



# Installation Instructions

## Vengeance Front Sensor Bumper

Product Number: V3051, V3052

Application: 2015+ CHEVY HD

### **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 injury hazards.
- Please do a job safety analysis before each task to identify potential hazards for your situation and remove/protect against them.
- You must use your own good judgment.
- 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 insure 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 related hardware.



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### I. Overview

Congratulations on your new purchase of the industries' best and most stylish front bumper available for the 2015 Chevy Heavy Duty. This bumper has been designed to be lightweight and easily customized with the industry's highest quality accessories.

Your front 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 Vengeance Chevy HD Front Bumper from Fab Fours Inc.



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### Parts List

- V305X Replacement Bumper
- Two sensor housings (61650)
- Epoxy
- Instruction Manual

### Tools Required

- Socket Wrench with Extension (Ratcheting wrenches may also be convenient)
- 7mm, 10mm, 15mm, 18mm, 19mm, 3/4 Sockets and Box End Wrenches
- Flat head screw drivers
- Floor jack, jack stands, and/or a wood block.
- 9/16 drill bit w/ drill

## II. Removal of OEM Bumper

**Note: Save all OEM parts until installation is complete!**

- A. Open hood and locate push pins on radiator cover. Using a flat head screw driver, pull the head of the push pins up, remove push pin and lift radiator cover off. This will allow access to top grill bolts (Ref. Figure 1).



Figure 1



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- B. Remove the fasteners connecting the grill to the frame. Four bolts, are located at the top of the grill, two on each side (Ref. Figure 2a-b). Two bolts and two clips are located behind the grill and are indicated by the ovals and triangles respectively (Ref. Figure 2c).



Figure 2a



Figure 2b

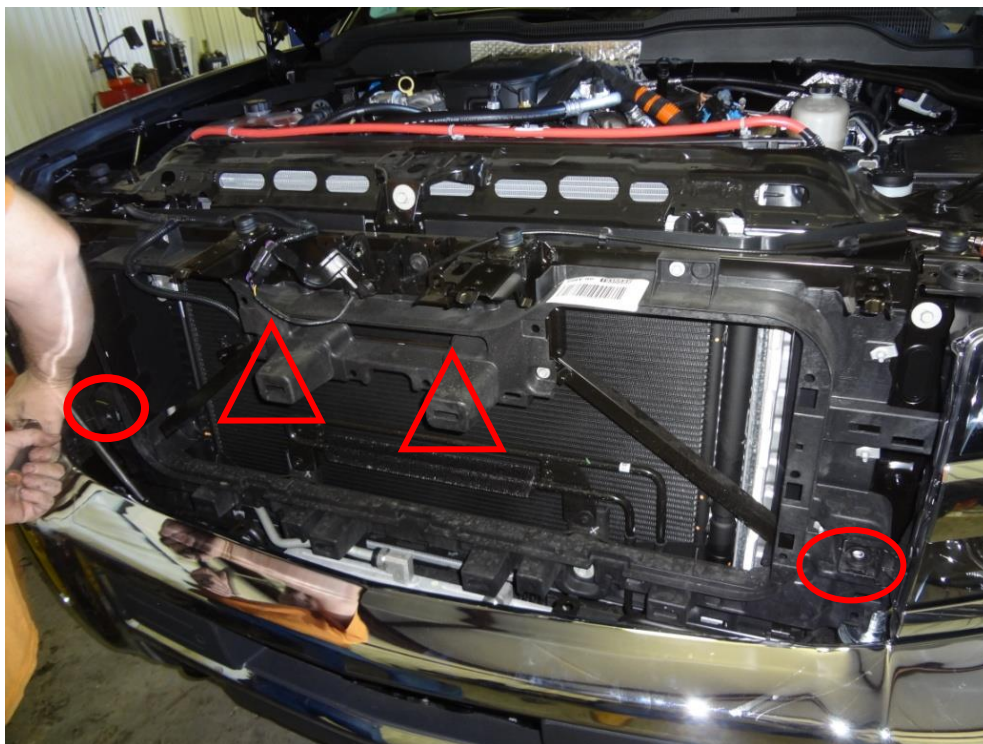


Figure 2c



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- C. Disconnect electrical harness (Ref. Figure 3a) from vehicle and remove tow hooks. Tow hooks are mounted with one cross bolt through the side and a bolt through the bottom of the frame (Ref. Figure 3b).



Figure 3a (ELECTRICAL HARNESS DISCONNECTED)



Figure 3b (TOW HOOK & OEM MOUNTING BRACKET)



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- D. Remove bolts connecting bumper to mounting bracket. There is one bolt on each side which requires a socket wrench with an extension to easily reach (Ref. Figure 4). Carefully pull bumper away from vehicle.



Figure 4

- E. Remove the fasteners connecting the OEM mounting bracket to the frame. Using a socket/wrench remove bolts from front of bracket connected to the bumper. Repeat process on each side of vehicle.

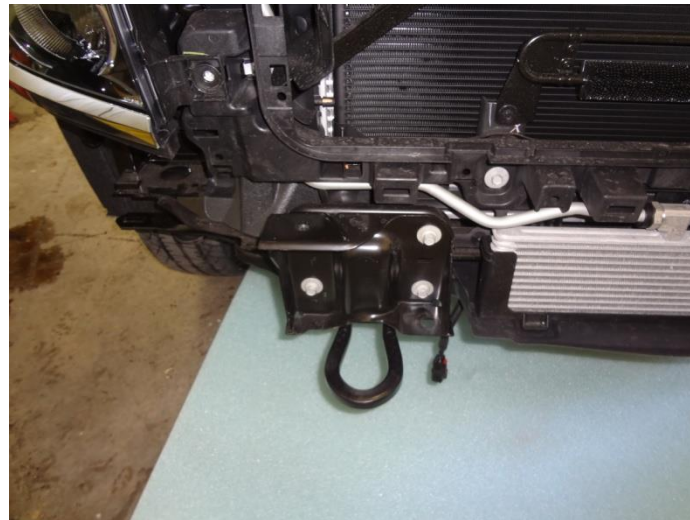


Figure 5



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- F. Remove OEM electrical harness from bumper. Disconnect harness from fog lights and sensors. Pop out the three plastic clips holding fog lights to fog light housing and carefully pull away, the plastic clips are indicated by a circle. Unbolt bumper support frames as necessary to more easily access sensors, start with the bottom bolts indicated by squares (Ref. Figure 6).

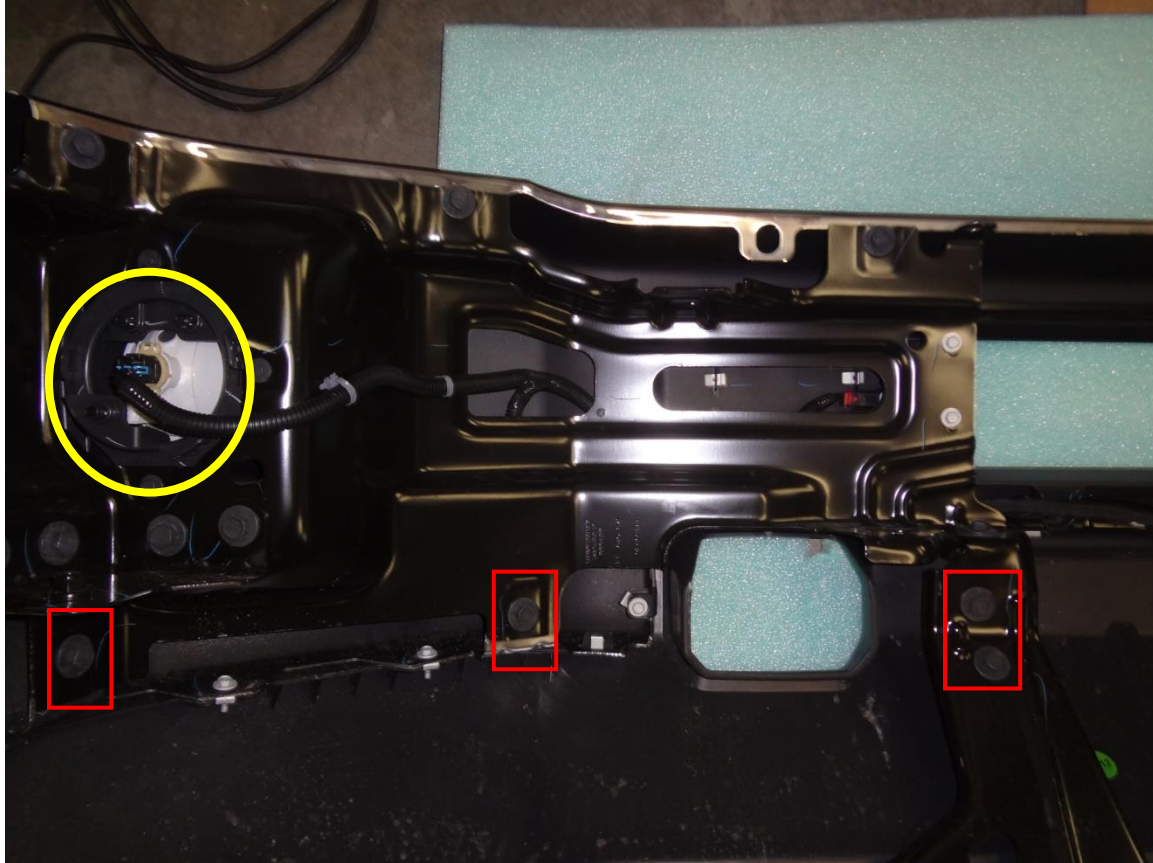


Figure 6



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***PLEASE NOTE PARKING SENSORS ARE EXTREMELY DELICATE AND MUST BE HANDLED WITH CARE!***

***Do NOT touch or shift the clear rubber grommet that surrounds the sensor face. DO NOT glue housing into place until orientation and functionality is determined.***

- G. Remove OEM electrical harness from bumper. Disconnect harnesses from fog lights and sensors. Sensors can be disconnected from housing by depressing the plastic clip indicated by the red square (ref. Figure 8a).

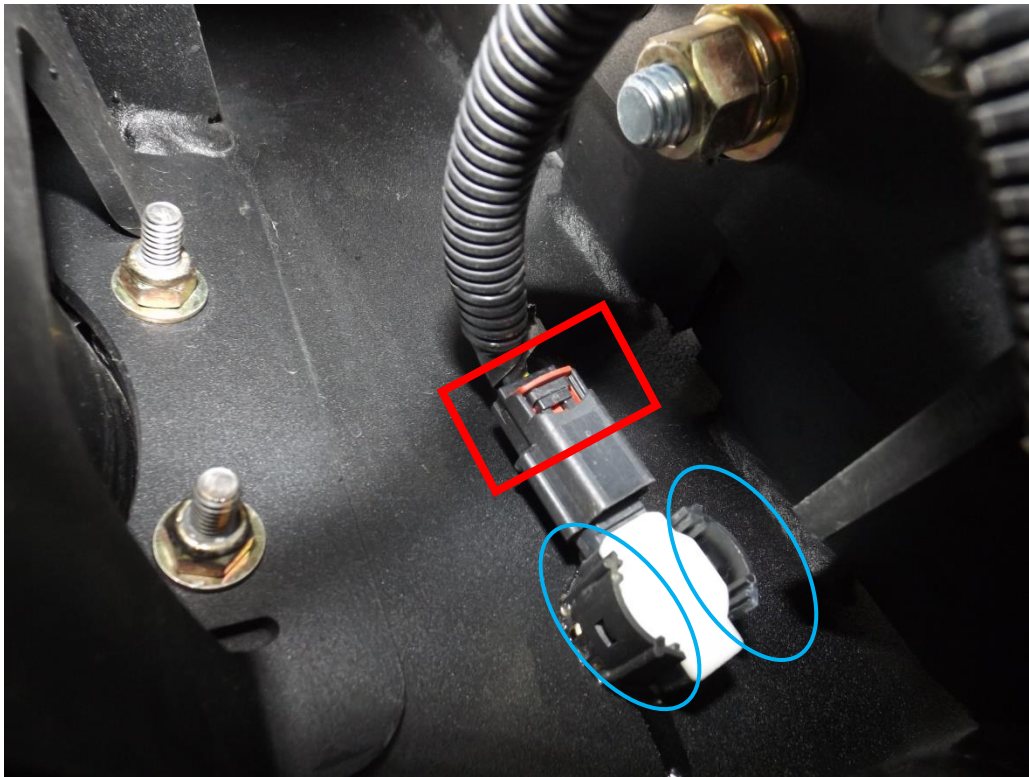


Figure 8a

- H. Pop out plastic clips holding harnesses to bumper on both sides and carefully pull away.



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- J. CAREFULLY remove sensors from plastic housing by gently pulling the top and bottom tabs, indicated by blue circles (Ref. Figure 8a), away as sensor is pulled out. Do not push on front of sensor as this will damage the membrane. Place sensors face up in a safe location.

### III. Pre-Installation

**NOTE: 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. For sensor installation, run sensor harness through the mounting brackets and across the light bar mount. Use the following images for the recommended orientation.



Figure 9a (OVERALL SENSOR HARNESS ROUTING)



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Figure 9b (DRIVER SIDE SENSORS)

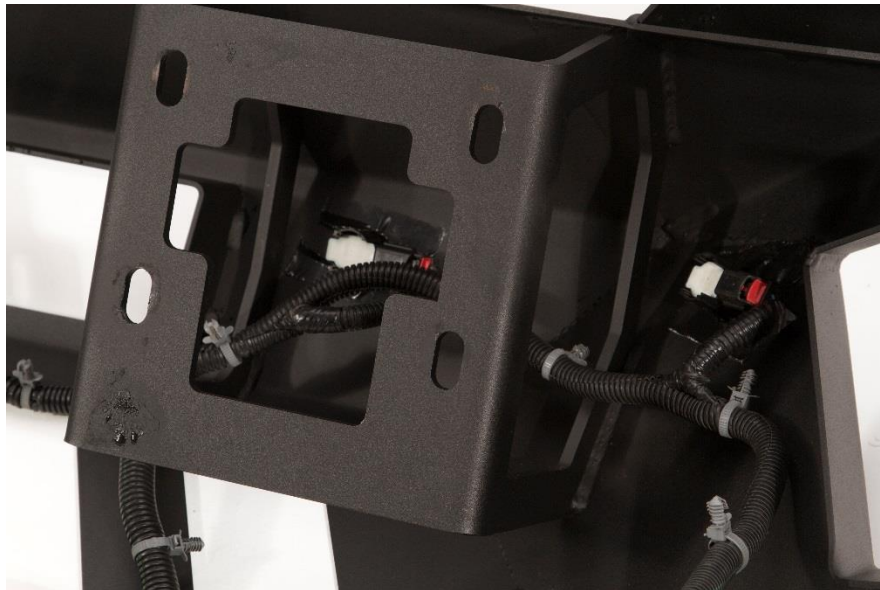


Figure 9c (PASSENGER SIDE SENSORS)

- C. After ensuring sensors work in current orientation, epoxy should be applied to the housing on inside of bumper and allowed to dry. **DO NOT APPLY EPOXY ON THE SENSOR FACE.**
- D. Once the epoxy has dried, reconnect sensor harness to sensors and insert sensors into sensor housings making sure that the clear plastic grommet is on properly and sensors appear centered. Final installation



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of sensors on driver side should appear as shown above. (Ref. Figures 9a-c)

### IV. Front Bumper Installation

- A. Mount the bumper to the truck. With the help of at least two others, lift the Fab Fours bumper into place.
- B. Insert the stock 15mm bolts back into the flanges on the front of the frame. These bolts can be accessed through the cutouts on the bottom of your bumper.
- C. Align the bumper top to bottom to ensure a perfect fit to the truck. Allow clearance to all painted surfaces, this is to allow for frame flex.
- D. Fully tighten all fasteners between bumper and the truck.
- E. Refer to Appendix A if a sensor warning or fault appears when starting the vehicle.
- F. Enjoy your New Front Replacement Bumper from Fab Fours!



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### APPENDIX A. Troubleshooting Vehicle Sensors

- Start with a general inspection of the sensor fitment. Check that both the sensors and the sensor clips are fully secure and the sensors are properly centered in the housing.
- Confirm plastic housing is in the correct mounting holes. Misplaced sensor housings could compress sensor and give false readings or faults.
- Use a clean microfiber to wipe the front face of the sensor.
- Inspect connection. Be sure that the sensor is firmly seated into the harness.
- Run through several start cycles (i.e. fully turn the vehicle on and off).
- Finally, disconnect the battery to reset the sensors.



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