INSTALLATION MANUAL
GRUMPER
PRODUCT NUMBER: GR3900
APPLICATION: 2019 GMC 1500

Fab Fours
MADE IN THE USA

IMPORTANT SAFETY GUIDE | Your safety and the safety of others is very important.

In order to help you make informed decisions about safety, we have provided the following warnings, safety precautions, installation instructions, and other important information to alert you to potential hazards that could hurt you or others.

Please do a job safety analysis before each task to identify potential hazards for your situation and remove/protect against them. Use own good judgment and take your time.

Check packaged materials immediately upon arrival to ensure that all listed parts are included and undamaged.

Read and understand all warnings, safety precautions, and instructions before installing this product.

SENSORS FIELD OF VIEW WILL BE ALTERED WITH USE OF THE REPLACEMENT BUMPER.

WARNINGS

- Failure to observe the following warnings and instructions provided in this manual could lead to severe injury and/or death.
- For professional installation only. Careless installation and/or operation can result in serious injury, death, and/or equipment damage. All liability for installation and use rests with the user or consumer.
- Fab Fours, Inc. only approves installing this product according to these written instructions with the hardware provided. Failure to install according to these instructions will invalidate the warranty. This includes, but is not limited to, using alternative installation methods, hardware, or materials.
- This product is for off road use only.

SAFETY PRECAUTIONS

- Always remove jewelry and wear eye protection.
- Always use extreme caution when jacking up a vehicle for work. Set emergency brake and use tire blocks. Locate and use the vehicle manufacturers designated lifting points. Use jack stands.
- Always use appropriate and adequate care in lifting components into place.
- Always ensure components will remain secure during installation and operation.
- Always wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause serious eye injury.
- Always use extreme caution when drilling a vehicle. Always disconnect power before welding. Thoroughly inspect the area to be drilled (on both sides of material when possible) prior to drilling, and relocate any objects that may be damaged.
- Always use extreme caution when welding a vehicle. Thoroughly inspect the area to be welded (on both sides of material when possible) prior to welding, and relocate any objects that may be a fire hazard. When welding in a cab, make sure the interior surfaces are covered (e.g., welding blanket) and a fire extinguisher is at hand.
- Always use extreme caution when cutting and trimming during fitting.
- Always tighten all nuts and bolts securely per installation instructions.
- Always route electrical cables carefully. Avoid moving parts, components that become hot, and rough or sharp edges.
- Always insulate and protect all exposed wiring and electrical terminals.
- Perform regular inspections and maintenance on mounts and hardware.

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A MESSAGE FROM THE OWNER

Fab Fours' was born out of a passion for customizing vehicles and a love for the outdoors. Our engineering team uses the latest 3D design software to turn new product ideas into reality. In our factory, designs come to life with the combination of cutting edge technology for metal cutting and forming and an American workforce that puts its' heart and pride into every product.

From design and manufacturing, to quality and delivery, Fab Fours' mission is to be the market leader for steel truck and jeep accessories. We make sure a quality product is delivered on time, more than expected, better than expected to our customers.

Enjoy your new Fab Fours product. Welcome to the family!

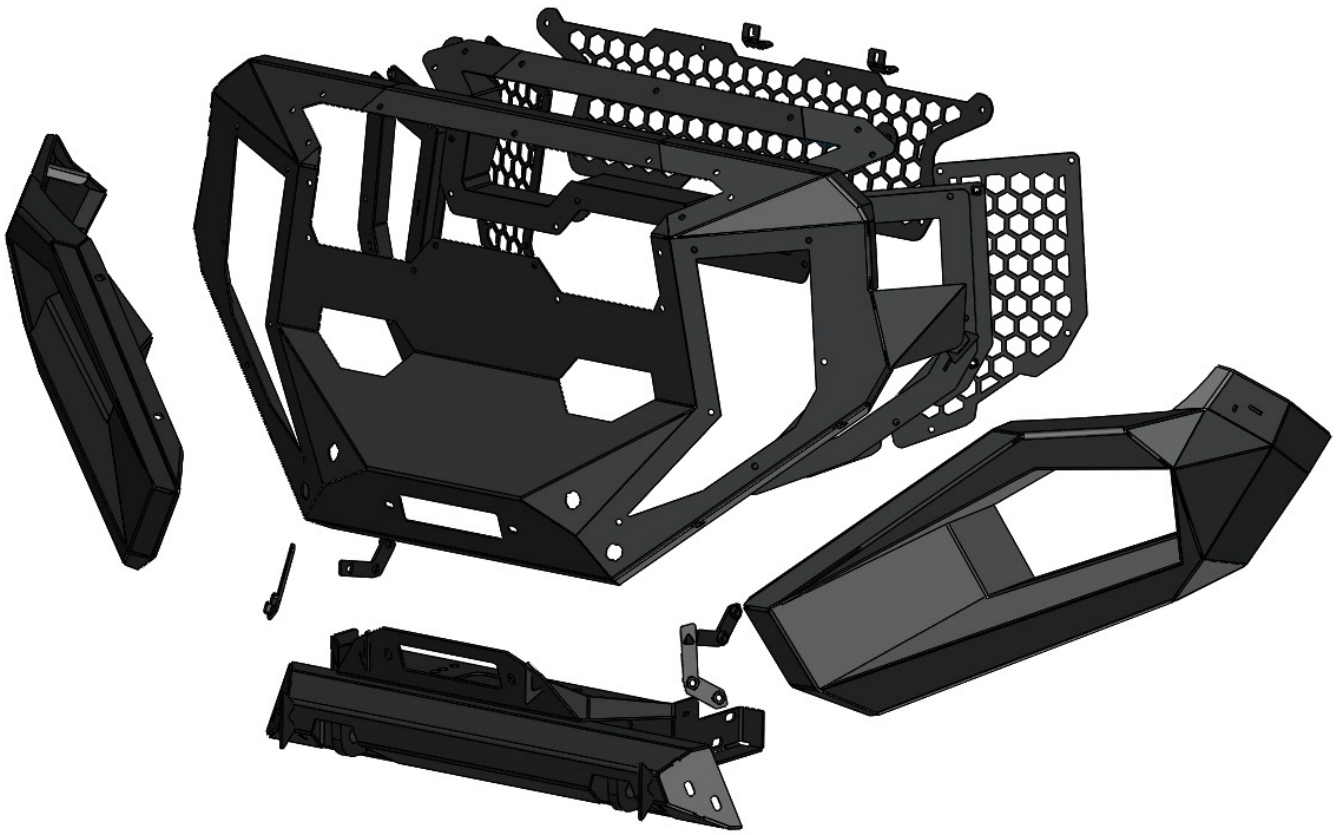
Greg Higgs

FOUNDER, FAB FOURS

GETTING STARTED

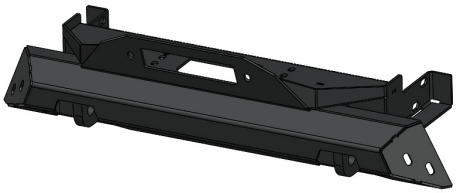
Before you begin the installation process of your new Fab Fours product, we suggest laying out all materials and parts on a pad or protective surface.

Failure to fully account for all components before beginning installation may leave vehicle immobile until part is acquired. Refer to the next pages as an inventory check.

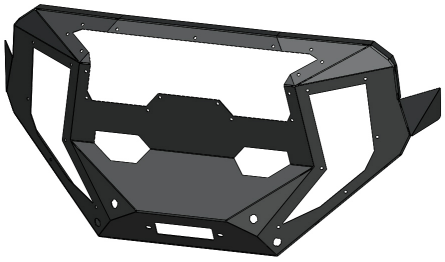


PROVIDED MATERIALS

HW	HW	IM	EPOXY
50125-HW	50171-HW	GR3900-IM	61632 QTY: 2



21780



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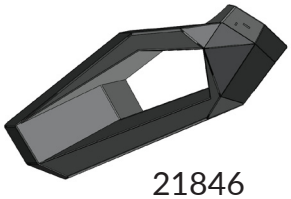
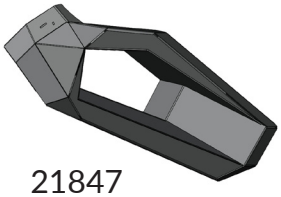
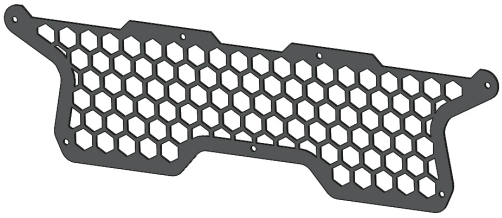


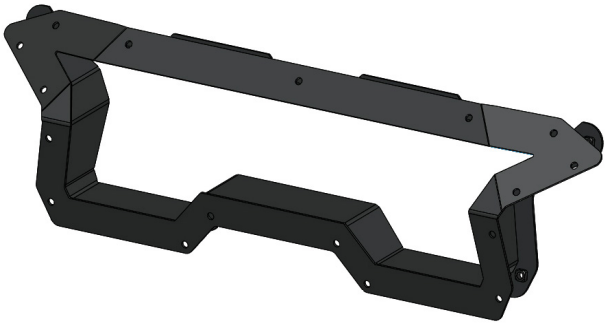
21846



21847



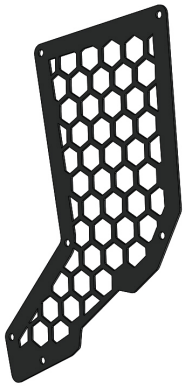
21784



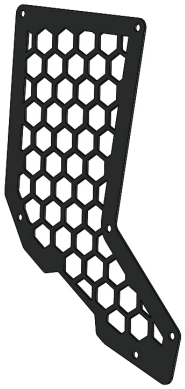
21781

21787
QTY: 2

61713



21785



21786

21782

21783

21788-01

21788-02

HARDWARE KIT | 50171

FAB FOURS IDENTIFICATION	COMPONENT DESCRIPTION	QTY
50171-HW	7/16"-14 x 1.25", Grade 8, Yellow-zinc, Hex head cap screw	12
50171-HW	7/16", SAE ,Grade 8, Yellow-zinc, Lock Washer	12
50171-HW	7/16", SAE, Grade 8, Yellow-zinc, Flat Washer	12
50171-HW	3/8"-16 x 1", Grade 8, Yellow-zinc, Hex head cap screw	19
50171-HW	3/8", Grade 8, Yellow-zinc, Lock washer	19
50171-HW	3/8", Grade 8, Yellow-zinc, Flat washer	19

HARDWARE KIT | 50125

FAB FOURS IDENTIFICATION	COMPONENT DESCRIPTION	QTY
50125-HW	5/16"-18 x 1.0", 18-8, Stainless steel, Button head cap screw	29
50125-HW	5/16"-18, 18-8, Stainless steel, Hex nut	29
50125-HW	5/16", 18-8, Stainless steel, Lock washer	29
50125-HW	5/16" x 3/4"OD, 18-8, Stainless steel, Bonded sealing washer	29
50125-HW	5/16", 18-8, Stainless steel, Flat washer	29
50125-HW	7/16", USS, 18-8, Stainless steel, Flat washer	4
50125-HW	7/16"-14 x 1.5", 18-8, Stainless steel, Button head cap screw	2
50125-HW	7/16"-14, 18-8, Stainless steel, Hex nut	2
50125-HW	7/16", 18-8, Stainless steel, Lock washer	2

TOOLS REQUIRED

- 3/16” Allen wrench
- 1/4” Allen wrench
- 1/2” Open end wrench
- 9/16” Open end wrench
- 5/8” Open end wrench
- 1/2” Socket wrench
- 9/16” Socket wrench
- 5/8” Socket wrench
- 11/16” Socket wrench
- 7mm Socket wrench
- 10mm Socket wrench
- 15mm Socket wrench
- T15 Torx bit
- 8” Long socket extension
- Plastic panel pry tool
- Reciprocating saw
- Painters tape

ASSISTANCE

We recommend two people perform the installation as items are heavy and may need to be held in place while installing.

ORGANIZATION

Disassemble the vehicle where you can catalog and store everything. We suggest labeling and bagging all the OEM bolts when removing from the vehicle. Failure to keep track of parts could lead to an inability to properly reinstall components.

DISASSEMBLY

Note: Save all OEM parts until installation is complete!

1. Using a plastic panel pry tool, remove the ten (10) push pins along the grill cover and remove the grill cover from the vehicle. (Figure 1)

Figure 1

2. Using a 10mm socket wrench, remove the four (4) bolts attaching the grill to the truck. (Figure 2)

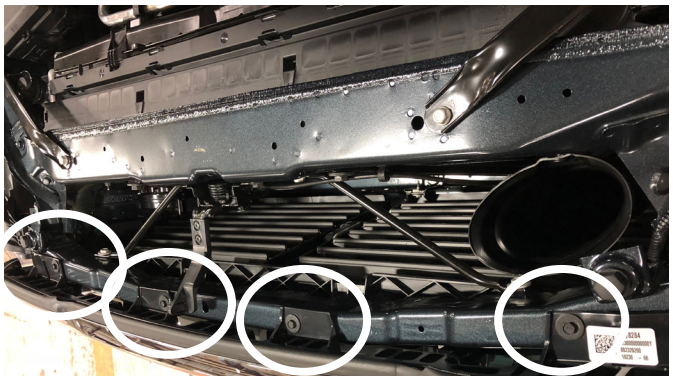


Figure 2

3. Using the T15 Torx bit, remove the two (2) screws attaching the inner fender liner to the valance on the driver side. (Figure 3) Then, using the T15 Trox bit remove the two (2) screws in the inner fender closest the bottom in front of the wheel. (Figure 4)

Figure 3

Figure 4

4. Using a plastic body panel pry tool, carefully pry outward on the plastic fender trim starting at the bottom front of the driver side and work upwards. Only remove as much of the fender trim as needed to get access to the one (1) screw attaching the valance to the fender. (Figure 5-6)

Figure 5

Figure 6

5. Using a 7mm socket wrench, remove the screw attaching the valance to the fender on the driver side. (Figure 7)

Figure 7

6. Using the plastic body panel pry tool, carefully remove the clips in the fender that were attaching the fender trim to the fender and reinstall them onto the backside of the fender trim on the driver side. (Figure 8)

Figure 8

7. Using a plastic body panel pry tool, depress the three (3) tabs under the headlight while pulling outward on the valance to release it from the driver side headlight. (Figure 9)

Figure 9

8. Repeat steps 3-7 on the passenger side.

9. Using the plastic body panel pry tool, release the five (5) clips behind the grille and remove the valance from the truck. (Figure 10)

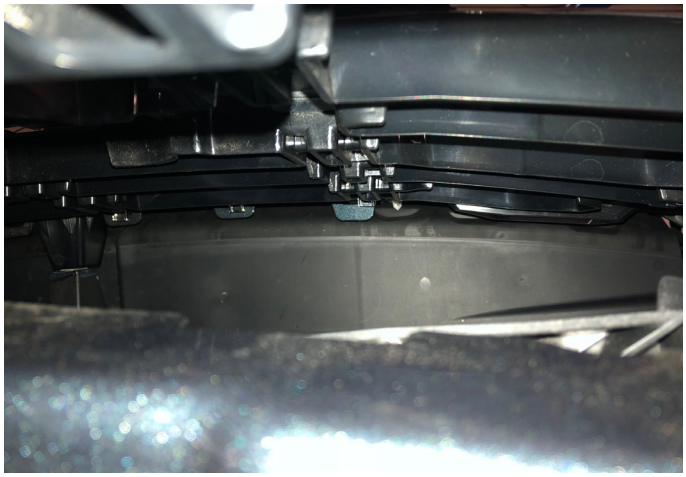


Figure 10

10. Using a 10mm socket wrench remove the three (3) bolts holding the lower portion of the grille to the vehicle. (Figure 11)

Figure 11

11. Using the plastic body panel pry tool, remove the eight (8) ribbed shank push pins holding the air dam along the front of the louver system to remove the air dam. (Figure 12)

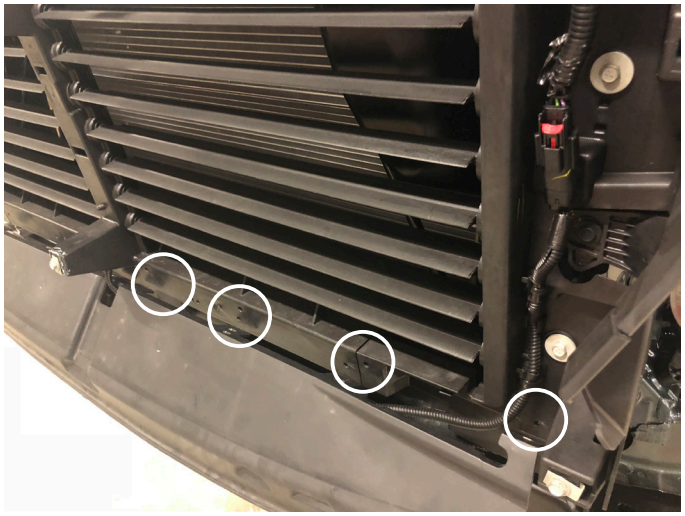


Figure 12

12. Using an 18mm socket wrench, remove the two (2) bumper mounting bolts on the top of the bumper. (Figure 13)

Figure 13

13. Using an 18mm socket wrench with 8” long extension, remove the two (2) 18mm bolts holding the bumper to the frame inboard of the two (2) bolts removed in step 12. (Figure 14)

Figure 14

14. Using an 18mm socket wrench, remove the two (2) bolts attaching the bumper reinforcement brackets to the bumper on the driver side. (Figure 15)

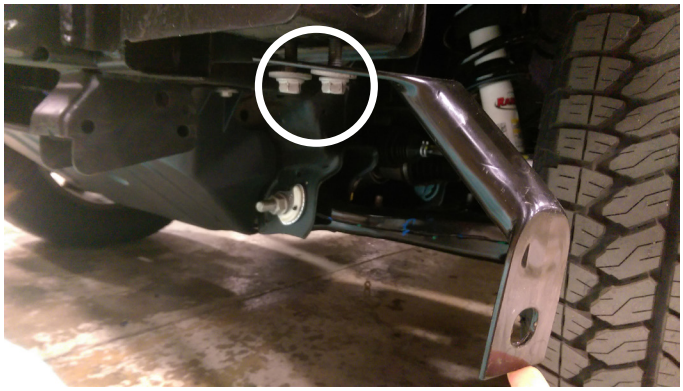


Figure 15

15. Repeat step 14 on the passenger side.

16. Unplug the sensor harness located on the passenger side of the vehicle. (Figure 16)

Figure 16

17. Remove the OEM electrical harness from bumper using a plastic body panel pry tool to remove the ribbed shank push pins. (Figure 17)

Note: Document the location of each sensor housing for reference when reinstalling into your bumper.

Figure 17

18. Disconnect the electrical harness from the fog lights in the bumper by depressing the tab and pulling away from the light. (Figure 18)

Figure 18

19. Remove the sensor from the sensor housing by expanding both sides of the sensor housing and lift up. (Figure 19-20)

Note: Sensors are extremely delicate and must be handled with care! Do not push on face of sensors to remove!

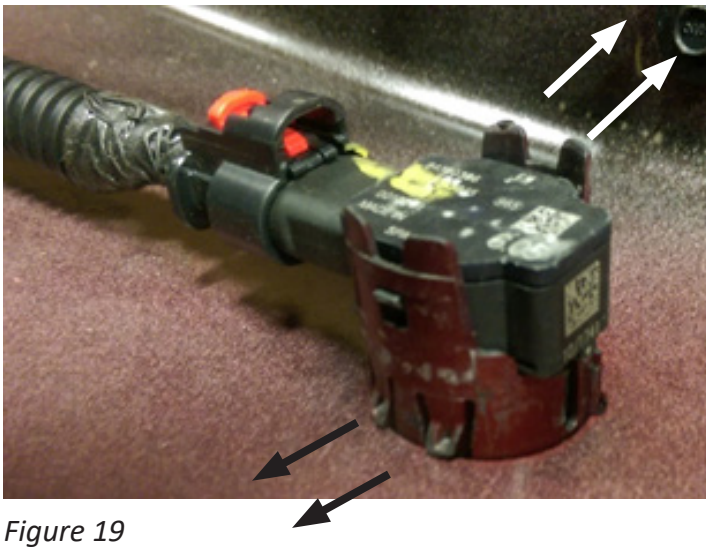


Figure 19

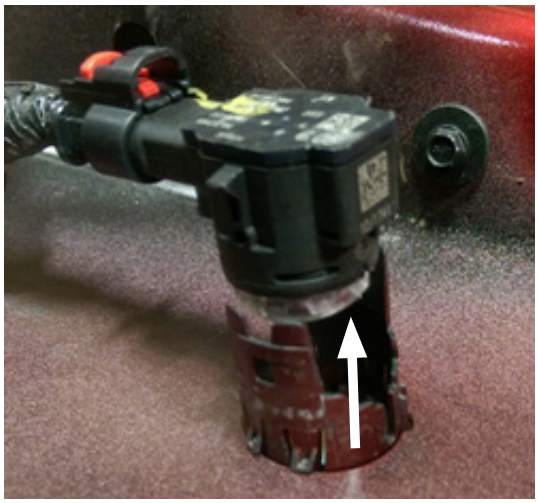


Figure 20

20. Remove the sensor housing from the bumper by depressing the four (4) tabs while pulling outward from the outside of the bumper. (Figure 21-22)

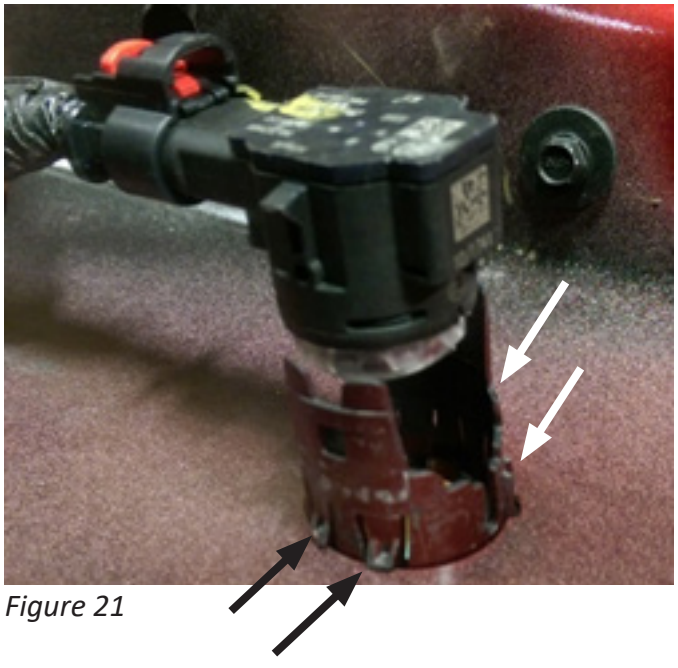


Figure 21

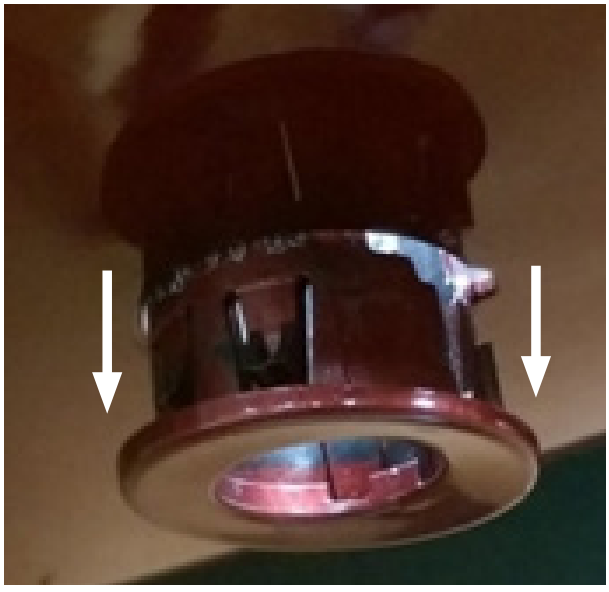


Figure 22

21. Using a 15mm socket, remove the six (6) bolts from the frame horns and remove from the truck. (Figure 23)

Figure 23

22. If vehicle is equipped with OEM tow hooks, remove them using an 18mm socket and 18mm open end wrench to remove the two (2) bolts per frame rail. (Figure 24)

Figure 24

23. Using a plastic panel pry tool, remove the four (4) ribbed shank push pins from the driver side air dam beside the headlight, then remove the air dam. (Figure 25-26)

Figure 25

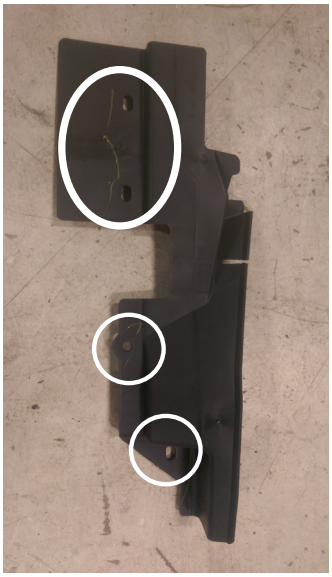


Figure 26

24. Using a 10 mm socket wrench, remove the three (3) screws that attach the valance support bracket to the fender. Two (2) of these screws are accessed from inside the fender. With the screws removed, pull down away from the fender to remove this support bracket. (Figure 27-28)

Figure 27

Figure 28

25. Using a reciprocating saw, cut through the lower grille mounting embossment on the driver side of the louver system. (Figure 29)

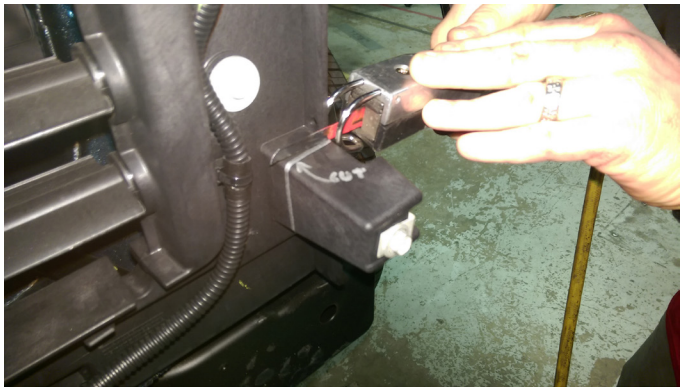


Figure 29

26. Using the reciprocating saw cut around the embossment removed in step 25 and then continue straight down to remove the corner of the louver system. (Figure 30)

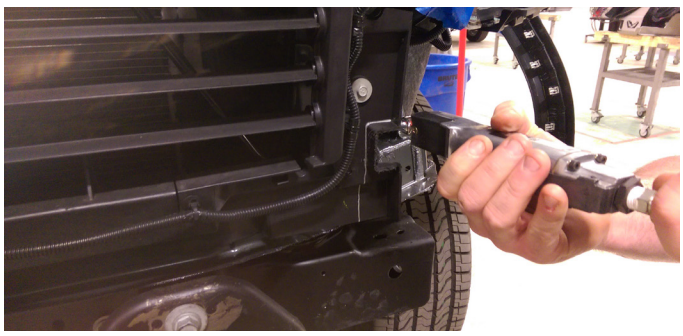


Figure 30

27. Using the 10mm socket wrench, remove the screw attaching the fender to the support rod behind the headlight on the driver side of the vehicle. (Figure 31)

Figure 31

28. Using the 10mm socket wrench, remove the three (3) screws attaching the inner fender support bracket to the body (Figure 32-33)

Figure 32

Figure 33

29. Repeat steps 23 through 28 on the passenger side of the vehicle.

30. Using the painter's tape, mark a line parallel with the front edge of the driver side fender on the black plastic fender trim. (Figure 34)

Figure 34

31. Using the reciprocating saw, cut along the side of the tape placed in step 30 that is in line with the edge of the fender. (Figure 35-36)

Figure 35

Figure 36

NOTE: part numbers are etched on each subassembly, they may be faint due to being covered with the powder coating

NOTE: anti-seize is recommended when installing any stainless-steel hardware to prevent galling the threads

1. Using the 3/16” Allen wrench and the 1/2” open end wrench, install the upper grille tunnel (21781) to the grille shell (21779) with 17 of the provided 5/16” x 1.0” Stainless steel screws, 5/16” stainless steel bonded sealing washers, flat washers, lock washers, and nuts. (50125-HW). (Figure 37, #1)

2. Using the 3/16” Allen wrench and the 1/2” open end wrench, install the driver side grille tunnel (21782) to the grille shell (21779) with six (6) of the provided 5/16” x 1.0” Stainless steel screws, 5/16” stainless steel bonded sealing washers, flat washers, lock washers, and nuts. (50125-HW). (Figure 37, #2)

3. Using the 3/16” Allen wrench and the 1/2” open end wrench, install the passenger side grille tunnel (21783) to the grille shell (21779) with six (6) of the provided 5/16” x 1.0” Stainless steel screws, 5/16” stainless steel bonded sealing washers, flat washers, lock washers, and nuts. (50125-HW). (Figure 37, #3)

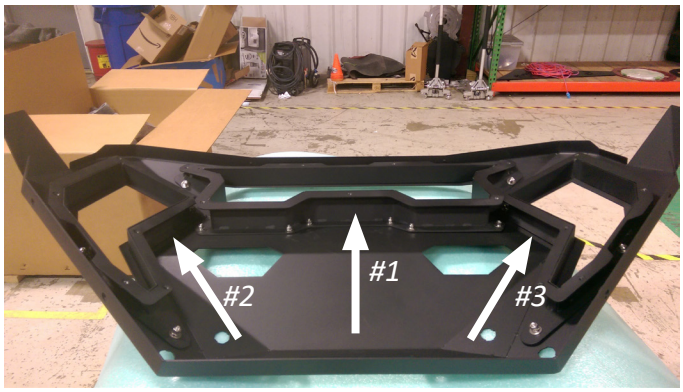


Figure 37

4. Using the 9/16” socket wrench, install the driver side mesh (21785) to the driver side tunnel (21782) with six (6) of the provided 3/8” x 1” yellow-zinc grade 8 screws, 3/8” lock washers, and flat washers. (50171-HW). (Figure 38, #1)

5. Using the 9/16” socket wrench, install the passenger side mesh (21786) to the driver side tunnel (21783) with six (6) of the provided 3/8” x 1” yellow-zinc grade 8 screws, 3/8” lock washers, and flat washers. (50171-HW). (Figure 38, #2)

6. Using the 9/16” socket wrench, install the upper center mesh (21784) to the upper center tunnel (21781) with seven (7) of the provided 3/8” x 1” yellow-zinc grade 8 screws, 3/8” lock washers, and flat washers. (50171-HW). (Figure 38, #3)

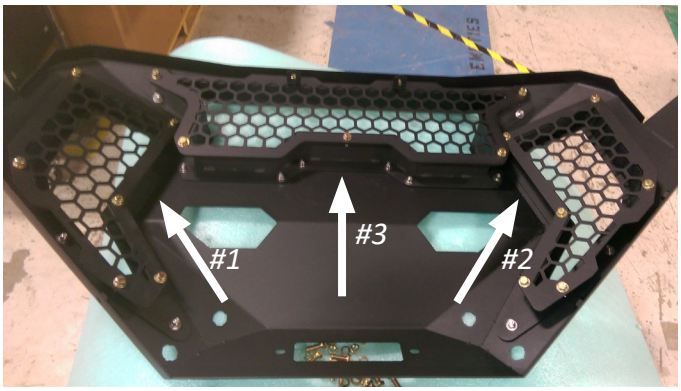


Figure 38

7. Using a 9/16” socket wrench, install the two (2) core support mounting brackets (21787) to the top of the center mesh (21784) with two (2) of the provided 3/8” x 1” yellow-zinc grade 8 screws, 3/8” lock washers, and flat washers. (50171-HW). (Figure 39)

8. Install the sensor housings, sensors, and wiring harness into the grille shell (21779) by reversing the processes used in steps 17 through 20 of disassembly to remove them.

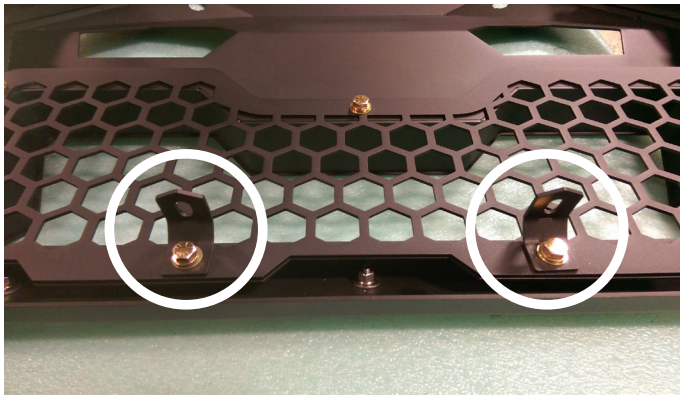


Figure 39

The sensor housing will not be reinstalled in their factory locations or orientations. Below is a chart or how the sensor housings will be reoriented.

DS Outer OEM bumper → DS Inner location on Grumper
DS Inner OEM bumper → DS Outer location on Grumper
PS Inner OEM bumper → PS Outer location on Grumper
PS Outer OEM bumper → PS Inner location on Grumper

The sensor housings should slide into the cutouts in the Grumper without any pressure. IF ANY RESISTANCE IS FELT WHILE INSERTING THEM STOP AND CHECK LOCATION AND ROTATION.

9. Using the 5/8” socket wrench, install the winch tray (21780) into the vehicles frame with two (2) of the provided 7/16” x 1.25” yellow-zinc, grade 8 screws, 7/16” lock washers, and flat washers (50171-HW) (Figure 40) and one (1) of the left-hand nut plates (21788-01) on the driver side frame rail (Figure 41). Repeat the bolting process for the passenger side frame rail using one (1) of the right-hand nut plates (21788-02).

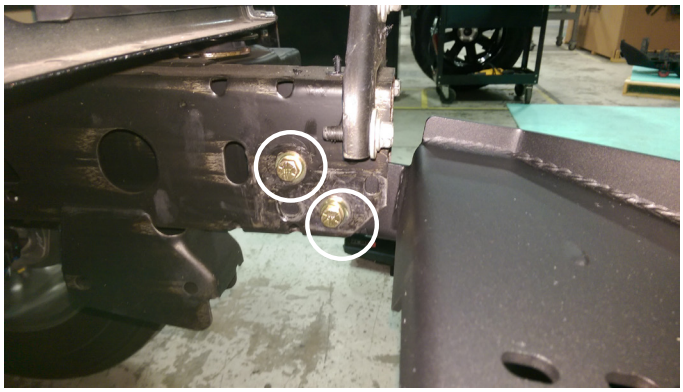


Figure 40

Figure 41

10. If installing a winch, do so now following the winch manufactures instructions.

11. Using painter’s tape, cover any of the areas that will come in contact with the Grumper to avoid any damage during installation. (Figure 42)

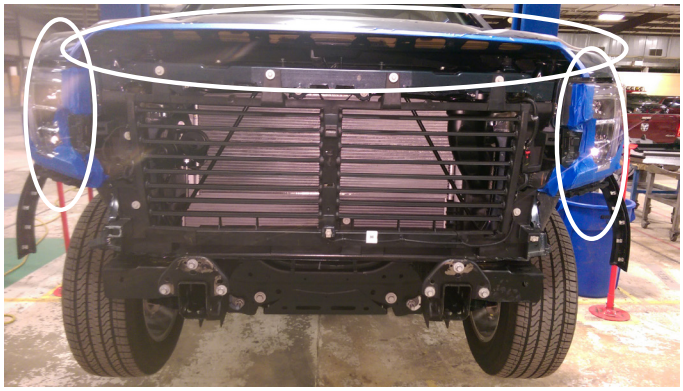


Figure 42

12. Using a 5/8” open end wrench, loosely install the driver side wing (21846) to the winch tray (21847) with two (2) of the provided 7/16” x 1.25” yellow-zinc grade 8 screws, lock washers, flat washers (50171-HW) and one (1) of the right-hand nut plates (21788-02). (Figure 43-44) Repeat this process on passenger side using one (1) of the left-hand nut plates. (21788-01)

Figure 43

Figure 44

13. Using a 10mm socket wrench, reinstall the factory screw removed in step 27 of disassembly into the reinforcing bracket inside the driver side wing (21846) behind the headlight. (Figure 45)

Figure 45

14. Repeat step 13 on the passenger side of the vehicle using the factory screw removed earlier.

15. With assistance, place the assembled Grumper grille onto the wings. Plug in the wiring harness reversing the steps outlined in step 16. (Figure 46-47)

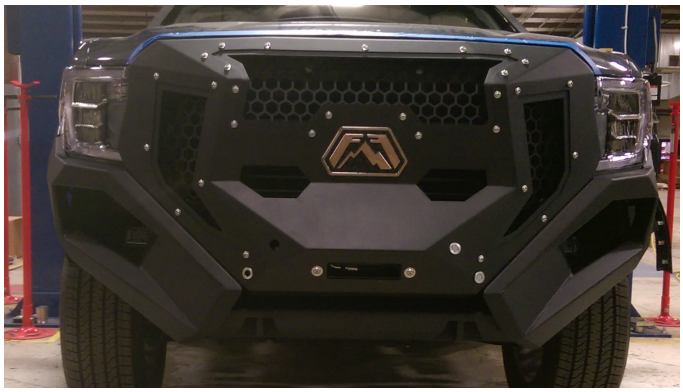


Figure 46

Figure 47

16. Using the 5/8” open end wrench, attach the grille (21779) to the wings (21846 and 21847) with four (4) of the provided 7/16” yellow-zinc grade 8 screws, 7/16” lock washers, and flat washers (50171-HW). (Figure 48)

Figure 48

NOTE: If using a winch skip step 17 and install your fair-lead using the hardware provided from the fair-lead manufacture

17. Using the 1/4” Allen wrench and 11/16” open end wrench, install the two (2) provided 7/16” x 1.5” stainless steel screws, 7/16” flat washer, flat washer, lock washer, and nut in the fair-lead mounting holes (50171-HW). (Figure 49)

Figure 49

18. Using the 10mm socket wrench reinstall two (2) of the OEM screws removed in step 2 to attach the grille (21779) to the core support. (Figure 50)

19. If installing lights in the wings of the Grumper, do so now using the lighting manufactures hardware and instructions.

20. At this point, adjust the center and wings to the desired body gaps and tighten all hardware.

Figure 50

21. Test the functionality of the front parking sensors. If they are working correctly, use the provided epoxy (61632) to attach the sensor housings to the Grumper grille (21779) by applying a drop of epoxy on each side of the housing on the inside of the grille shell.

22. Install the provided Fab Fours logo badge (61713) in the center of the Grumper grille (21779) by removing the paper off the adhesive on the back of the badge, centering it on the middle face of the grille, and applying pressure to the badge for 30 seconds. (Figure 51)

Figure 51