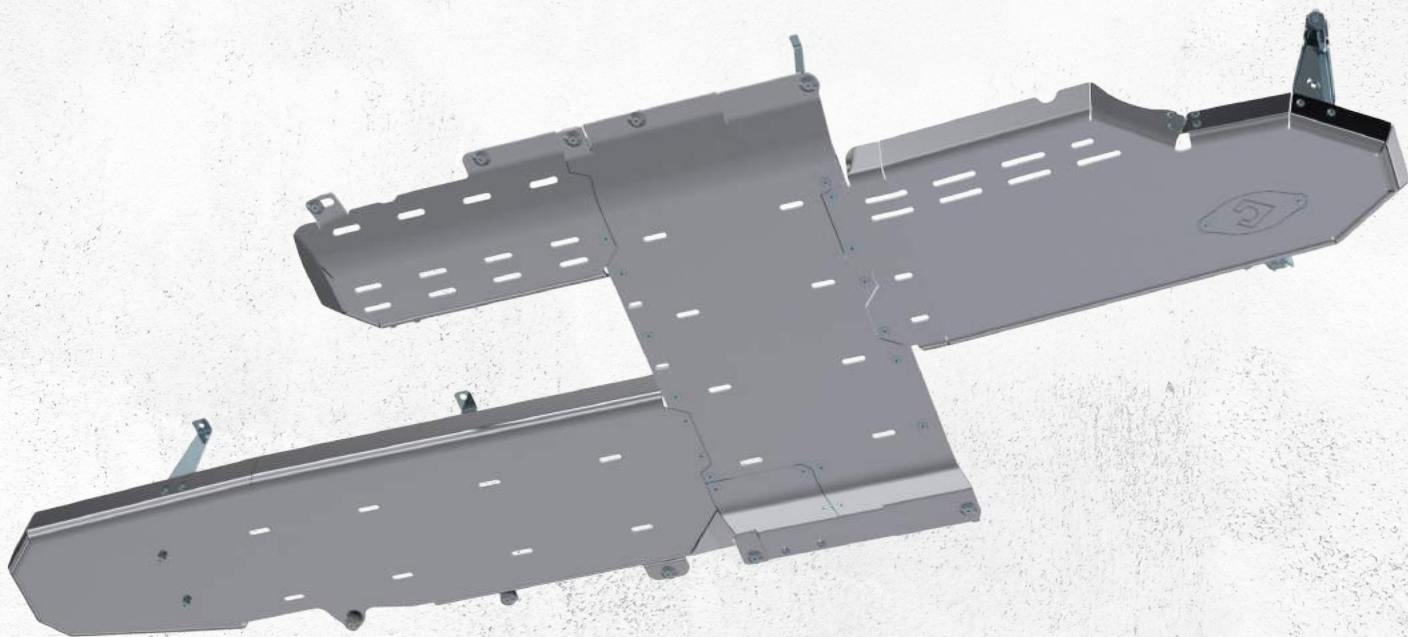




PART # JT4135

JT FULL BELLYPAN WITH OIL DOOR - GLADIATOR 3.0L DIESEL ALUMINUM INSTALLATION INSTRUCTIONS



ESTIMATED INSTALLATION TIME

3-5 hours

REQUIRED SKILLS

- General Mechanics Skills
- Drilling

REQUIRED TOOLS & SUPPLIES

- 18mm socket
- 17mm socket
- 16mm socket
- 15mm socket
- 13mm socket (deep well)
- 10mm socket
- Ratchet strap
- 9/16 wrench and socket
- 7/32 allen wrench
- ratchet extension 2"
- ratchet extension 6"
- screw driver
- flat pry bar
- safety glasses
- jack/vehicle lift (optional)
- ball end 7/32 allen wrench (optional)
- ratchet swivel attachment (optional)

NOTES:

- This kit replaces original SKU JT4130
- This product arrives in 4 separate boxes labeled BP1875.B, BP1711.A, BP1333.B, and BP1089.
- Component appearance in instructions may vary from those received

WARNING MESSAGES

This product demands a basic understanding of mechanical procedures and should only be installed by individuals proficient with mechanic's tools. Any tasks involving welding or cutting parts should be performed by trained professionals. Artec Industries disclaims responsibility for mishaps arising from improper installation, or any damage or accidents resulting from cutting or welding tasks. Exercise caution and seek professional help as required

SAFETY

1. We've furnished a written installation guide, along with relevant details, to aid you in making safety-conscious decisions.
2. While these guidelines will highlight potential risks, it's crucial to exercise your personal judgment when performing any required steps.
3. Before initiating any tasks, it's essential to conduct a job safety analysis to identify specific hazards in your situation and take measures to eliminate or protect against them.
4. Before commencing the installation of this product, make sure you familiarize yourself with and fully understand all safety warnings and guidelines.

DISCLAIMERS

All Artec Industries products should be installed by a competent, certified individual following the intended installation instructions for each product. Incorrect installations not only nullify any warranties but could also lead to product damage or even damage to the vehicle it's installed on. Prior to installation, carefully read all provided instructions or manuals, and watch any associated videos. For any doubts or queries, reach out to Artec Industries before beginning the installation process.

Many products necessitate lifting and supporting the vehicle off the ground. It is the installer's responsibility to ensure this can be done safely and that the right equipment is at hand to carry out the installation. Artec Industries installation instructions presume the installer is competent to lift the vehicle safely and correctly.

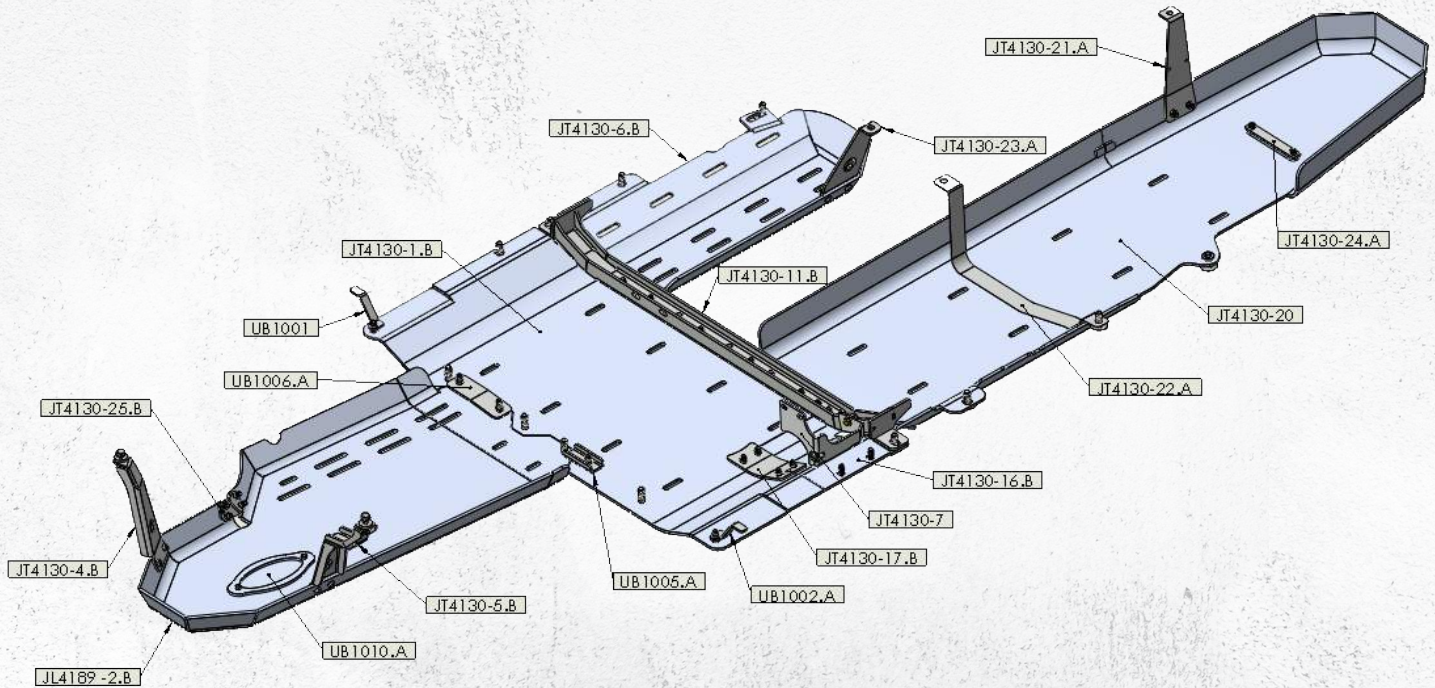
Modified vehicles won't perform identically to their stock counterparts. It's incumbent upon the vehicle owner to understand the alterations such modifications will bring to the vehicle's driving dynamics. These might encompass (but aren't limited to): changes in handling, braking, rollover angle, and potential incompatibilities with the factory-installed anti-lock braking systems, stability control systems, or traction control systems.

SPECIAL NOTES

- This product requires removal of the factory fuel tank skid which supports the plastic fuel tank. Prior to beginning installation, ensure that you have 1/4 tank of fuel or less in the vehicle.
- Unless otherwise noted, all hardware should be **LOOSELY** tightened by hand until the very end of installation when all components are attached.

JT4135 PARTS BILL OF MATERIALS

Please confirm you have all the listed parts below BEFORE beginning your installation. If any parts are damaged or missing, KEEP ALL ORIGINAL BOXES and PACKAGING and contact us.

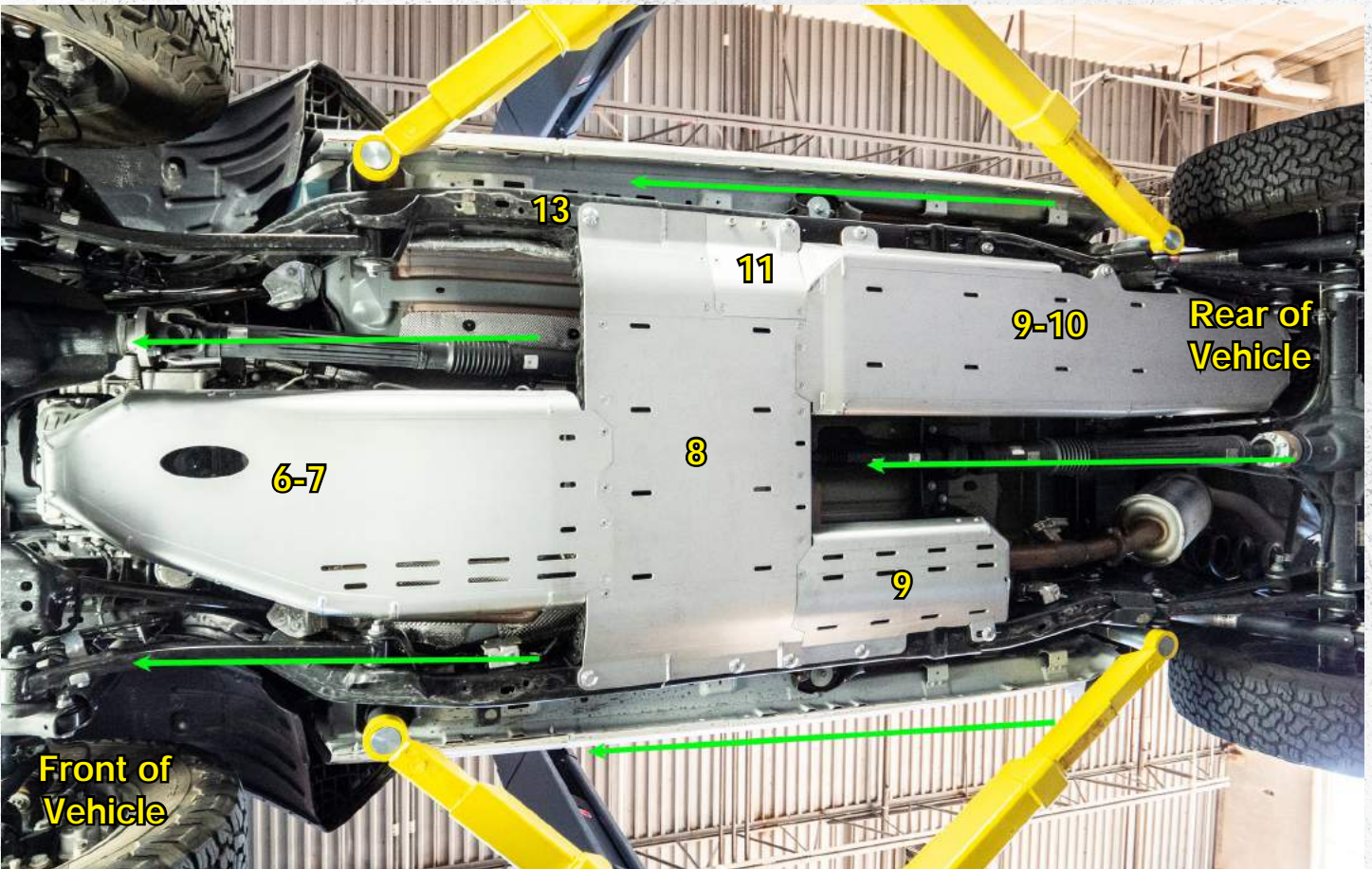


NOTE: The part numbers indicated above end in a "." and "letter" which indicate the revision number for the part. The etched part number on your physical parts do not need to match the above drawing revision exactly.

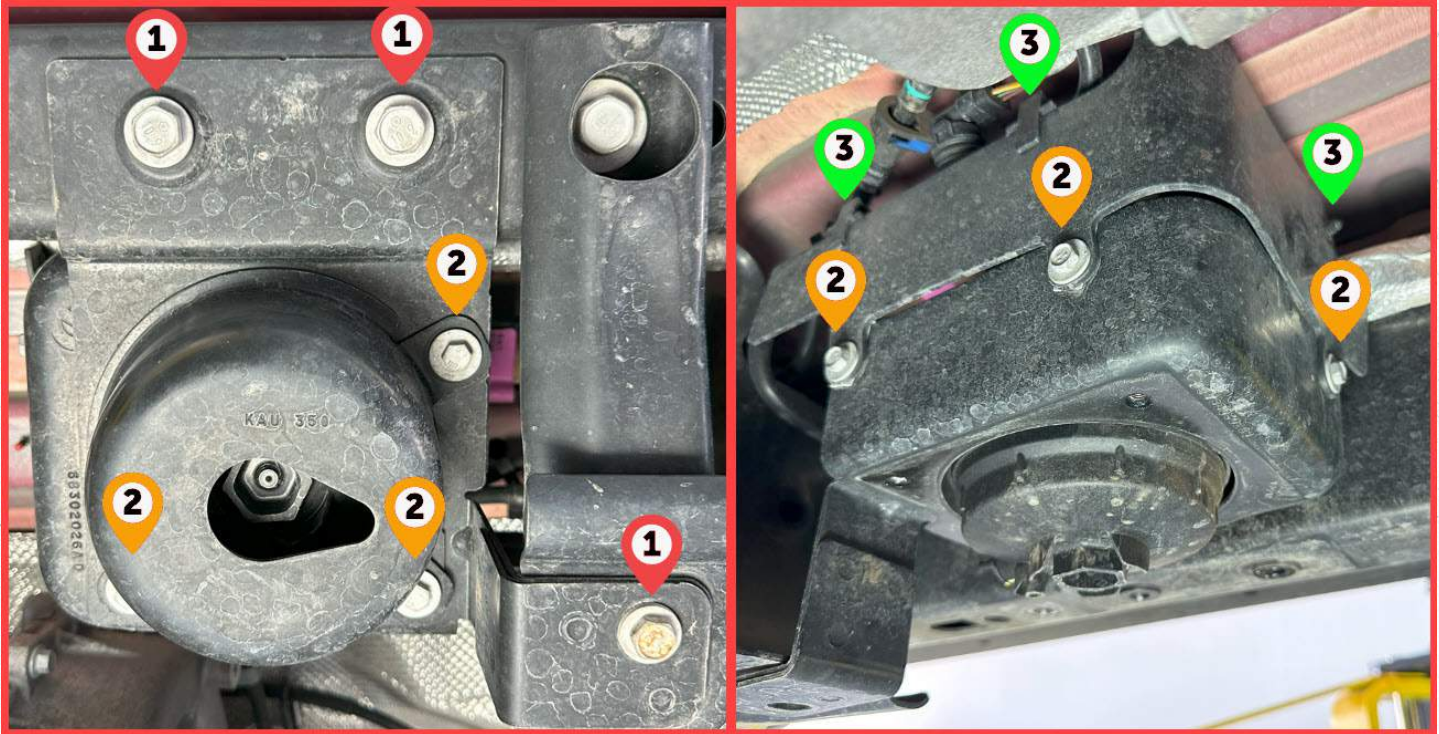
HK4130.C HARDWARE BILL OF MATERIALS

PART NUMBER	DESCRIPTION	QTY.
HW0035	3/8" 16 x .75" long button head screws ZINC plated	4
HW0058	3/8"-16 x 1.0" Long Grade 8 Hex Head Cap Screw Yellow Zinc	1
HW0059	3/8" Flat Washer Type 1 Yellow Zinc	1
HW0061	3/8 x 1 flat head bolt	12
HW0101	3/8 x 16 x 1 Button Head Cap Screw Alloy Steel Zinc Plated	8
HW0135	M10 x 1.5mm - Flange Lock Nut	2
HW0136	M10 - 1.5 x 40mm long Hex Head Bolt	2
HW0137	M10 washer	2
HW0141	CUSTOM M12 - 1.5 x 40mm long flat head	12
HW0147	.375" Countersunk Aluminum Washer	10
HW0185	3/8" x 1.5 Countersink Allen Head Bolt - Zinc	7
HW0202	M10-1.5x30mm,Button Head Hex Drive Screw	2
HW0215	1.15"x.25" Thick, .0415" Hole, Steel Spacer - ZINC PLATED	2
SP1005	Aluminum Spacer .4" thick, 1.0" OD, .52" ID	2

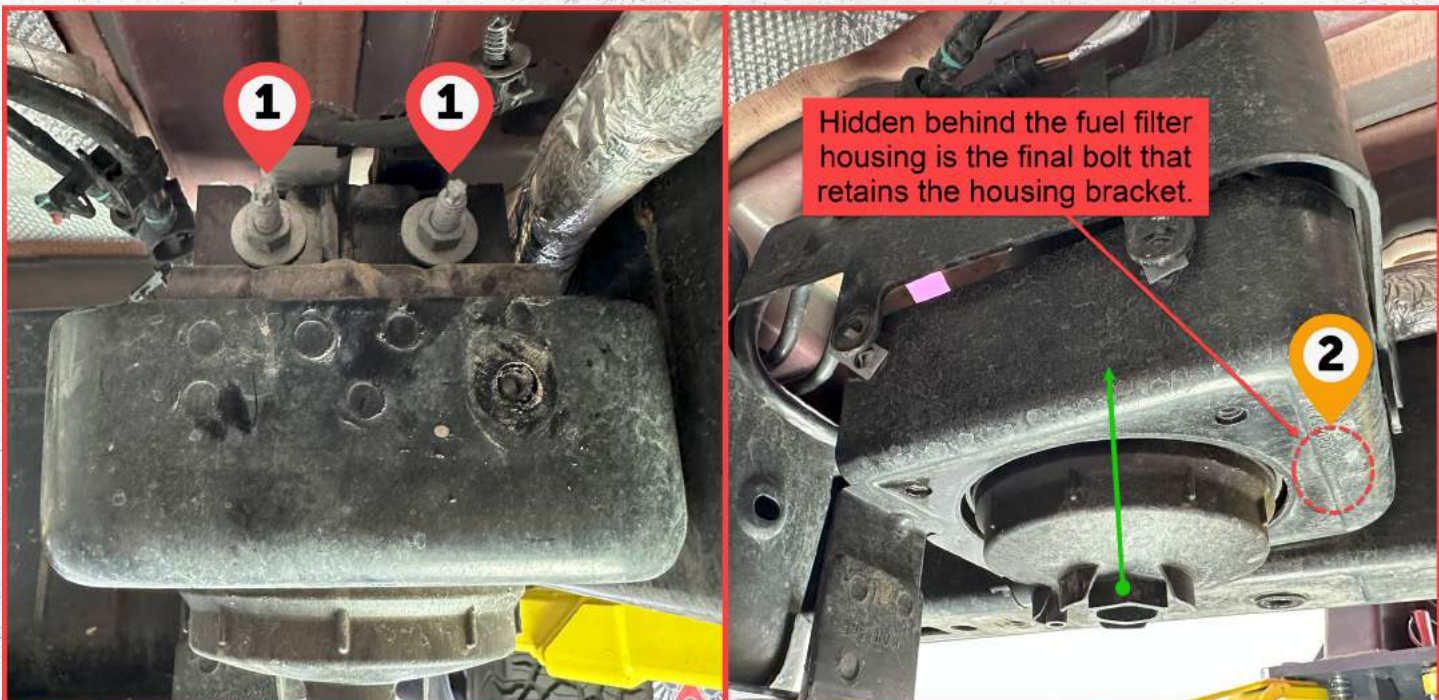
STEP LOCATION GUIDE



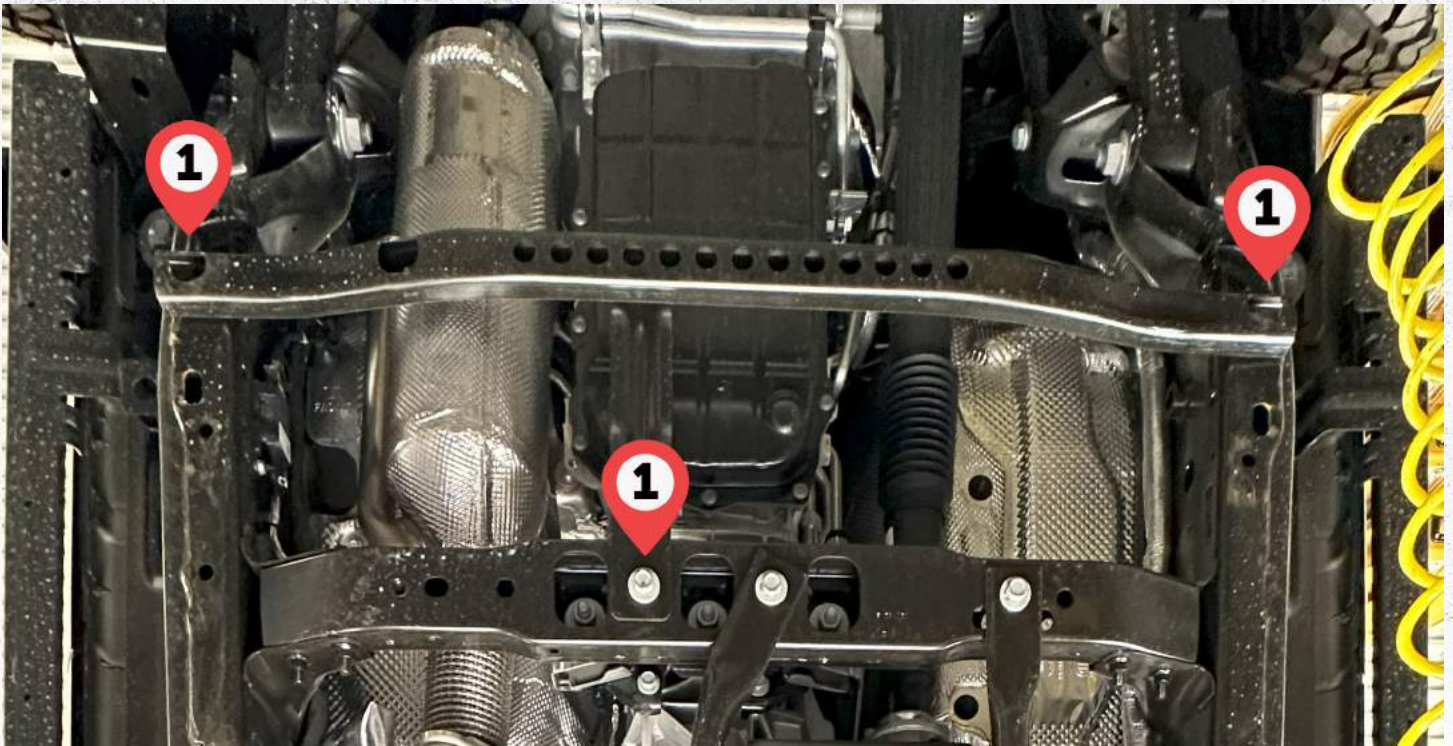
DISASSEMBLY INSTRUCTION GUIDE



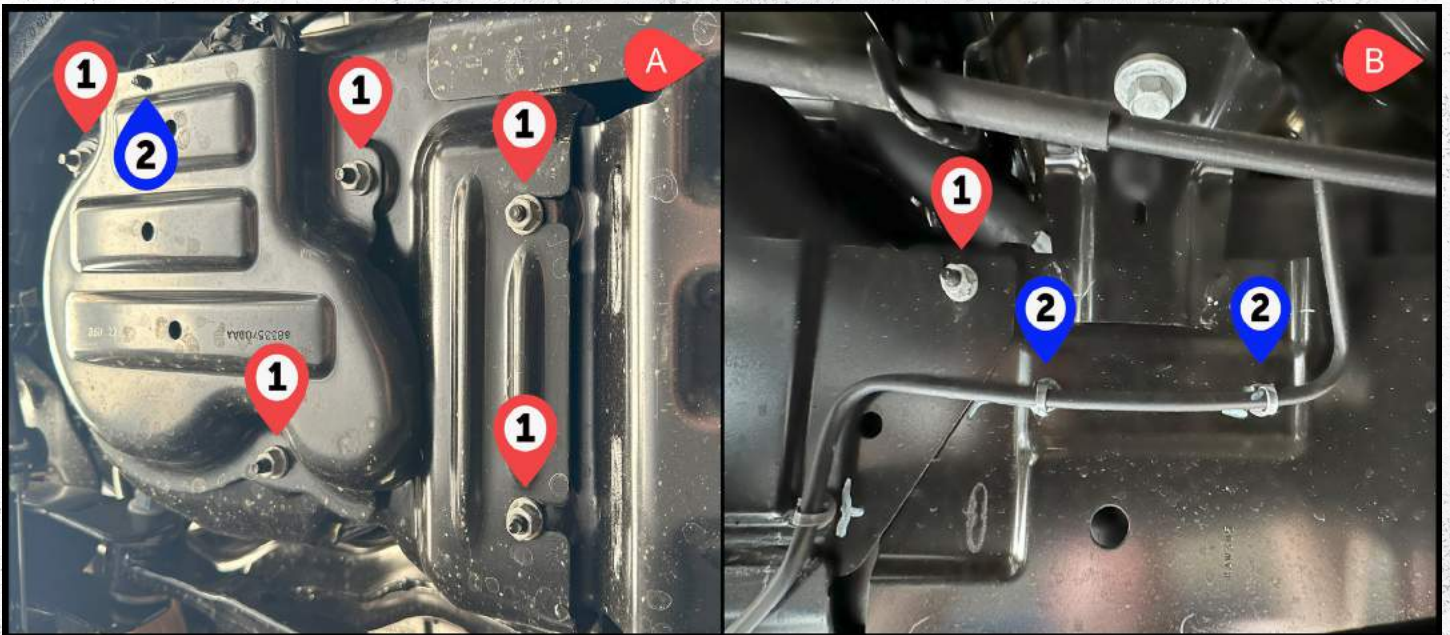
Step 1: From left to right: Disassemble the fuel filter skid by removing 3 – 8mm bolts ❶ using a 13mm socket AND 3 – 5mm bolts ❷ with a 10mm socket. Once the fuel filter skid is out of the way, remove the plastic shield by first disconnecting the plastic Christmas tree tabs ❸ from the plastic shield. Then remove 3 – 5mm screws ❷ using a 10mm socket. Keep 2x ❶ OEM hardware.



Step 2: Remove the fuel filter housing bracket by first taking the 2 – 8mm nuts ❶ off using a 13mm deep well socket. Once the fuel filter housing is free, push it upward far enough to allow access to the 1 – 8mm bolt ❷, using a 13mm socket. NOTE: having a swivel here makes removing that bolt easy.



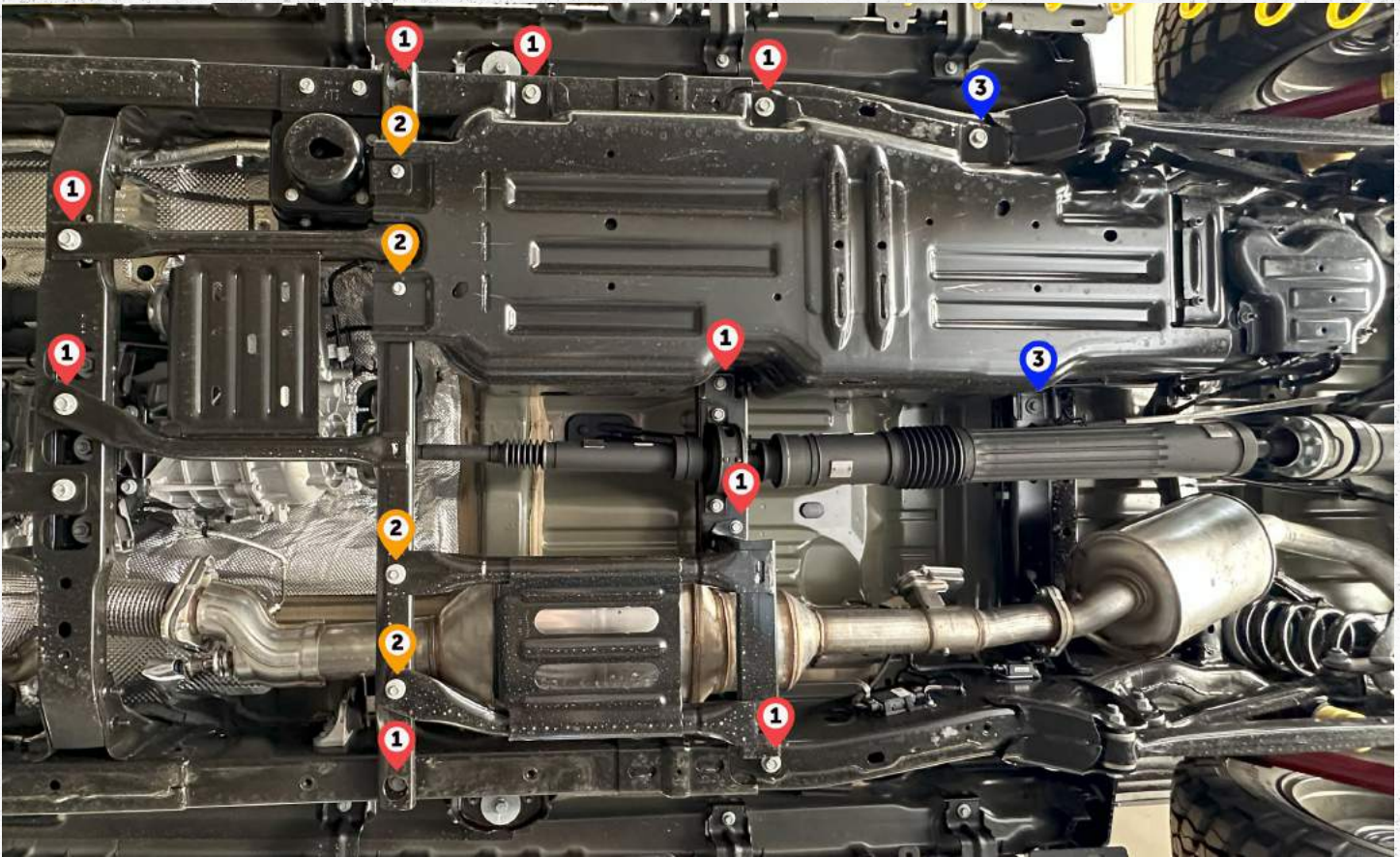
Step 3: Remove the transmission skid by removing 3 - 12mm bolts ❶ using a 18mm socket.



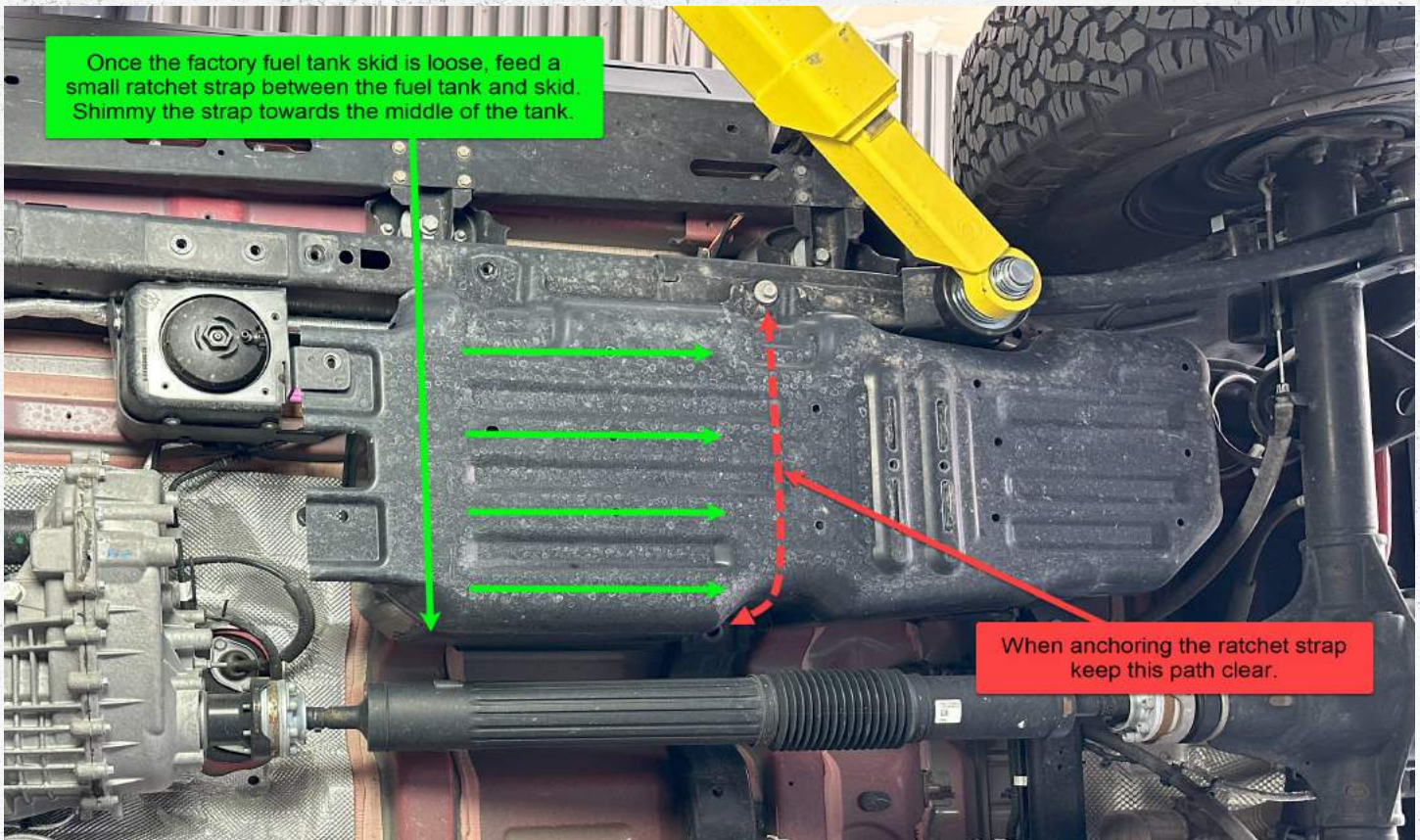
Step 4:

A: Remove fuel tank skid by removing 6 - 8mm bolts ❶ using a 13mm socket.

B: Detach the clips holding the fuel lines to fuel tank skid ❷

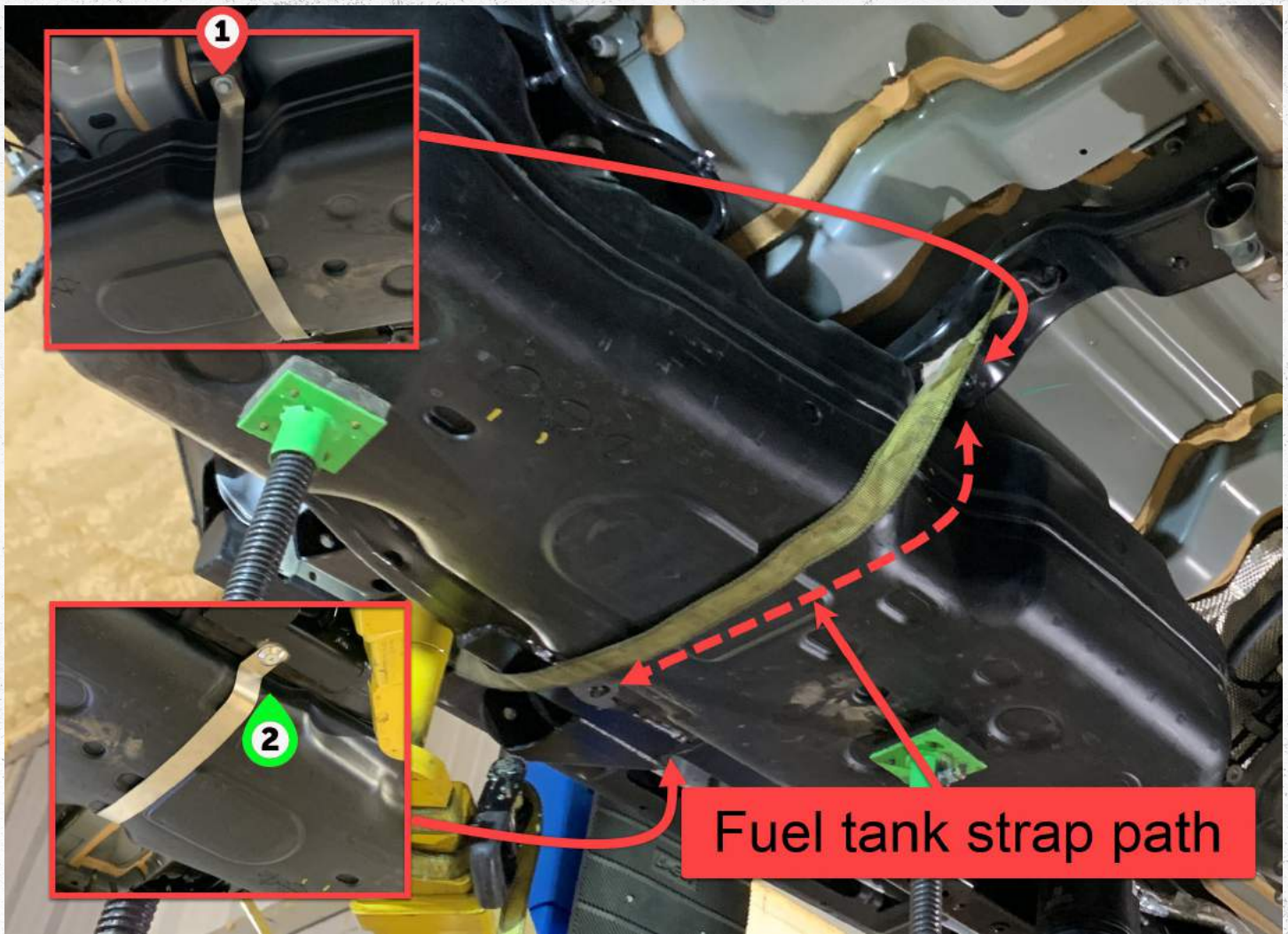


Step 5: Remove the transfer case & exhaust skid by removing 4 - 8mm bolts ② using 13mm socket AND 8 - 12mm bolts ① using a 18mm socket. Loosen but do not remove 2 - 12mm bolts ③ using a 18mm socket.



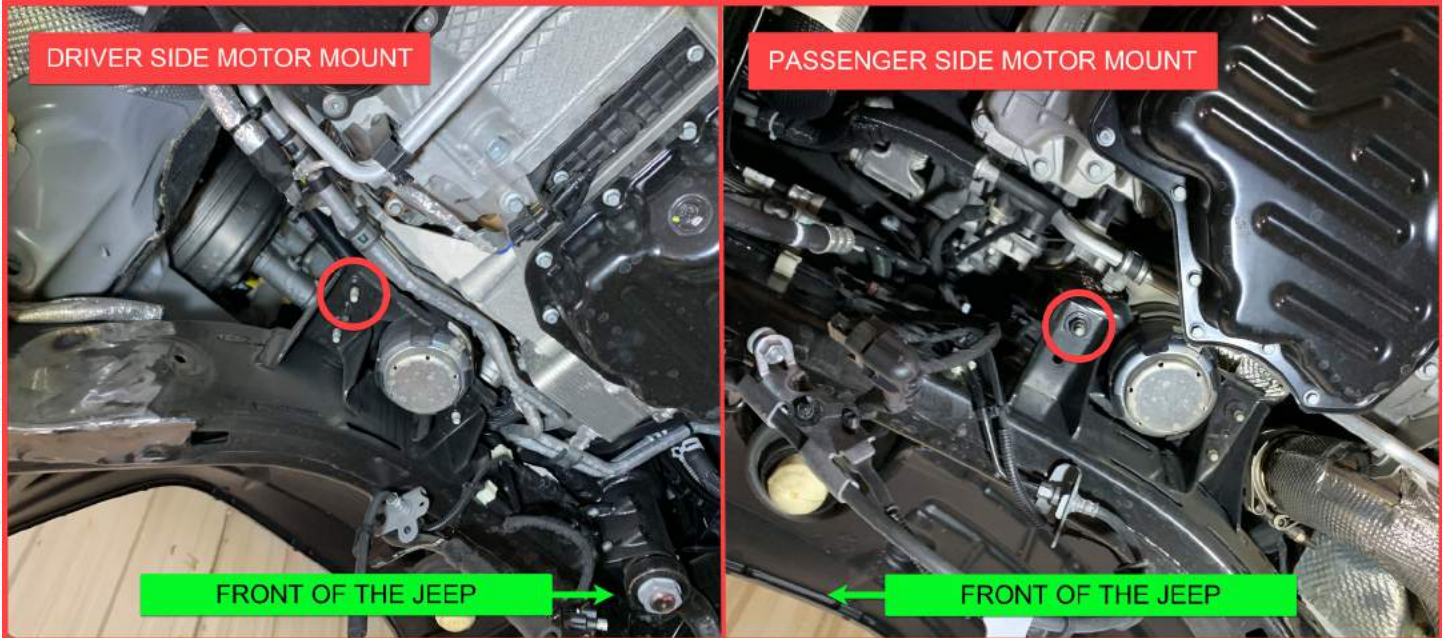
Step 6. Using a small ratchet strap you will suspend the tank so that you can remove the factory fuel tank skid. Make sure to anchor the ratchet strap to something substantial. After suspending the tank you can remove the fuel tank skid. This can take some time, and can be frustrating but it is necessary. For easiest removal, it helps to have less than 1/4 tank of fuel, as noted in the SPECIAL NOTES on page 2.

SAFETY NOTE: When manipulating the skid and fuel tank, be careful not to damage or puncture the fuel tank. The fuel tank skid can be heavy and awkward to drop. Have a second person assist or use a jack to support the skid as you remove it. Ensure the ratchet strap is securely holding the fuel tank in place before attempting to remove the skid plate.

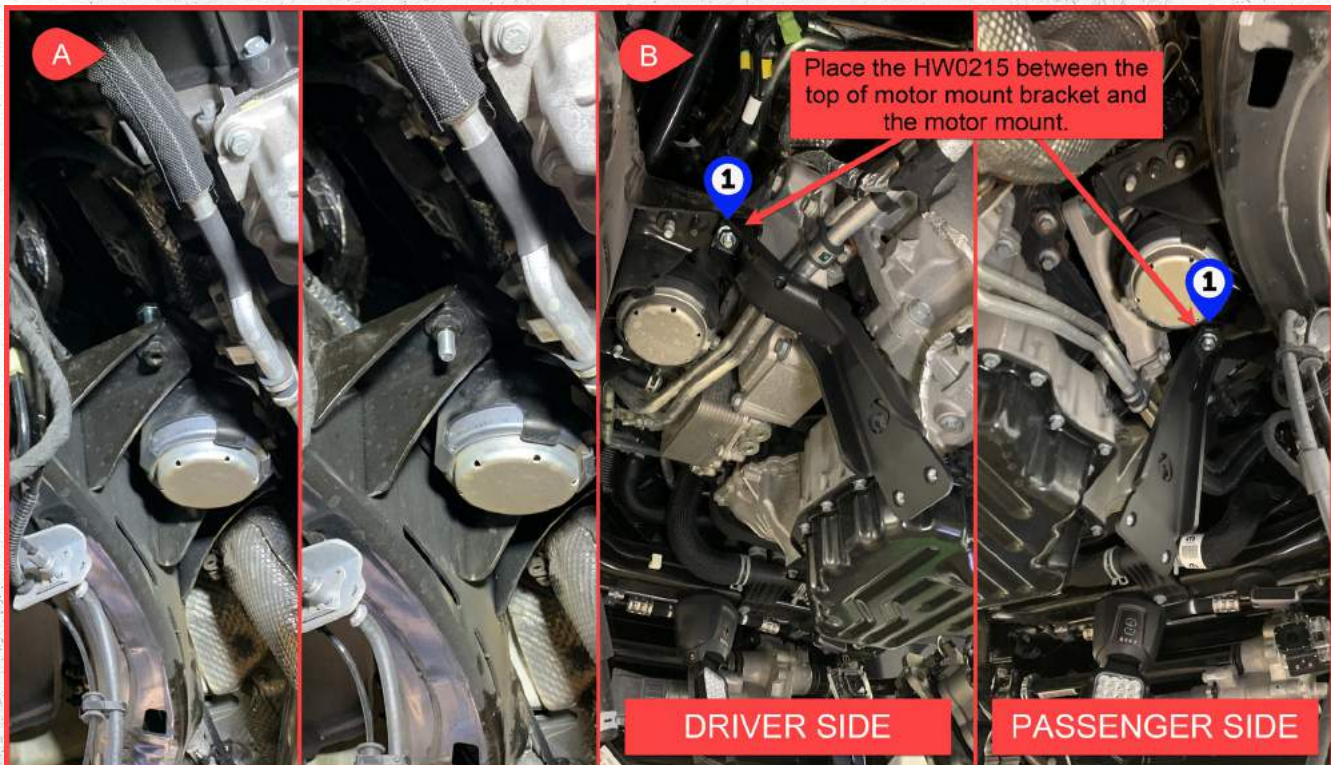


Step 7: Once the factory fuel tank skid has been removed, install the fuel tank strap by installing 1 - OEM 12mm bolt ❶ with a 18mm socket AND 1 - 12mm x 40mm counter sink bolt & counter sink washer ❷ using the 7/32 allen wrench. The fuel tank strap hardware can be tightened at this stage. Once the fuel tank strap is mounted you can remove the ratchet strap.

ASSEMBLY INSTRUCTION GUIDE



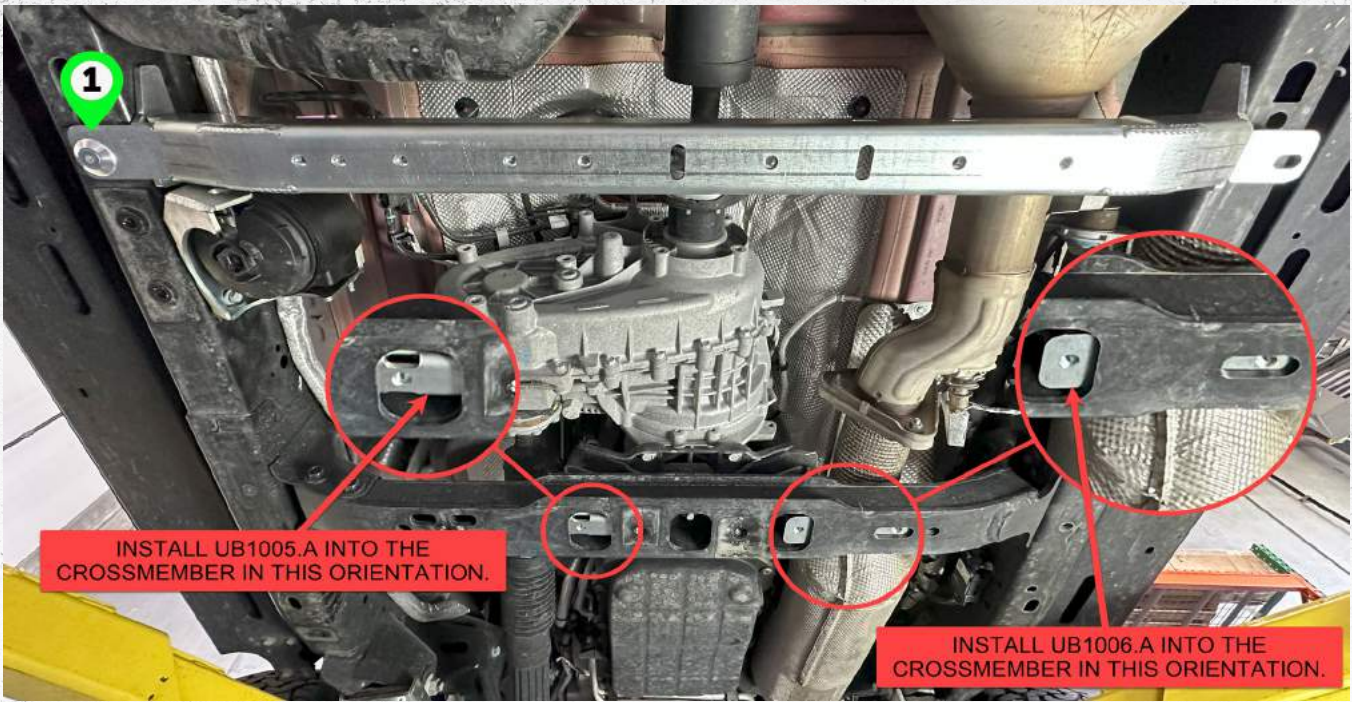
Step 8. To install the motor mount skid brackets, first remove the factory 10mm bolts from these two locations (RED) circled



Step 9.

A: After removing the 2 factory 10mm bolts, replace them with 2 - M10 x 40mm bolts and 2 - 10mm zinc plated flat washers using a 17mm socket or wrench. Tighten these bolts **BEFORE** assembling the brackets.

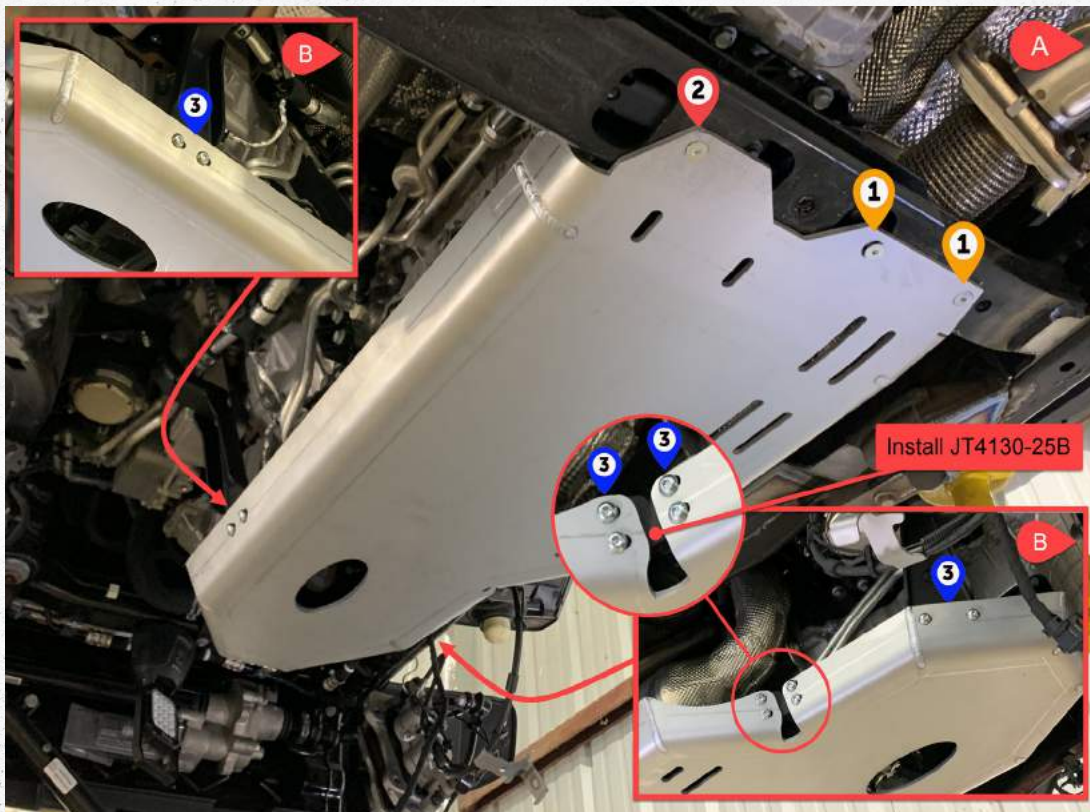
B: Loosely install brackets as shown above with the HW0215 spacers using 2 - M10 flange nuts ① with a 15mm socket. NOTE: recommend applying blue Loctite to the threads of the M10 x 40mm bolts before installing them into the motor mounts



INSTALL UB1005.A INTO THE CROSSMEMBER IN THIS ORIENTATION.

INSTALL UB1006.A INTO THE CROSSMEMBER IN THIS ORIENTATION.

Step 10. Loosely install the provided crossmember using 1- M12 x 40 flathead bolt with the tapered washer ① as shown above. Insert the 2 nut plates as shown above.

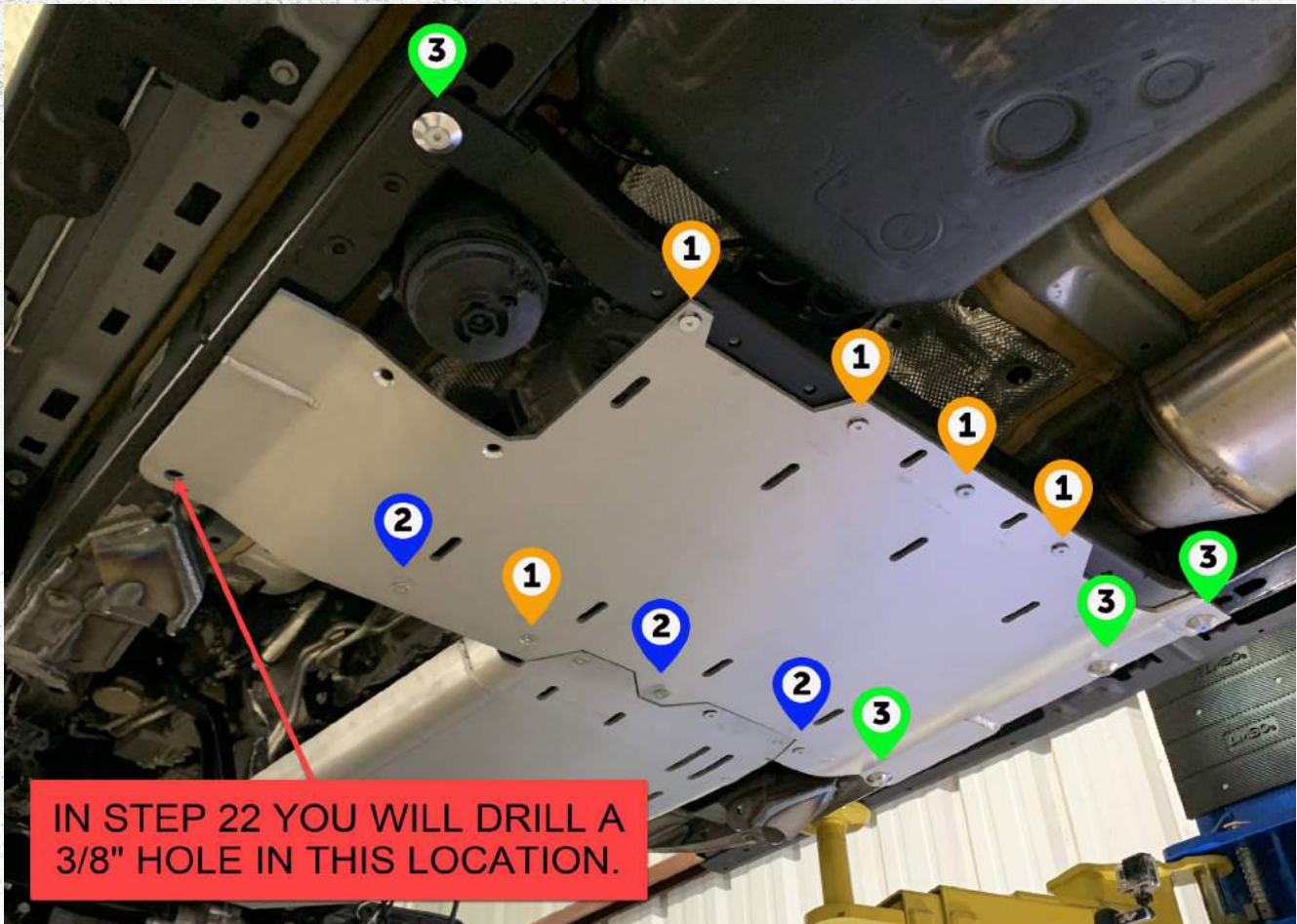


Install JT4130-25B

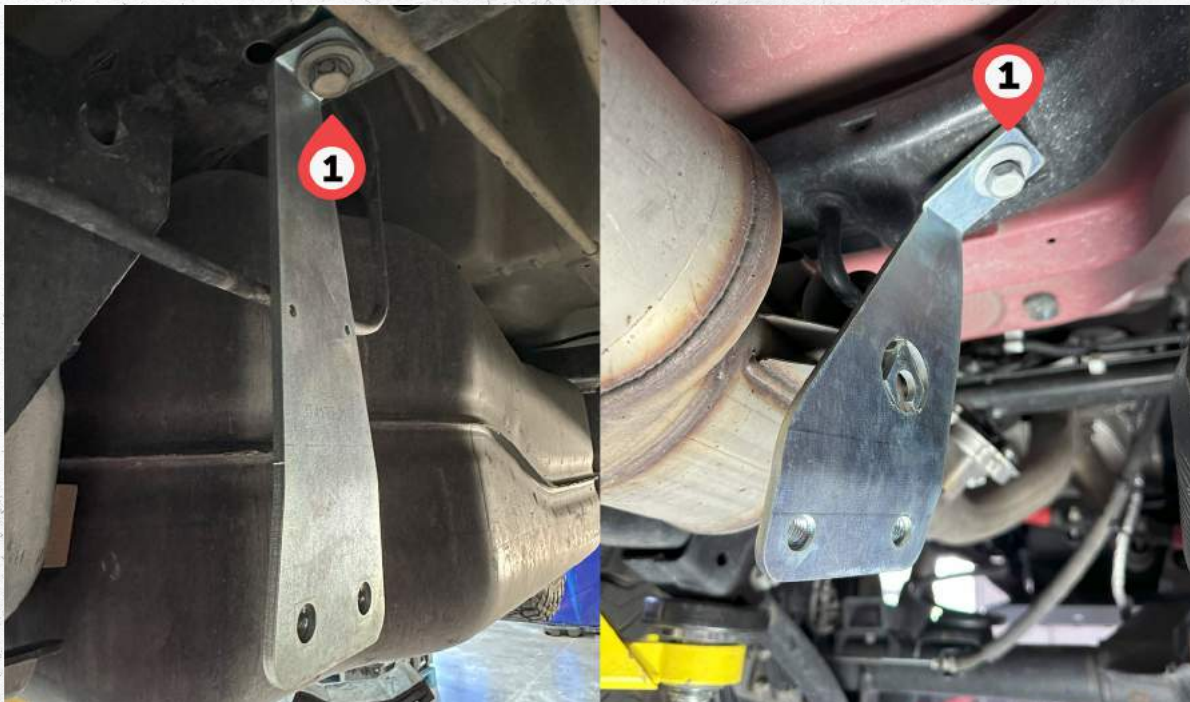
Step 11.

A: Loosely install the engine skid starting at the crossmember using 2 - 3/8" x 1" flathead bolts ① and 1- M12 x 40mm flathead bolt ② using the 7/32 allen wrench.

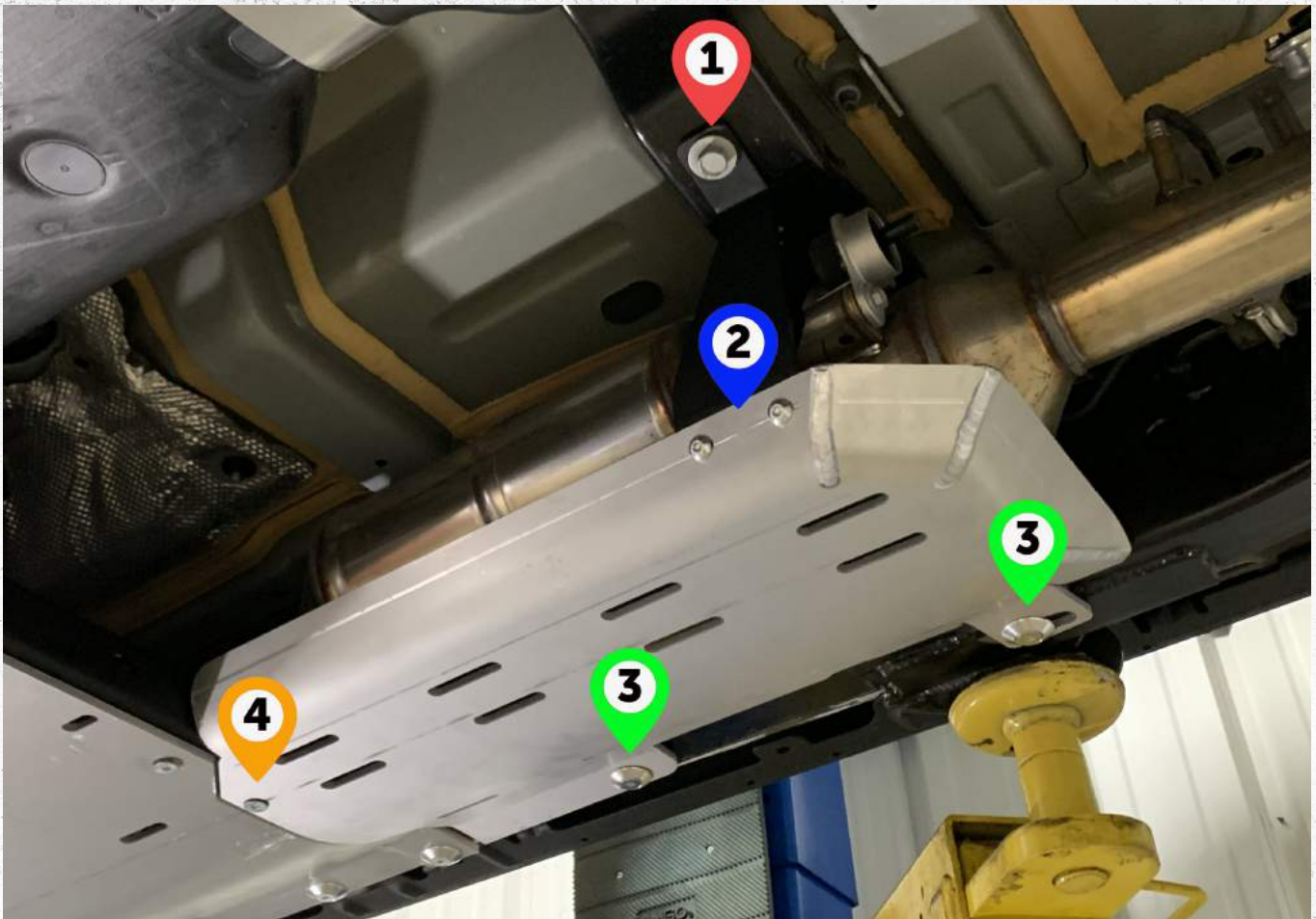
B: Loosely attach the engine skid to the motor mount brackets using 4 x 3/8" x 3/4" buttonhead bolts with the 3/8" gold zinc plated washers ③ using the 7/32 Allen wrench. Using 4 x 3/8" x 3/4" buttonhead bolts with the 3/8" gold zinc plated washers ③, loosely attach JT4130-25B to the engine skid with the 7/32 Allen wrench.



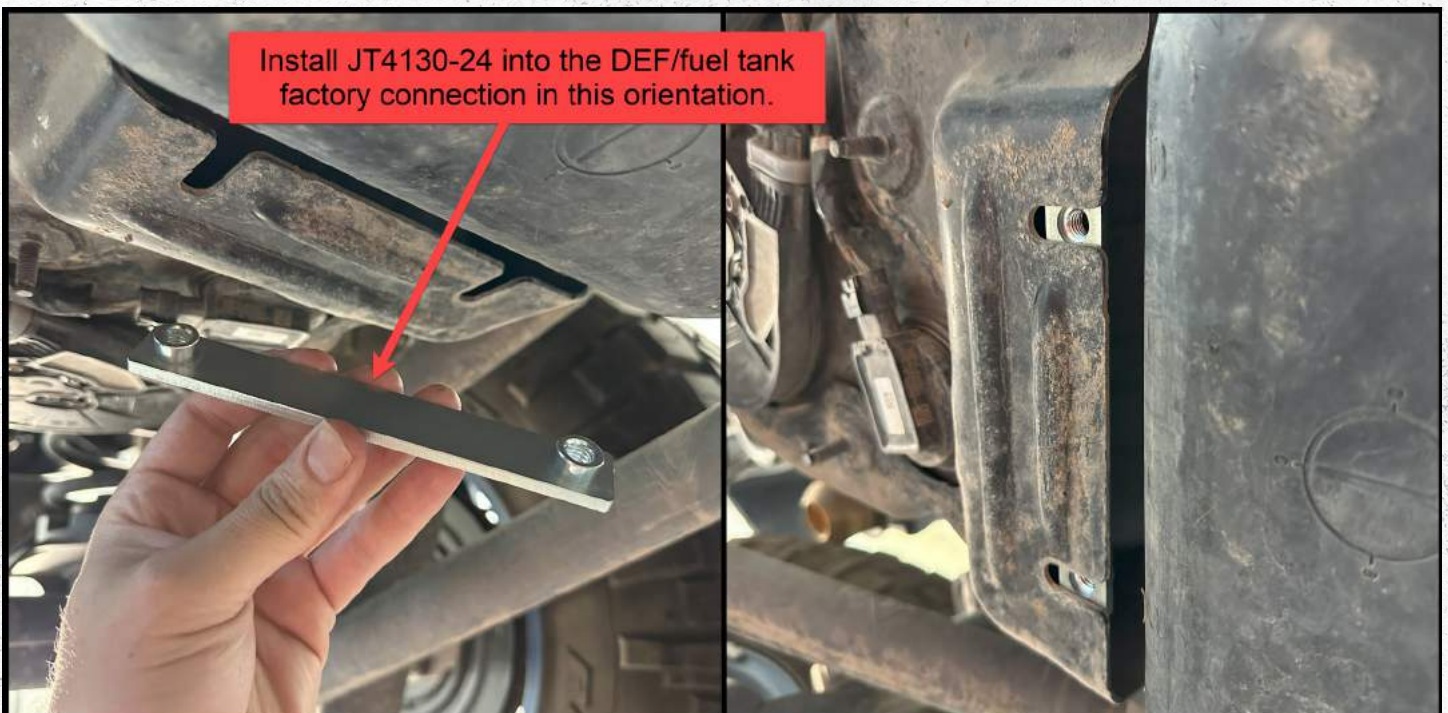
Step 12. Continue by *loosely* securing T-case skid onto support crossmember using 5 - 3/8 x 1" counter sink bolts ①, and 6 - M12 X 40mm bolts ②/③ using the 7/32 Allen wrench. ③ locations also use a tapered washer.



Step 13: *Loosely* install both the fuel skid and exhaust skid inner brackets as shown above using 2 - 12mm OEM bolts ① with a 18mm socket.

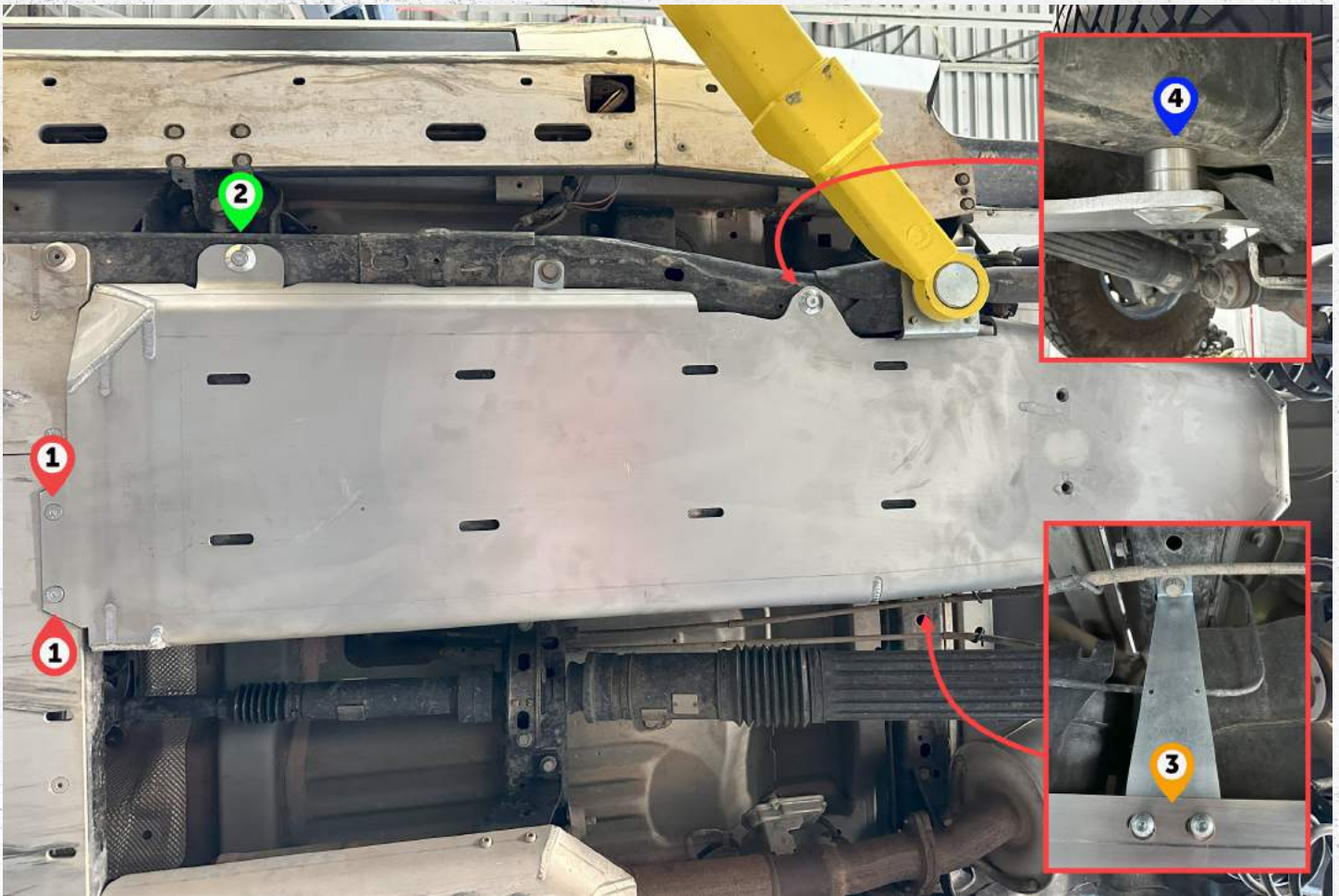


Step 14. Loosely install the exhaust skid with 1 - 3/8 x 1" flathead bolt ❹, 3 - M12 x 40mm flathead bolts with tapered washers ❸ and 2 - 3/8 x 3/4" buttonhead bolts with flat washers ❷ using the 7/32 Allen wrench. Use the OEM M12 bolt ❶ in this location.



Install JT4130-24 into the DEF/fuel tank factory connection in this orientation.

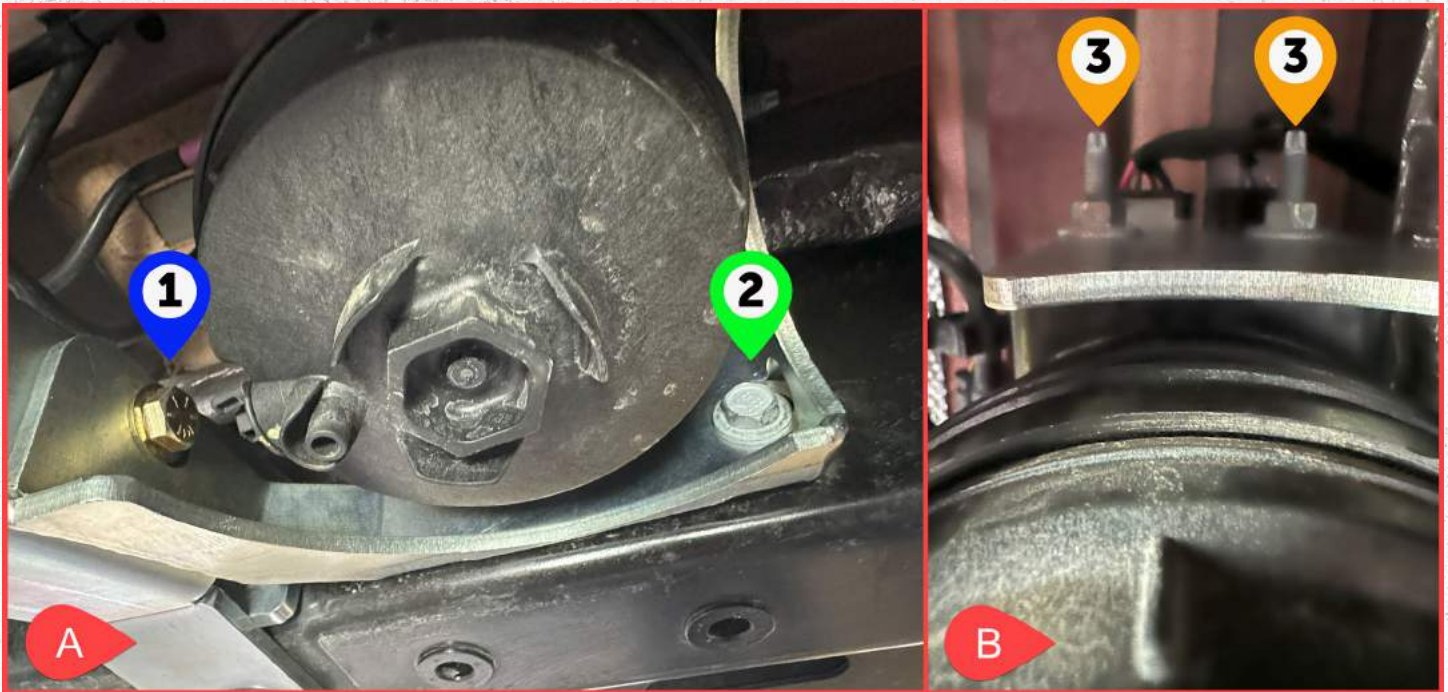
Step 15: Install JT4130-24 as seen above. Make sure the surface is clean before installing.



Step 16. Using the 7/32 Allen wrench *loosely* assemble the gas tank skid with 2 - 3/8 x 1" flathead bolt ❶, 1 - M12 x 40mm flathead bolt with tapered washer ❷ AND 2 - 3/8 x 1" buttonhead bolts with 3/8 flat washers ❸. At location ❹ assemble using 1 - M12 x 40mm flathead bolt with tapered washer AND 2 of the 10mm machined aluminum spacers as seen above. You will need to use a jack/lift to press the skid close enough to the frame to install the hardware and spacers.



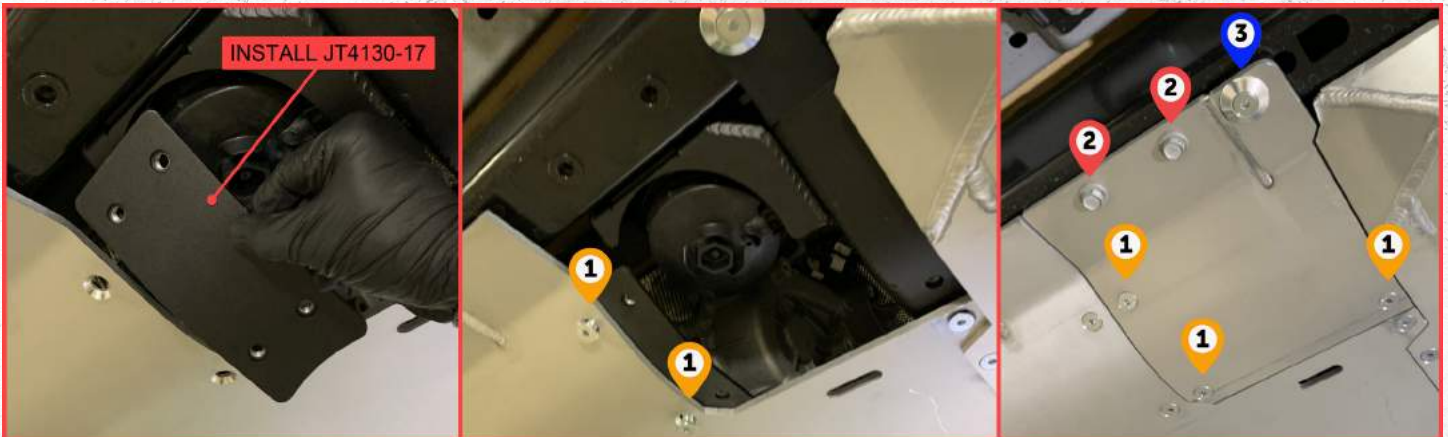
Step 17. Using the 7/32 Allen wrench *loosely* install 2 - 3/8 x 1.5" flathead bolt ❶ into the previously installed nut plate JT4130-24.



Step 18.

A: Loosely install the JT4130-7 Fuel filter skid support bracket using 1 - OEM M5 bolt ② with a 13mm socket AND 1 - 3/8 x 1" grade 8 yellow zinc bolt with a 1 - 3/8 yellow zinc flat washer ① using a 9/16 socket. Once both bolts are installed, go ahead and tighten them.

B: Attach the fuel filter housing to the bracket with the OEM M5 nuts ③ using a 13mm socket. Verify fit and clearance and tighten the nuts. Once the 13mm nuts are tight, tighten ① & ②

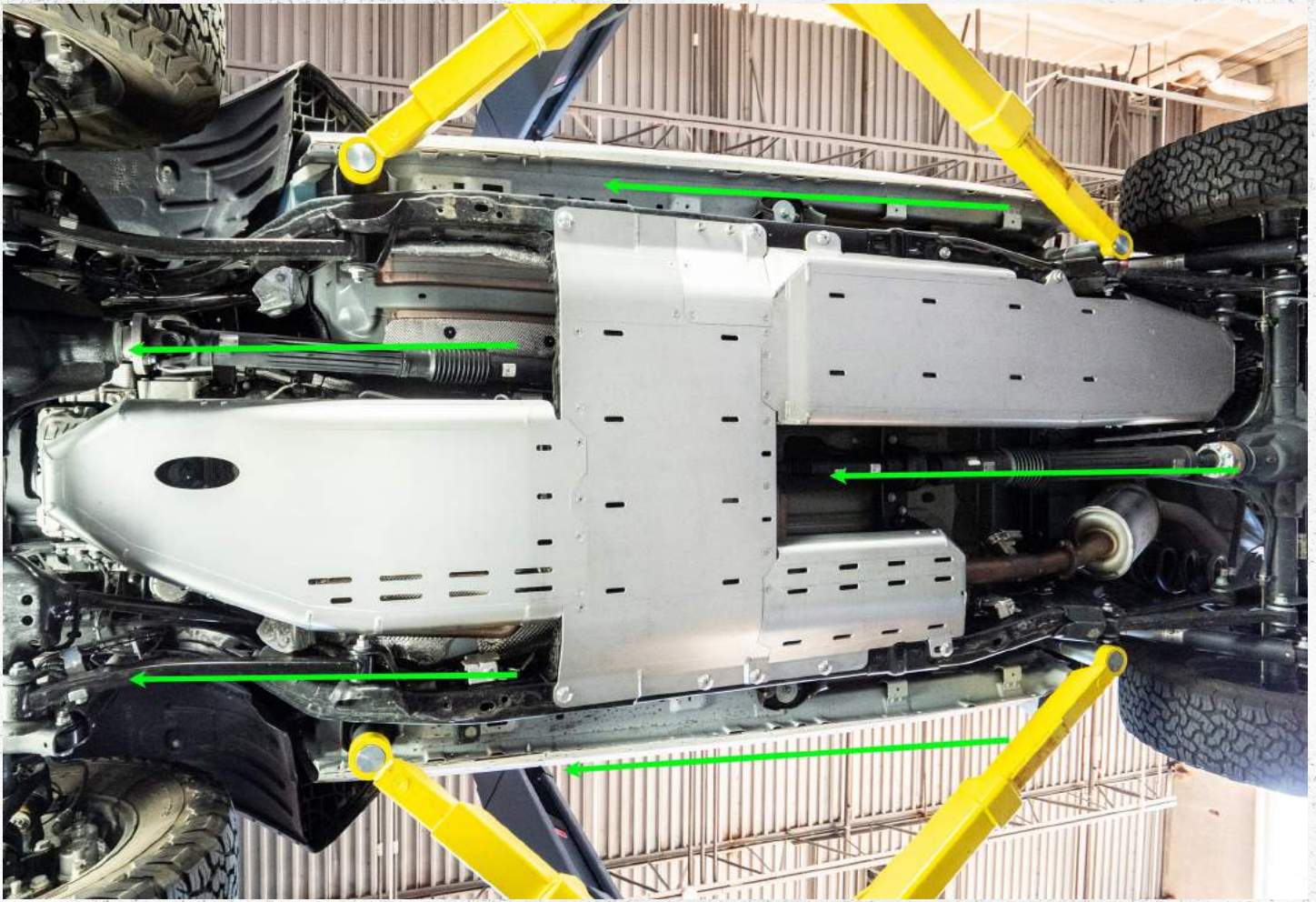


Step 19.

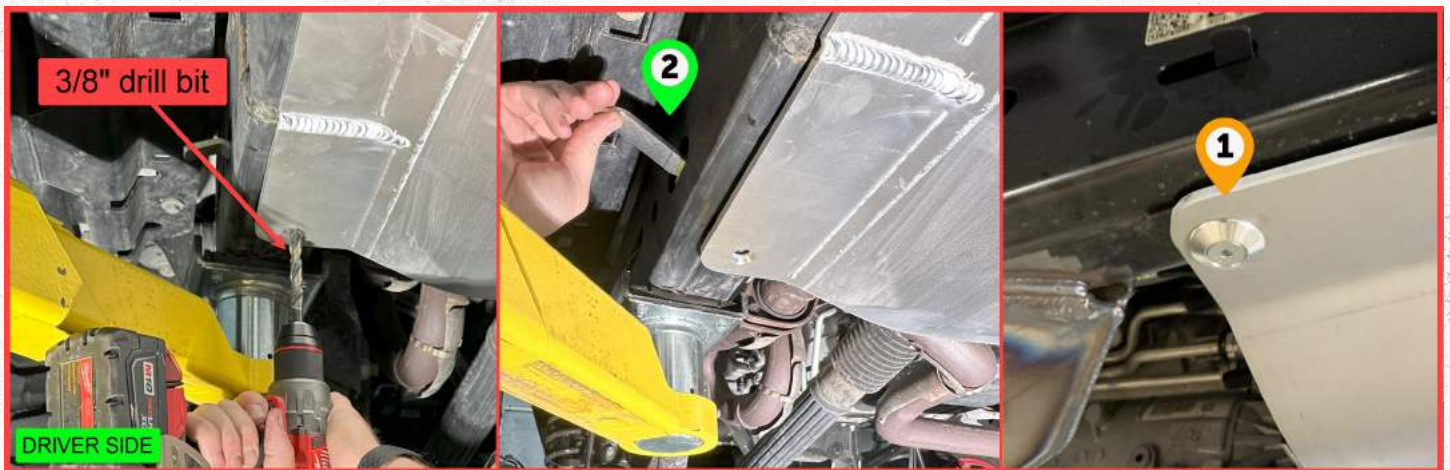
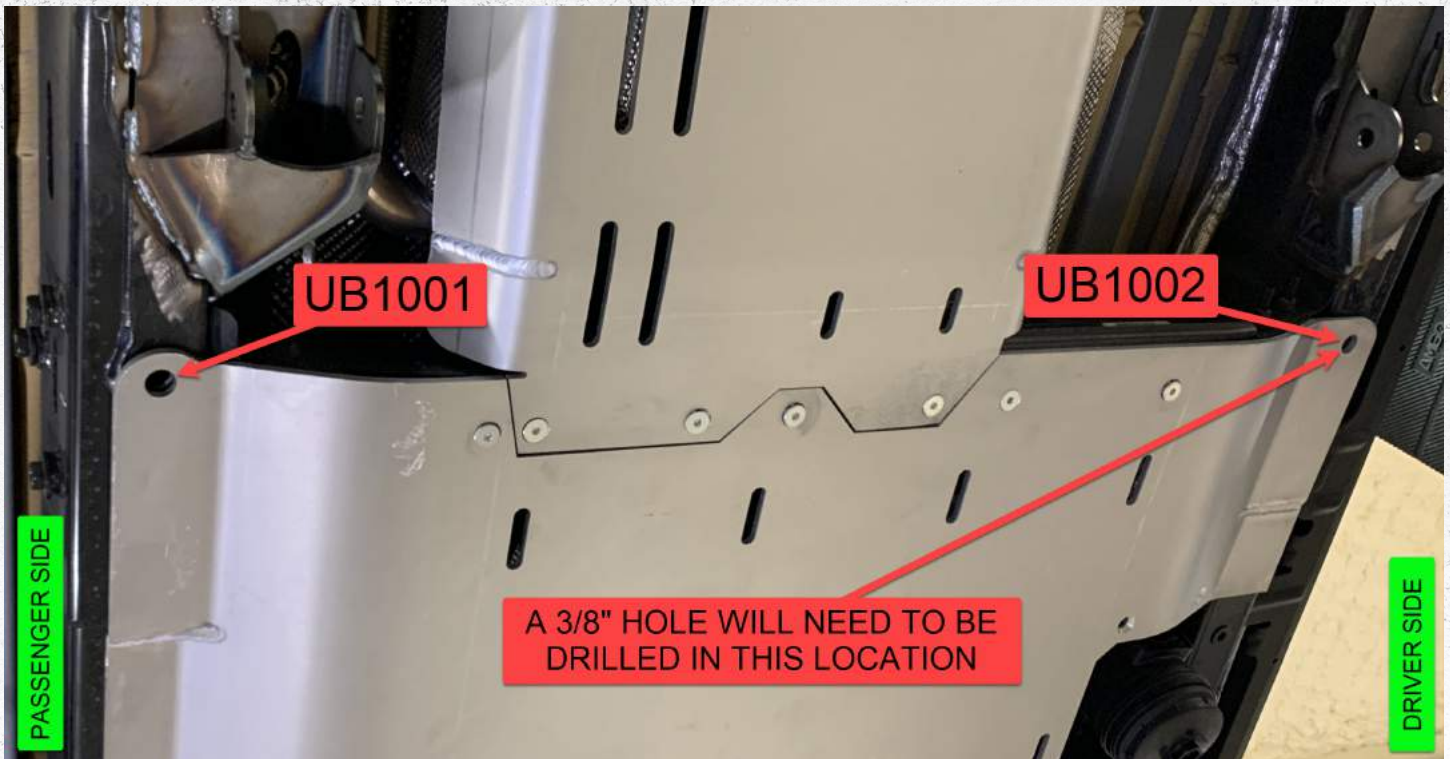
A: Loosely attach the JT4130-17 fuel filter skid nut plate to the transmission skid with 2 - 3/8 x 1" flathead bolt ① using the 7/32 Allen wrench.

B: Install the fuel filter skid with 3 - 3/8 x 1" flathead bolt ① AND 1 - M12 x 40mm flathead bolts with tapered washer ③ using the 7/32 Allen wrench. Using a M6 allen wrench loosely install the M10 x 30mm button head bolts ②

*Verify everything has been assembled **LOOSELY**, unless otherwise instructed, before continuing to step 20.*



Step 20. Starting from the rear of the vehicle while working your way forward to the front end, tighten/torque all skid and bracket hardware that was previously loosely installed on fuel tank skid, T-case skid, and engine oil skid.



Step 21. Once the skid plates are tightened, drill a 3/8" hole in the necessary location(s)

Step 22. Insert UB1002 3/8" driver side nut plate ② into the frame as shown. Using ① 1 - 3/8 x 1.5" counter sink bolt with a tapered washer complete the transfer case skid assembly. Verify all hardware is tight.

CONCLUSION AND MAINTENANCE GUIDE



CONCLUSION

Congratulations on finishing the installation for your Artec Industries Alpha Series Aluminum Bellypan.

Before driving your vehicle, inspect all bolts again to ensure proper tightness.

If you used a vehicle lift, take proper care to ensure you lower your vehicle safely.

Now take your vehicle out and enjoy the outdoors in confidence.

MAINTENANCE / CARE

- After 500 miles, inspect all components and hardware to ensure they are properly fastened.
- If driving during the winter where salt is used on the roads, thoroughly and frequently wash under-side of vehicle to prevent salt based corrosion.
- If removal of skid panels is required for vehicle maintenance, and bolts will not loosen, tap the bolt heads with a small sledge hammer using moderate force. This will allow the threads to loosen.
- Spray wax or similar products can be used to create a protective barrier on raw metals to protect against long term corrosion.