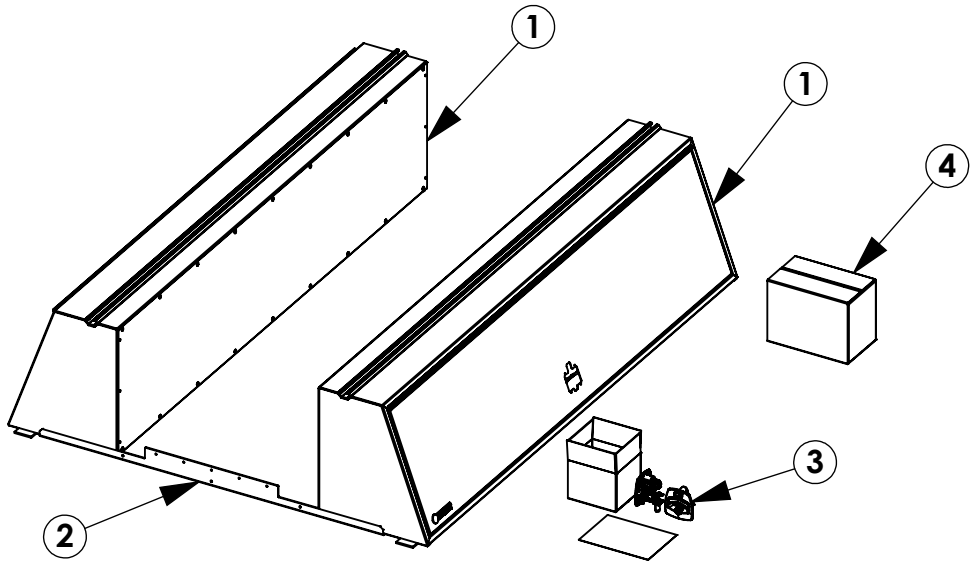


| INSTR. NUMBER : 83171 | PG: 10 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

| TSBX-6R1M-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX6 | TOP SIDE BOX, 6' ASSEMBLY | 2 |
| 2 | TS-BK6R1 | TSBX, RAM 6' CAB BRK KIT | 1 |
| 3 | TMLHK2 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |

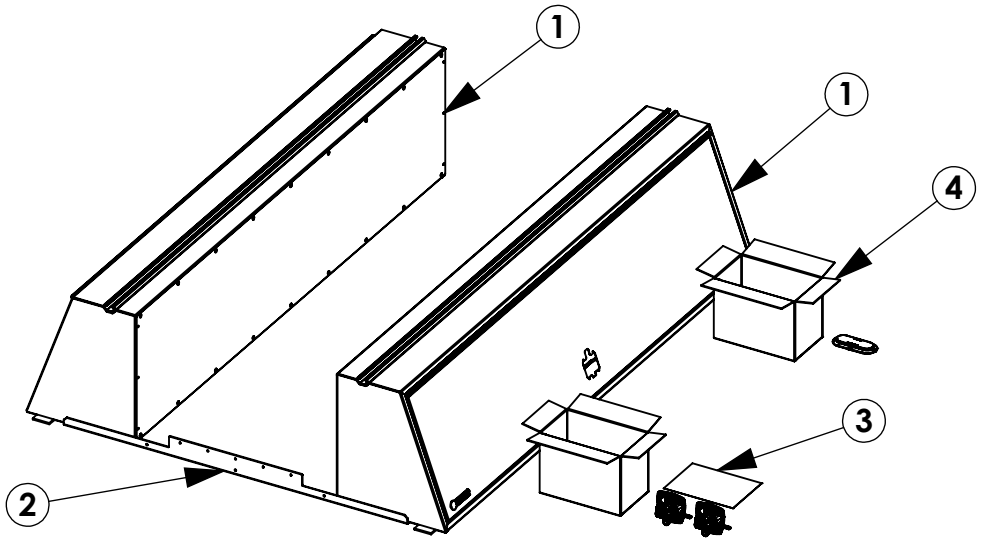



| TSBX-8R1M-NG | | | |
|---|---|---|---|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | TS-BOX8 | TOP SIDE BOX, 8' ASSEMBLY | 2 |
| 2 | TS-BKR2 | TSBX, RAM 8' BED BRKT KIT | 1 |
| 3 | TMLHK2 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | KIT, TAILGATE CHMSL | 1 |

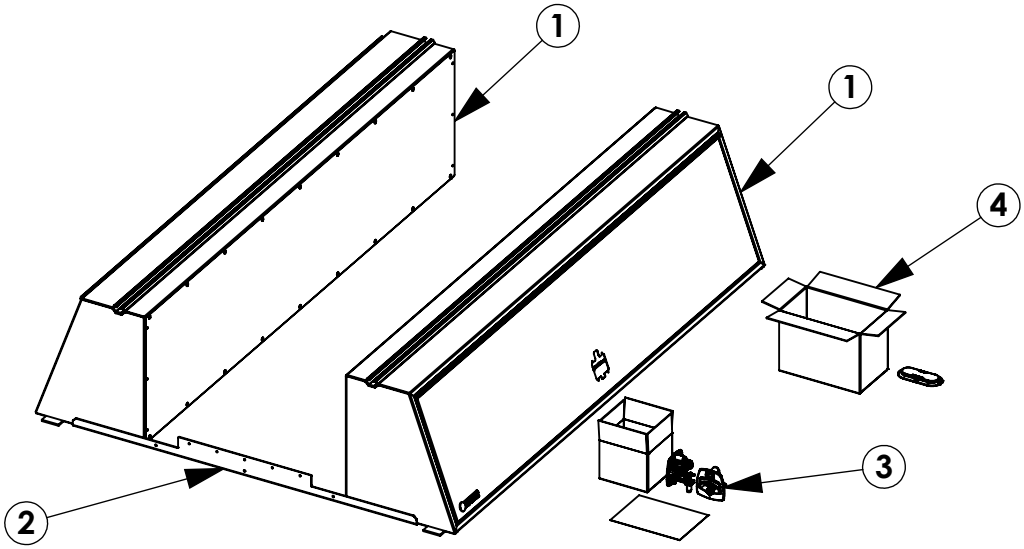


| INSTR. NUMBER : 83171 | PG: 11 | REV: A |
|---|---|---|
| PART NUMBER : SEE BOM | | |
| PART DESC. : TSBX KIT WITHOUT GUARD | | |

| TSBX-8R2E-NG | | | |
|---|---|---|---|
| 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 | CHMSL KIT TSBX | 1 |




| TSBX-8R2M-NG | | | |
|---|---|---|---|
| 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 | TSBX MECHANICAL LOCK HATCH KIT | 1 |
| 4 | 81248 | CHMSL KIT TSBX | 1 |



# *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.

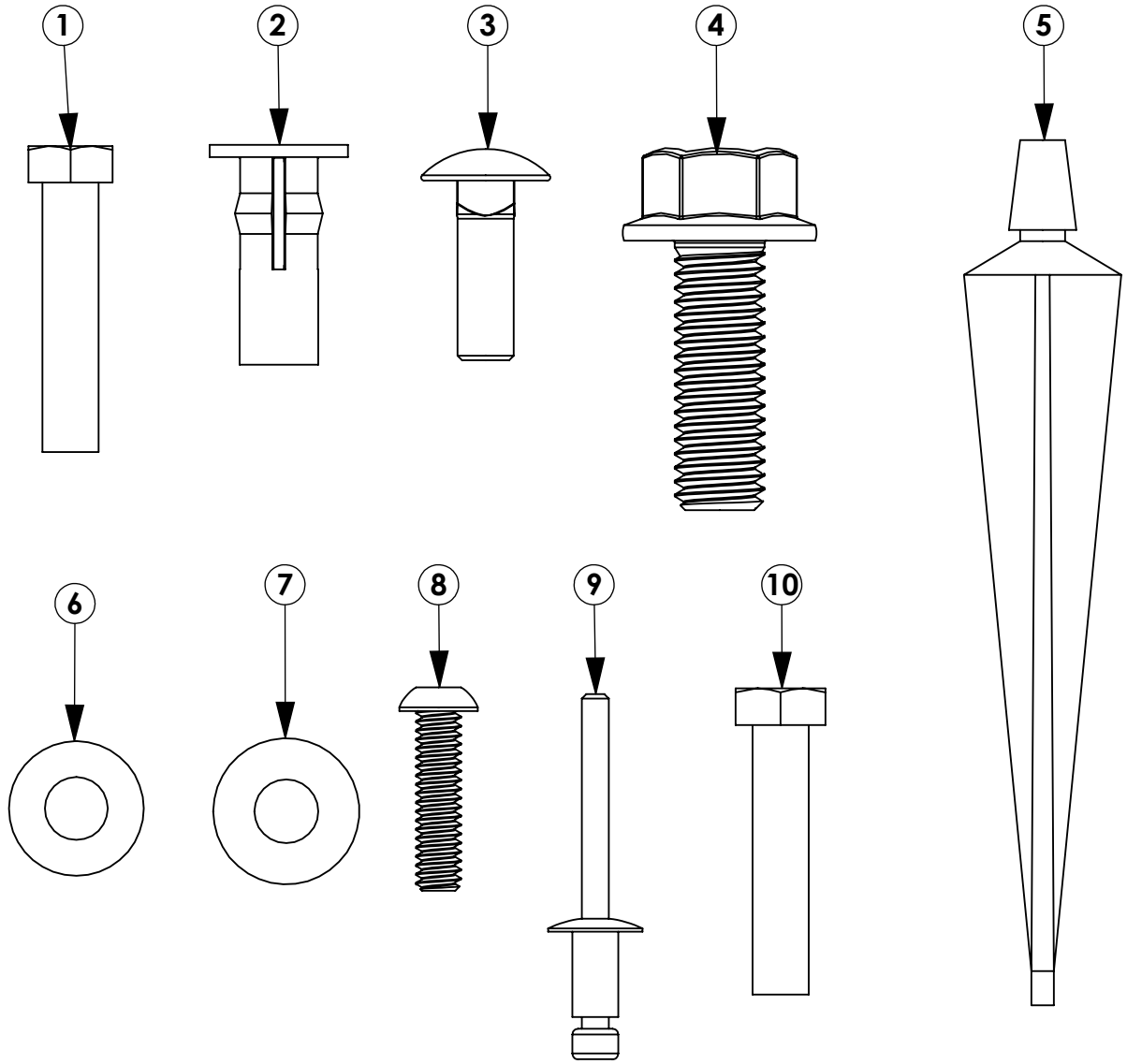
**BEST PRACTICE: ORGANIZE ALL FASTENERS & VERIFY THAT ALL ARE ACCOUNTED FOR**



## *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 | FAS0552 | WASHER, FLAT, 5/16, SST | 8 |
| 7 | FAS0688 | EPDM WASHER | 8 |
| 8 | FAS0940 | SCREW, BHTX 1/4-20X1 SS NP | 9 |
| 9 | FAS0584 UNCRIMPED | RIVET, BLIND, DOMEHEAD, 1/4 X .25 GRIP | 12 |
| 10 | FAS0242 | SCREW, HEX HD, 5/16-18X1.50 STAINLESS STEEL | 10 |




**CONTINUE ON NEXT FASTENER PAGE**

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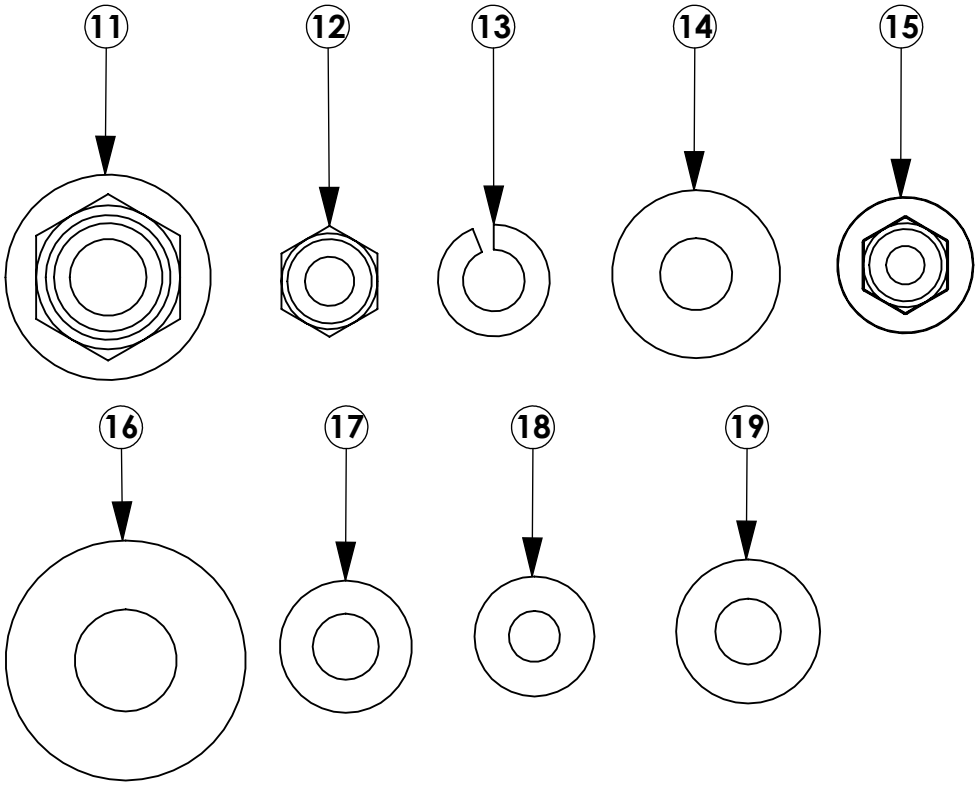
**BEST PRACTICE: ORGANIZE ALL FASTENERS & VERIFY THAT ALL ARE ACCOUNTED FOR**



## *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 | FAS0098 | WASHER, LOCK, SPLIT, 5/16, ZINC PLATE | 4 |
| 14 | FAS0086 | WASHER,FLAT USS 5/16 ZP | 4 |
| 15 | FAS0055 | NUT,HEX NLK FLG 1/4-20 ZP | 9 |
| 16 | FAS0334 | WASHER,FLAT 1/2 SS | 2 |
| 17 | FAS0245 | WASHER, FLAT, 5/16 HRD, ZN | 20 |
| 18 | FAS0234 | WASHER, FLAT, 1/4, SST | 9 |
| 19 | FAS0164 | WASHER,FLAT,SAE,5/16,ALUM | 10 |

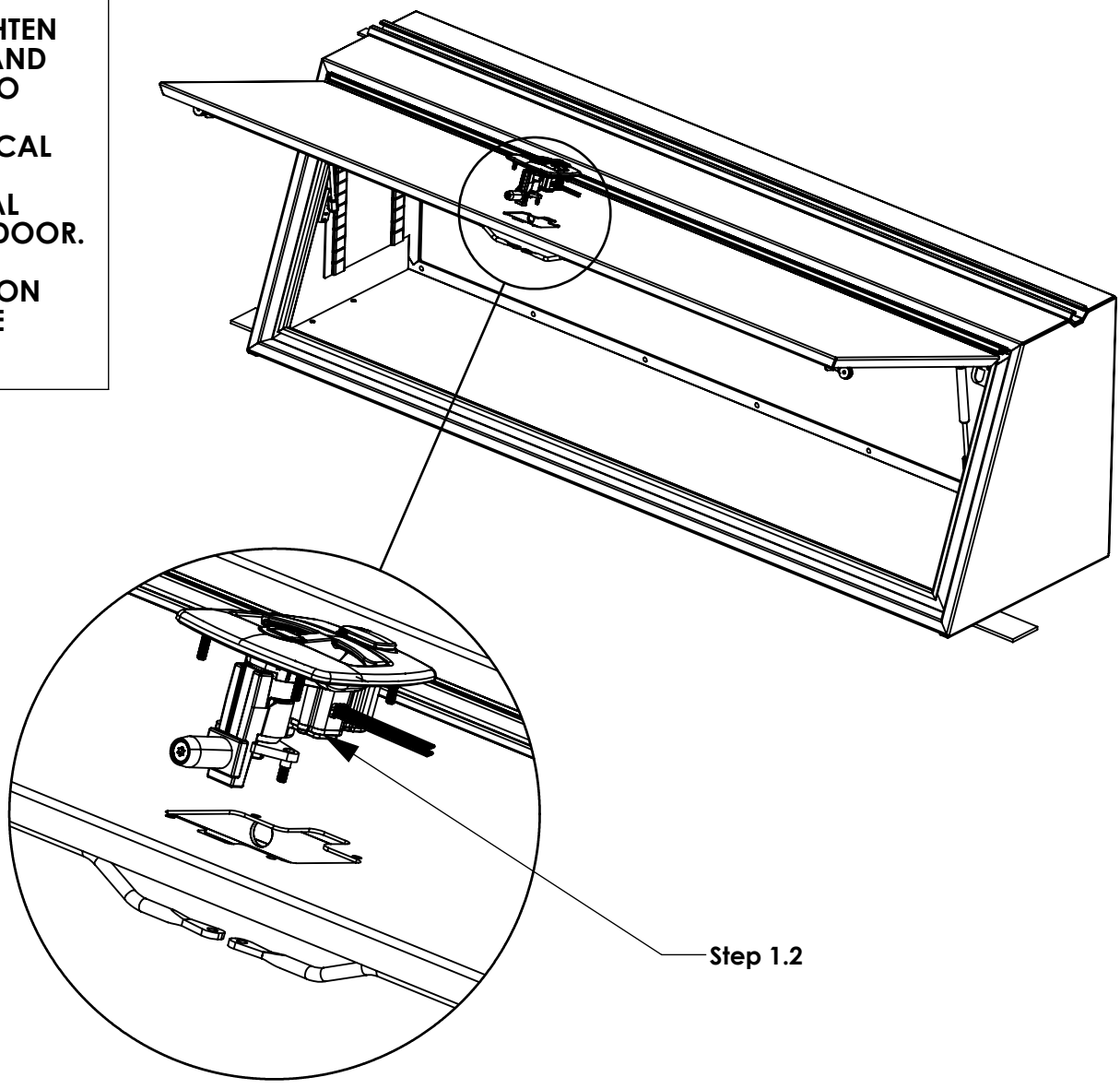


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# *STEP 1 - DETERMIN WHICH BOX WILL BE THE PS AND DS SIDE - THESE BOXES WILL SHIP FROM ASC SYMETRICAL*

**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 MECHANICAL AND ELECTRICAL LOCK TO DOOR. SEE LATCH INSTRUCTION FOR MORE DETAIL**



# *STEP 2.1 - PREP BED (F-150)*

**Step 2.1.1**
**LOCATE THE BED SUPPORT BRACKETS IN TS-BK BOX, THESE ARE VEHICLE SPECIFIC.**

**MAKE SURE THE PARTS YOU HAVE MATCH BOM FOR YOUR VEHICLE.**

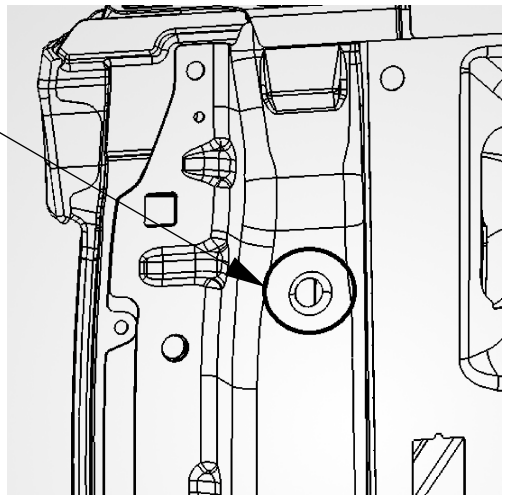
**Step 2.1.2**
**REMOVE THE TAIL LIGHTS TO GAIN ACESS TO MOUNTING HOLE SHOWN.**

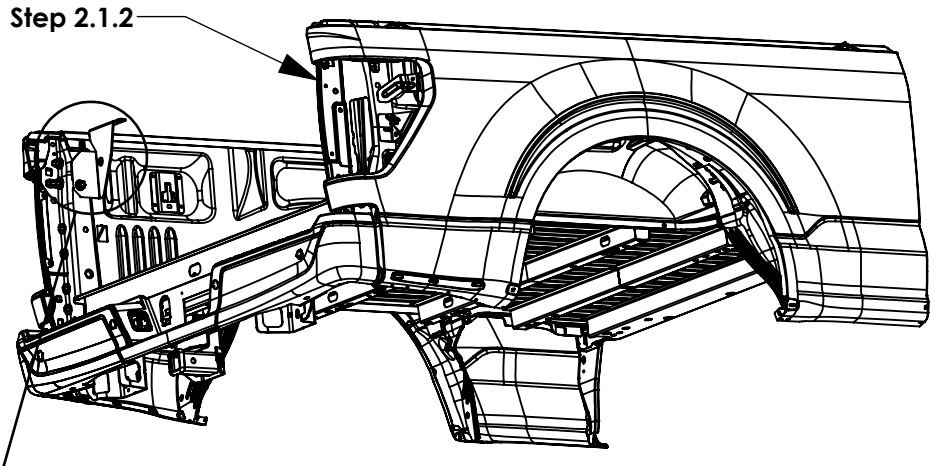
**DO NOT REINSTALL TAIL LIGHT UNTIL END OF INSTALL**

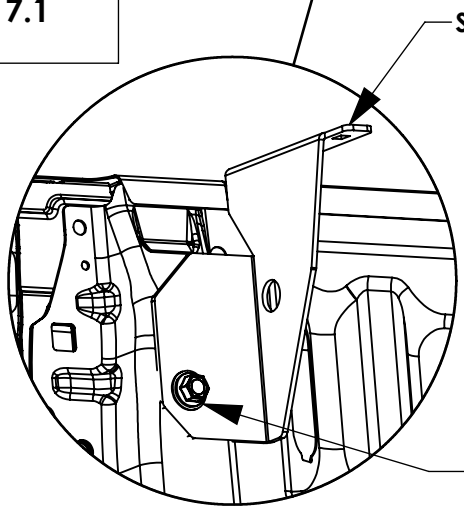
**Step 2.1.3**
**INSTALL REAR BRACKETS. HAND TIGHTEN (4)FAS0092, (4)FAS0098, (4)FAS0086**

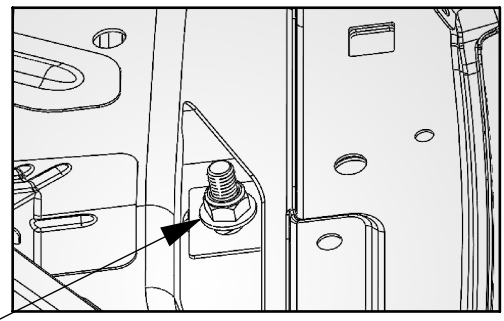
**1/2 WRENCH**
**1/2 SOCKET**

**FULLY TIGHTEN AFTER STEP 7.1**



**VIEW FROM INSIDE TAIL LIGHT**

# *STEP 2.2 - PREP BED (F-250)*

**Step 2.2.1**
**LOCATE THE BED SUPPORT BRACKETS IN TS-BK BOX, THESE ARE VEHICLE SPECIFIC.**

**MAKE SURE THE PARS YOU HAVE MATCH BOM FOR YOUR VEHICLE.**

**Step 2.2.2**
**ALIGN UPPER HOLE ON BED BRACKET TO OEM HOLE IN F-250 BED,**

**MARK BOTTOM HOLE.**

**DRILL OUT OEM HOLE TO 1/2"**

**DRILL MARKED HOLE TO 1/2"**

**1/2" DRILL BIT**
**DRILL**

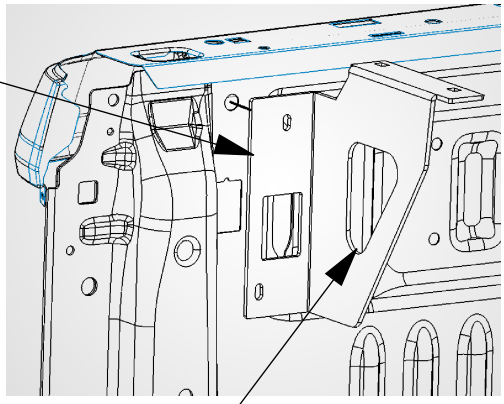
**Step 2.2.3**
**SET (4)FAS0091 INTO DRILL HOLES**

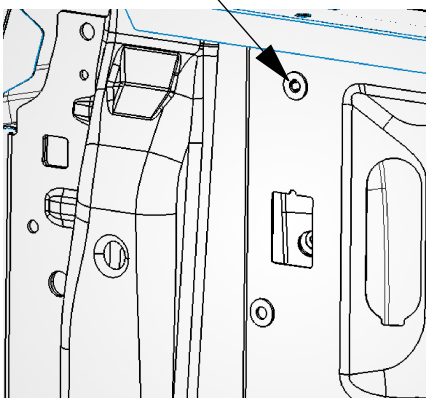
**PLUSNUT TOOL**

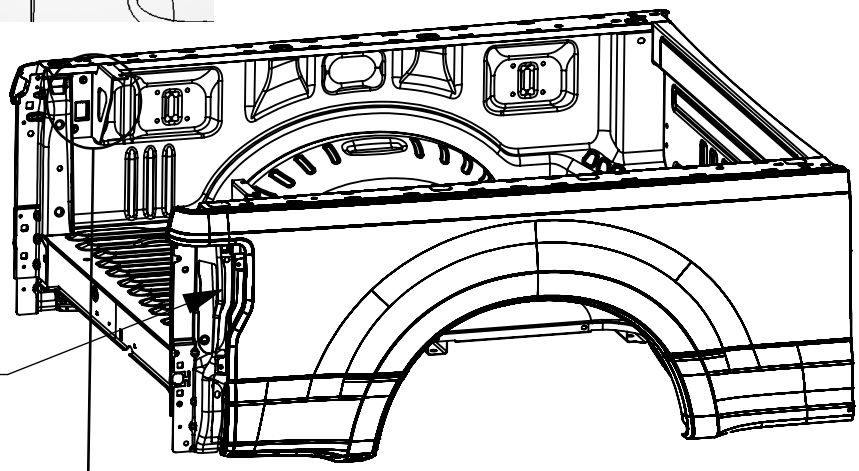
**Step 2.2.4**
**INSTALL REAR BRACKETS. HAND TIGHTEN (4)FAS0092, (4)FAS0098, (4)FAS0086**

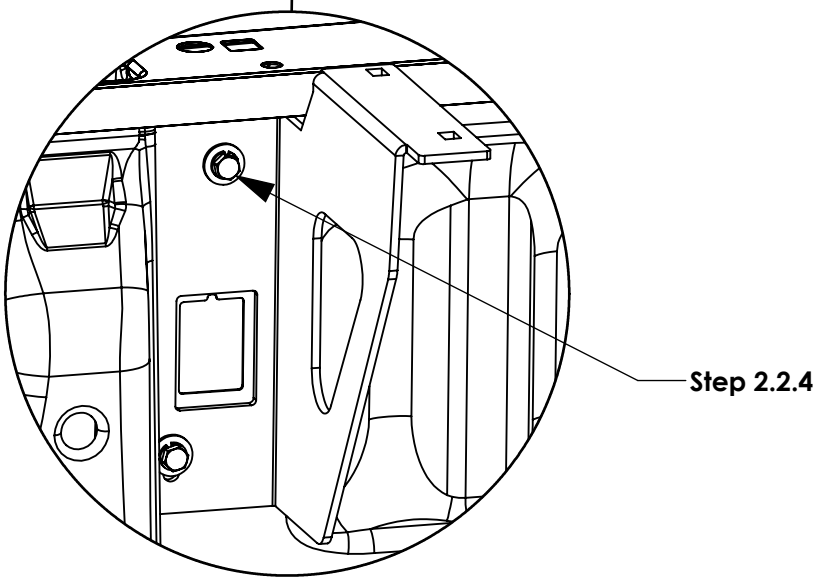
**1/2 WRENCH**
**1/2 SOCKET**

**FULLY TIGHTEN AFTER STEP 7.1**



# *STEP 2.3 - PREP BED (RAM 6 FT)*

**Step 2.3.1**
**LOCATE THE BED SUPPORT BRACKETS IN TS-BK BOX, THESE ARE VEHICLE SPECIFIC.**

**MAKE SURE THE PARS YOU HAVE MATCH BOM FOR YOUR VEHICLE.**

**Step 2.3.2**
**FOR RAM VEHICLE, ALIGN HOLE ON BRACKET TO HOLEIN RAM BED DRILL OUT OEM HOLE TO 1/2"**

**1/2" DRILL BIT**
**DRILL**

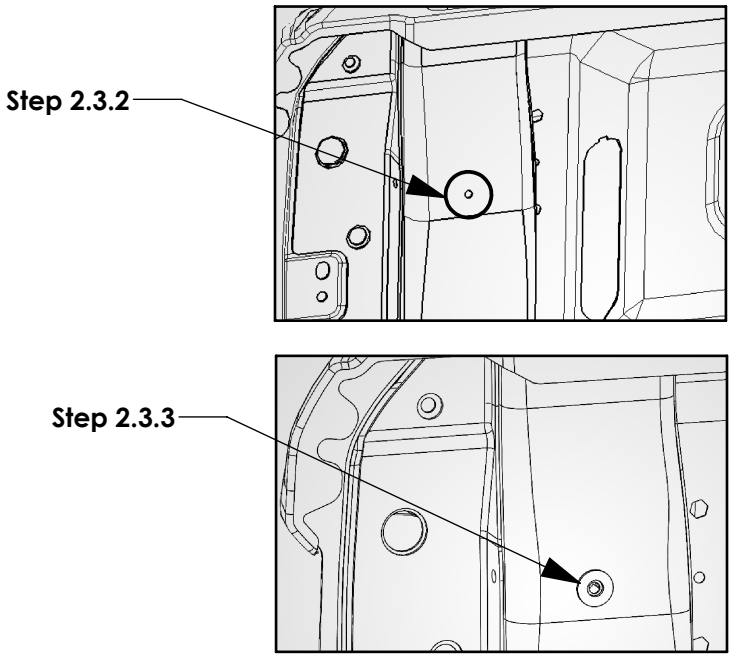
**Step 2.3.3**
**SET (4)FAS0091 INTO DRILLED OUT HOLES**

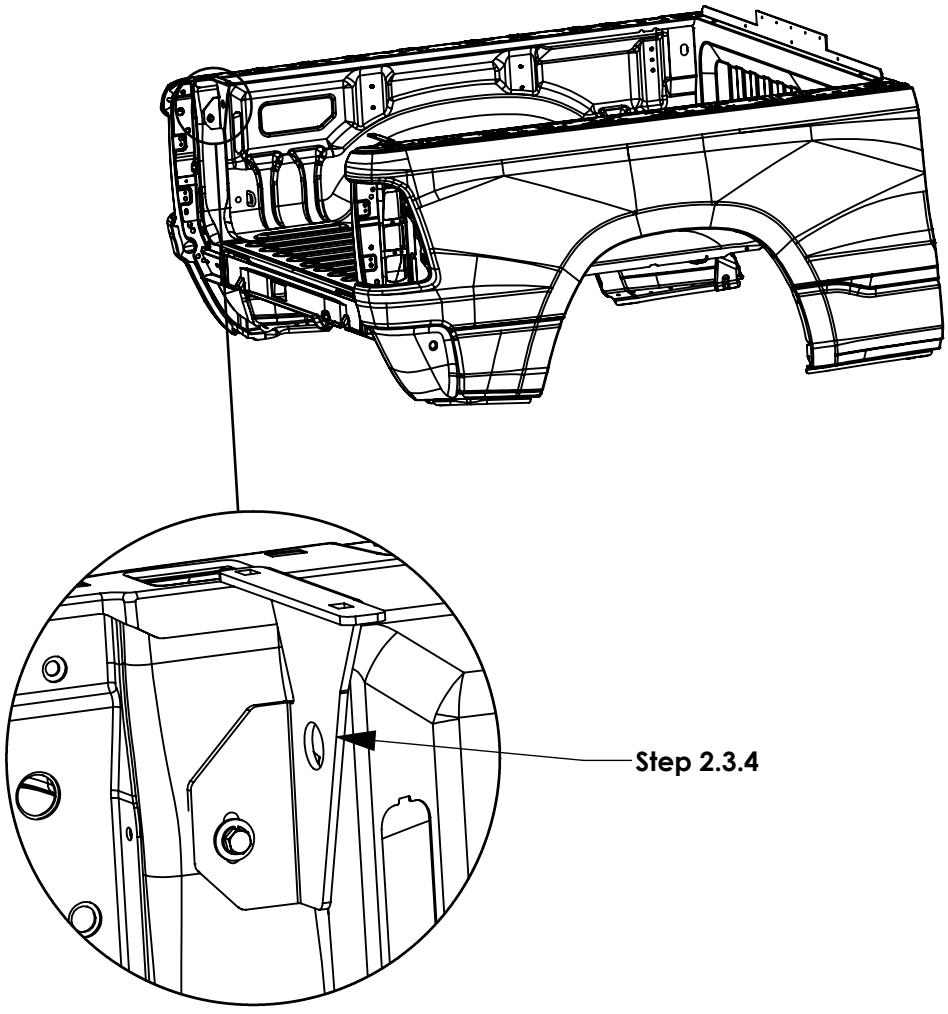
**PLUSNUT TOOL**

**Step 2.3.4**
**INSTALL REAR BRACKETS. HAND TIGHTEN AND FULLY TIGHTEN AT END OF INSTALL PRIOR TO REINSTALLING TAIL LIGHT,**

**FULLY TIGHTEN AFTER STEP X.X**
**(2)FAS1025,**
**(2)FAS1026**
**(2)FAS0334**

**1/2 WRENCH**
**1/2 SOCKET**



# *STEP 2.4 - PREP BED (RAM 8 FT)*

**Step 2.4.1**
**LOCATE THE BED SUPPORT BRACKETS IN TS-BK BOX, THESE ARE VEHICLE SPECIFIC.**

**MAKE SURE THE PARS YOU HAVE MATCH BOM FOR YOUR VEHICLE.**

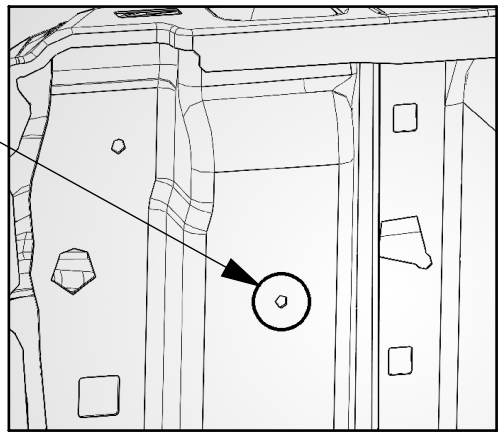
**Step 2.4.2**
**FOR RAM VEHICLE, REMOVE TAIL LIGHT TO GAIN ACESS TO MOUNTING HOLES SHOWN**

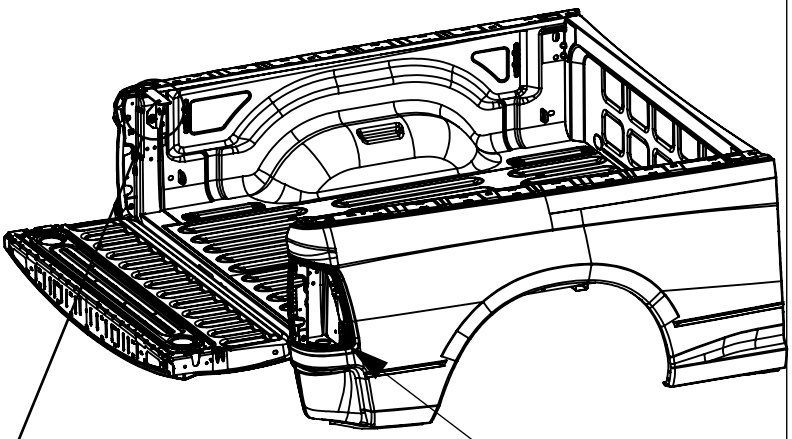
**Step 2.4.3**
**IDENTIFY OEM HOLE AT REAR OF BED (CIRCLED ABOVE) DRILL OUT TO .565" DIA HOLE USING A STEP BIT ON BOTH SIDES OF BED**

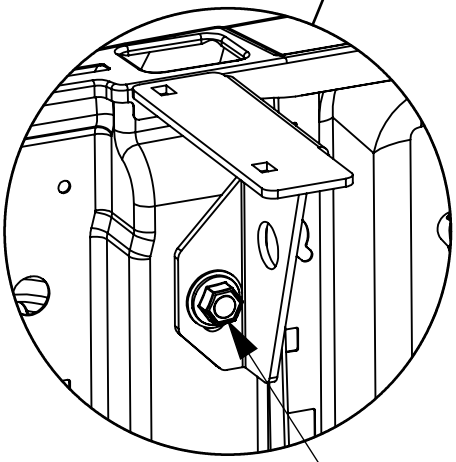
**Step 2.4.4**
**INSTALL REAR BRACKETS. HAND TIGHTEN AND FULLY TIGHTEN AT END OF INSTALL PRIOR TO REINSTALLING TAIL LIGHT,**

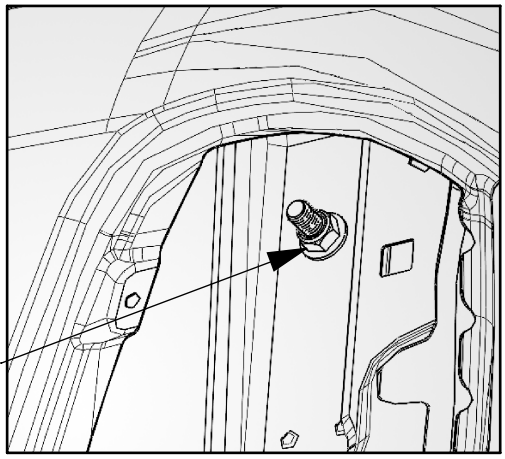
**FULLY TIGHTEN AFTER STEP X.X**
**(2)FAS1025,**
**(2)FAS1026**
**(2)FAS0334**

**1/2 WRENCH**
**1/2 SOCKET**



**VIEW FROM INSIDE TAIL LIGHT**

# *STEP 2.5 - PREP BED (GM 6FT)*

**Step 2.5.1**
**LOCATE THE BED SUPPORT BRACKETS IN TS-BK BOX, THESE ARE VEHICLE SPECIFIC.**

**MAKE SURE THE PARS YOU HAVE MATCH BOM FOR YOUR VEHICLE.**

**Step 2.5.2**
**FOR 1500, ALIGN LEFT HAND HOLE ON BED BRACKET TO HOLE IN GM1500 BED, MARK RIGHT HAND HOLE. DRILL OUT OEM HOLE TO 1/2". DRILL OUT 1/2" HOLE**

**FOR 2500, ALIGN LEFT HAND HOLE ON BED BRACKET TO HOLE IN GM1500 BED, MARK RIGHT HAND HOLE. DRILL OUT OEM HOLE TO 1/2". DRILL OUT 1/2" HOLE.**

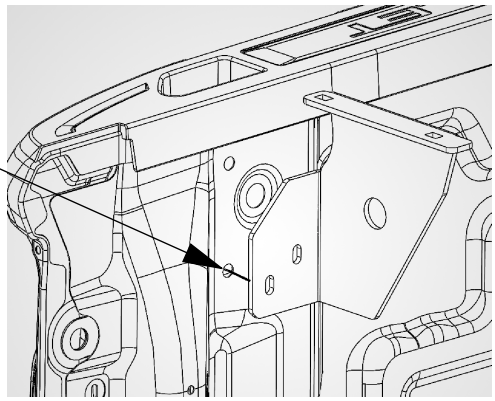
**1/2" DRILL BIT**
**DRILL**

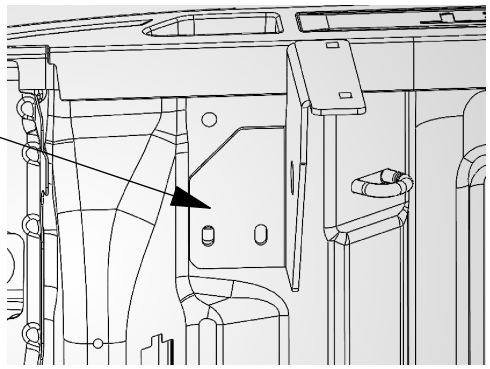
**Step 2.5.3**
**SET (4)FAS0091 INTO HOLES**

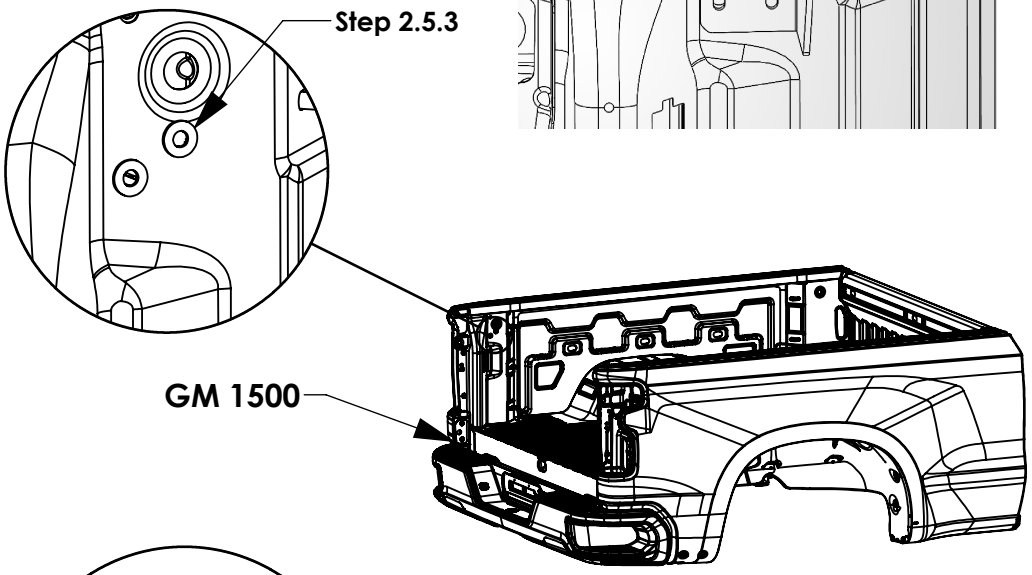
**PLUSNUT TOOL**

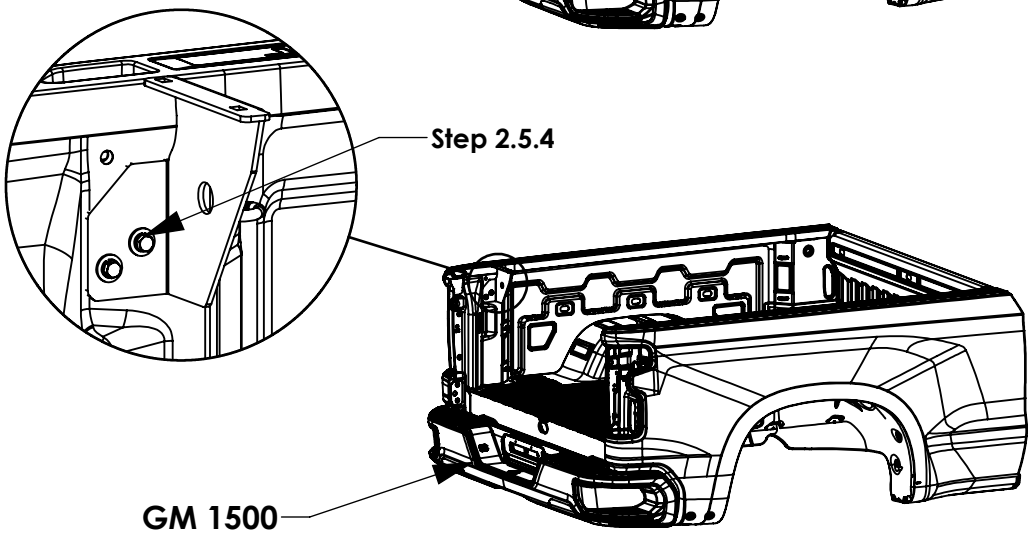
**Step 2.5.4**
**INSTALL REAR BRACKETS HAND TIGHTEN (4)FAS0092, (4)FAS0098, (4)FAS0086, & (4)FAS0086**

**1/2 WRENCH**
**1/2 SOCKET**



# *STEP 2.6 - PREP BED (GM 8FT)*

**Step 2.6.1**
**LOCATE THE BED SUPPORT BRACKETS IN TS-BK BOX, THESE ARE VEHICLE SPECIFIC.**

**MAKE SURE THE PARS YOU HAVE MATCH BOM FOR YOUR VEHICLE.**

**Step 2.6.2**
**FOR 1500, ALIGN TOP HOLE ON BED BRACKET WITH HOLE SHOWN ON REAR OF TRUCK BED, AND MARK CENTER OF LOWER SLOT.**

**DRILL OUT OEM HOLE TO 1/2". DRILL OUT 1/2" HOLE**

**FOR 2500, ALIGN BOTTOM HOLE ON BED BRACKET WITH BOTTOM HOLE SHOWN ON REAR OF TRUC BED. MARK CENTER OF TOP SLOT.**

**DRILL OUT OEM HOLE TO 1/2". DRILL OUT 1/2" HOLE.**

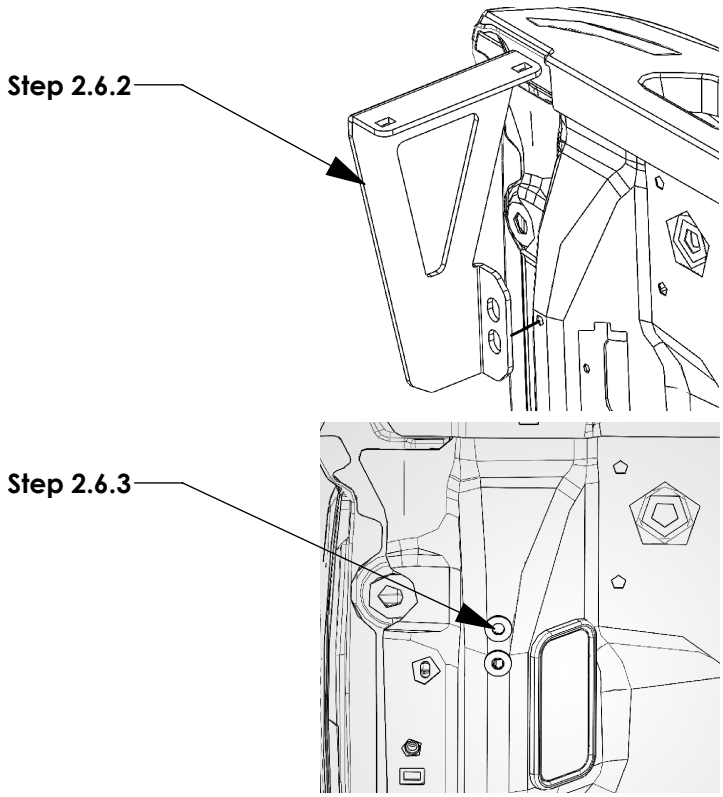
**1/2" DRILL BIT**
**DRILL**

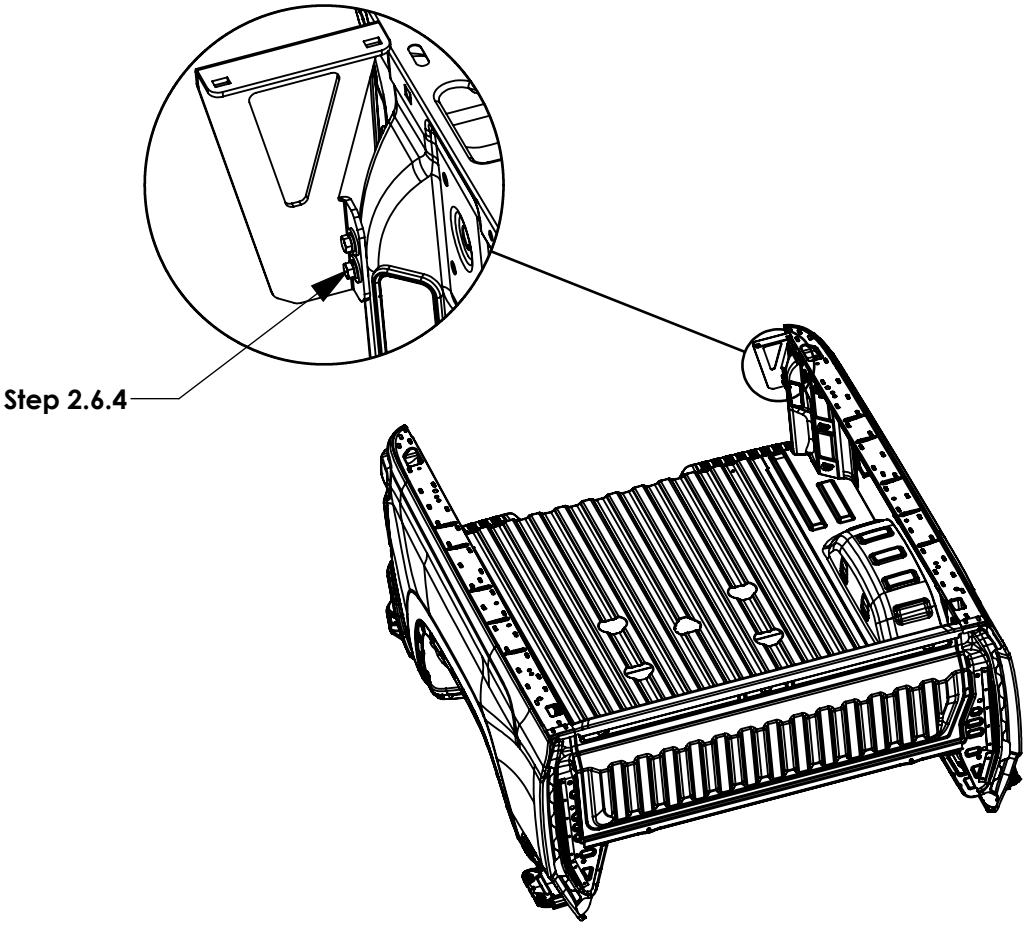
**Step 2.6.3**
**SET (4)FAS0091 INTO HOLES**

**PLUSNUT TOOL**

**Step 2.6.4**
**INSTALL REAR BRACKETS HAND TIGHTEN (4)FAS0092, (4)FAS0098, & (4)FAS0086**

**1/2 WRENCH**
**1/2 SOCKET**

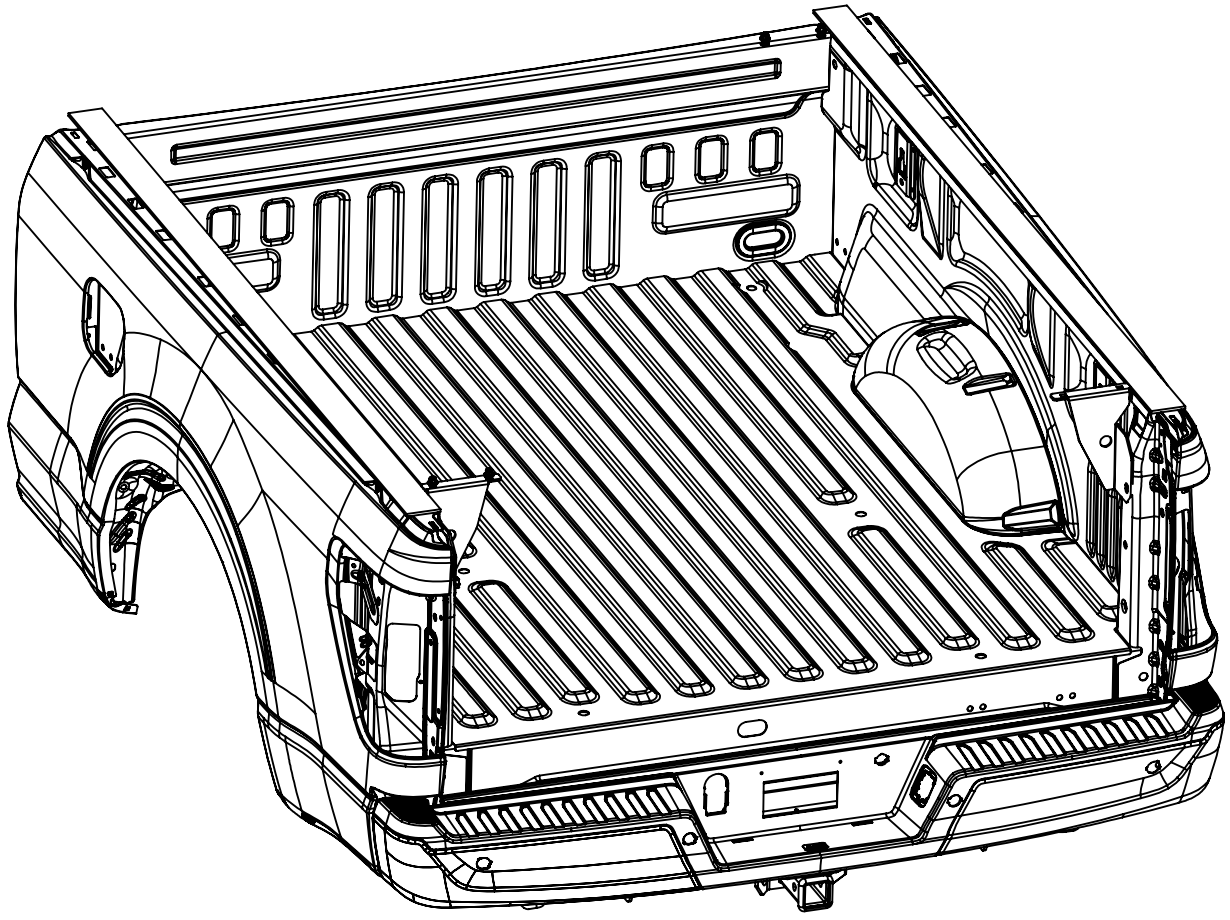


## *STEP 3 - PREP BED FOR FOAM STRIPS*

**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 TRIL EXCESS UNTIL FULLY INSTALLED.**



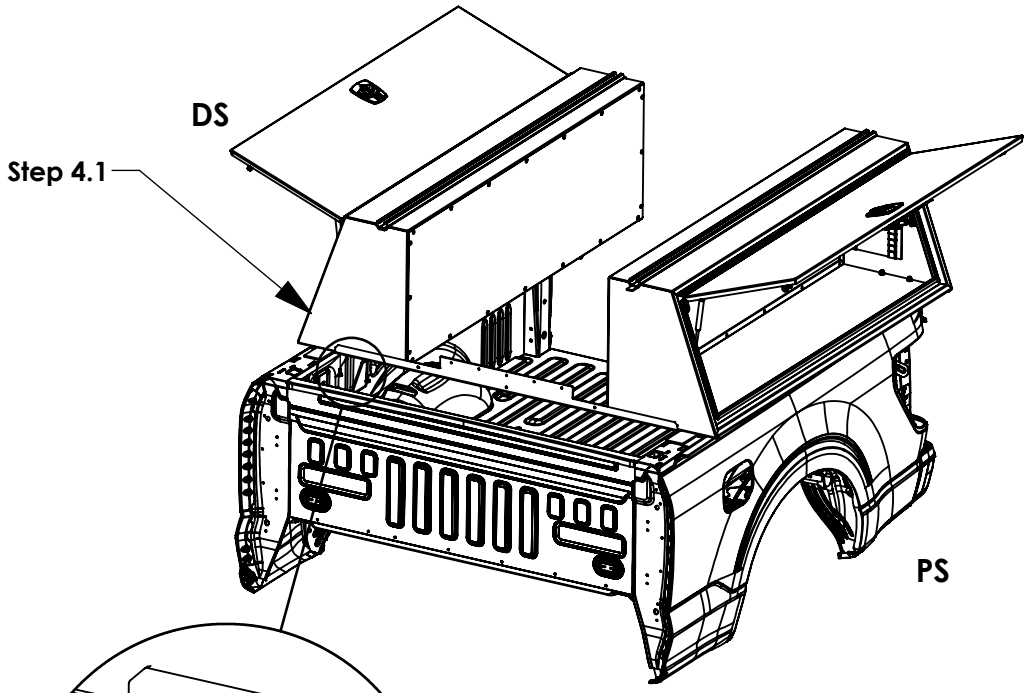
# *STEP 4 - PLACE BOXES ON BED SO IT OVERHANG THE TAILGATE BY 2-3 FEET - ATTACH BOXES WITH FRONT RAIL SUPPORT*

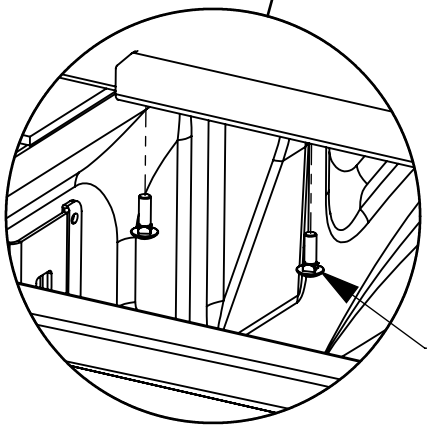
**Step 4.1**
**PLACE BOXES ON BED AS SHOWN, ALIGN 79950-B TO THE BOTTOM OF BOTH BOXES ON THE CAB SIDE OF THE VEHICLE**

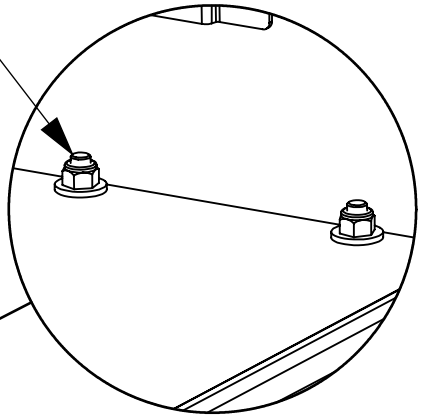
**Step 4.2**
**LOOSELY ASSEMBLE UNTIL STEP 6, HAND TIGHTEN (4)FAS0398, (4)FAS0248, & (4)FAS0688**

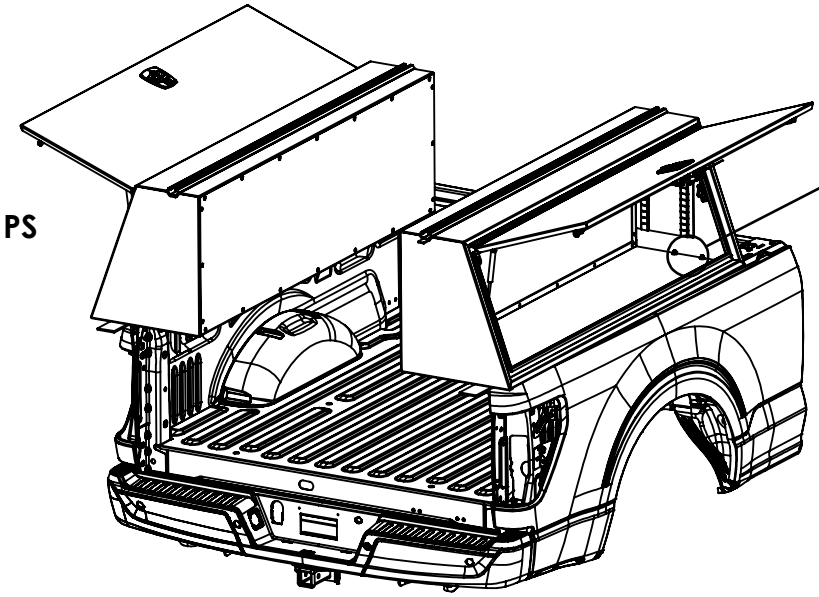
**1/2 WRENCH**
**1/2 SOCKET**

**FULLY TIGHTEN AFTER Step 7.1**



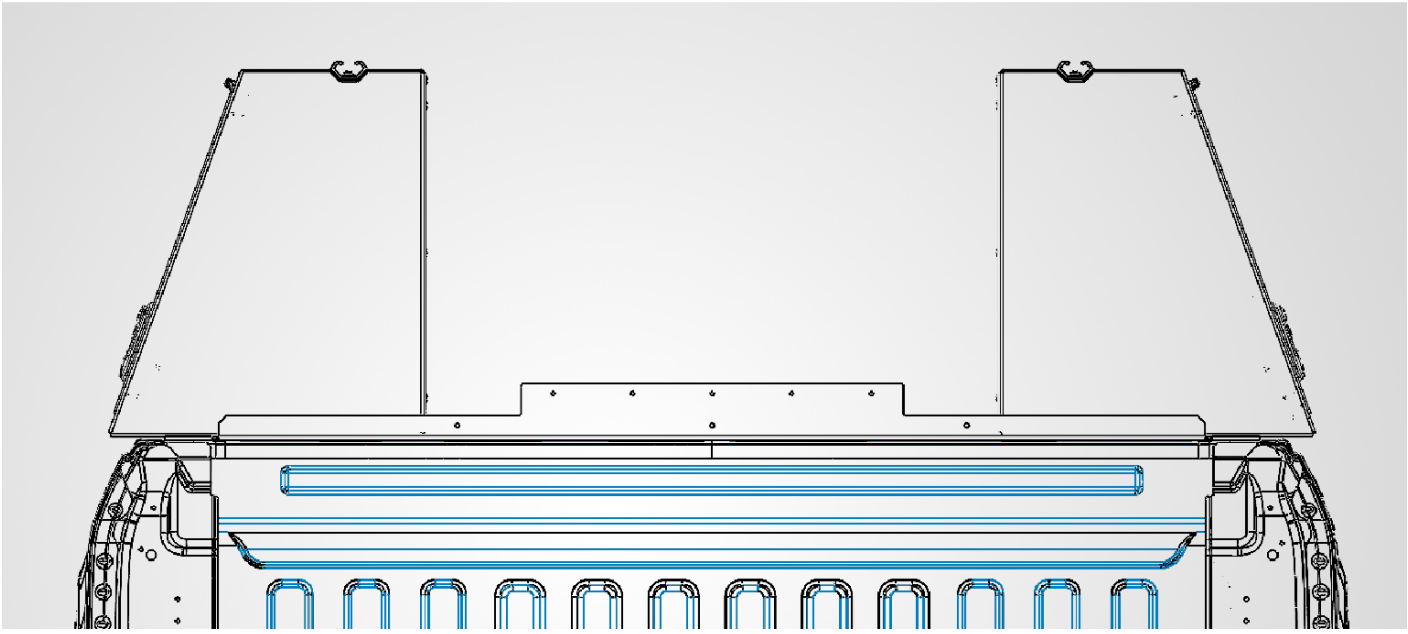



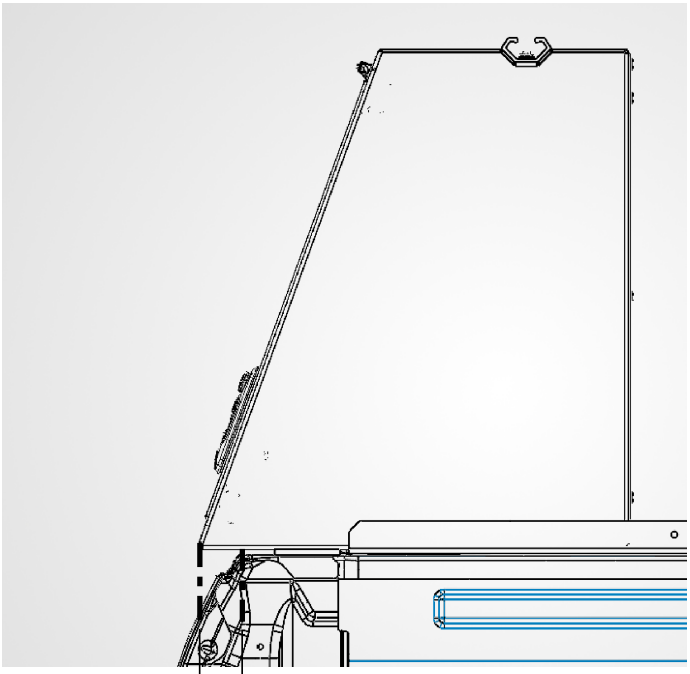


# CHECK THAT THE BOXES ARE CENTERED ON VEHICLE

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



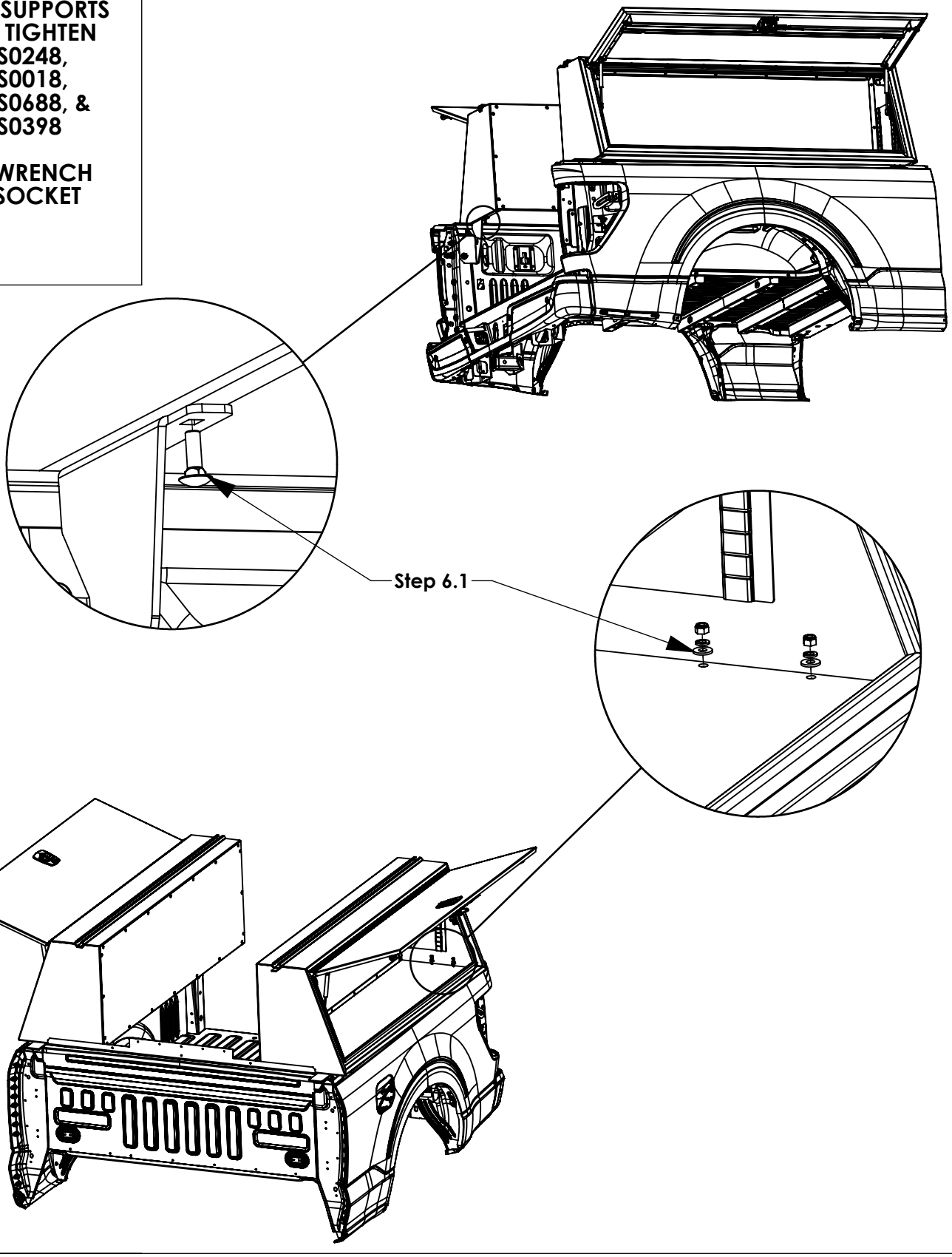



**ENSURE THIS DISTANCE IS THE SAME ON BOTH SIDES OF VEHICLE**

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

**Step 6.1**
**BOLT BOXES TO REAR SUPPORTS FULLY TIGHTEN (4)FAS0248, (4)FAS0018, (4)FAS0688, & (4)FAS0398**

**9/16 WRENCH**
**9/16 SOCKET**

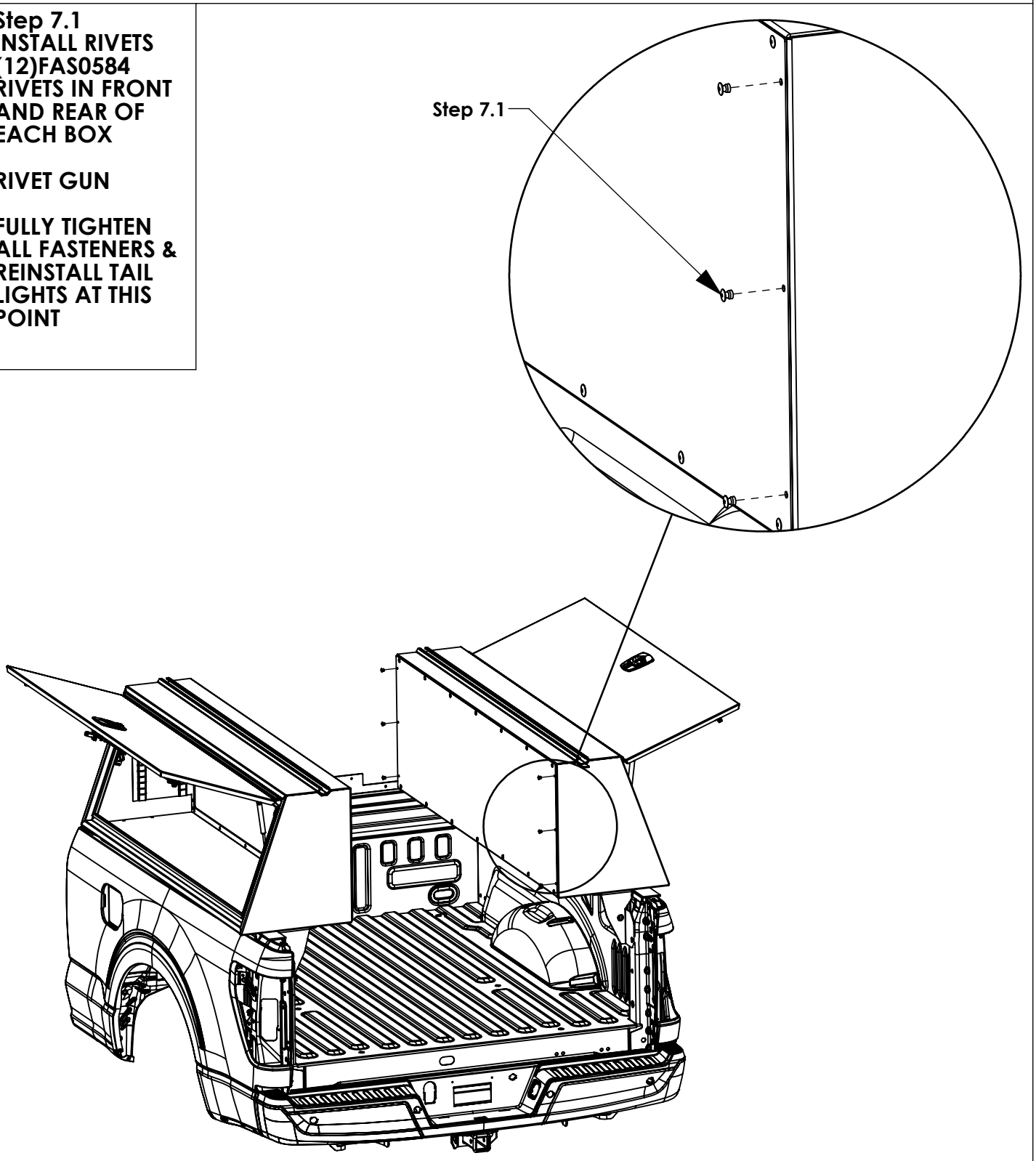


# *STEP 7 - INSTALL RIVETS AT FRONT AND REAR OF BOXES TO SEAL*

**Step 7.1**
**INSTALL RIVETS (12)FAS0584 RIVETS IN FRONT AND REAR OF EACH BOX**

**RIVET GUN**

**FULLY TIGHTEN ALL FASTENERS & REINSTALL TAIL LIGHTS AT THIS POINT**



# *STEP 8 - DRILL BED RAIL MOUNTING HOLES*

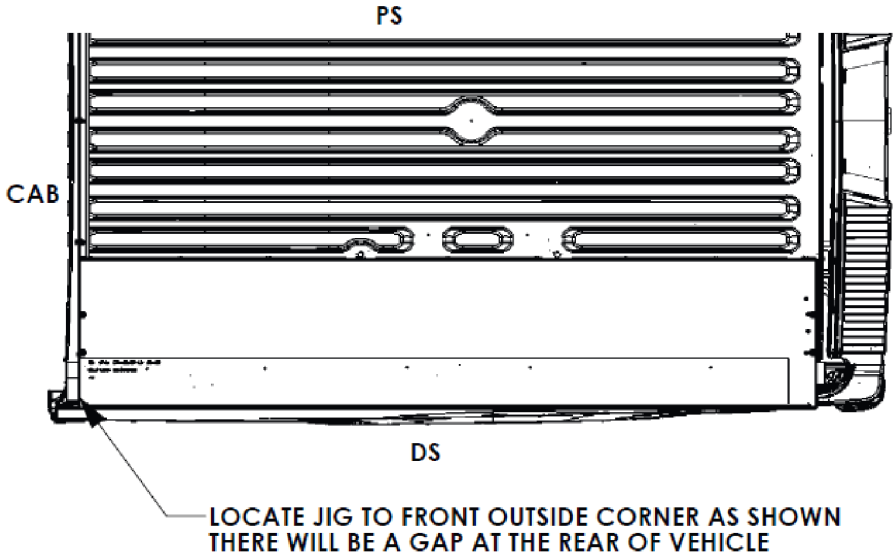
**Step 8.1**
**IDENTIFY THE CORRECT DRILL JIG FOR THE VEHICLE YOUR REINSTALLING ON**

**RAM 1/2/3500 - 8'**

**F-150 - 8'**

**F-250/350 - 8'**

**GM 1/2/3500 - 8'**




**Step 8.2**
**PLACE JIG IN VEHICLE AS SHOWN. START ON DS**

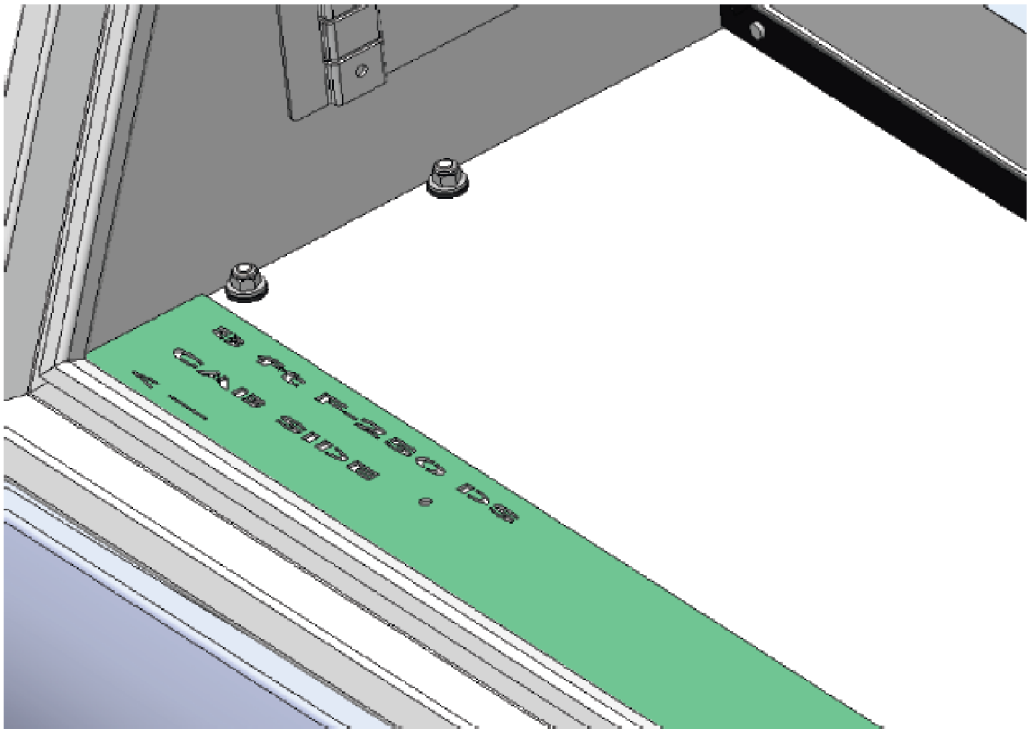
**FILP JIG TO MIRROR ON PS**

**MARK ALL HOLES WITH PAINT PEN**




**NOTE:**
**FOR 6' BEDS IGNORE Step 8.1 & 8.2,**
**USE PAINT PEN TO MARK 4 HOLES EVENLY SPACED IN TOOL BOX AND TRUCK BED RAIL TO DRILL. CONTINUE TO Step 8.3**

**Step 8.3**
**USING A STEP BIT OR 3/8 DRILL BIT, DRILL OUT ALL MARKED HOLES ON DS AND PS BED RAIL**



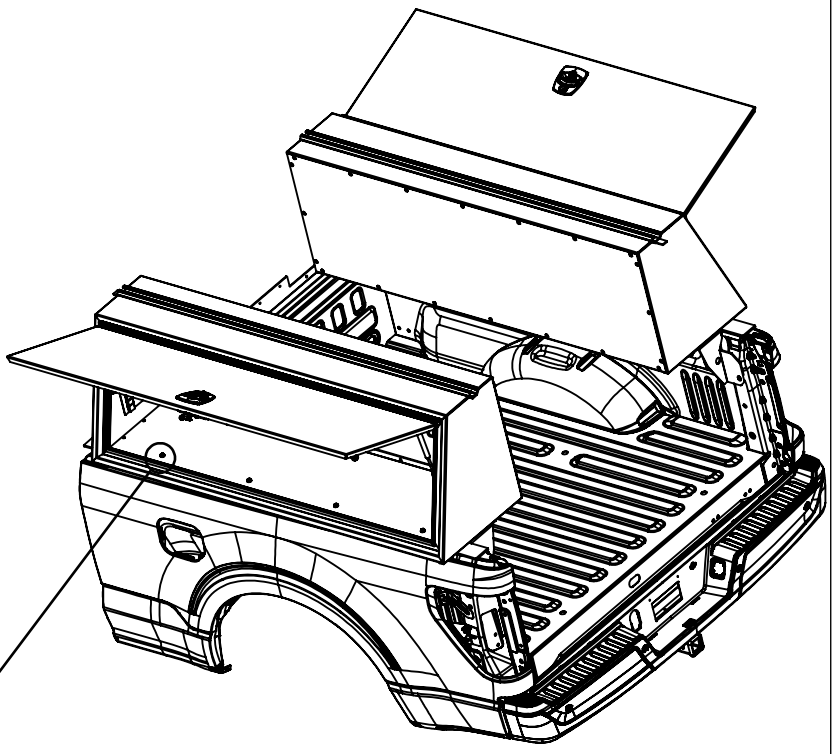
# *STEP 9 - INSTALL BED RAIL FASTENERS*

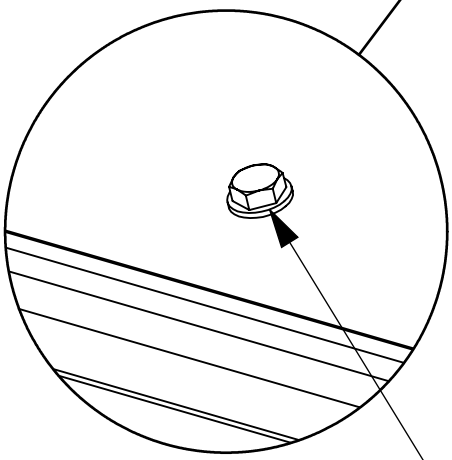
**Step 9.1**
**REMOVE ANY JIGS, FULLY TIGHTEN FAS0242, FAS0245, FAS0164, & FAS0248 TO SECURE BOXES TO BED RAIL**

**10 PLACES FOR 8FT BED**

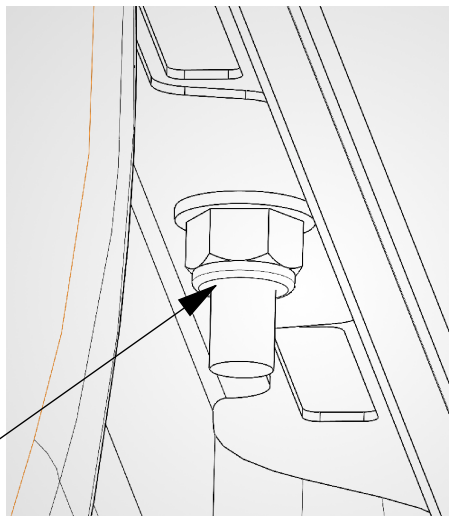
**8 PLACES FOR 6FT BED**

**1/2 WRENCH**
**1/2 SOCKET**





Step 9.1



**VIEW FROM UNDER RAIL**

# KIT, TAILGATE CHMSL

***CATALOG NUMBER*** **81246**

***PRODUCT APPLICATION***



***PRODUCT FEATURES***

**Lighting and E-Lock kit designed for 6 FT Topsider toolboxes**

**Kit includes two 4 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

Tools Required ..... 2
Parts Included ..... 3
Routing Overview ..... 4
Install Instructions ..... 5
QC Tests and Troubleshooting ..... 17

## 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



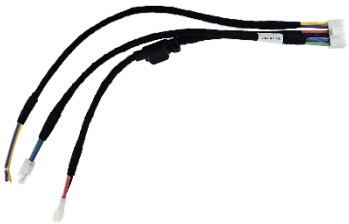
80996



74533



74349



74341



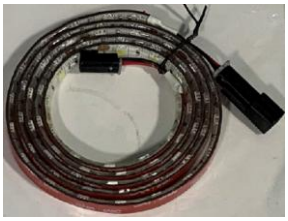
74340



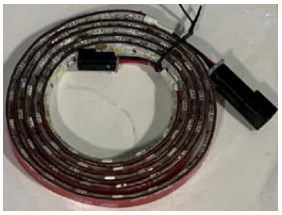
80883



36096-0



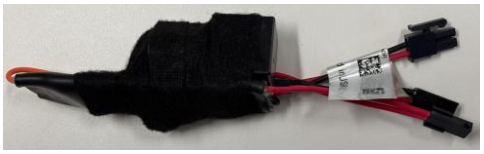
81171



81172



26618-0

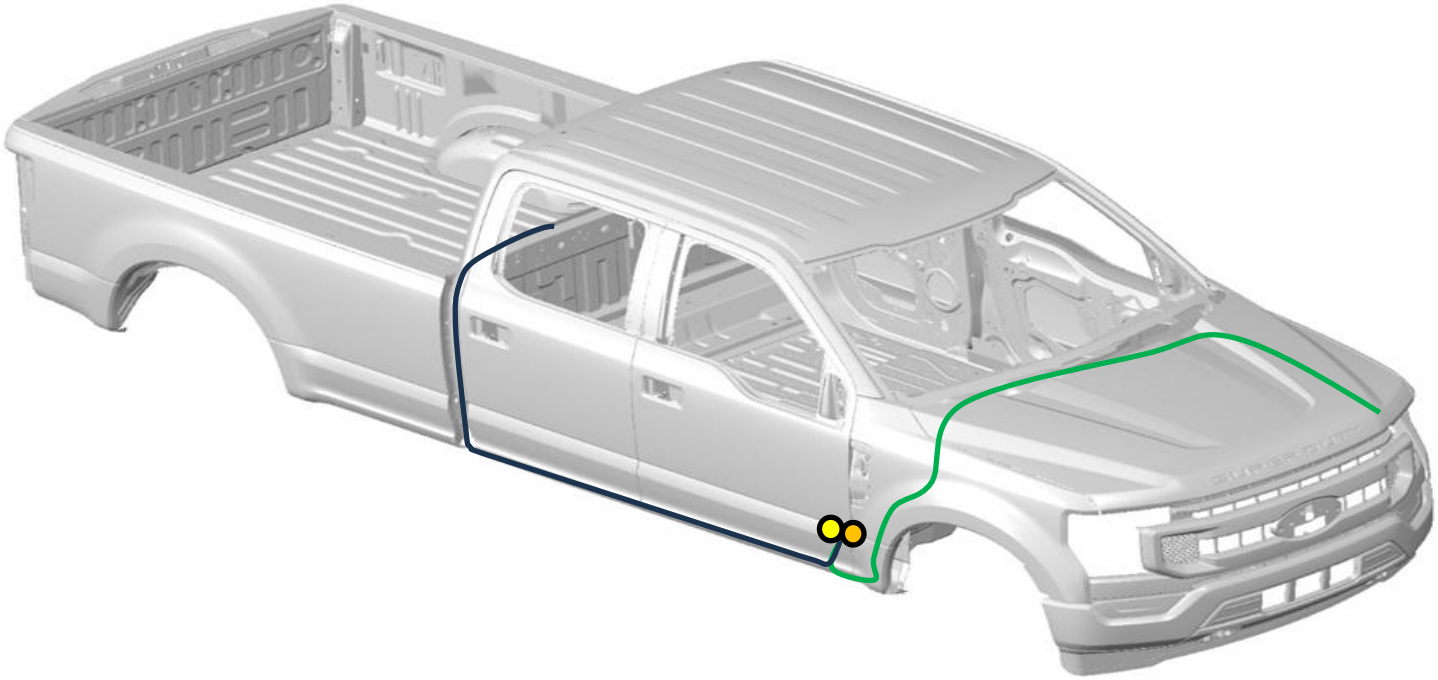


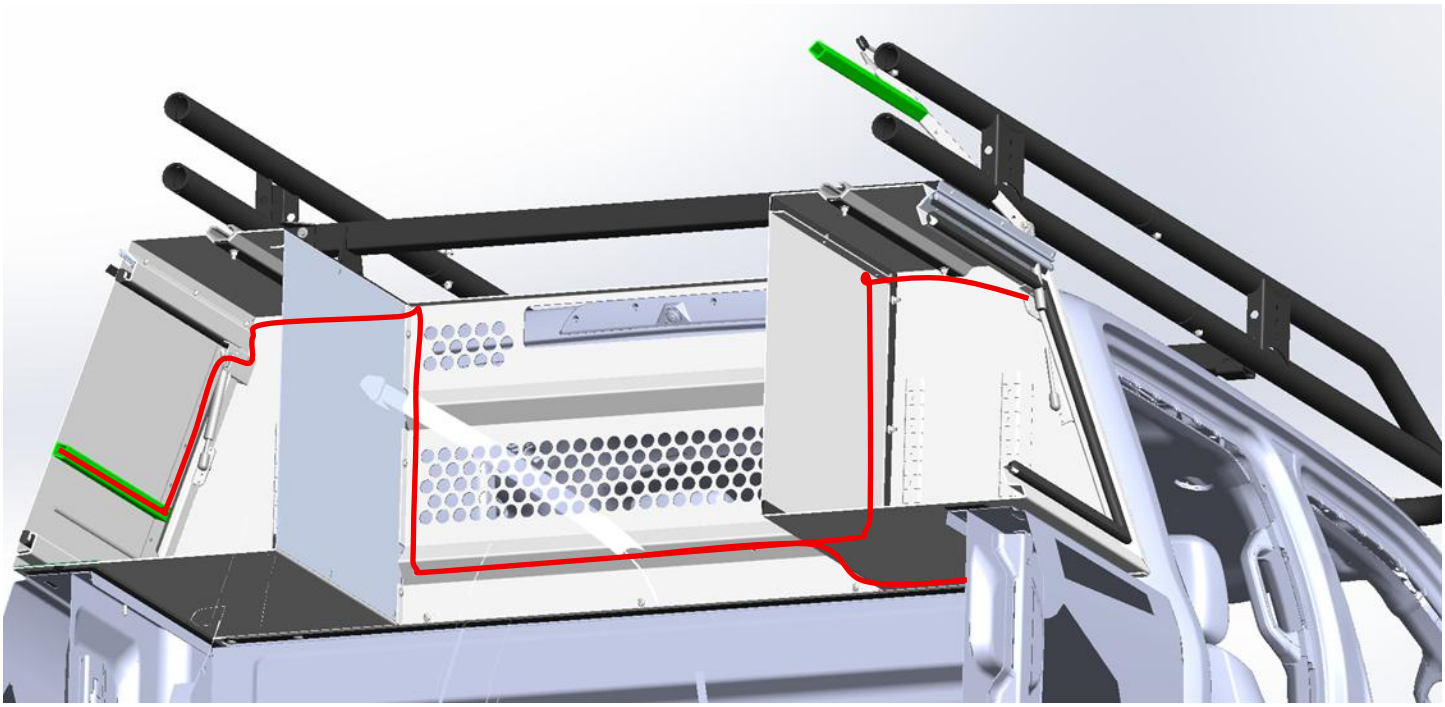
80721



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



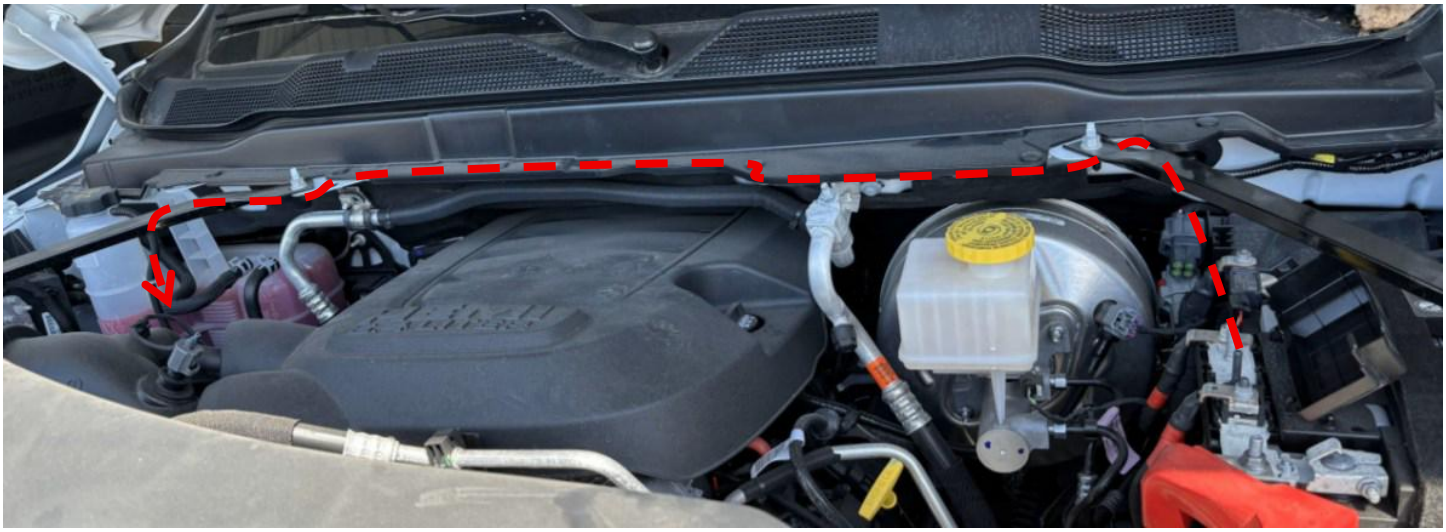
Silverado 1500 and 2500





**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.

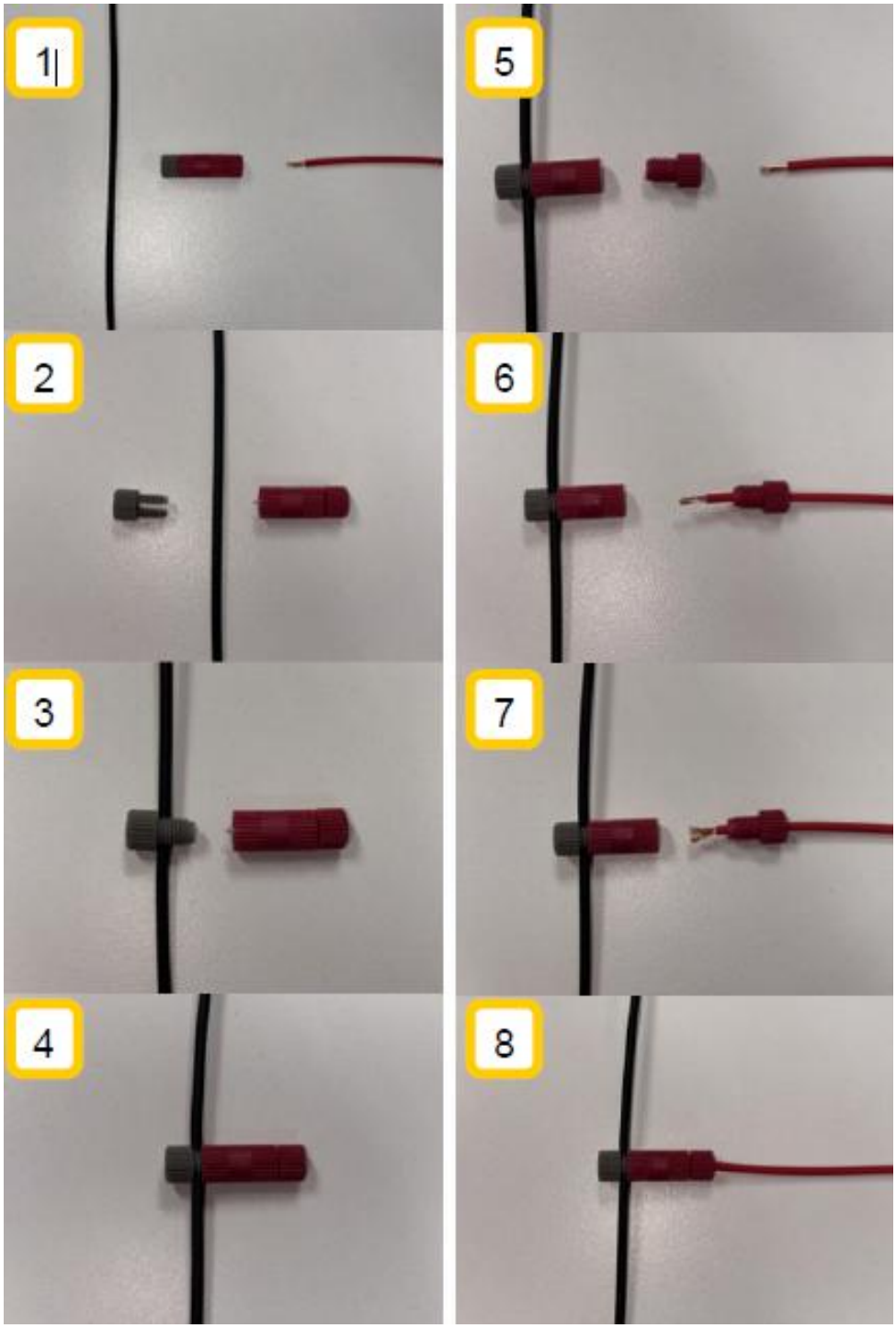
Twist the Posi-Tap onto the gray cap with the OEM wire secured in between the two.

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

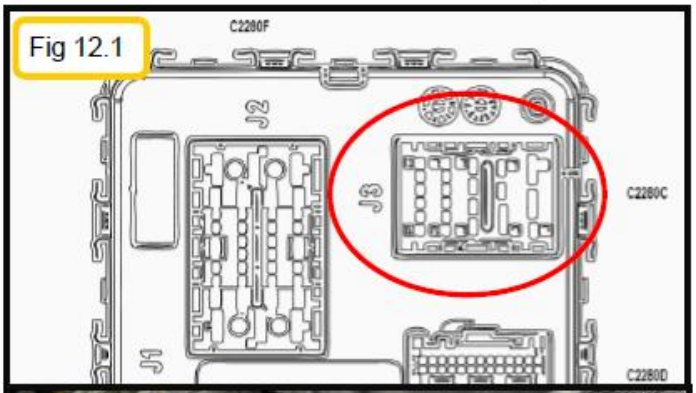



Fig 12.2



Fig 12.3

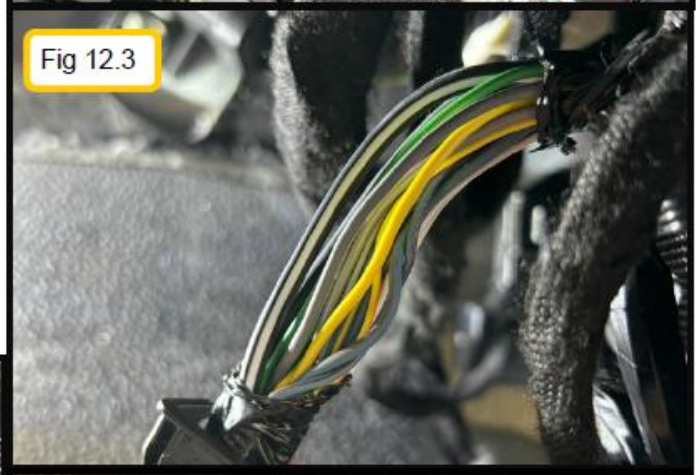


Fig 12.4

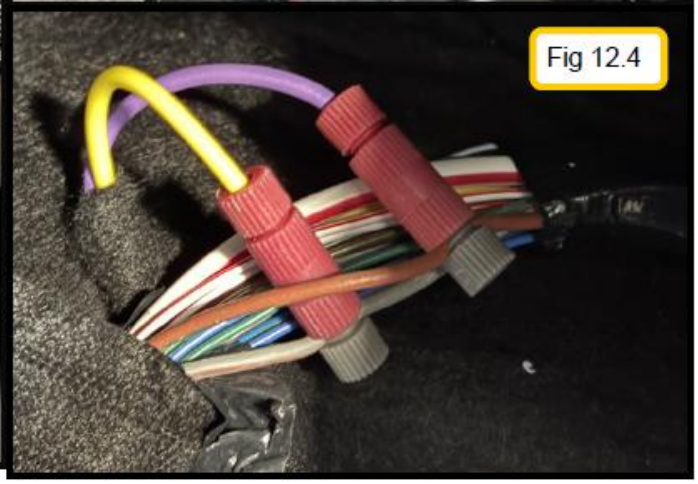
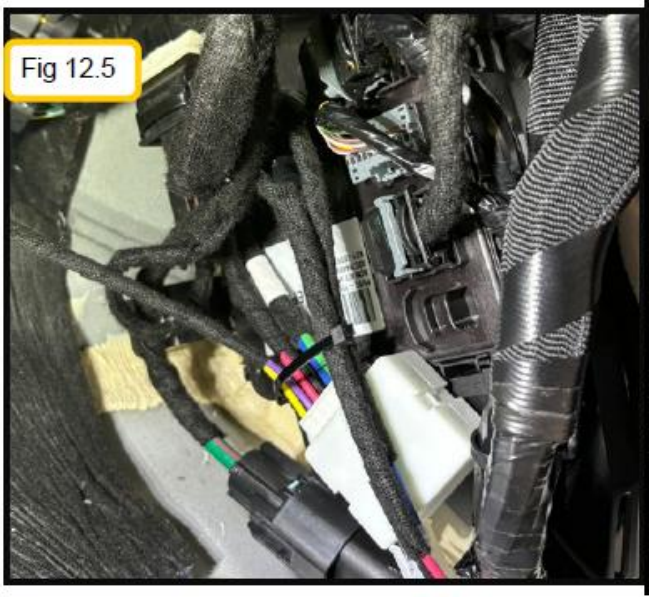


Fig 12.5



# 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)

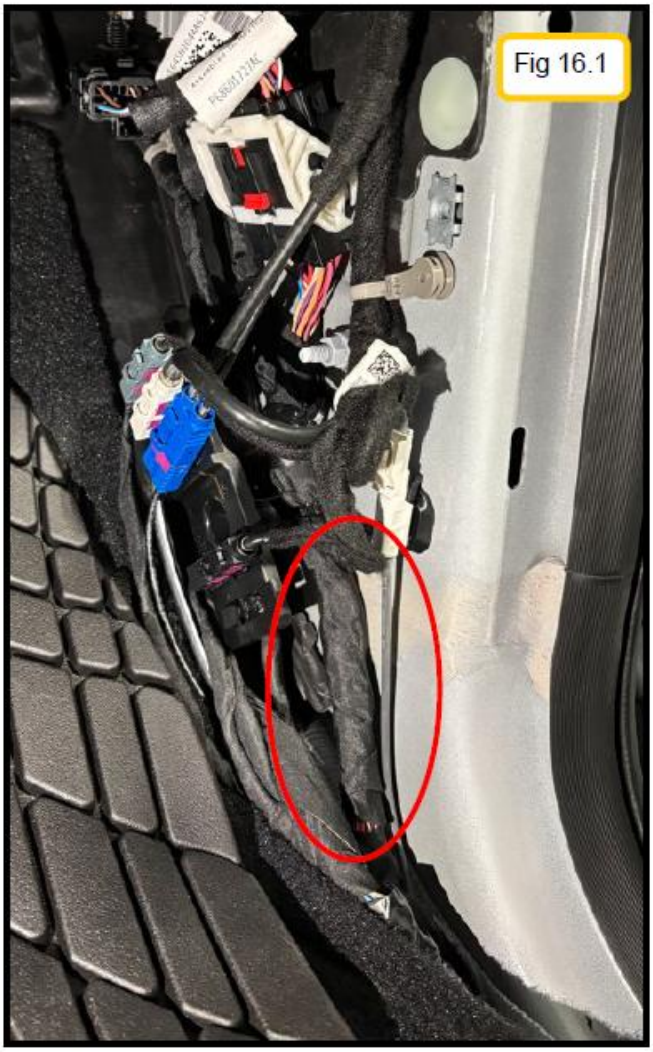
**RAM**
**74341 Yellow -> OEM Beige W/ White Stripe**
**74341 Purple -> OEM Green W/ Violet Stripe**

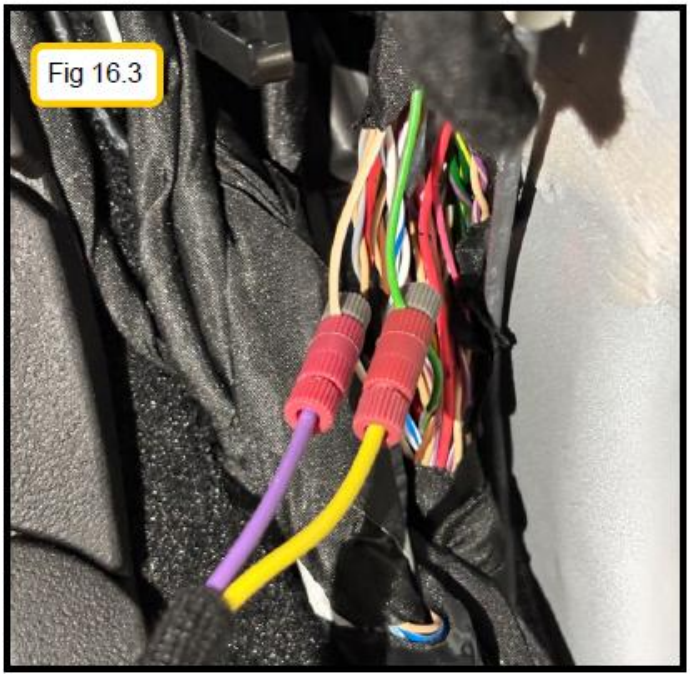
**6.** Retape the harness around the Posi-Taps to secure the wires as intended by the OEM and plug the connector back into the BCM.

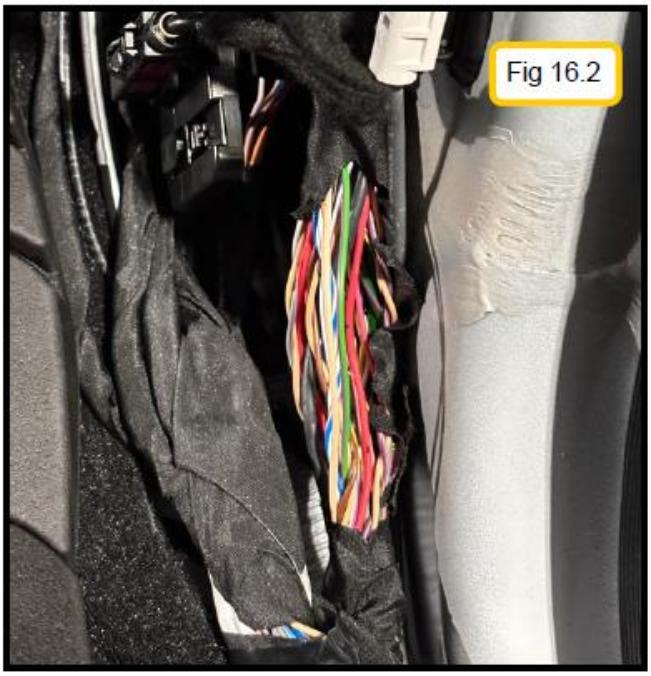
**7.** Plug the 74533 Relay Module into the 74341 harness 6-pin connector.

**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)

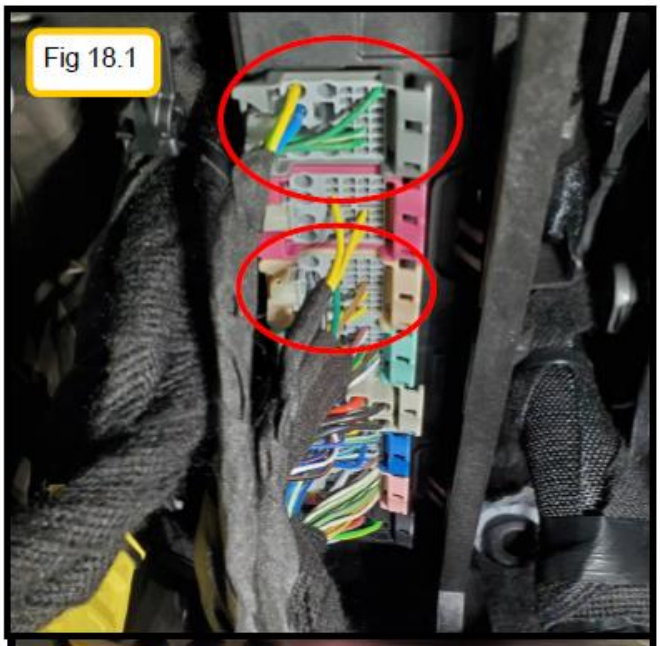
**Silverado**
**74341 Yellow -> OEM X6 Gray / Black Stripe**
**74341 Purple -> OEM X8 Yellow / Green Stripe**

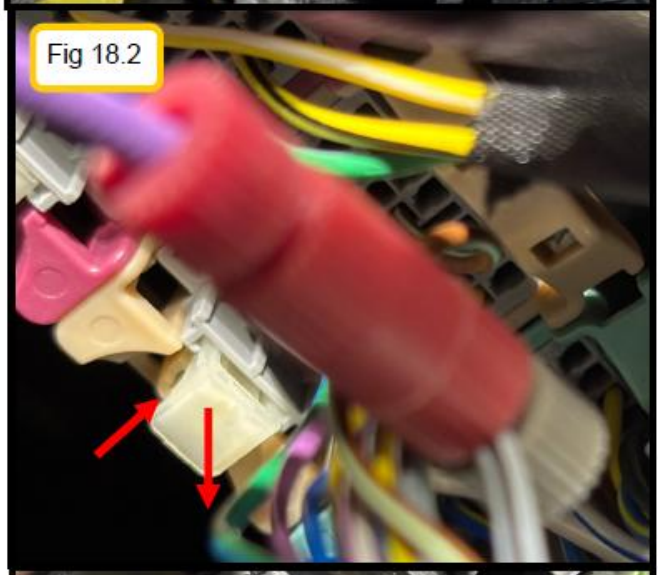
**6.** Plug the connectors back into the BCM.

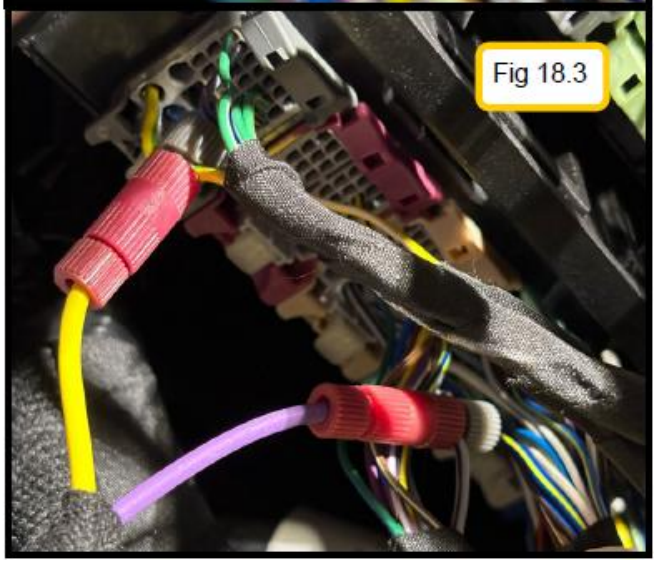
**7.** Plug the 74533 Relay Module into the 74341 harness 6-pin connector.

**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.

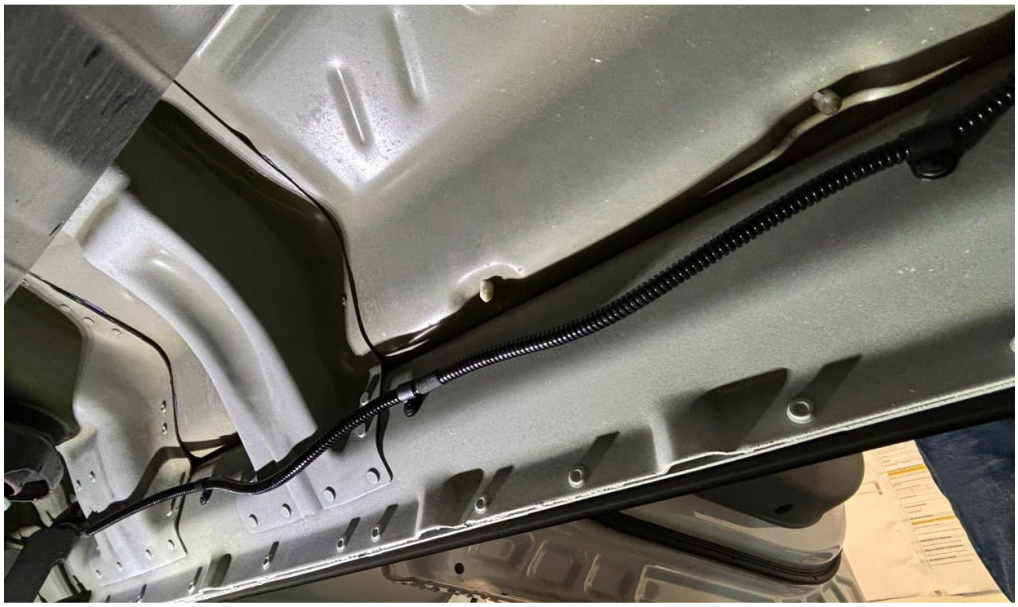


**Step 7:**

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.

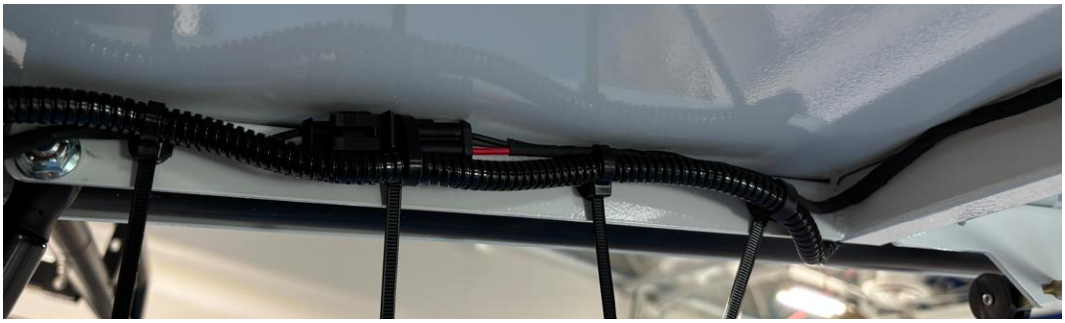
If your kit came we E-Locks, grab the E-lock side door harness, 74349, and plug it into the connector on the toolbox harness.



**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.



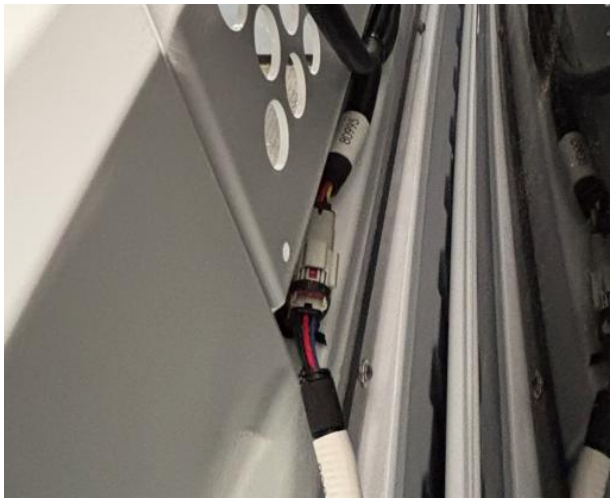

**Step 17:**

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:**

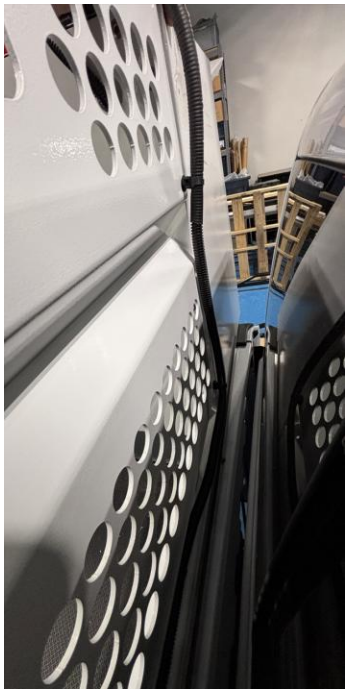
Once both toolboxes are complete, connect the toolbox harness to the cab harness.



**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.**



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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*


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## 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



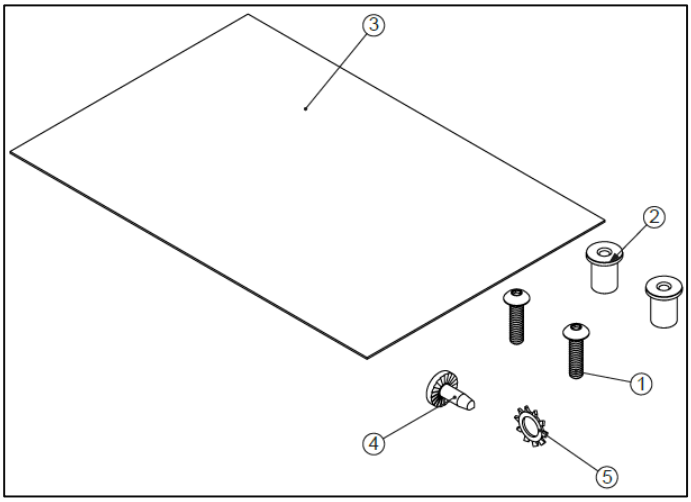
35353-0




80700




71680




BAG81366

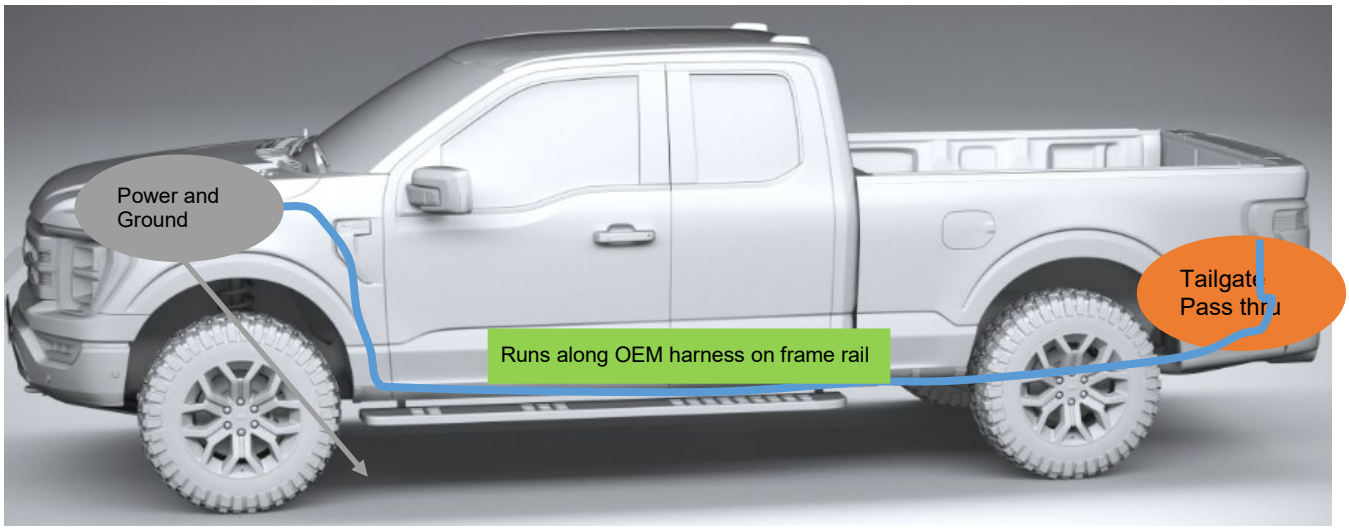
# Tools Needed




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

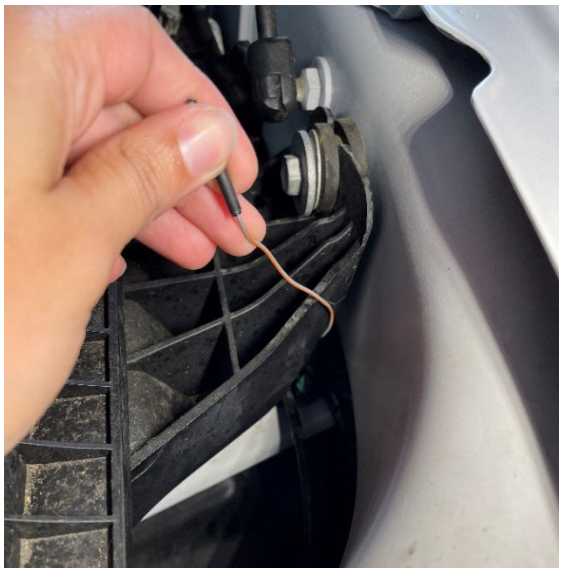
# Vehicle Specific Install Steps – Ford F-150






# 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.

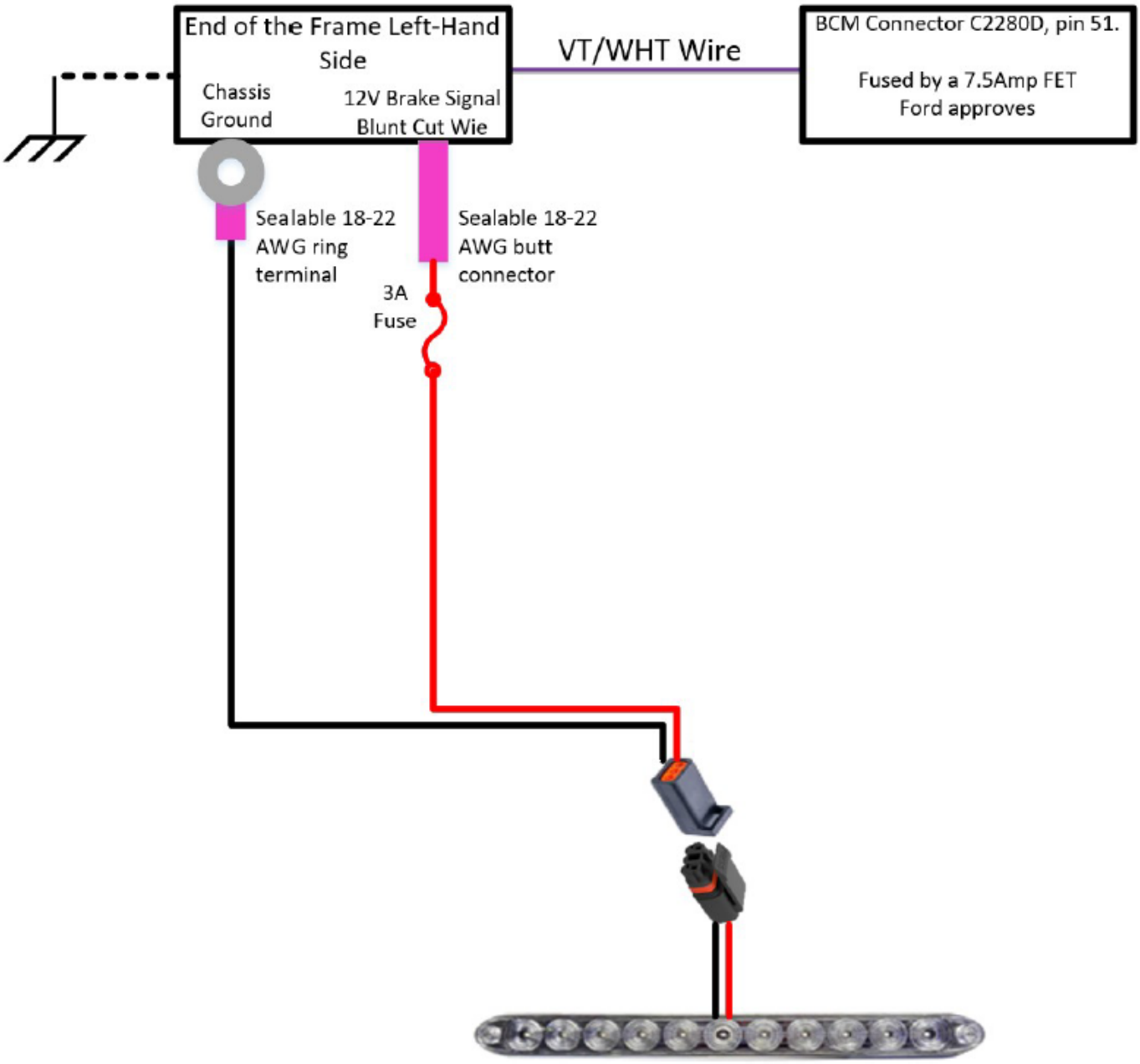
**Step 2:**
Open the hood of the F-150 and locate the OEM harness under the driver's side hood strut mount.

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.

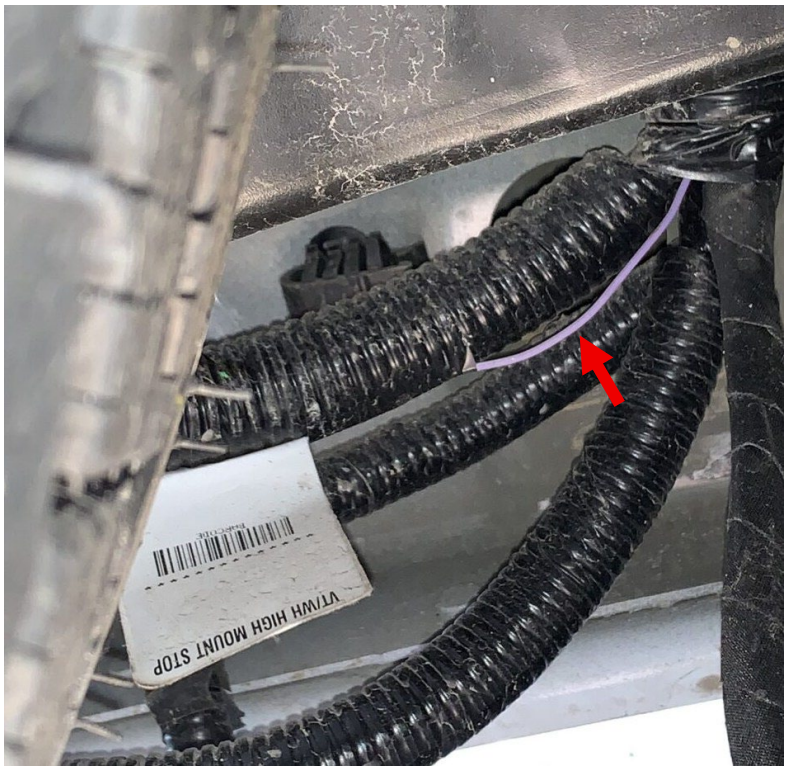
**Step 3:**
Back out the OEM ground screw and place the ring terminal from harness 71680 between the OEM ground point and the screw. Retighten the screw back in place.

# 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.

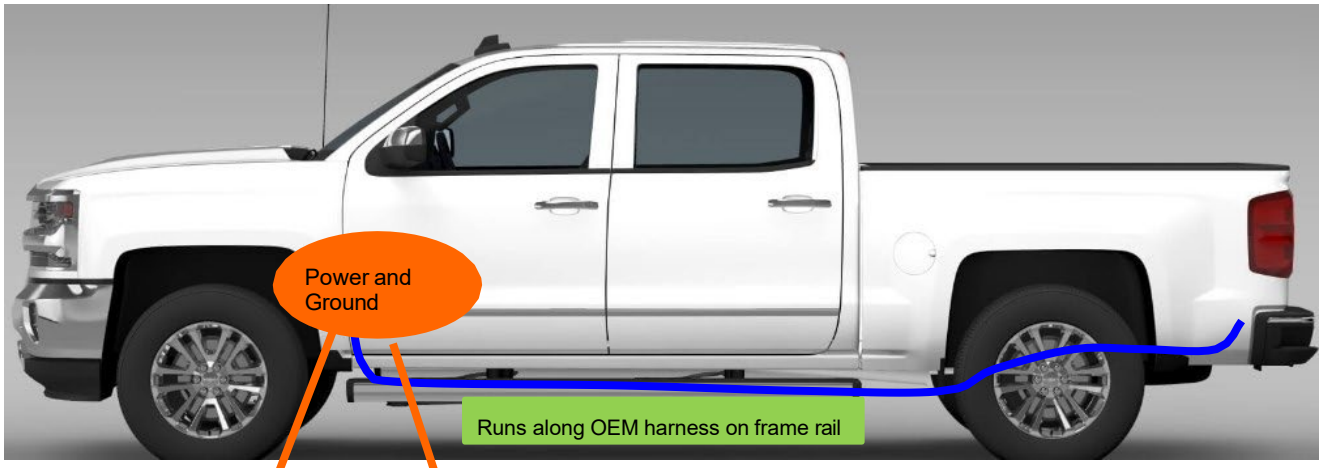
**Step 4:**
Using the self-tapping screw and star washer (see Page 5), screw the ground wire ring terminal to the vehicle.

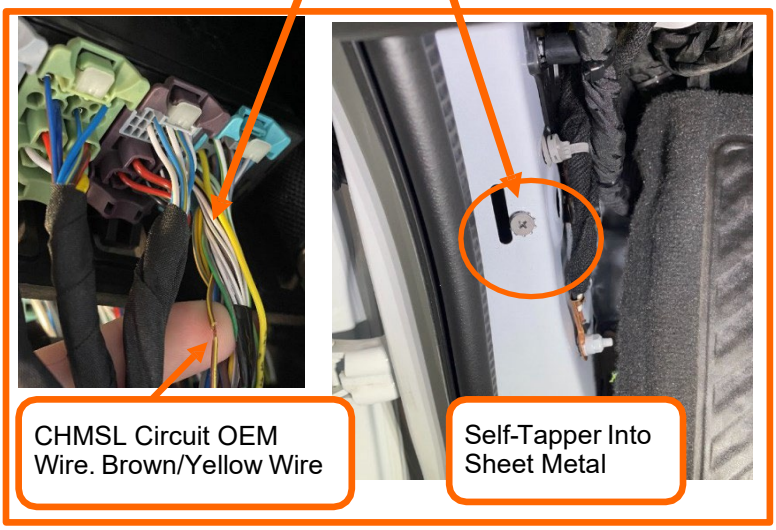
Be certain that self-tapping screw and star washer are on either side of the ring terminal and firmly tightened into the body sheet metal structure. It is advised to remove a small portion of the paint in that are to ensure good contact with the sheet metal ground. If the ground connection is loose or 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

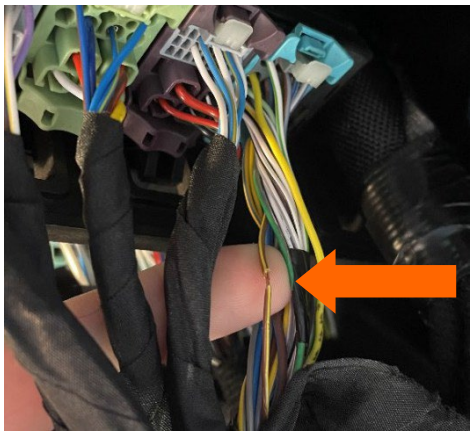


**Step 1:**
Locate the brake light harness 71680.

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.

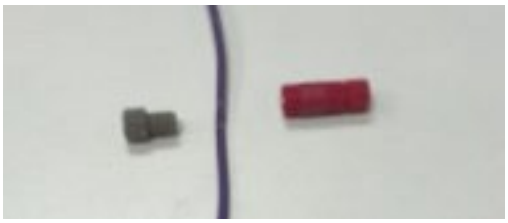
Locate the light blue connector (X5), pin 25. This wire will be Yellow/Brown. This is the OEM CHMSL circuit wire for the brake light. Use a meter to be sure this is the correct wire (OEM's tend to change wire colors).

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

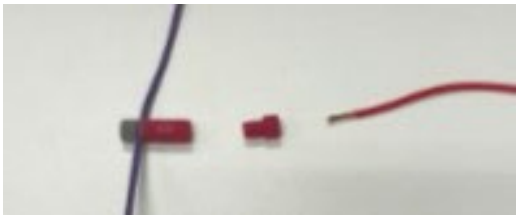
Locate the posi-tap in the brake light harness bag.

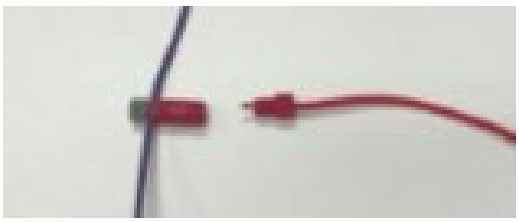
# Vehicle Specific Install Steps – Silverado

**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.

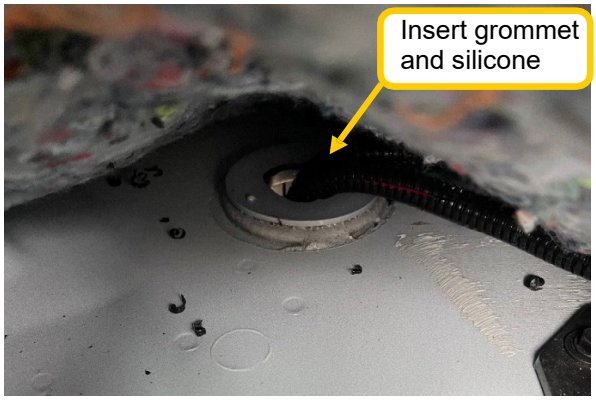
Locate the cut out that is higher on the frame than the OEM ground, shown in the picture to the left.

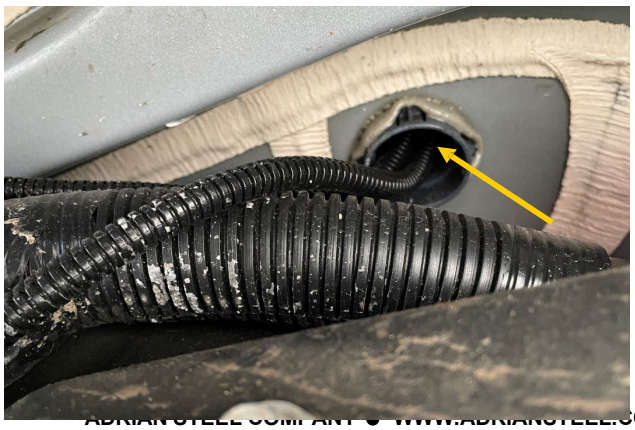
Locate the fastener bag BAG81366 and find the small tek screw and the star washer.

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.

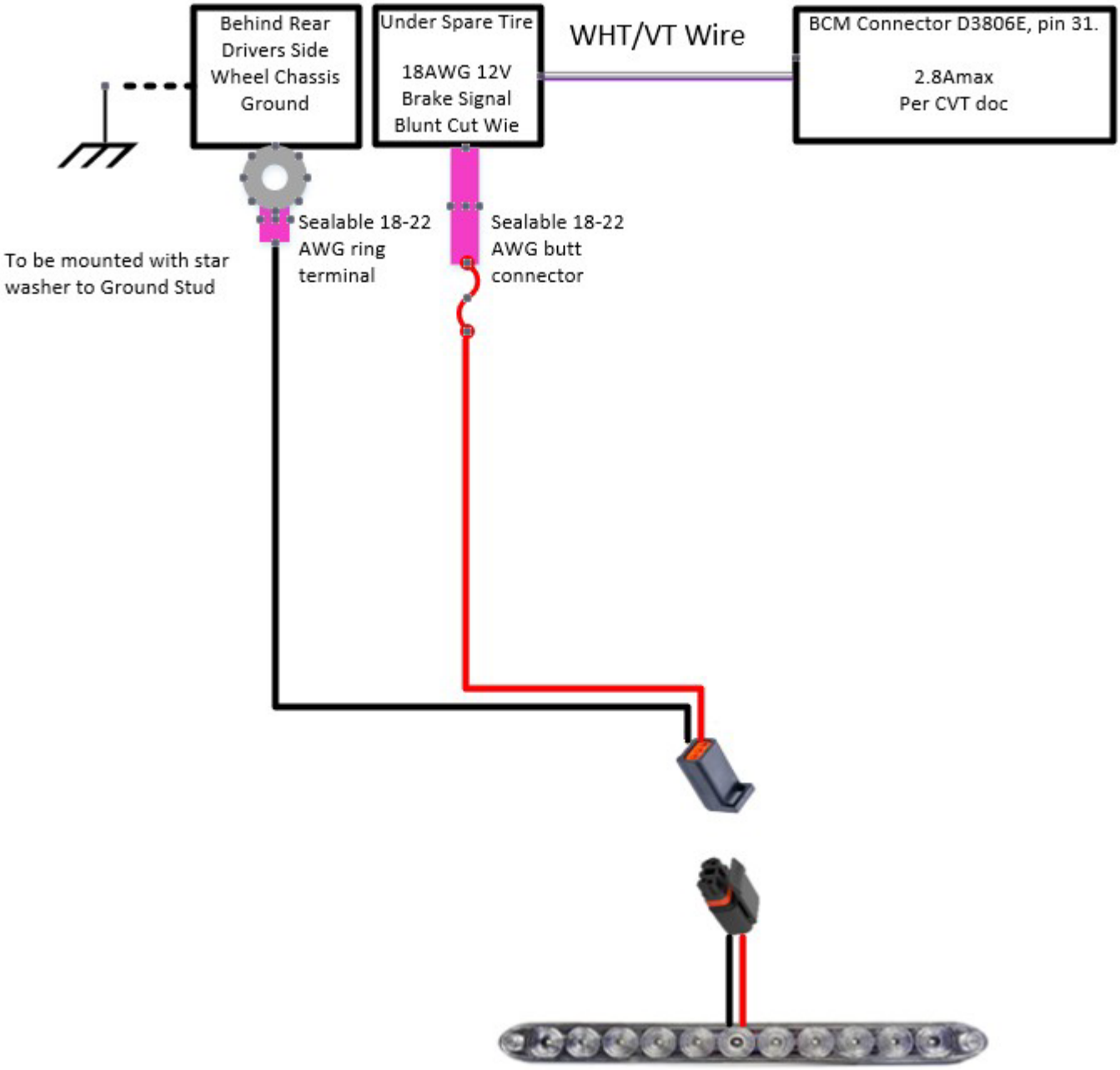
If installing the interior lighting kit as well as the brake light kit, utilize the larger grommet supplied in the brake light harness bag.

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.

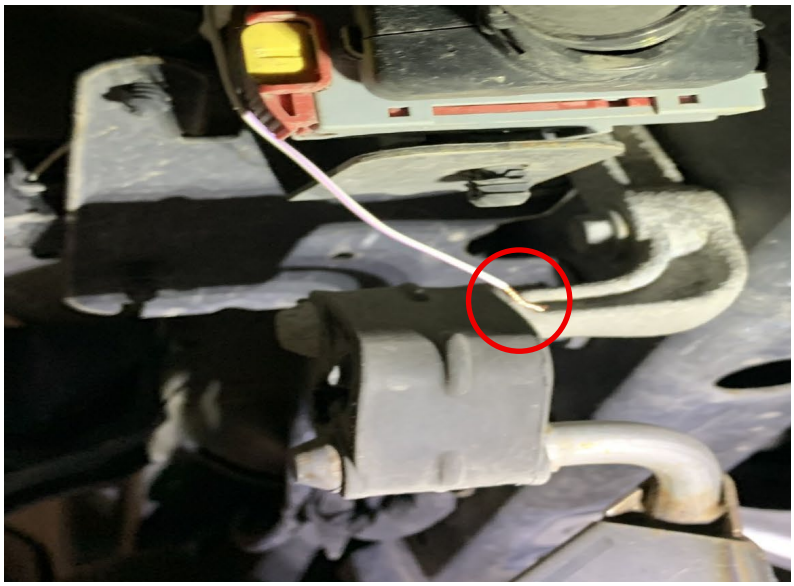
Look around the topside of the harness connections and follow the part of the harness that goes toward the center of the vehicle (towards the curb side) [See yellow arrow 1].

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.



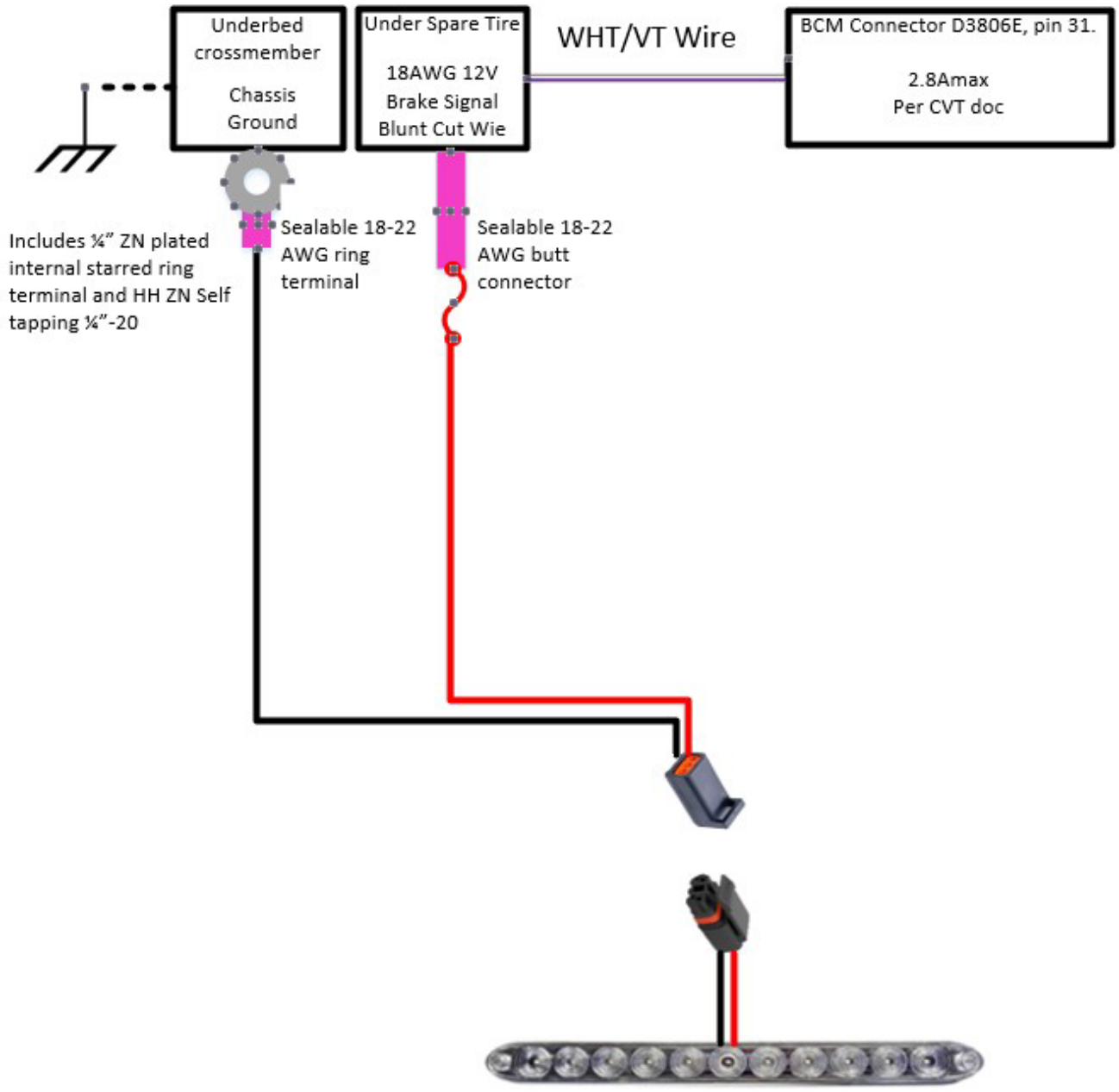
**Step 5:**
Alongside of the OEM harness, locate the OEM chassis ground located on the frame—forward of the CHMSL connection, but still aft of the street side rear wheel. Shown circled in red in the image to the left.

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

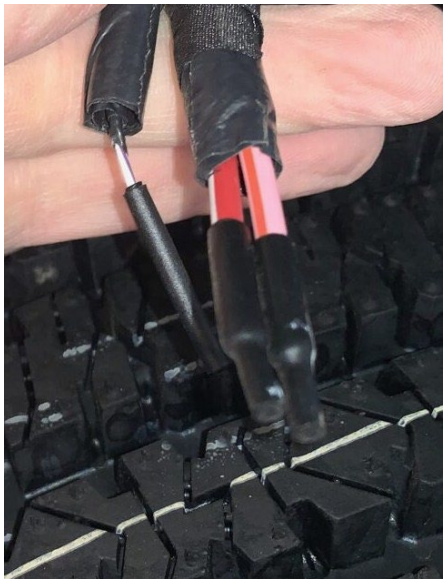


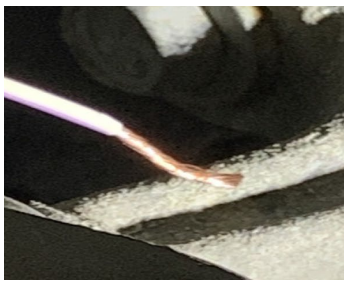

For MY23+ RAM 2500/3500 with 5.6', 6.3', and 8' Beds

# 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.

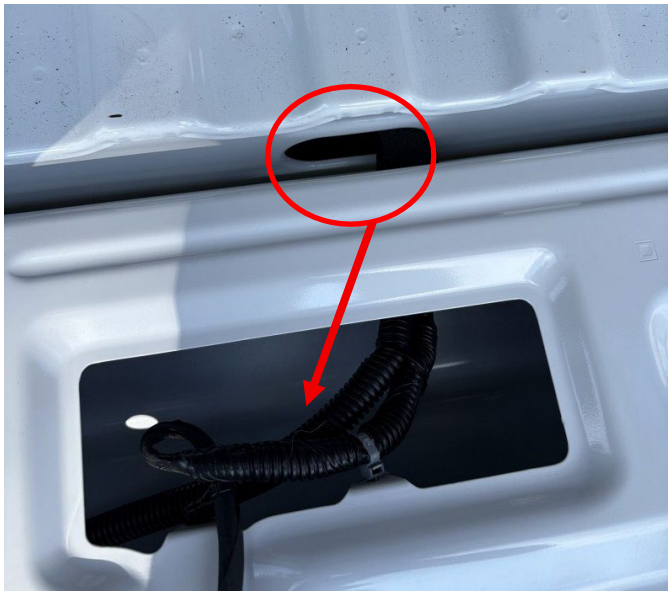
Route the harness between the bed and the tailgate, into the bottom of the tailgate.

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.

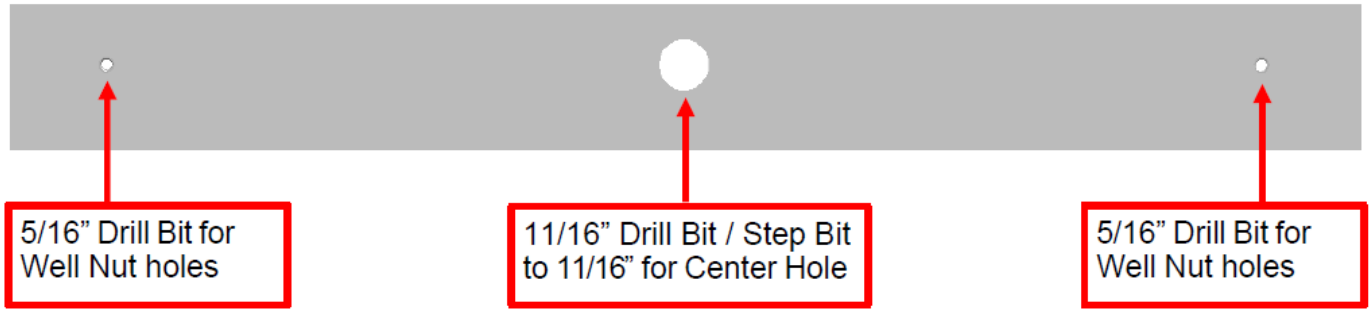
Secure the wiring with zip ties.

**DO NOT secure wiring to any brake lines.**



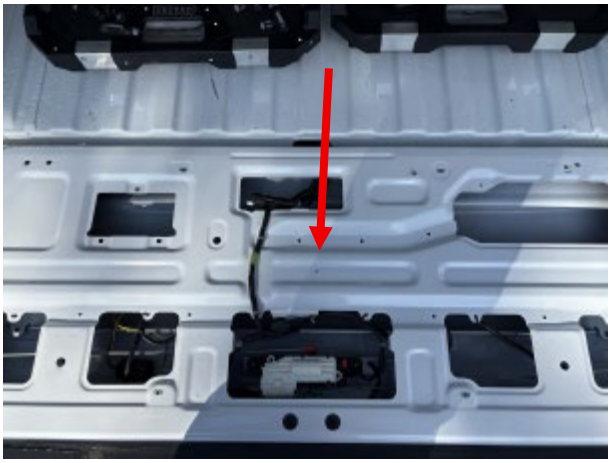





**Drill the middle hole centered and as high on the tailgate as possible while making certain the light sits flat on the tailgate. The light must be at least 34 inches about the ground, and cannot be tilted at more than a 10 degree angle.**

**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.**