

# QUIGLEY MOTOR COMPANY, INC

## Rear Bumper Installation Guide

*Application: 2015-2019 GM*



### **THANK YOU!**

Thank you for choosing Quigley Motor Company for your bumper. We value our customers and their off-road lifestyle.

### **SAFETY FIRST!**

Thoroughly read all instructions and warnings before beginning the installation. Use your own judgment and, if necessary, have the installation done by a professional.

This bumper is intended for off-road use only. The owner assumes all liability for installation and use. Any sensor will have an altered view when installed in an after-market bumper.

### **TOOLS NEEDED:**

- Small Flat Blade Screwdriver
- 1/2" Drive Ratchet w/ 15mm socket
- 1/2" Drive Ratchet w/ 5/8" socket
- 11/16" Open/Box End Wrench
- Drill
- 1/2" Metal Bit

### **HARDWARE INCLUDED:**

- (4) 7/16" x 1.5" bolts with flat washers
- Cable ties

## INSTRUCTIONS:

*\*Before getting started, if your bumper has rear back up sensors, disconnect the main wiring harness plug first. Connector is located on the inside of the driver's side frame rail. Release the light grey locking tab and press the black connector tab while pulling the connector. The connector should separate from the harness connector.*

---

### 1. Remove side bumper support brackets:



On the outside of the frame rails are bumper support mounts. Using a 15mm socket remove the 2 nuts holding the bracket to the mount and remove the bolt plate from the holes.

### 2. Remove bumper mounting nuts:

*\*You will need help to remove the bumper.*

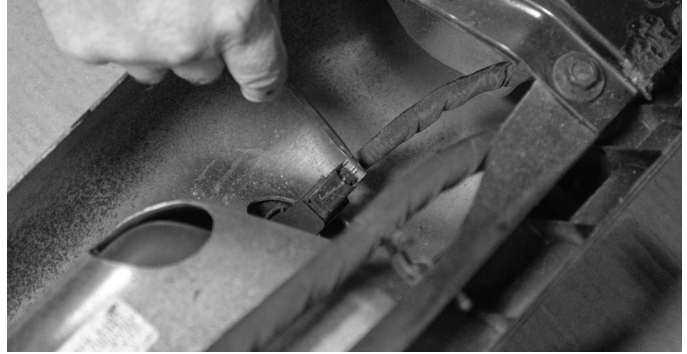
There are frame rail cutouts on the inside of each frame rail. Located in these cutouts are (2) 15mm nuts holding the rear bumper to the frame rails. Remove the (2) nuts and remove the bumper from the rear of the van.



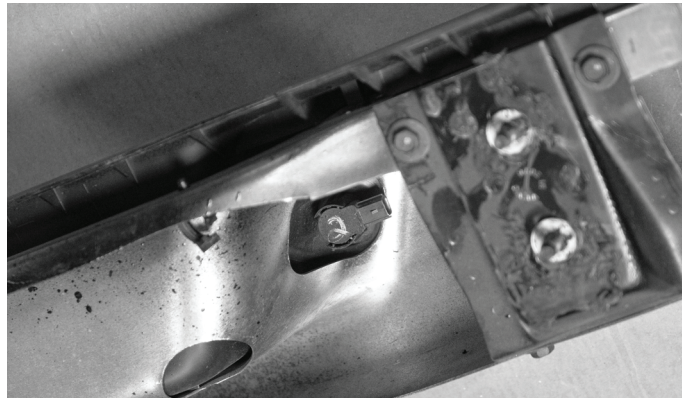
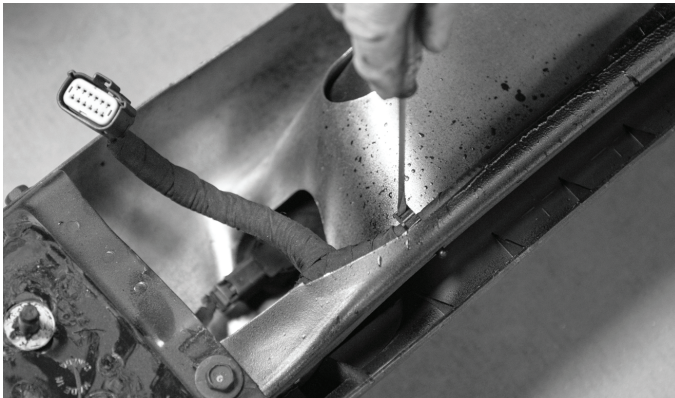
## INSTRUCTIONS:

### 3. Removal of parking sensors:

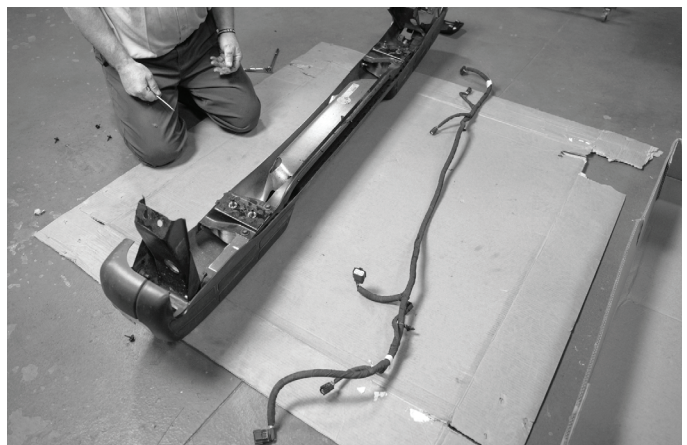
Place the bumper on a sturdy surface with the inside of the bumper facing up. You will see 4 sensors and the wiring that connects them. On the top and bottom of each sensor there are locking tabs. Using a small screwdriver slightly pry the sensor from the mount. **DO NOT use a lot of force as the mount is plastic and may break easily.**



Once all the sensors are removed from their mounts disconnect the wiring connector from each sensor. *Make a note of each sensor's location when removing as they will need to be installed in the same location on the new bumper.* The connector for the sensor has a red locking tab that must be released first. Then press down on the small black connector tab to release the connector from the sensor.



With the sensor locations noted and the connectors removed, remove the wiring harness from the bumper. Place sensors and wiring aside for installation in the new bumper.





## INSTRUCTIONS:

You will now need to remove the plastic housings from the bumper. There are 4 locking tabs on each sensor housing, using slight pressure pushing forward, use a small screwdriver to release the 4 tabs and remove the housing. *Again, make note of the location of the housing for installation in the new bumper.*



### 4. Install parking sensors and wiring into new bumper:

With all the sensors, housings, and wiring removed from the old bumper you can now install them in the new bumper. The bumper has alignment slots to properly install the sensor housings. Install the housings into at their respective locations, align the sensor in the hole and press it firmly into the bumper.



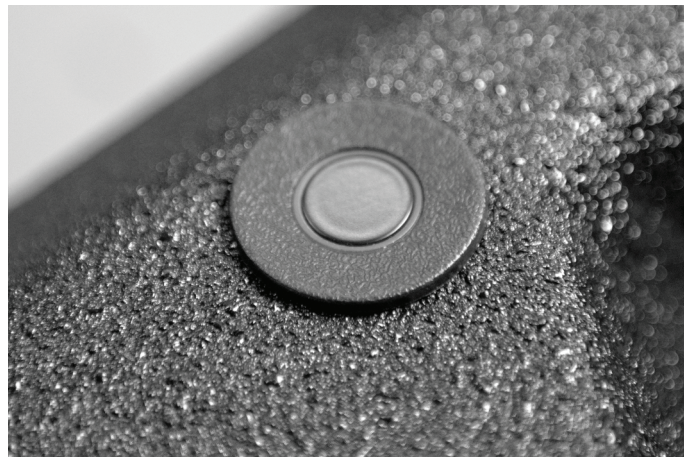


## INSTRUCTIONS:

Place the wiring harness into the new bumper as it was placed in the old bumper. The main connector should be on the driver's side of the bumper. Locate each sensor plug at the sensor and connect to the sensor. Remember to push the red locking tab once the plug is securely attached to the sensor.



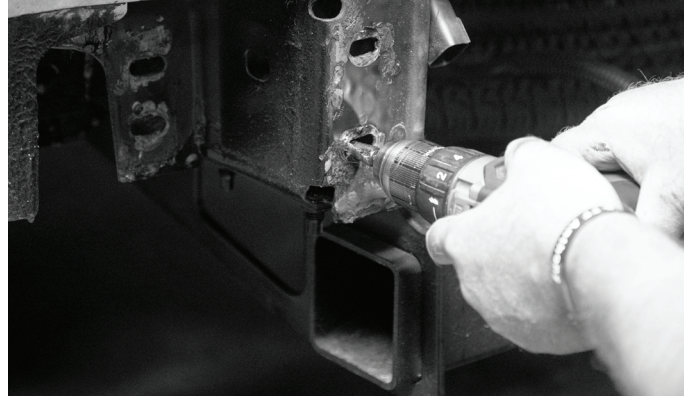
Insert each sensor into the mount making sure the white silicone ring around the sensor goes into the mounting hole without folding over. Attach the wiring harness to the mounts using cable ties provided.



## INSTRUCTIONS:

### 3. Install new bumper:

**\*\*On some vans, frame mounting holes may need to be enlarged to 1/2" holes.**



With all sensors and wiring in place, you can now install the bumper. *With help*, align the bumper holes with the frame holes. Insert (4) 7/16" x 1.5" bolts with flat washers in the frame rail pocket through the hole and into the bumper, install flat washer/lock washer, and nut onto each bolt and snug the bolt. Adjust the bumper for fitment to body and tighten all bolts.

Reconnect the main back up sensor connector to the van wiring connector and secure the grey locking tab.



***\*Test the back up sensor system to ensure proper function\****