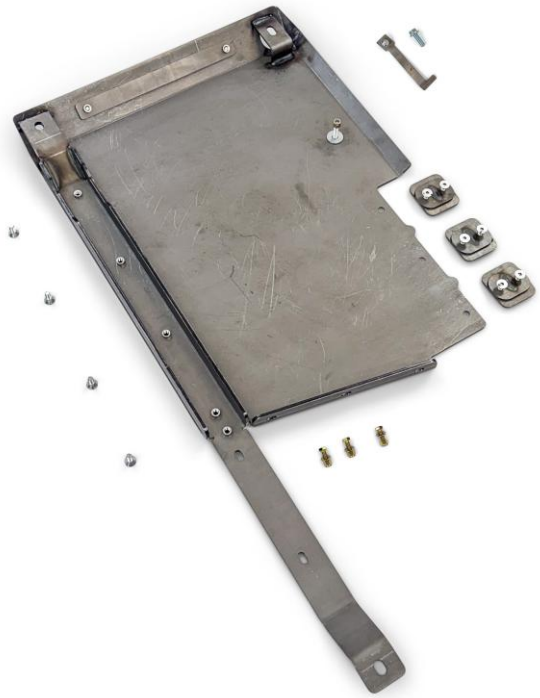
INSTALLATION MANUAL:

COR-4209300

Jeep Wrangler Transfer Case Skid Plate
Jeep JL 3.6L V6 / 2.0L I4 2018-2024+
Jeep JL 392 6.4L V8 2021+
Jeep JT 3.6L V6 2020+

CLAYTON OFF ROAD



DISCLAIMER

WARNING:

Suspension systems and their components are designed to enhance your vehicle's off-road performance. This may cause your vehicle to handle differently, on and off-road. Always wear your seatbelt and take extra care when driving a modified vehicle. Failure to do so can result in loss of control which may result in a rollover causing serious injury, or even death to the driver and/or passengers of the vehicle. Regular maintenance and consistent inspections are required to keep your modified vehicle safe and functioning properly. These suspension systems and any components should be installed by certified technicians only. Attempts to install these products without proper knowledge can lead to poor performance, or possible failure, which may jeopardize the safety of the vehicle and its passengers. The installer is responsible for proper installation ensuring a safe and properly functioning vehicle. Take extra care when operating a modified vehicle and thoroughly inspect your vehicle before and after every off-road use.

Read the instruction set in its entirety before attempting the installation.

NOTE:

This product may require general welding, fabrication, and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this product. Every vehicle varies slightly, and some fabrication and/or modification may be required.

ATTENTION:

It is the customer's responsibility to thoroughly inspect all received parts to ensure they are assembled correctly and fully welded. Please carefully examine all weld seams and verify that bolt-through holes are properly aligned. Some Clayton Off Road products are permanent, non-removable, weld-on solutions. **If a defect or issue is found after installation, especially with permanent weld-on components, it may be difficult or impossible to correct.** Inspecting the part(s) received beforehand helps prevent unnecessary and avoidable complications.

All Clayton Off Road products are engineered and tested on U.S. spec, left-hand drive vehicles. Compatibility with right-hand drive vehicles is not guaranteed. Customer verification is highly recommended to ensure proper fitment prior to purchase.

ATTENTION: TORQUE SPECIFICATION

When working on any vehicle, it is good practice to torque suspension/weight-bearing components while the vehicle is resting under its load. This instruction set, as well as any other Clayton Off Road instruction set, assumes the installer will tighten any suspension-related components properly, to the recommended torque specification, when the vehicle is resting safely under its own weight.

INCLUDED ITEMS

4209300 – Jeep Wrangler Transfer Case Skid Plate (3.6L V6 / 2.0L I4 JL/JT – 2018+, 392 6.4L V8 2021+,)			
QTY	Part Number	Description	Class/Grade
1	4209320	JL/JT Transfer Case Skid Plate ONLY	N/A
1	4209310	JL/JT T-Case Skid Plate Hardware	N/A
1	4209700	Jeep Skid Support Member	N/A
1	4209900	Jeep Skid Connection Brackets (Set of 3)	N/A

Product Notes and Features:

- 1/4” thick steel construction engineered using advanced CAD software and modern manufacturing techniques
- Shields the transfer case from high-rise obstructions during extreme off-road driving scenarios
- Full coverage design integrates with the OEM cross member, as well as an included support member
- Replaces OEM transfer case guard plate completely, minimizing weight/protection trade-off
- Countersunk hardware where it matters prevents unnecessary wear and tear
- No exhaust modification required
- All hardware included, ships raw steel

INSTALLATION INSTRUCTIONS

TOOLS REQUIRED FOR INSTALLATION

- *Basic hand tools*
- *Hex key set, 7/16"*
- *Metric wrench/socket set, 18mm, 13mm*
- *Standard wrench/socket set, 9/16"*
- *Adjustable long travel jack stand*
- *Vehicle lift*

*****Take this product to a licensed professional if you are hesitant about the installation process!*****

1. Begin by safely parking the vehicle on a shop lift. It is recommended that this installation be performed on a 4-post lift; however, it can be done on a 2-post lift with additional care. The figure below shows the vehicle set up and ready to be raised to a safe working height. **The new skid plate is heavy, so recruit a friend or use an adjustable long-travel jack stand to aid you in the installation.**

Figure 1: 2018 Jeep JL ready for installation

INSTALLATION INSTRUCTIONS

2. With the vehicle raised into the air, remove the OEM engine skid and the transfer case guard that straps under the OEM gas tank skid plate. Use the diagram below to locate which bolts to remove. Put all hardware aside, as most of the bolts will be reused. **Note that if you have already installed our Front Long Arm Kit for JL/JT, the OEM engine skid will not be present.**

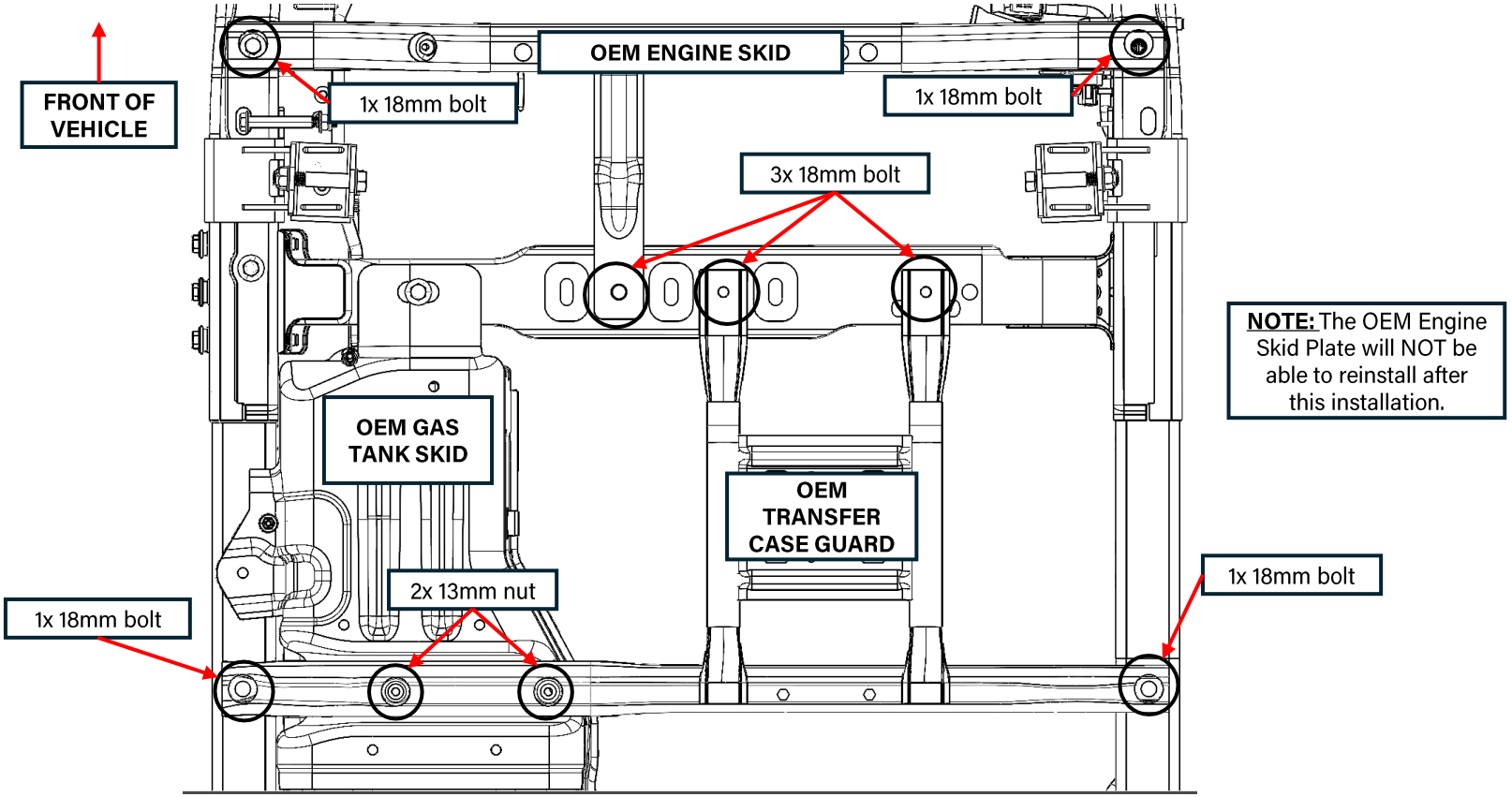


Figure 2: Underside view of OEM gas tank skid plate, transfer case guard, engine skid plate, and cross member with bolt locations to remove

INSTALLATION INSTRUCTIONS

3. Install the 3 cross-member components (COR-4209900) into the OEM cross-member. Slide the inserts into the three rectangular slots in the cross member. See the figures below. Note that the inserts do not cover the cutouts completely. This allows for the adjustment of misalignment when starting the bolts. **Do not install the new skid plate yet! Continue to Step 4.**

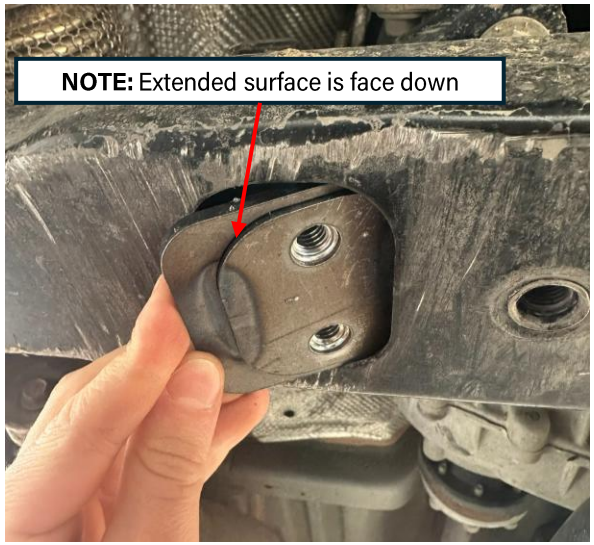


Figure 3: Installing cross-member components (Steel cross member)

Figure 4: Installing cross-member components (Aluminum cross member)

INSTALLATION INSTRUCTIONS

4. Loosely attach the new skid support member to the underside of the vehicle. Use x2 18mm bolts that were removed from Step 2 at either frame rail location. **If you are only installing the transfer case skid plate, the skid support member feeds underneath the OEM gas tank skid plate.** See Figure 5 below.

Do not tighten the bolts; simply leave the skid support loosely attached for now.

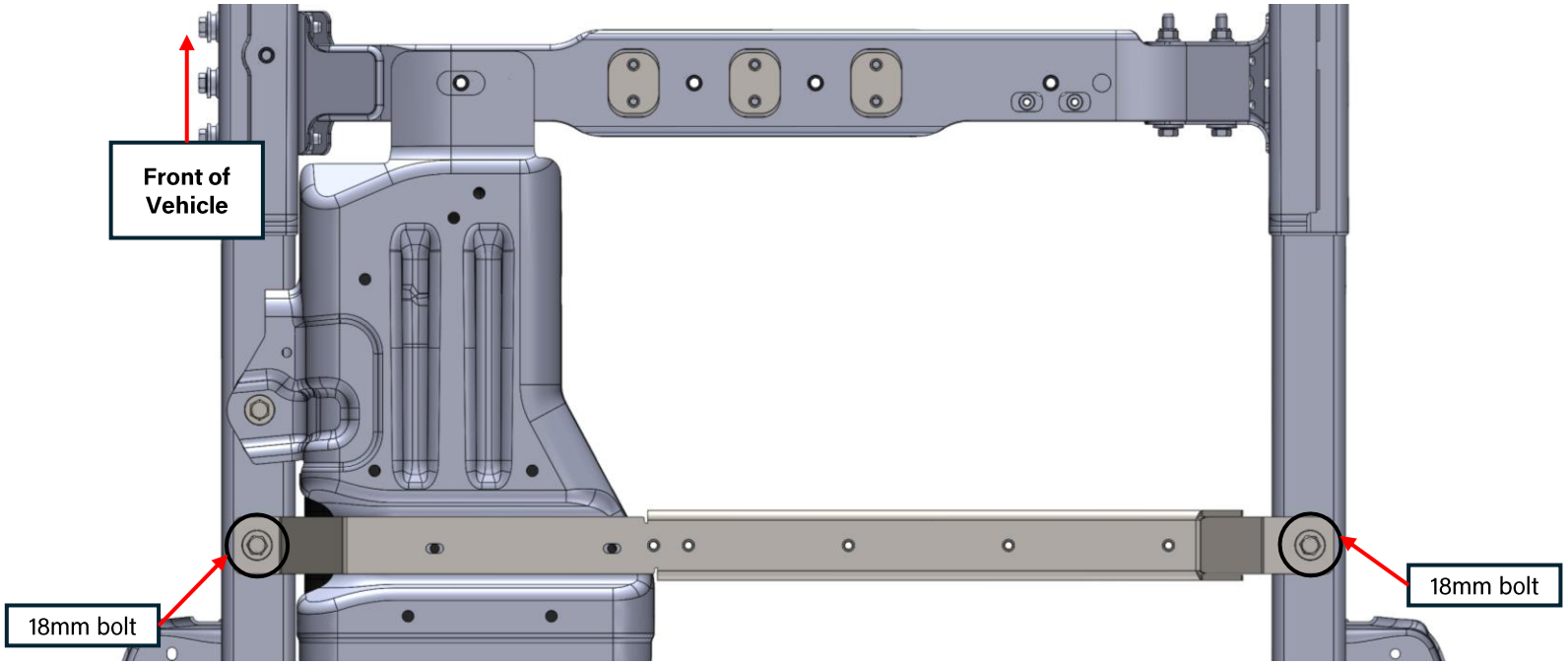


Figure 5: Skid support member loosely attached to frame

INSTALLATION INSTRUCTIONS

5. Loosely thread on the 13mm nuts (that were removed from Step 2) at small slots on the skid support member. Tighten the nuts just enough so that you can still slide the skid support member left or right. This is required to get the transfer case skid plate to mount in its proper position and to fine-tune fitment. **Before bringing the new skid plate into position, note that the frame bolt (circled below) needs to be removed to then be fed through the skid plate mount. See Figure 6 below.**

Do not tighten the bolts; leave the skid support loosely attached for now.

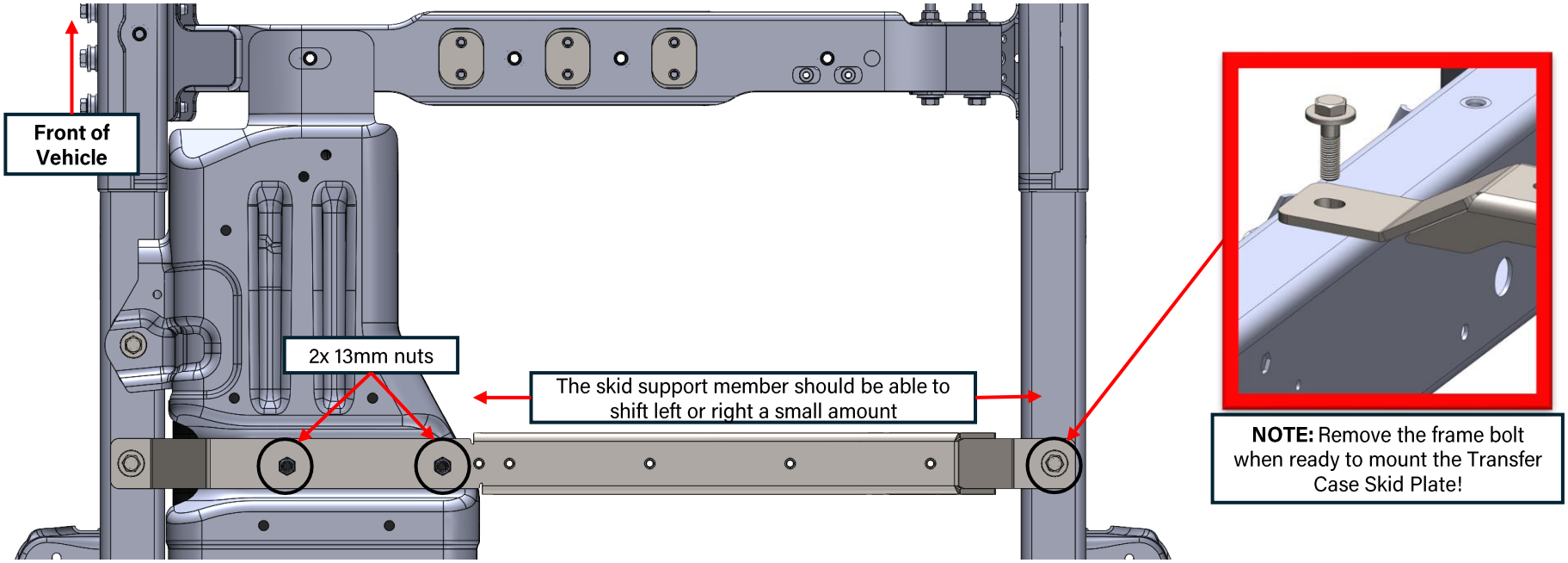


Figure 6: Skid support member loosely attached to frame

INSTALLATION INSTRUCTIONS

6. Lift the new transfer case skid plate into position. Loosely thread the 18mm frame bolt from Figure 6, followed by the x3 provided 3/8"-16 countersunk bolts at the cross member, as well as the x4 3/8"-16 countersunk bolts at the skid support member.

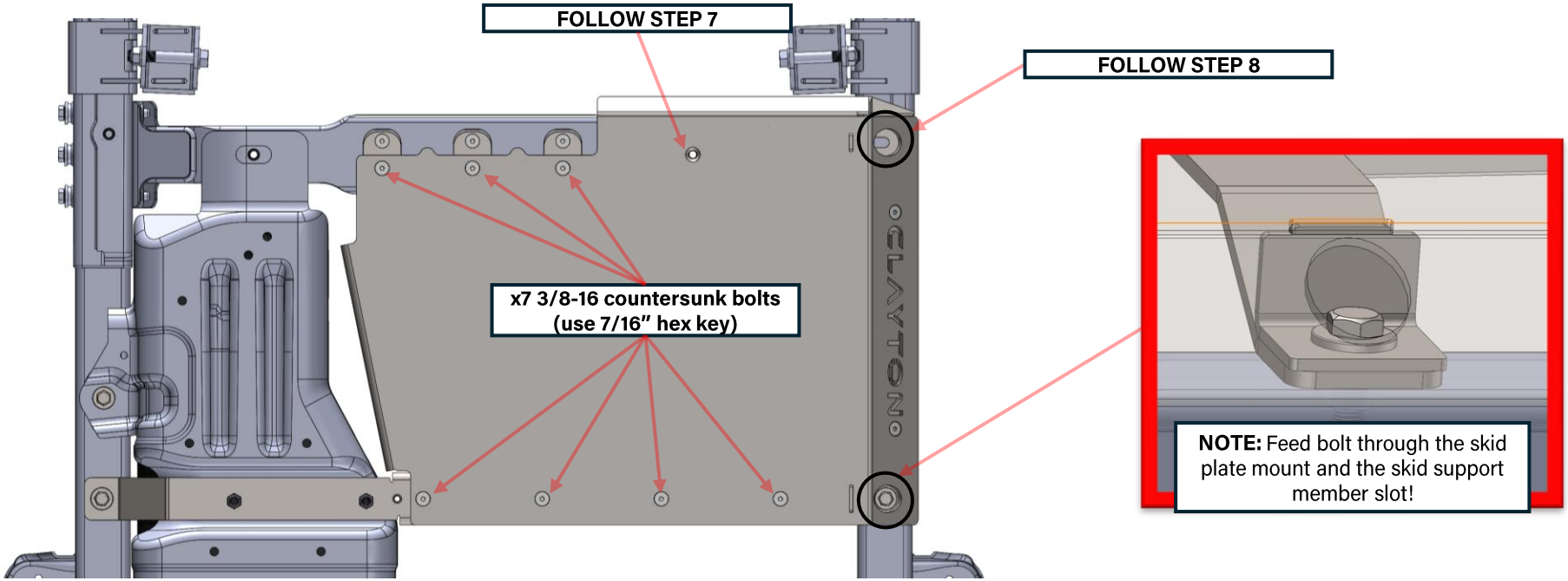


Figure 7: Transfer case skid plate with bolts started

INSTALLATION INSTRUCTIONS

7. Remove the x2 long exhaust hanger bolts using a 13mm socket to access the top slot above the cross member. **Note that the hanger may look different than Figure 8, depending on what vehicle you have.**

Insert the longer 3/8"-16 countersunk bolt through the bottom of the skid plate at the countersunk hole. With your other hand, carefully drop the oversized washer over the bolt shank through the access slot. **Note, the bolt will not thread into the internal nut-sert in the cross member, but rather feed through it.** Thread on the provided 3/8"-16 nylon nut, and tighten with a 9/16" socket and 7/16" hex key.

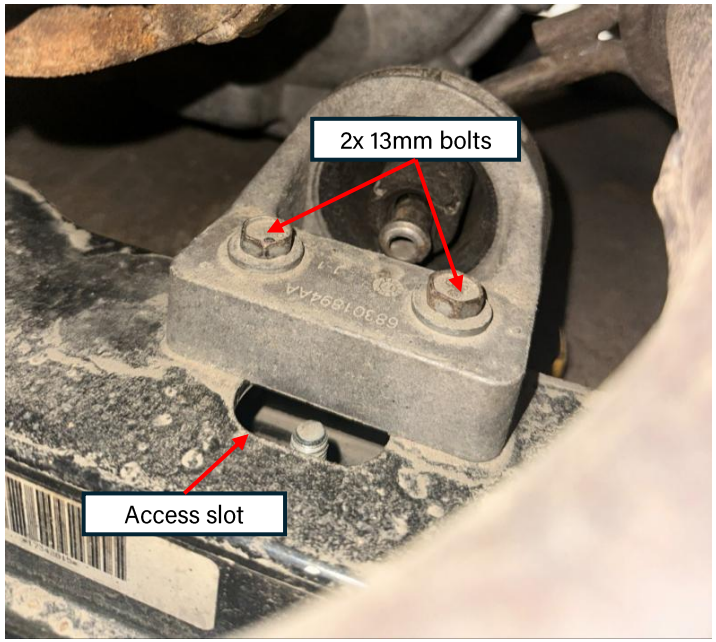
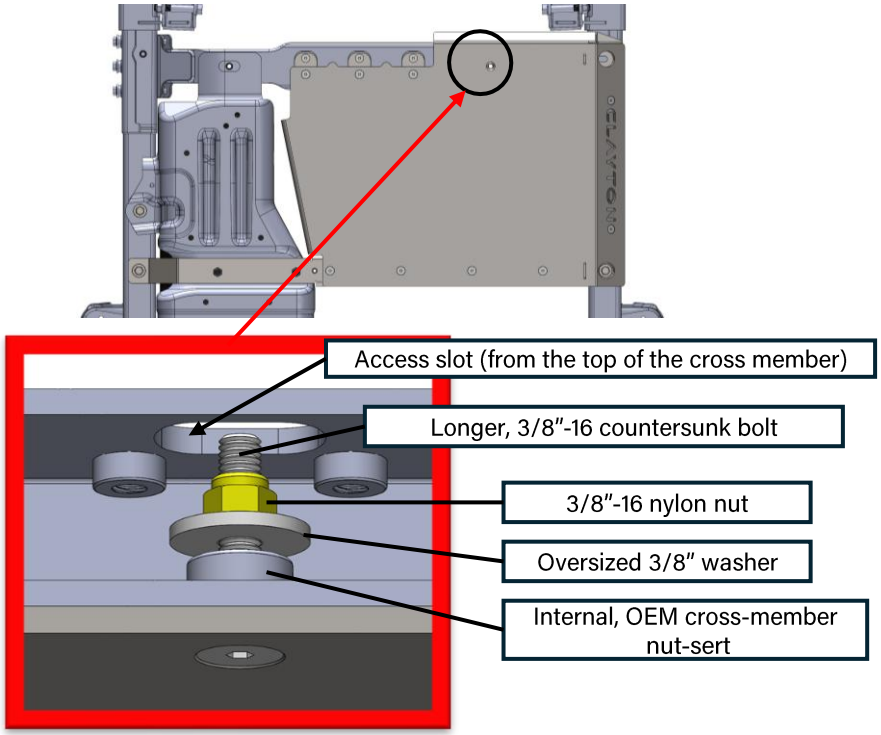
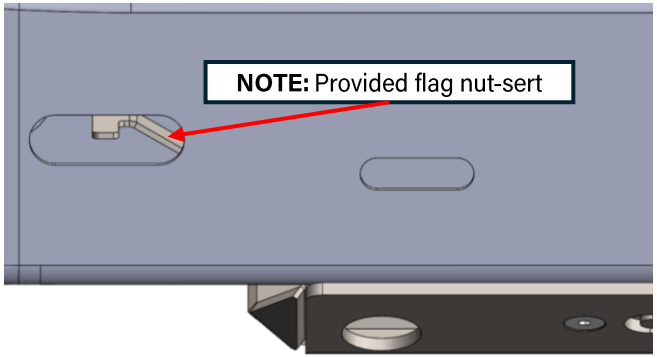


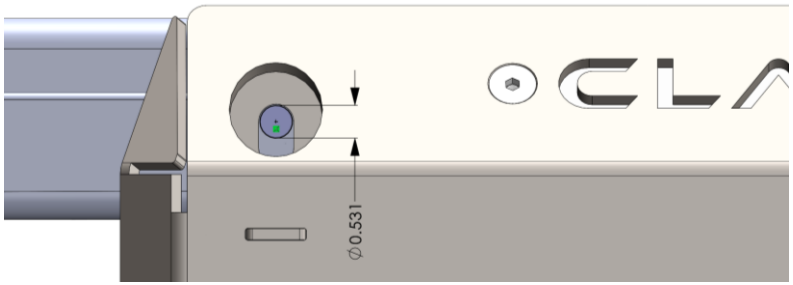
Figure 8: OEM cross-member access slot and exhaust mount to be removed



INSTALLATION INSTRUCTIONS

8. Use a 17/32" drill bit and drill a hole in the frame marked below. Try to locate the drill perfectly concentric with the curved part of the slot. See the photos below for reference. **You may choose to drill a pilot hole first using a 3/16" drill bit**. When the hole is drilled, ream/clean out the hole with a couple of passes. Then, use the provided flag nutsert along with 1/2"-13 serrated bolt to tighten. Feed the flagnut into the slot on the frame, and then line up the bolt up through the mount and through the drilled hole. Use a ¾" socket to tighten.





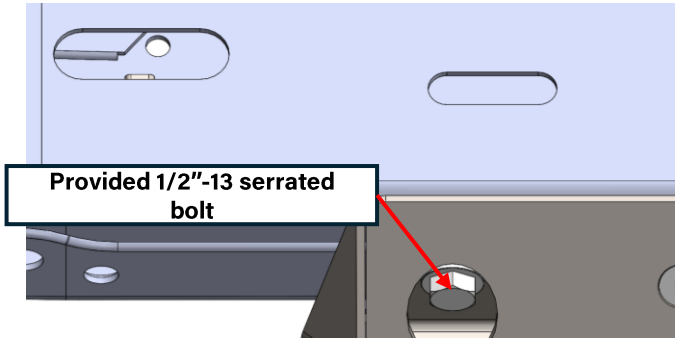


Figure 9: Drilling 17/32" frame rail hole for the provided ½"-13 serrated bolt and flagnut

NOTE: A more common, 1/2" sized drill bit is also acceptable; the bolt hole will be much tighter. 17/32" is the standard free-fit size for the provided ½" bolt.

INSTALLATION INSTRUCTIONS

9. **GAS TANK SKID PLATE NOTE:** **If you are installing the transfer case skid plate with the gas tank skid plate already installed, proceed with this step. If not, skip this step.** Use the x3 provided 3/8"-16 bolts, washers, and nylon nuts to fasten the gas tank skid plate and transfer case skid plate together. The seam is located on the inside of the skid plate, closest to the cross member and the front of the gas tank. This seam is easiest accessible from the back of the skid plate near the rear driveshaft. Use a 9/16" wrench/socket. Tighten all 3 bolts.

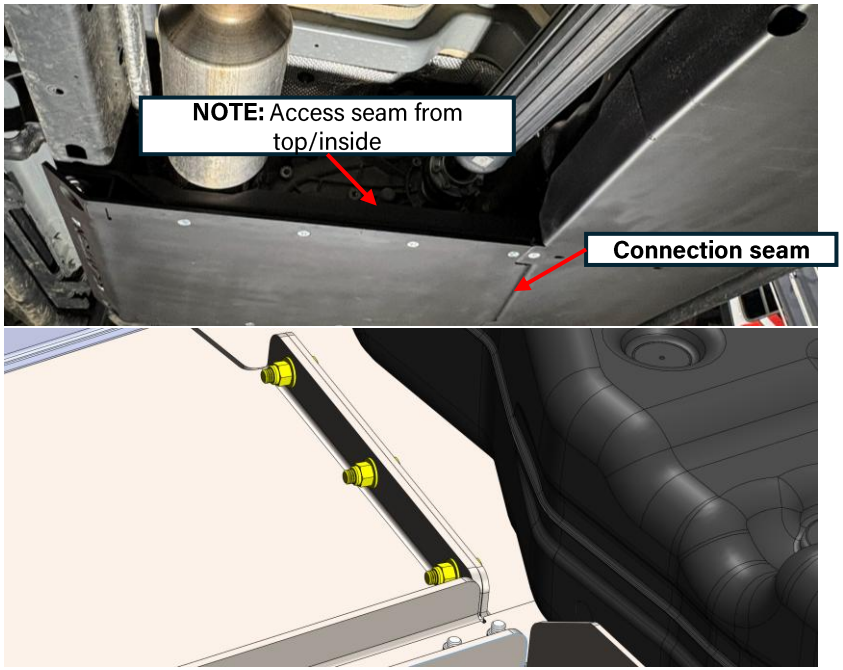


Figure 10: Connection seam to be bolted together using x3 3/8"-16 bolts

TIP: If you cannot feed the bolts through at the slotted seam, place a jack/bottle jack at the start of the bend to "prop" the holes into position. Slowly adjust the jackstand until you can feed the bolts through.

INSTALLATION INSTRUCTIONS

10. Proceed with Table 1 while referencing Figure 11. Tighten the transfer case skid plate hardware to the following specification. **Pay attention to the * notes at the bottom of the page.**

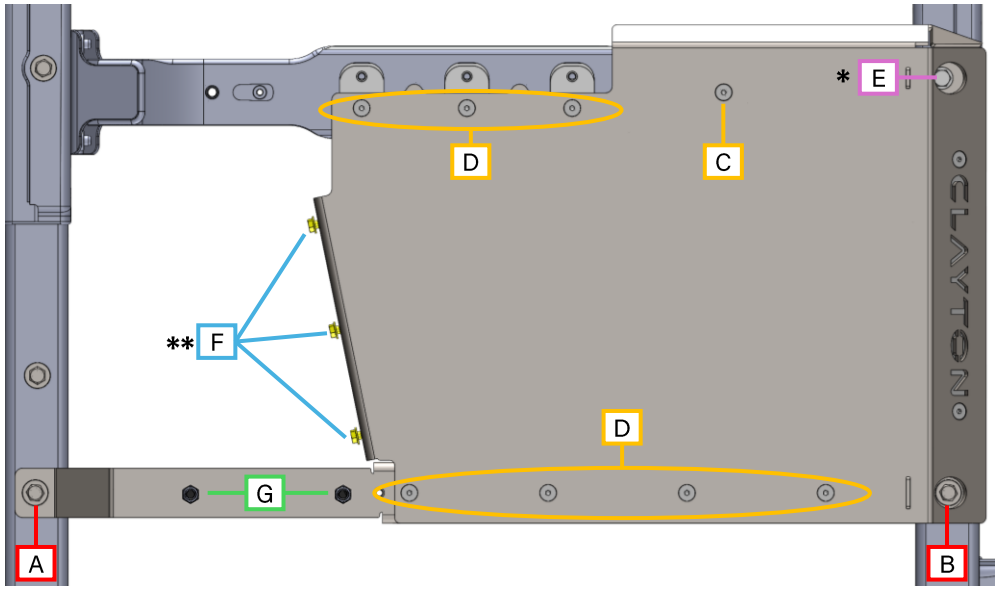


Figure 11 : bolt callouts on transfer case skid plate

Table 1: Torquing procedure for transfer case skid plate hardware

BOLT ID	QTY.	DESCRIPTION	TORQUE (ft-lb)	TOOL SIZE
A,B	2	OEM frame bolts	48	18mm
C	1	3/8”-16 x 2” Countersunk bolt and nut	25	9/16” + 7/16” hex
D	7	3/8”-16 x 1” Countersunk bolt	25	7/16” hex
E	1	1/2”-13 x 1.5” Serrated bolt	75	3/4”
F	3	3/8”-16 x 1-1/4” hex bolt	40	9/16”
G	2	OEM T-case guard nuts	20	13mm

*** NOTE:** Bolt E is used at the drilled hole location from Step 8

**** NOTE:** Bolts F will only be used when joining the transfer case skid plate and gas tank skid plate together

INSTALLATION INSTRUCTIONS

11. Reinstall the exhaust hanger bolts on the top of the cross member at this time. Use a 13mm socket or a short ratchet wrench. Tighten them down at this time.

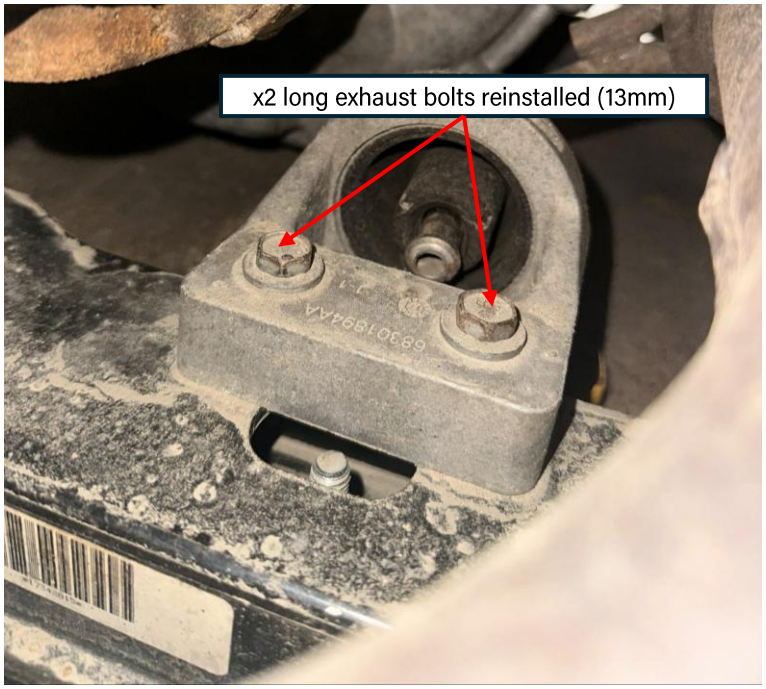


Figure 12: Reinstalled exhaust hanger

TIP: Clearance is tight when reinstalling these bolts. It is best to reach up above the cross-over exhaust pipe to then reinstall the bolts.

INSTALLATION INSTRUCTIONS

12. The new transfer case skid plate is installed. If you are also installing the Clayton Off-Road gas tank skid plate and/or engine skid plate, please visit the product page and download the instructions document for detailed installation guidance.

If you are only installing the gas tank skid plate at this time, please follow the post-installation checklist below. Please reach out to us if you have any questions or concerns.

POST-INSTALLATION CHECKLIST:

- ❑ All frame bolts are tightened down (factory, M12-1.5 hardware)
- ❑ The short, countersunk bolts at the skid support member and OEM cross member are torqued
- ❑ The long, countersunk bolt at the OEM cross member is torqued with the provided 3/8"-16 nylon nut and hardware
- ❑ Foam tape is applied to the skid support member to prevent rubbing (only applicable if installing in conjunction with Clayton Off Road Gas Tank Skid Plates)