PRODUCT: **JL 2-Door UnderCloak System, 2.0L Motor**

REV: C | 03-11-2020| II-6363

READ INSTRUCTIONS IN FULL BEFORE INSTALLATION.

QUESTIONS? CALL 916-631-8071 M-F 7:00 AM – 5:00 PM PST

The MetalCloak experience includes the ease of installation of our products. We design for most contingencies, but installation may be different based on different Jeep condition, configuration and/or year.

We are continually trying to improve our products and instructions – please help us by providing feedback and pictures if you find any part of the instructions that do not match your particular Jeep or are not easily understandable.

If you have any difficulties at all, please give us a call. Thank you and enjoy your MetalCloak Products!

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Section 1: Tools & Notes on Installation

Tools Required: This list is the recommended tools for ease of installation. Other versions of the same tool can be used. For example, Allen Wrenches instead of Allen Drive Sockets.

Socket & Ratchet Wrench

13mm Socket/Wrench
18mm Socket/Wrench
3/4” Socket/Wrench
9/16” Socket/Wrench

8mm Allen Socket or wrench

HOW TO USE THIS GUIDE: The installation guide contains ALL steps for installation. Please read and follow the instructions in order of each page top to bottom and left to right.
Jeep Model: Instructions may apply to multiple Jeep models but are labeled separately where appropriate (i.e. TJ vs. LJ).
Options: Because of the number of component options we offer, these instructions may contain steps that will not match your configuration. You can skip these steps.
Images: Pictures are provided and parts are labeled throughout the instructions. Each text box contains guidance based on the pictures next to it. The text will refer to numerical labels (1, 2, etc.) found in the images.
Installation Notes: Terms may be used in the body of the instructions that you may not be familiar with, if you have any questions feel free to contact us at the number below, or email techhelp@metalcloak.com
QUESTIONS: Any questions or comments about the instructions? Call us at 916-631-8071 M-F 7:00 AM – 5:00 PM PST.

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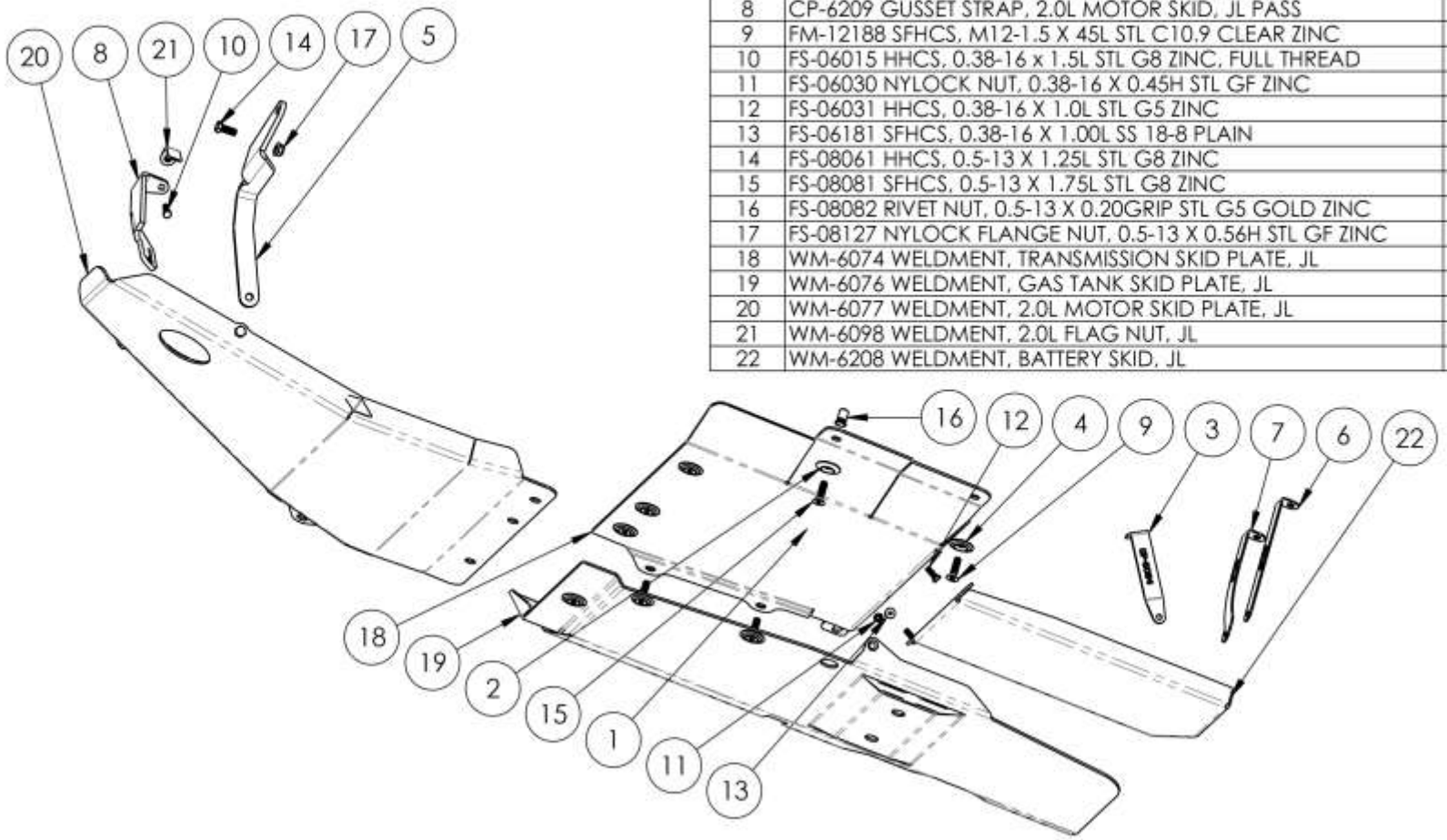
Section 2: Product Components

DC-0001 REV A

SHEET 1 OF 1

ITEM	PART NUMBER/DESCRIPTION	QTY.
1	8998 INSTALLATION TOOL, 0.50-13 RIVET NUT	1
2	CP-3084-G BEVELED SKID WASHER	1
3	CP-6084 REAR GUSSET STRAP, GAS TANK SKID, JL	1
4	CP-6085 BEVELLED SKID WASHER, 90DEG	7
5	CP-6096 GUSSET STRAP, 2.0L MOTOR SKID, JL DRIVE	1
6	CP-6110 REAR HANGER OUTSIDE, BATTERY SKID, JL	1
7	CP-6111 REAR HANGER INSIDE, BATTERY SKID, JL	1
8	CP-6209 GUSSET STRAP, 2.0L MOTOR SKID, JL PASS	1
9	FM-12188 SFHCS, M12-1.5 X 45L STL C10.9 CLEAR ZINC	7
10	FS-06015 HHCS, 0.38-16 x 1.5L STL G8 ZINC, FULL THREAD	1
11	FS-06030 NYLOCK NUT, 0.38-16 X 0.45H STL GF ZINC	4
12	FS-06031 HHCS, 0.38-16 X 1.0L STL G5 ZINC	5
13	FS-06181 SFHCS, 0.38-16 X 1.00L SS 18-8 PLAIN	1
14	FS-08061 HHCS, 0.5-13 X 1.25L STL G8 ZINC	3
15	FS-08081 SFHCS, 0.5-13 X 1.75L STL G8 ZINC	1
16	FS-08082 RIVET NUT, 0.5-13 X 0.20GRIP STL G5 GOLD ZINC	1
17	FS-08127 NYLOCK FLANGE NUT, 0.5-13 X 0.56H STL GF ZINC	3
18	WM-6074 WELDMENT, TRANSMISSION SKID PLATE, JL	1
19	WM-6076 WELDMENT, GAS TANK SKID PLATE, JL	1
20	WM-6077 WELDMENT, 2.0L MOTOR SKID PLATE, JL	1
21	WM-6098 WELDMENT, 2.0L FLAG NUT, JL	1
22	WM-6208 WELDMENT, BATTERY SKID, JL	1



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METAL CLOAK
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PART NUMBER/DESCRIPTION

6363 SKID PLATE SYSTEM, 2.0L JL

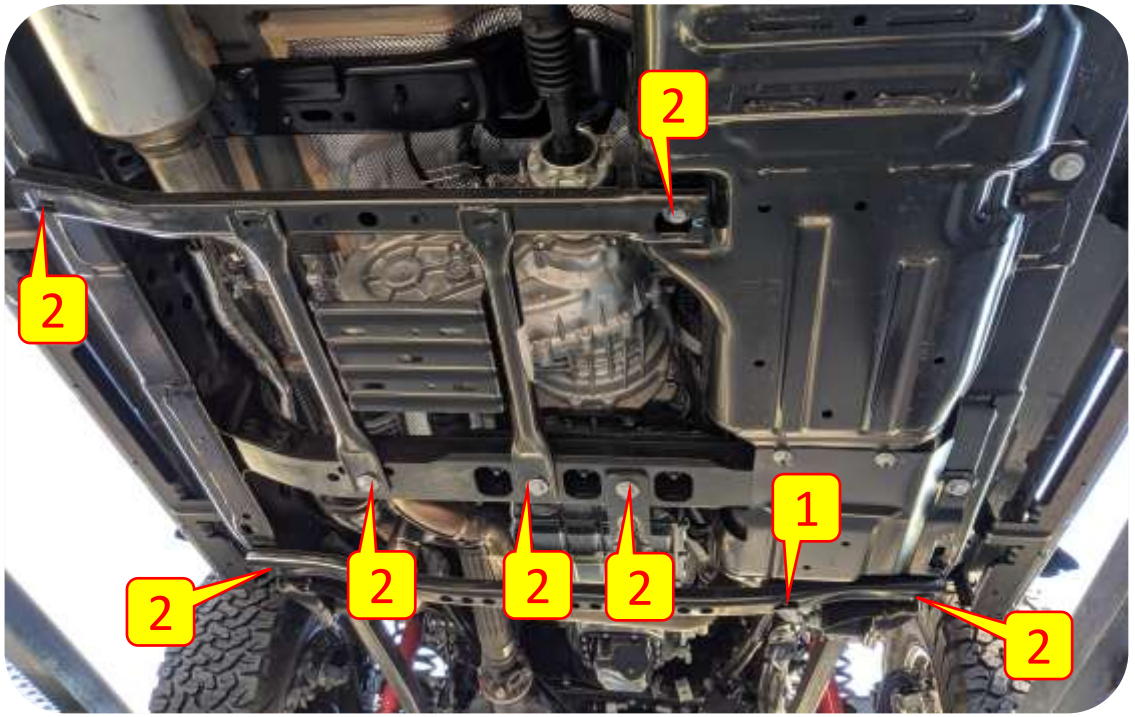
Section 3: Installation Instructions

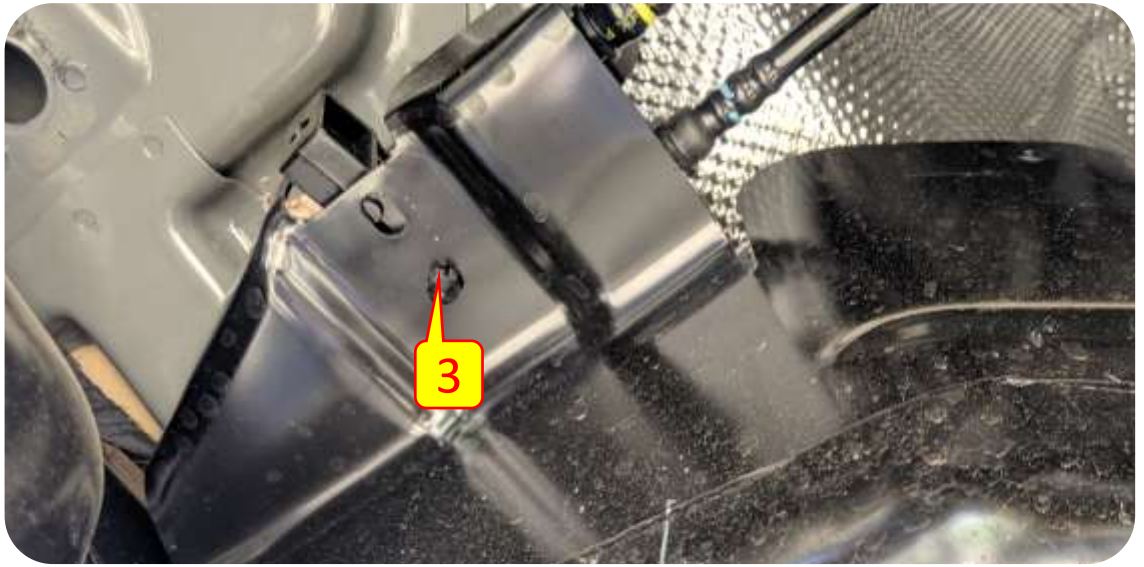
Step 1: Remove Stock Components

1. Using a 13mm socket, remove the nut from the stock transmission skid. **Save All Hardware.**

2. Using an 18mm socket, remove the bolts from the stock transmission and transfer case skids *(1 bolt will be reused).*

3. Remove fuel line retainer from the gas tank front skid.





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Section 3: Installation Instructions

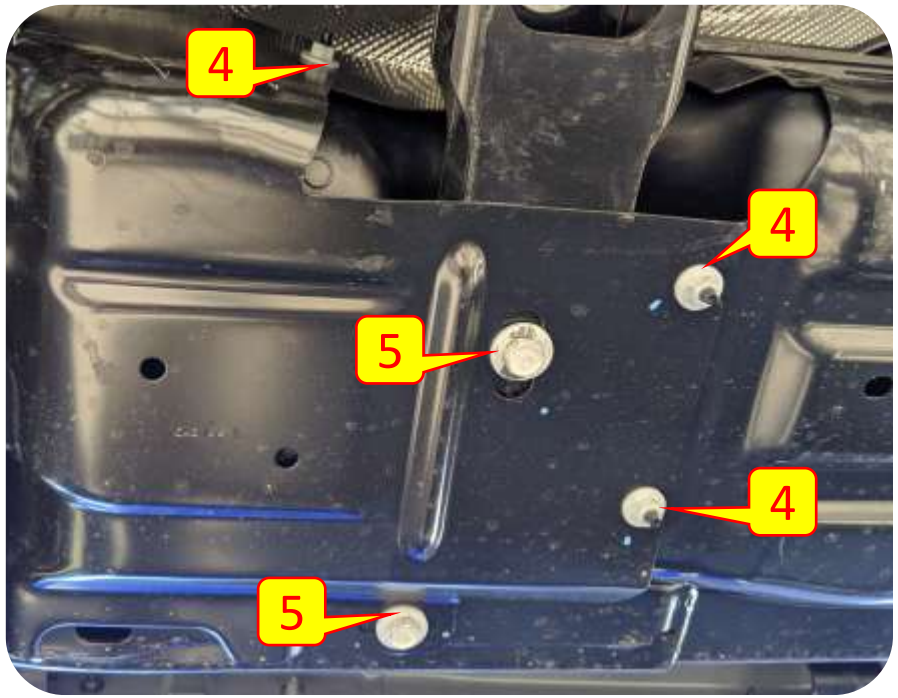
Step 1: Remove Stock Components

4. Using a 13mm socket, remove the nuts from the gas tank skid.

5. Using an 18mm socket, remove the bolts from the gas tank front skid and remove it. 1 bolt will be reused. The skid will not be reused.

6. Using a 18mm socket disconnect the three bolts on the stock gas tank skid at the frame. **Save all Hardware.**

7. Using the provided hardware and an 8MM Allen wrench install the transfer case skid plate snug. Do not fully tighten.



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Section 3: Installation Instructions

Step 1: Installing the JL UnderCloak System

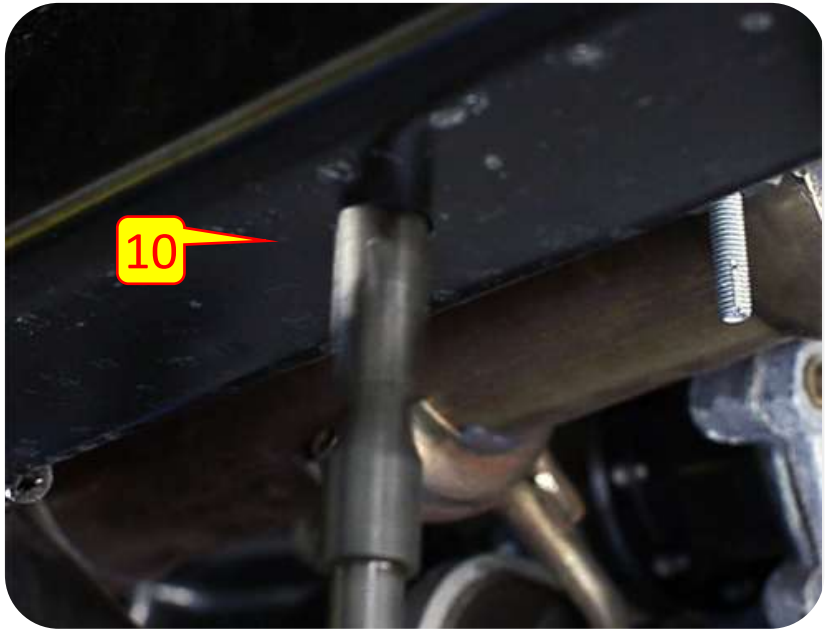
8. Mark and center punch the hole on the frame for the transfer case skid plate.

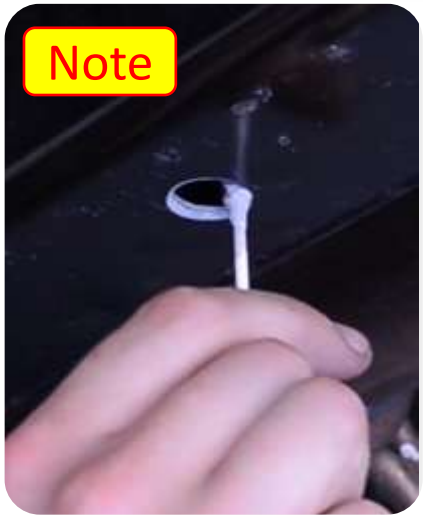
9. Remove the transfer case skid plate using an 8mm allen wrench.

10. Using a 11/16 drill bit or step bit drill out the marked location on the frame.

11. Using a 3/4” wrench and socket or rivet nut installation tool install the provided rivet nut.

Note: *MetalCloak recommends painting any exposed metal to help prevent rust.*





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Step 2: Transmission Skid Installation

12. Fully tighten both bolts at the frame using an 8mm wrench.

13. Disconnect the three counter sunk bolts on the transfer case skid plate on the crossmember in preparation for installing the motor skid plate.

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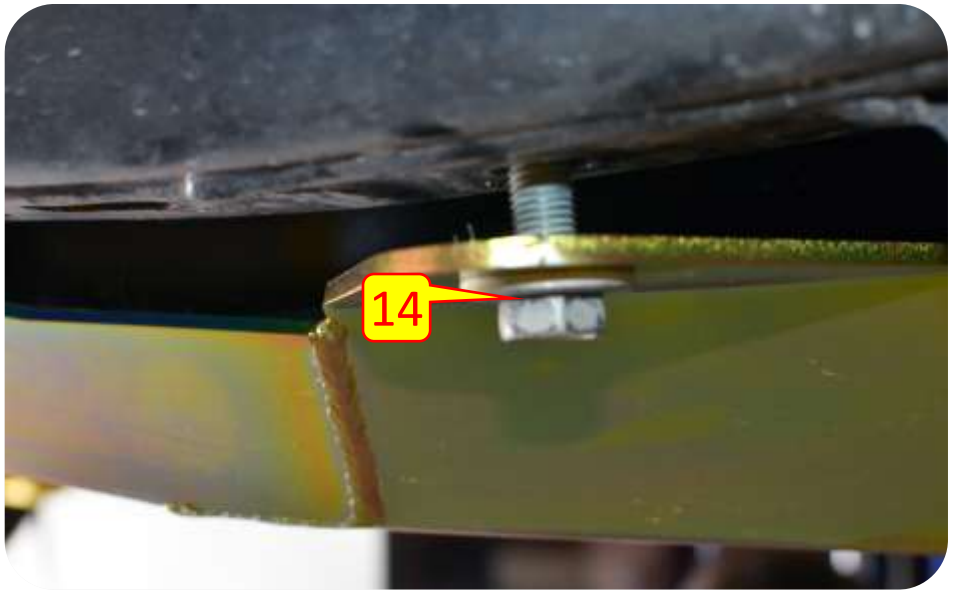
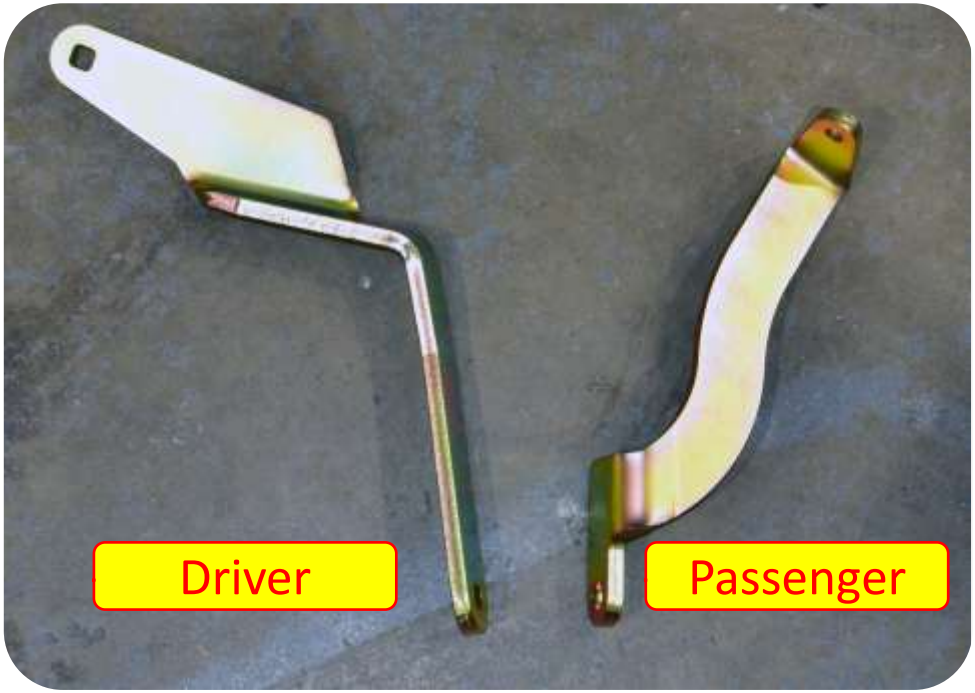
Step 3: Motor Skid Installation

14. Install the saved stock bolt into the motor skid tab at the frame hand tight.





Important Note: When installing the front motor mount brackets the bracket with the wider end will be installed on the driver side and the smaller curved bracket will be installed on the passenger side.

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Section 3: Installation Instructions

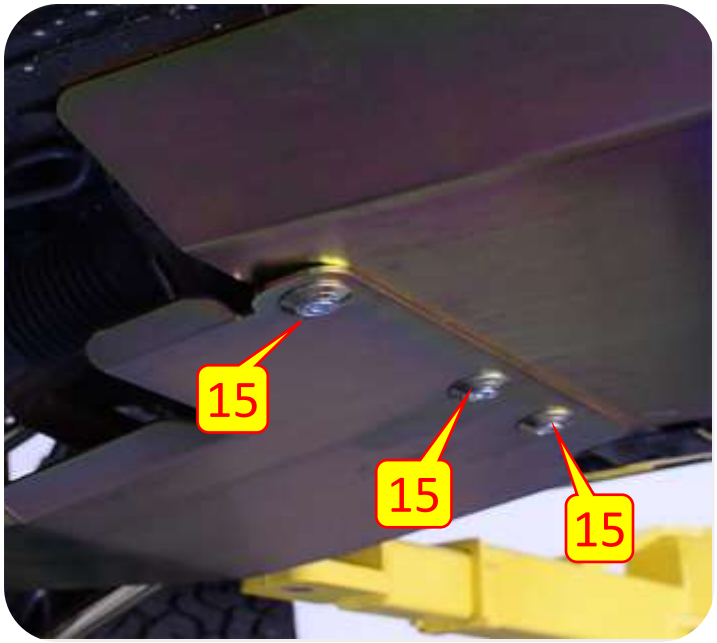
Step 3: Motor Skid Installation

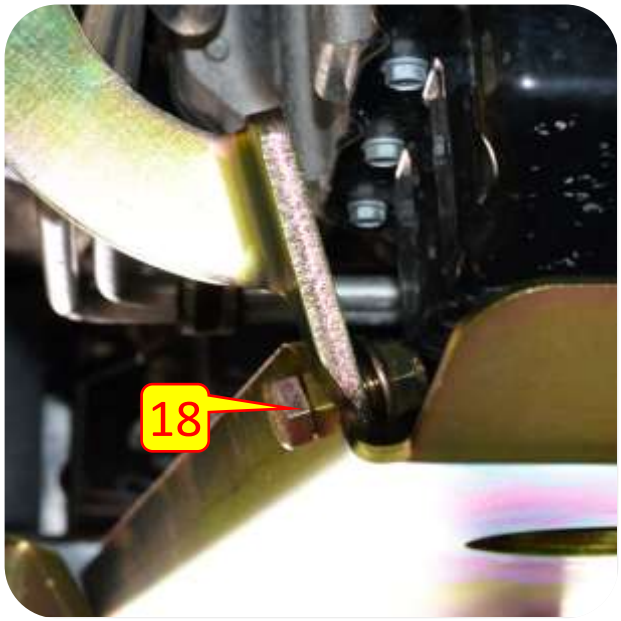
15. Using an 8mm allen wrench attach the motor skid plate to the transfer case skid plate using the counter sunk bolts.

16. Install the front brackets to the motor skid hand tight. Make sure the bracket is installed on the inside of the skid plate. *(The longer bracket is for the driver side, and the shorter bracket is for the passenger side).*

17. Install the front bracket to the first hole on the frame side motor mount bracket hand tight *(Each bracket has a square hole and a round hole. The round hole attaches to the frame.).*

18. Using a 3/4” socket and wrench fully tighten the front motor mount brackets.





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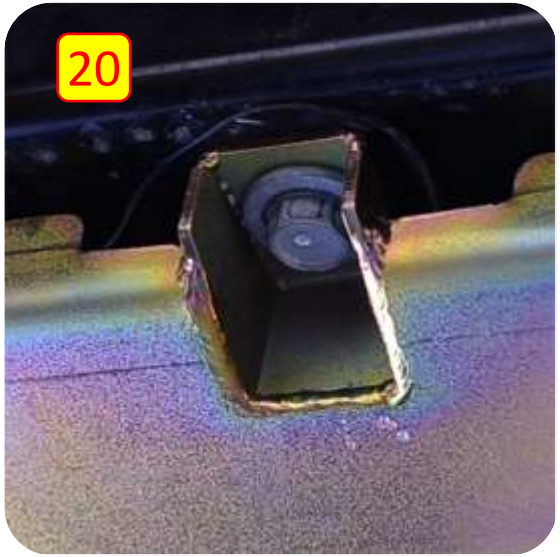
Step 4: Gas Tank Skid Installation

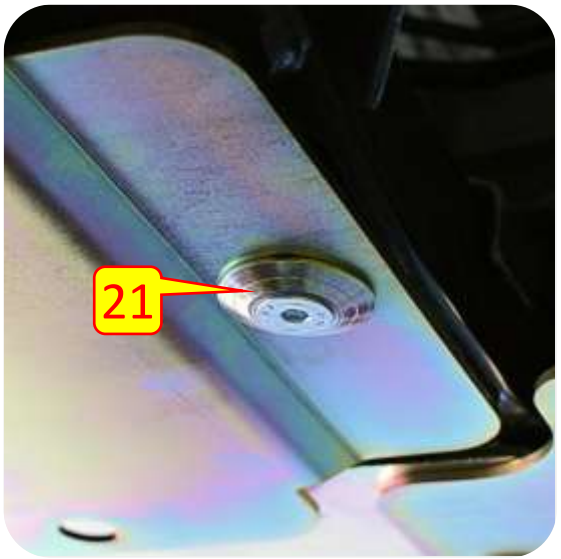
19. Using an 8mm allen wrench install the motor skid/transfer skid bolts.

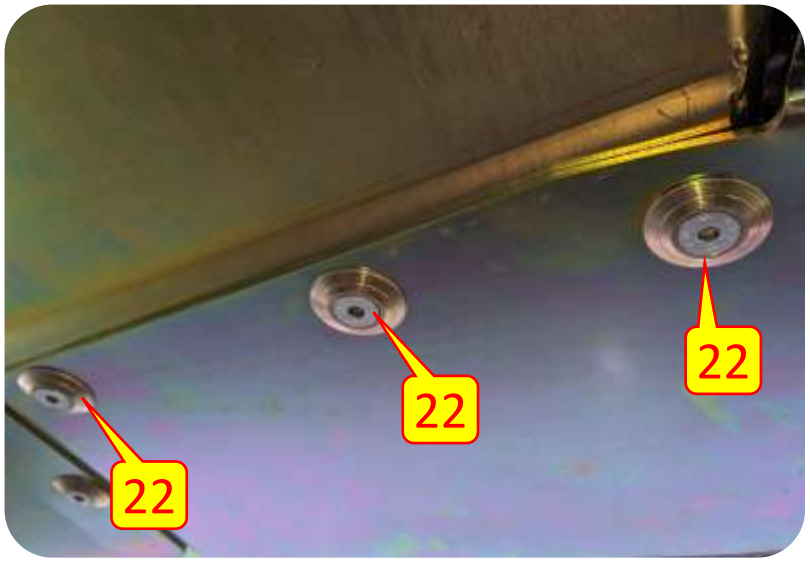
20. Attach the gas tank skid plate to the frame with the stock hardware hand tight.

21. Using an 8mm allen wrench attach the gas tank skid to the cross member.

22. Using an 8mm allen wrench attach the gas tank skid to the transfer case skid.







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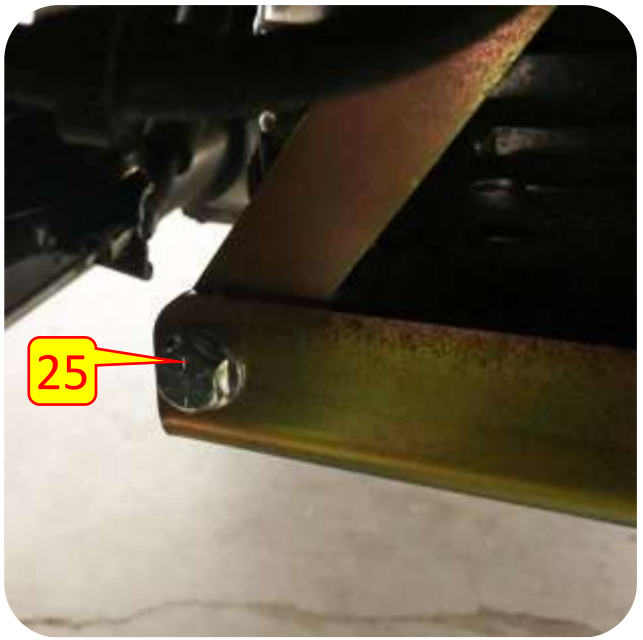
Step 4: Gas Tank Skid Installation

23. Using a 18mm socket disconnect the stock gas tank skid rear frame bolt. Save hardware.

24. Using the stock bolt install the rear gas tank skid bracket to the frame hand tight.

25. Using the provided bolt install the gas tank skid bracket to the gas tank skid and tighten with a 9/16 socket and wrench.



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Step 5: Battery Skid Installation

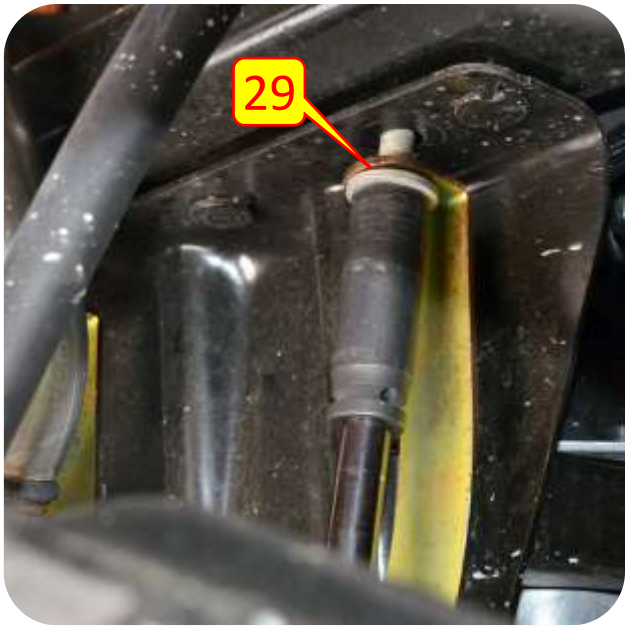
26. Using a 18mm socket remove the stock battery skid Rear bolts. Save hardware.

27. Using a 9/16 socket and wrench install the battery skid brackets to the skid plate.

28. Using a 9/16 socket and wrench attached the skid plate to the transmission skid plate.

29. Using the stock hardware install the battery skid plate brackets to the stock location and tighten with a 18mm socket.

30. Tighten all hardware.



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