



**INSTALLATION MANUAL**  
**RED STEEL REAR BUMPER**  
**PRODUCT NUMBER: FS17-RT4150**  
**APPLICATION: 2017-19 FORD SD**



## **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.

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### **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.

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### **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

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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!

*Ereg Higgs*

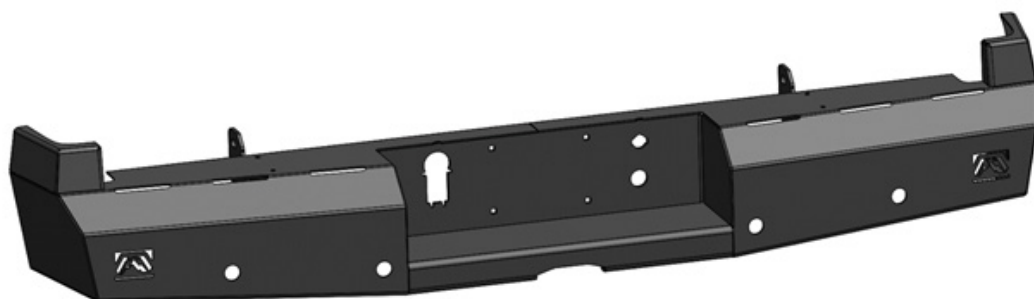
**FOUNDER, FAB FOURS**

# GETTING STARTED

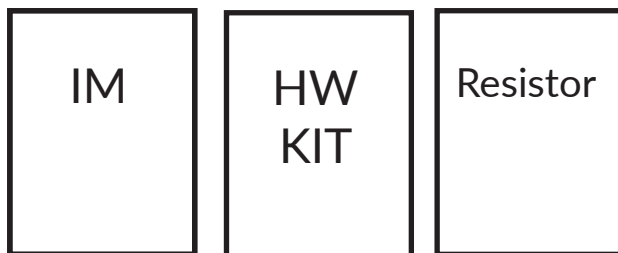
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Before you begin the installation process of your new Fab Fours product, we suggest laying out all materials and parts on a pad or protective surface.

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.



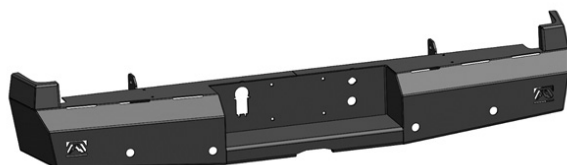
# PROVIDED MATERIALS



RT4150-IM

50076-HW

61675



22153



61672

## HARDWARE KIT | 50076

FAB FOURS IDENTIFICATION	COMPONENT DESCRIPTION	QTY
50076-HW	½" License Plate Nut, Plastic	2
50076-HW	#8-32 X ¾" Button Head Bolt, Stainless Steel	4
50076-HW	#8-32 Nylock Hex Nut, Stainless Steel	4
50076-HW	#8 Flat Washer, Stainless Steel	4
50076-HW	1-¾" Rubber Grommet	4
50076-HW	Plastic Plug	4

## TOOLS REQUIRED

- 1/2" Socket wrench
- 13/16" Socket wrench
- 3/32" Allen wrench
- Drill
- #16 Drill bit
- Flat head screwdriver

## 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. Start by locating the trailer plug and tag light plug shown below. Unplug both of these. (Figure 1)

2. Next using a 13/16" deep socket, remove the four nuts holding the factory rear bumper brackets to the frame on each side of vehicle. (Figure 2)

3. Next using 1/2" socket remove the two bolts located on either side of receiver tube (see image). Once these are removed rear bumper is ready to come off vehicle. (Figure 3)

4. Disconnect the trailer and back-up sensor harnesses from the OEM bumper (if present).

5. Unplug the OEM license plate light from the housing and secure to the vehicle.

6. Remove the clips holding the trailer hitch plug from the bumper. This plug will be modified later.



Figure 1



Figure 2



Figure 3

# INSTALLATION

7. Install the grommets into sensor holes. If equipped, insert the sensors from the back side. If not equipped, install provided plugs into the grommets. (50076-HW)

8. Install the tag light into the 1 ¼" hole in the center section. The powder coating may need to be removed from the hole for proper grounding. Connect the light to the hot wire of the OEM tag light circuit. Verify operation. (Figure 4)

9. Drill the OEM Trailer Hitch Plug using a #16 Drill Bit (.177") in the locations pointed out with arrows below. Use care to drill directly in the center of the circles in the plastic. (Figure 5)

10. Using a 3/32" Allen wrench, install the trailer plug into the cutout in the new bumper using the #8-32 x ¾" stainless button head bolt, #8 stainless flat washers, #8-32 stainless Nylock nut. (50076-HW)

11. Disconnect the factory harness from the OEM bumper. Attach wiring to lights, sensors (if available), and trailer plug. Use zip-ties to secure excess wiring. Do not connect the wiring harness from the bumper to the vehicle until the bumper is fully installed.

12. With assistance, lift your new Fab Fours bumper into place and line up the mounting bracket with OEM mounting location on the outside of the frame. (Figure 6)



Figure 4

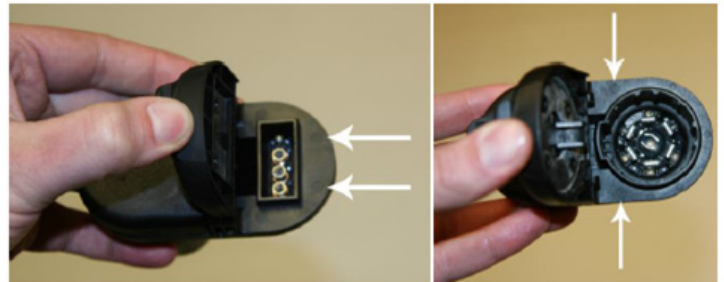


Figure 5

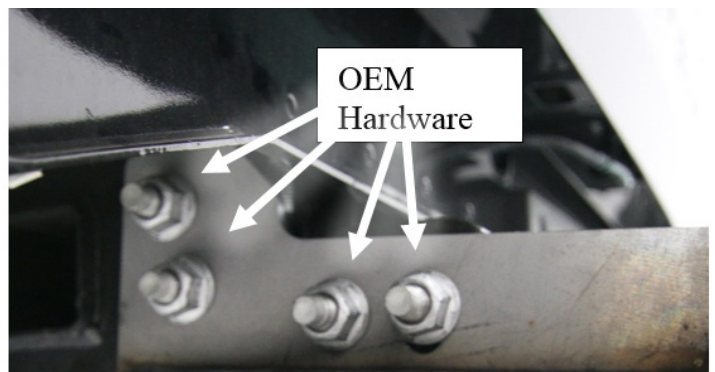


Figure 6



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**13. Next loosely install factory hardware back into bumper mount.**

**14. Finally position bumper into desired location and tighten all the OEM hardware.**

**15. Reinstall license plate with provided plastic inserts. (Figure 7)**

**16. Reconnect the bumper wiring harness to the vehicle harness connector.**

**17. Secure all loose wiring and harnesses to the frame or bumper with zip ties.**



*Figure 7*