



INSTALLATION MANUAL
PREMIUM FRONT BUMPER
PRODUCT NUMBER: GM20-A505X
APPLICATION: 2020 GMC HD



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 MAY 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 of 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

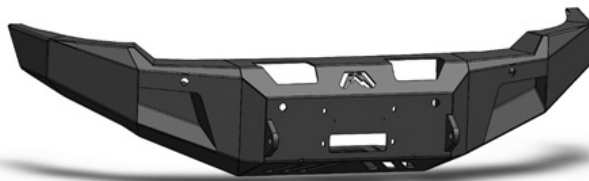
GETTING STARTED

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



22225



22226



22227



20296 x4



22229

HARDWARE KIT | 50233-HW

FAB FOURS IDENTIFICATION	COMPONENT DESCRIPTION	QTY
50233-HW	3/8"-16 X 1", Yellow Zinc Hex Cap Bolt, Grade 8	4
50233-HW	3/8", Yellow Zinc Flat Washer, Grade 8	4
50233-HW	3/8", Yellow Zinc Lock Washer, Grade 8	4
50233-HW	1/4"-20 X 1", Yellow Zinc Hex Cap Bolt, Grade 8	4
50233-HW	1/4"-20, Yellow Zinc Hex Nut, Grade 8	4
50233-HW	1/4", Yellow Zinc Flat Washer, Grade 8	4
50233-HW	1/4", Yellow Zinc Lock Washer, Grade 8	4
50233-HW	1/2", Yellow Zinc Lock Washer, Grade 8	8
50233-HW	1/2", Yellow Zinc Flat Washer, Grade 8	8
50233-HW	1/2"-13, Yellow Zinc Hex Nut, Grade 8	8

TOOLS REQUIRED

- 7mm Socket wrench
- 10mm Socket wrench
- 15mm Socket wrench
- 18mm Socket wrench
- 7/16" Socket wrench
- 7/16" Open End wrench
- 9/16" Socket wrench
- 3/4" Socket wrench
- 3/4" Open End wrench
- 18mm Open End wrench
- T10 Star Head Socket wrench
- Wire Cutters
- Pliers
- Body Pry tool

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. Open the hood and remove the nine (9) push pins holding the grill cover on using a body pry tool. Use a T15H star socket wrench to remove the two (2) bolts holding the hood latch on and remove the hood latch. Remove the grill cover from the truck and set aside for later install. (Figure 1)



Figure 1

2. Use a 10mm socket wrench to remove the four (4) bolts holding the top of the grill to the truck. Carefully pull the grill off the truck by disengaging the body clips. (Figure 2)



Figure 2

3. Use a 15mm socket wrench underneath the bumper to remove the four (4) bumper support bracket bolts. (Figure 3)



Figure 3

4. Use an 18mm socket wrench to remove the four (4) mounting bolts. (Figure 4)

5. Unplug the four (4) bumper sensor harnesses before removing the bumper from the truck.

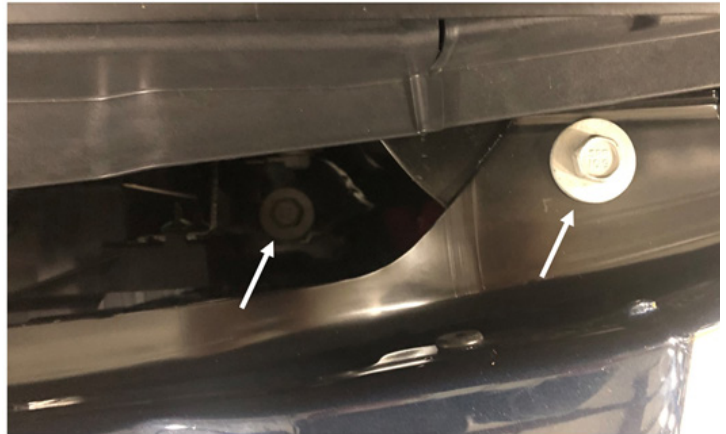


Figure 4

6. Use a 7mm socket wrench to remove the lower louvers from the mounting brackets. (Figure 5)

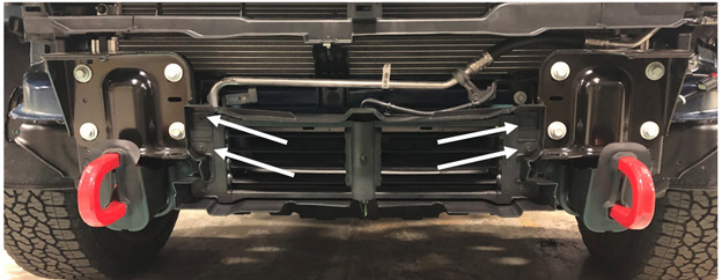


Figure 5

7. Use a 15mm socket wrench to remove the four (4) bolts holding the mounting brackets on. (Figure 6)

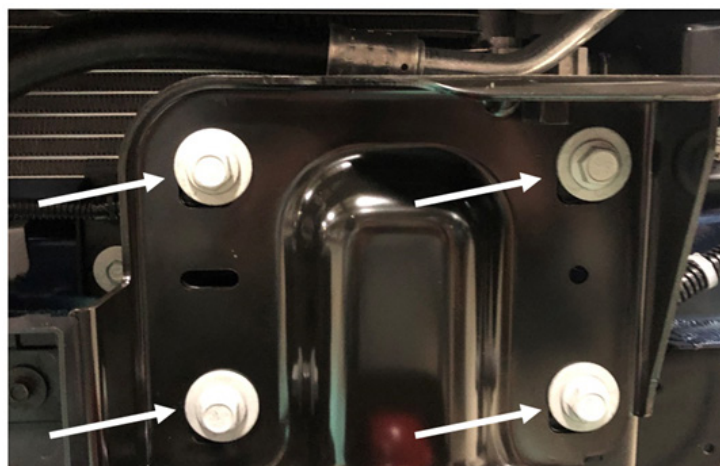


Figure 6

8. Use an 18mm socket wrench to remove the two (2) bolts holding the factory tow hooks onto the frame. (Figure 7)



Figure 7

9. Use a 15mm socket wrench to remove the nine (9) bolts holding the bumper structure on. Remove the metal structure from the bumper to access the sensor harness and OEM fog lights. (Figure 8)



Figure 8

10. Unclip all the plugs holding the sensor harness to the bumper using a body pry tool. Carefully remove the sensor from the housing by pushing the housing apart and removing the sensor by pushing up. (Figure 9)

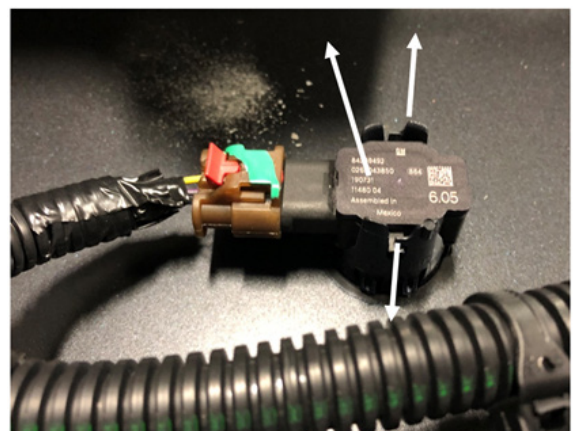


Figure 9

11. Remove the sensor housings from the bumper by pressing the four (4) clips in and pushing it out of the bumper. Make sure to mark what side of the bumper the housing came out of for ease of reinstallation into the Fab Fours bumper. (Figure 10)

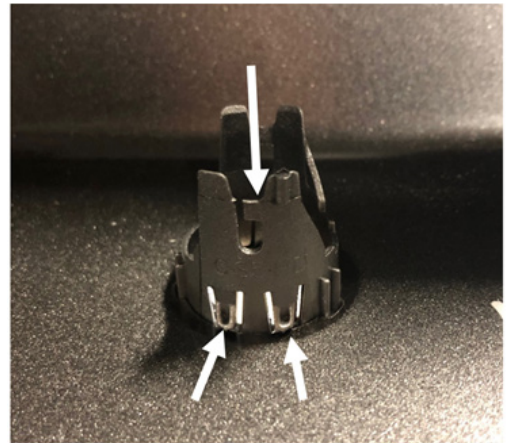


Figure 10

12. Remove the engine heater plug from the bumper by pressing in on the spring and turning clockwise. (Figure 11)

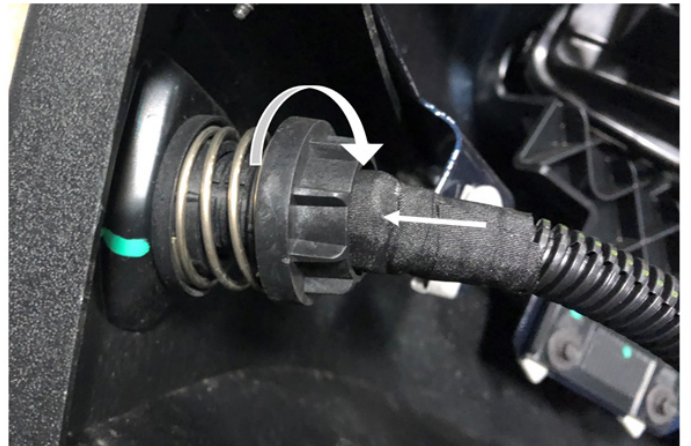


Figure 11

INSTALLATION

13. Insert both brackets (22226 & 22227) into the frame rail ends and very loosely install the four (4) shorter OEM bolts into the frame rail end flange and two (2) longer OEM bolts into the frame rail end, just supporting both brackets. (Figure 12)

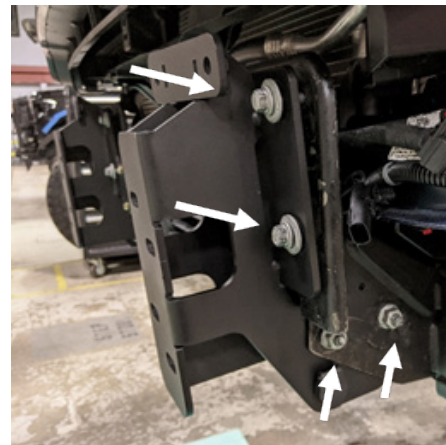


Figure 12

14. Using the provided four (4) bolt stacks of 1/4"-20 yellow zinc hex bolt, flat washers, lock washer, and hex nut, loosely install the factory louver system. (Figure 13) (50233-HW)



Figure 13

15. Using a 15mm socket wrench fully tighten down the four (4) OEM frame end bolts on both brackets (22226 & 22227). (Figure 12)

16. Using both a 18mm socket wrench and 18mm open end wrench, fully tighten down the four (4) OEM long frame bolts on both frame rails (22226 & 22227). (Figure 12)

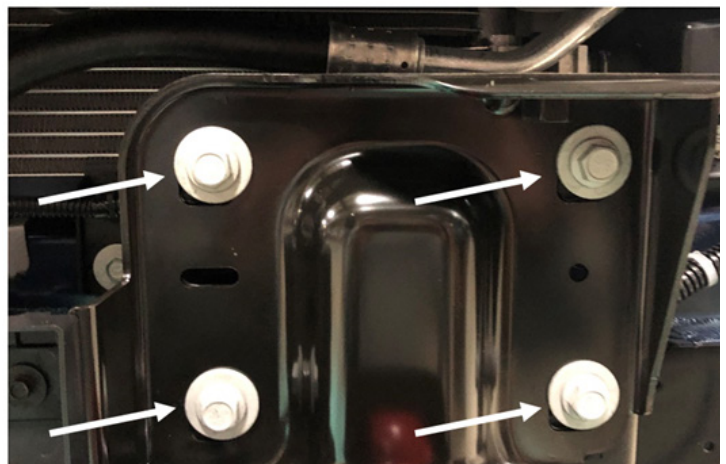


Figure 6

17. If equipped, install the engine heater plug into the driver side bracket (22226) in a manner opposite of the removal. (Figure 14)

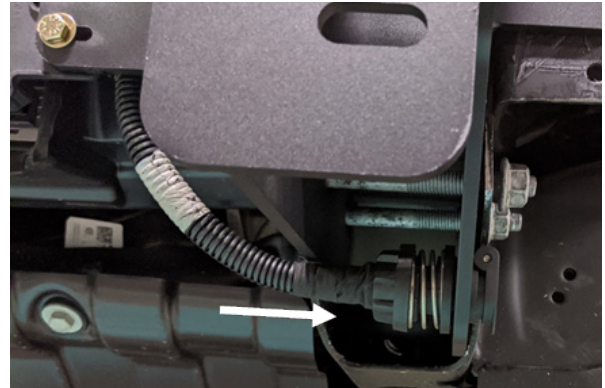


Figure 14

18. If equipped, route and reconnect the engine heater plug wiring harness around the back side of the driver side bracket (22226). (Figure 15)



Figure 15

19. Route and reconnect the two (2) OEM wiring harness plugs from the factory louver system behind the frame rail end of the driver side fame rail end. If equipped, route the engine heater plug wiring behind the fame rail also. Zip tie and secure the wiring bundles as desired. (Figure 16)



Figure 16

20. Using the provided four (4) bolt stacks of 3/8"-16 yellow zinc hex bolt, flat washers, lock washer, and hex nut, loosely install the backer strip (22229) to both brackets (22226 & 22227). (50233-HW) (Figure 17)

***Note: Cracking the bracket bolts can alleviate any bolt misalignment issues with the backer strip to brackets. Be sure to retighten all bracket hardware if loosened.



Figure 17

21. Center the backer strip with grill and while using a 9/16" socket wrench, fully tighten the outer two bolts followed by the inner two bolts. (Figure 18)

***Note: A bow will form in backer strip when fully tightened down. This is intended to match the curvature of the grill

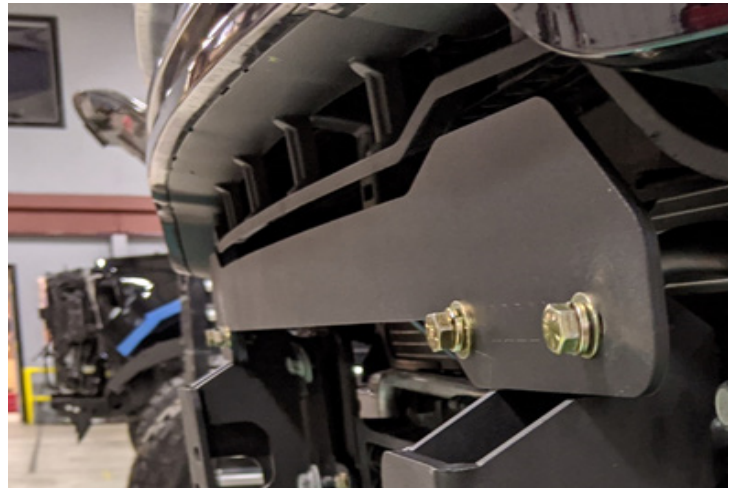


Figure 18

22. Using the provided epoxy, secure all four (4) OEM sensor housings in their appropriate sensor cutout in the bumper (22225). (Figure 19)



Figure 19

23. Using a pair of wire snips, clip off all the push retainers from the factory wiring harness. (Figure 20)



Figure 20

24. After the epoxy has cured, fully seat all four (4) sensors into the sensor housings being mindful not to distort the rubber sensor isolator that sits around the sensor tip. Be sure both sides of the sensor housing are fully clipped on the sensor.

25. Route and zip tie the factory wiring harness to the bumper (22225) with the main factory connector being on the passenger wing. (Figure 21)



Figure 21

26. Install any lights or winch following the manufacturers instructions and using any manufacturers included hardware.

27. With assistance, lift the bumper (22225) up to the brackets (22226 & 22227) and secure it loosely using the provided four (4) bolt strips (20296) and eight (8) 1/2"-13, yellow zinc hex nut, flat washers, lock washer. (50233-HW)

28. With assistance of two, lift and center the bumper to the vehicle and using an 3/4" open end wrench, fully tighten down the eight (8) 1/2"-13 nuts securing the bumper (22225) to the brackets (22226 & 22227).

29. Reconnect the factory wiring harness main connector and both fog lights.