



Installation Instructions

Ford F150 Vengeance Rear

Product Number: E1751

Application: 10-14 Ford Raptor
2009-2014 F150

SAFETY

Your safety and the safety of others is very important.

- In order to help you make informed decisions about safety, we have provided installation instructions and other information.
- These instructions alert you to potential hazards that could hurt you or others.
- Please do a job safety analysis (JSA) before each task to identify potential hazards for your situation and remove/protect against them.
- You must use your own good judgment, and take your time.

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

**THIS PRODUCT IS FOR OFFROAD USE ONLY. ALL LIABILITY FOR
INSTALLATION AND USE RESTS WITH THE OWNER.**

**CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY
OR EQUIPMENT DAMAGE.**

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

Injury hazard

Failure to observe these instructions could lead to severe injury or death.

- 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 on a vehicle. Thoroughly inspect the area to be drilled (on both sides of material) prior to drilling, and relocate any objects that may be damaged.
- 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.
- Always** perform regular inspections and maintenance on mounts and





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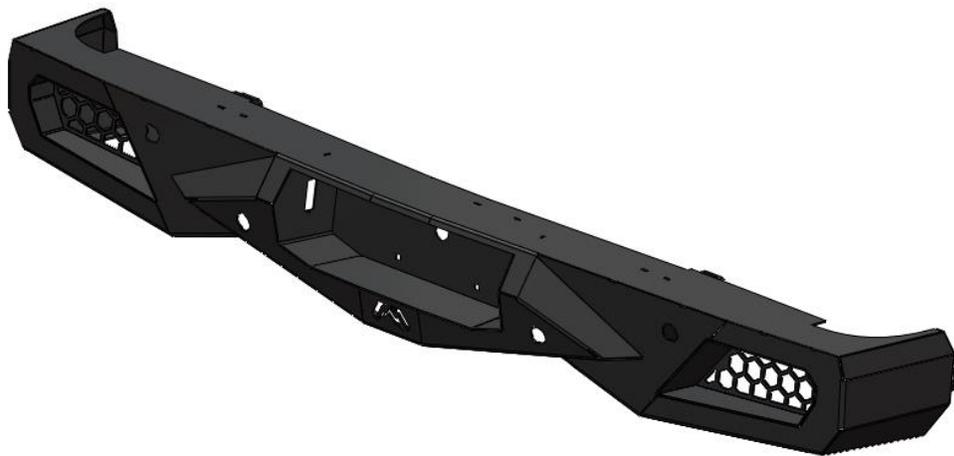
related hardware.

I. Overview

Congratulations on your new purchase of the industries' best and most stylish Rear Bumper available for the 2009 Ford F150! This Bumper has been **engineered** for strength while keeping the weight down.

Your Rear Bumper designed in 3-D from digitized data, CNC laser cut, fabricated, and powder coated... all in the U.S.A.

Enjoy the fit and finish of a quality Ford F150 Rear Bumper from Fab Fours Inc.





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II. Tools Required

- Socket Wrench with Extension
- Breaker Bar
- 3/4" & 18mm Sockets
- Flat and Phillips Head Screw Drivers
- 3/4" Box End Wrench
- Allen wrench set
- Floor Jack and wood block.

III. Removal of Stock Bumper

A. Unplug the Factory License Plate lights from the back side of the light housing from underneath the truck. Turn counter clockwise until loose. Secure up and out of harm's way.

B. Disconnect the wiring harness from the back up sensors. This can either be done by unplugging the connectors at each sensor or removing the sensor from the trim piece holding them into the bumper.

C. Remove the 7 plastic Christmas tree plugs holding the harness to the inside of the bumper. Fish the harness out of the bumper and out of the way.

D. Remove the 6 bolts (3 per side) holding the factory bumper to the receiver hitch using a 10mm socket (ref. fig. 1 circles).





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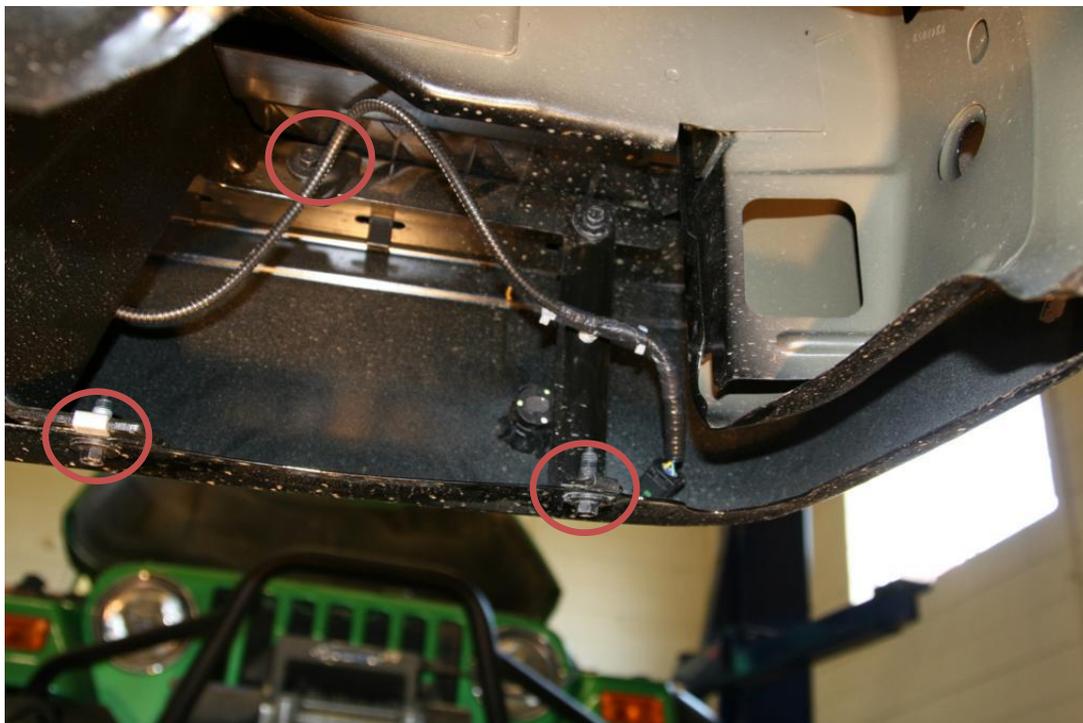


Figure 1

E. Using two people each grasping one corner of the bumper lift and rotate towards the back of the vehicle. Note there are two plastic locating fingers that pass through the hitch that need to be freed for the bumper to come off.

F. Remove the 6 nuts (3 per side) and 2 bolt strips holding the factory bumper to the receiver hitch using a 21mm socket. Remove hitch receiver and set aside.

G. Locating the exhaust hanger under the rear passenger side of the vehicle, loosen bolt and slide down hanger, then slide exhaust down to a lower position before tightening.





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Figure 2

H. The outer edges of the plate on the trailer hitch above the steel loops, area indicated by the circle below, need to be bent up for the bottom of the Fab Fours bumper to clear (ref. fig. 3).





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Figure 3 (image of bumper and hitch installed)

I. Your truck is now ready to have the Fab Fours Rear Bumper Installed!

IV. Pre-Installation





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- A. Remove Fab Fours bumper from the shipping carton and lay all items out on a blanket to prevent damage.
- B. Install provided license plate lights in indicated locations (ref. fig. 4 arrows).

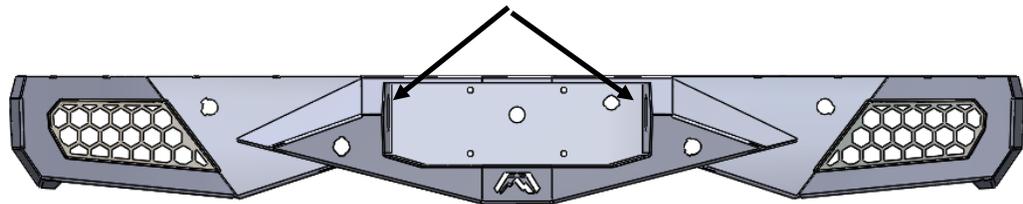


Figure 4

- C. *When experiencing a hyper flash or when replacing halogen lights with led lights a resistor should be used. The resistor will wire into the positive power supply to the light and the negative side of the ground supply to the light.





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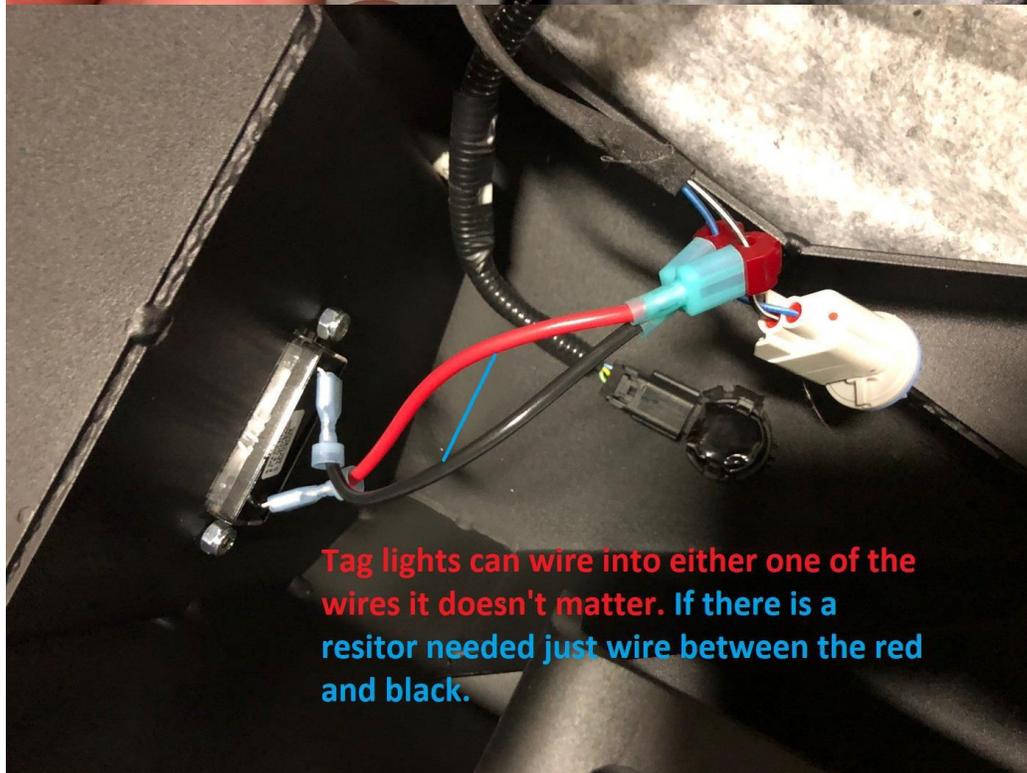
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Red connectors go on the factory side of the harness.



Tag lights can wire into either one of the wires it doesn't matter. If there is a resistor needed just wire between the red and black.





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- D. *Using a small flat head screw driver remove the snap ring on the back of the spare tire lock freeing it from the factory bumper. Re-install it into the Fab Fours bumper the same way. Installing the supplied plated spacer under the factory snap ring bracket*
- E. **FOR SENSOR BUMPER INSTALLATION: CAREFULLY remove sensors from all housings, taking care to avoid touching the front of the sensors, the side tabs on the housing must be pulled away as the sensor is pulled out (ref. fig.5 circles). Then pull housing from OEM bumper and install sensor housings in Fab Fours bumper by lining up plastic protrusions of the housing with the sensor profile (ref figures 6a-b).**



Figure 5

- F. **Look at images below to confirm proper orientation. Passenger and driver side sensor placement are mirrored.**





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Figure 6a (inner passenger side: plug toward center of bumper)





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Figure 6b (outer passenger side: plug toward ground)

- G. Prep the area shown below and attach the red LED strip in the location shown. Wire as desired depending on functionality. You have the following options: wire to your brake lights, running lights or tag lights.**



Figure 5 – LED Strip Location





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V. Rear Bumper Installation

NOTE: The Following Installation steps apply to the installation of the. PLEASE READ THE ENTIRE MANUAL BEFORE ATEMPTING INSTALLATION! Ignoring these steps will increase your probability of scratching the vehicle during product Installation!

A. Place trailer hitch receiver on bumper (ref. fig. 7a), put square spacer on bottom stud of stud plate (ref. fig. 7b), and insert bolt strip with spacer (ref. fig. 7c) through both.



Figure 7a





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Figure 7b



Figure 7c

B. With the help of two others and grasping the ends of the bumper and the steel loops on both sides, lift the assembly together. Install into the frame as shown below using the factory fasteners.





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Figure 8

C. Very carefully open the tailgate watching the bottom edge of the tailgate in relation to the top of the bumper making sure they do not come in contact. Also make sure to allow space between the tailgate and the top of the bumper when tailgate is fully open.

D. Fully tighten all fasteners between bumper and brackets and brackets and frame.

E. Install supplied license plate plastic nut inserts and license plate.

F. Enjoy your New Rear Replacement Bumper from Fab Fours!





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VI. Maintenance/Care

- Periodically check and tighten all fasteners.
- Stripped, fractured, or bent bolts or nuts need to be replaced.
- After washing of the vehicle make sure to fully dry all surfaces

VII. Contact Information

Fab Fours Inc.
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More than expected... Better than expected

