



Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

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. Please note tailgates can flex lower when under load.

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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Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

related hardware.

I. Overview

Congratulations on your new purchase of the industries' best and most stylish rear bumper available for the 14-15 Toyota Tundra. This bumper has been designed to be lightweight and easily customized with the industry's highest quality accessories.

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 Toyota Tundra rear bumper from Fab Fours Inc.





Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

Tools Required

- Socket Wrench with Extension
- 3/4", 12mm, & 19mm Sockets
(ratcheting wrenches may also be convenient)
- 3/4", 12mm, & 1 1/32" Box End Wrenches
- 3/32" Allen Wrench
- Flat and Phillips Head Screw Drivers
- Floor Jack and wood block.
- Grinder with cut off wheel

II. Removal of Stock Bumper

A. *Disconnect the harness on the back side of the license plate lights from the main connector on the truck frame. Secure the harness out of harms way to the back of the bumper.*

B. *Remove your license plate from the OEM Bumper.*

C. *Remove the plastic corner pieces from the top of the OEM bumper by pulling up from the outside edge. If the plastic is being stubborn during removal the plastic clips can be popped loose from the bottom side of the bumper.(Figure 1)*



Figure 1





Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

D. Remove the Phillips head screw passing through the plastic that was hidden by the license plate previously. See Image Below.



Figure 2

E. Pop the plastic clips loose on the bottom side of the main piece of plastic on the top side of the bumper allowing access to the OEM fasteners.

F. Using a 12mm wrench remove the eight OEM fasteners holding the OEM bumper shells to the receiver hitch.





Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

Figure 3

- G. Remove the OEM bumper shells and set aside.**
- H. If your truck is equipped with sensors remove the sensors and sensor harness from the bumper at this time, and save for the Fab Fours bumper installation.**
- I. Using a cut off wheel or similar remove the center OEM bumper mount from the receiver assembly cutting in the indicated areas below. Make sure to only cut the bracket and not the receiver tube.**





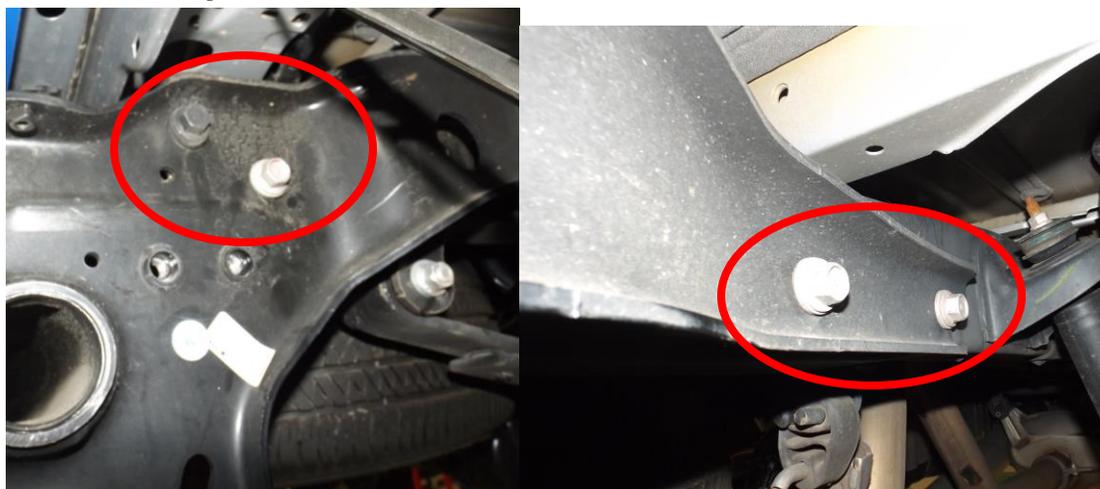
Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

J. Referring to the images below, locate the bolts on each side of the hitch receiver, that affix the hitch receiver to the frame. Using a 21mm socket w/ driver loosen, DO NOT REMOVE, the 4 bolts on each side of the hitch receiver. This should allow the hitch receiver to drop to its lowest position.



K. Your truck is now ready for the installation of your new Fab Fours Rear Bumper!





Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

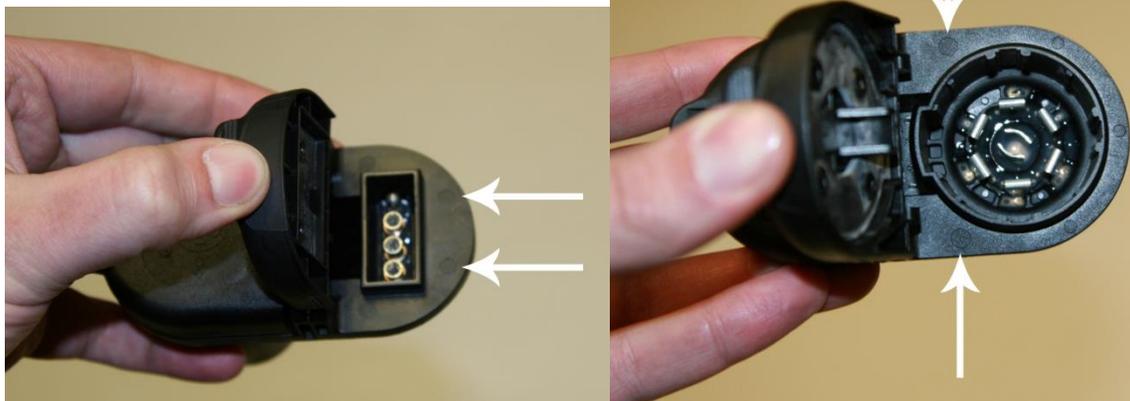
Application: 2014-2019 Toyota Tundra

III. Rear Bumper Installation

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

A. Remove the Bumper from the shipping carton. Lay all items out on a blanket to prevent damage to the powder coating.

B. 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.



C. Install the trailer plug into the cutout in the new bumper using the #8 hardware supplied.





Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

D. For sensor equipped vehicles: install sensors from the outside of the bumper by inserting the connector in first and rotating until the sensor is fully installed. DO NOT EPOXY AT THIS TIME.





Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

E. Install the Black License Plate lights into the bumper using the supplied #8 hardware. These will be wired once the bumper is installed.

F. *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.



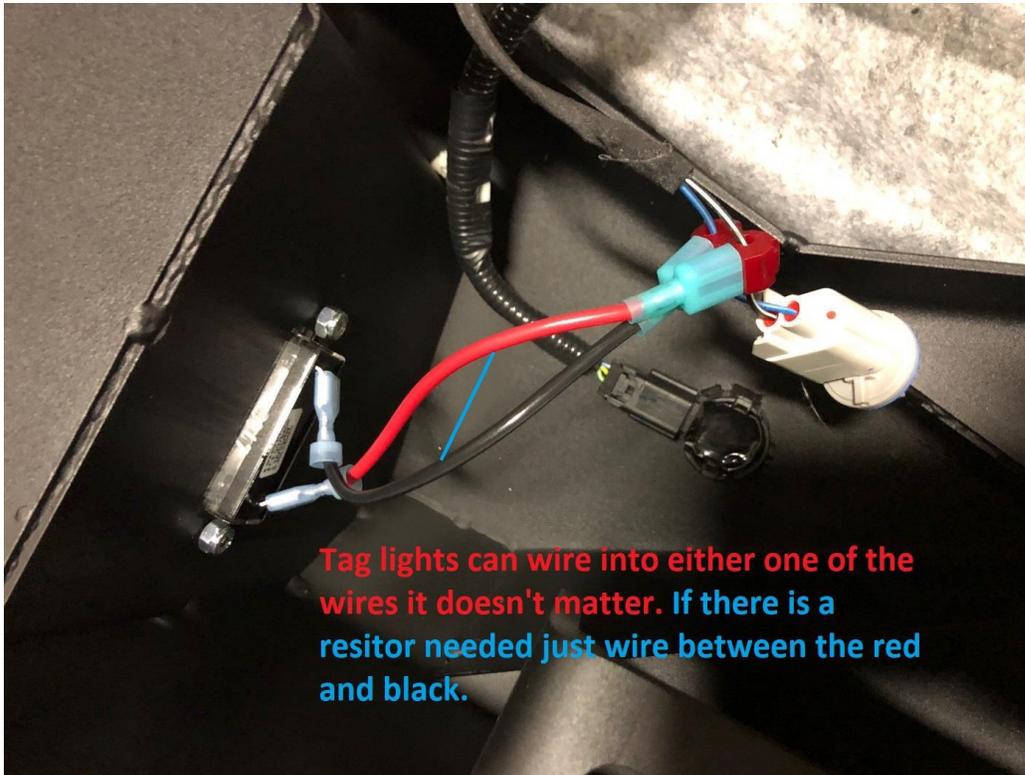


Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra



G. Using a 19mm socket and wrench to remove the two bolts from each side of the hitch frame plate.

H. With the help of two friends and possibly a floor jack to help support the center of the bumper lift the Fab Fours bumper into place.

I. With the bumper held into place insert the OEM fasteners through the bumper and into the hitch frame plate. Do Not Fully Tighten. See Image Below.





Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra



J. Align the bumper top to bottom to ensure a perfect fit to the truck. Allow for a 0.375" clearance to all painted surfaces if possible to allow for frame flex.

K. Check that the tailgate does not interfere with the bumper by opening it very carefully and lowering it into place. Please note tailgates can flex lower when under load. If tailgate is too close to the bumper, adjust bumper lower. If gap is too large adjust hitch receiver up before tightening.

L. Fully tighten all fasteners between brackets and hitch receiver and between hitch receiver and frame.

M. Remove the factory harness from the center section of the OEM bumper.(Figure 6)





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Vengeance Rear Bumper

Product Number: E2851, E2852

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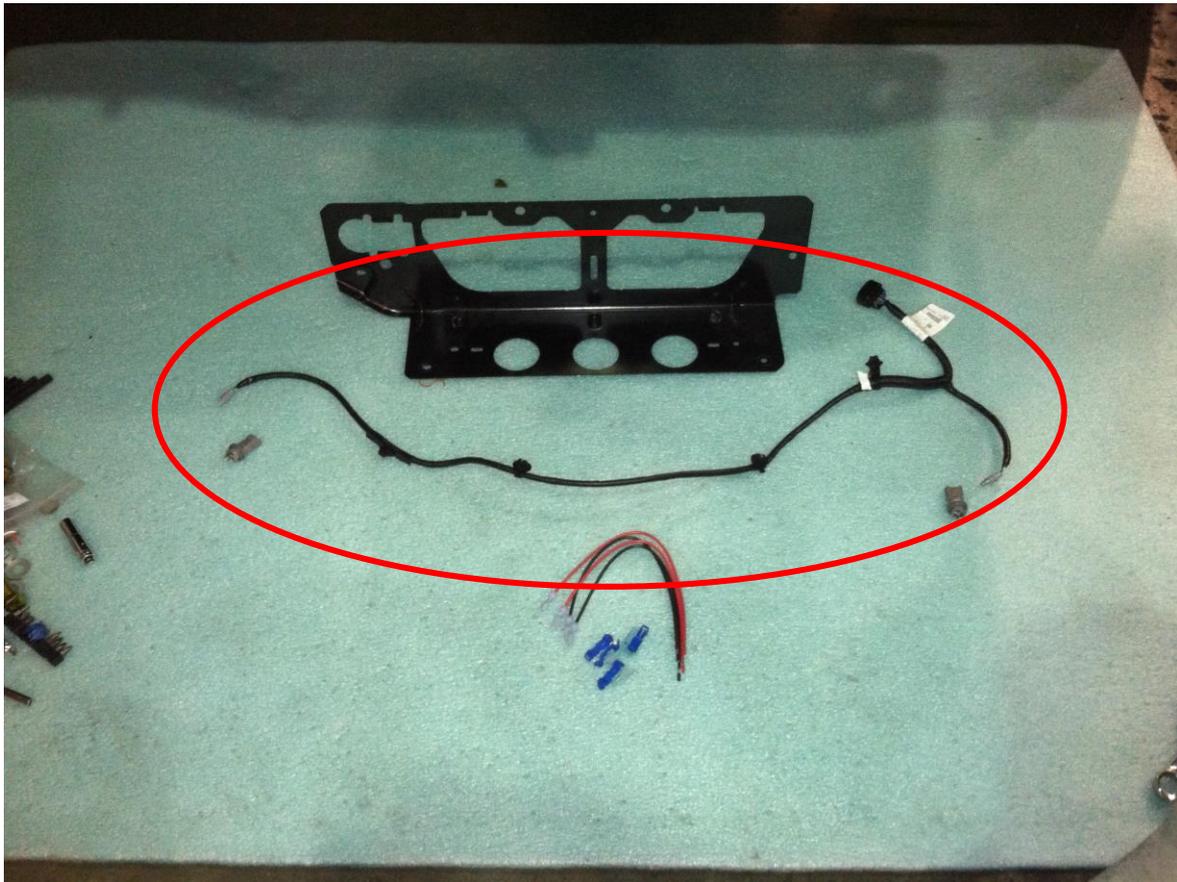


Figure 4

N. With the supplied T-Tap connectors tab into the Green and White w/Black stripe wires at the ends of the OEM harness as shown in Figure 7 and figure 8. Repeat on opposite side.

O. Place the Red wires with the female spade connector onto the T-Tap connected to the Green wire of the OEM harness (Figure 8)





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Figure 5

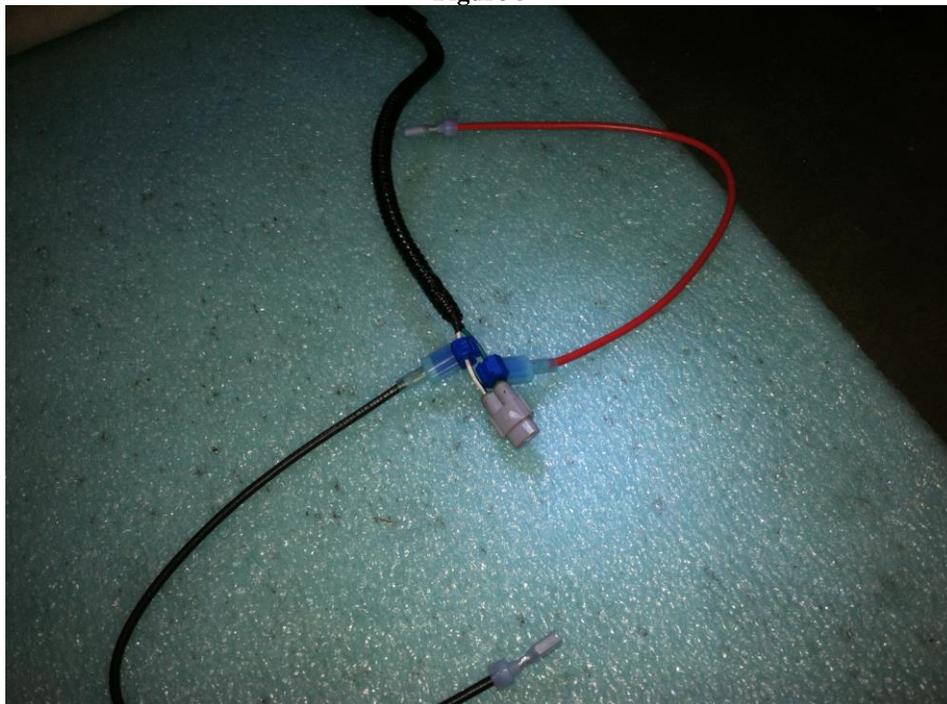


Figure 6





Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

P. Re-Install the modified factory harness and connect to the license plate lights as shown in Figure 9. Use zip-ties to secure excess wiring.



Figure 7

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

R. FOR SENSOR BUMPER INSTALLATION ONLY: Install the sensor harness back into the bumper and plug the harness into both the sensors and the truck side connector. Test the sensor to ensure that the truck does not read the ground or give off any error. Once complete epoxy the sensors permanently in.





Installation Instructions

Vengeance Rear Bumper

Product Number: E2851, E2852

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S. 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.



T. Enjoy your new Rear Replacement Bumper from Fab Fours!





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Product Number: E2851, E2852

Application: 2014-2019 Toyota Tundra

IV. 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

V. Contact Information

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