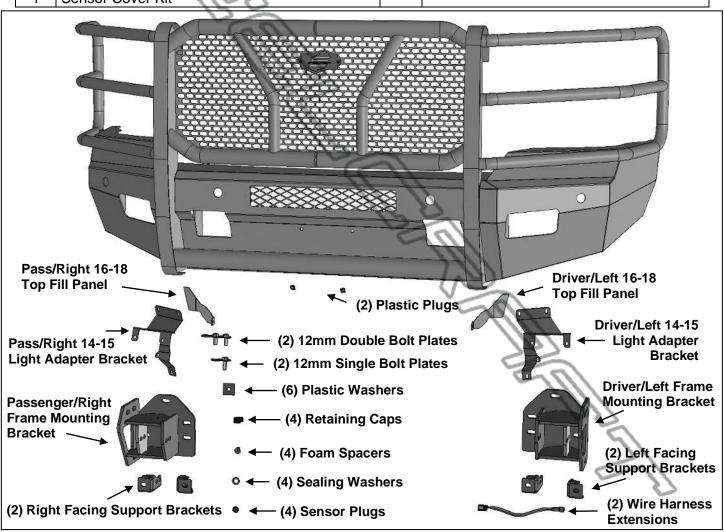
PARTS LIST:

1	Front Bumper Assembly	2	Plastic Plugs for License Plate
1	Driver/left 2016-18 Top Fill Panels	6	12mm Plastic Washers
1	Passenger/right 2016-18 Top Fill Panels	2	12mm Single Bolt Plate
1	Driver/left Mounting Bracket	2	12mm Double Bolt Plate
1	Passenger/right Mounting Bracket	10	12-1.75mm x 50mm Hex Bolts
2	Left Facing Support Brackets	26	12mm x 32mm OD x 3mm Flat Washers
2	Right Facing Support Brackets	16	12mm Nylon Lock Nuts
1	Driver/left 2014-15 Light Adapter Bracket	2	8-1.25mm x 30mm Hex Bolts
1	Passenger/right 2014-15 Light Adapter Bracket	4	8mm x 22mm x 2mm Flat Washers
4	Retaining Caps	2	8mm Nylon Lock Nuts
4	20mm x 10mm Foam Spacers	8	6-1.0mm x 30mm Hex Bolts
4	Sealing Washers	16	6mm x 18mm x 1.6mm Flat Washers
4	Sensor Plugs	8	6mm Nylon Lock Nuts
2	Wire Harness Extensions	8	4mm x 10mm Self Tapping Screws
1	Sensor Cover Kit		



RECOMMENDED TO REPLACE THE 12MM HEX BOLTS ON AN ANNUAL BASIS

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PROCEDURE:

REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. BUMPER IS HEAVY, ASSISTANCE IS HIGHLY RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE.

- 1. Remove the license plate and bracket. On models with factory fog lights and/or sensors, unplug the wiring harness leading to the bumper, (Figure 1). Move all wiring harnesses away from bumper.
- 2. On 2014-15 models only, from behind the bumper, release the clips from the center and screws from the ends of the plastic body panel, (fascia), on top of the bumper between the bottom of the grille and the top of the bumper, (Figure 2).
- 3. All model years, open the hood and remove the cover between the top of the radiator and the grille, (Figure 2). Remove the bolts attaching the top and bottom of the grille to the cross member and pull the grille straight out to release from clips, (Figures 3 & 4).
- **4.** Remove the outer bumper supports from each side of the frame, **(Figure 5)**.
- 5. Place blocks or jack stands under the front bumper to support it during mounting bolt removal. Once the bumper has been safely supported, from above, remove the factory bumper bolts attaching the bumper to the inner bumper bracket bolted to the end of the frame, (Figure 6). WARNING! Assistance is required to hold the bumper in place during bolt removal to prevent the bumper from falling. Slide the bumper assembly with brackets off of the frame.
- 6. Reinstall grille and cover removed in Steps 2 & 3. NOTE: Do not reinstall fascia on 2014-15 models.
- 7. Remove both bumper brackets and tow hooks from the ends of the frame, (Figures 7 & 8).
- 8. Select (1) Left Facing and (1) Right Facing Support Bracket, (Figure 9). Starting on the driver/left side, attach (1) Right Facing Support Bracket to the inner facing side of the frame with (1) 12mm Double Bolt Plate, (2) 12mm Flat Washers and (2) 12mm Nylon Lock Nuts, (Figures 9 & 10). Next, attach (1) Left Facing Support Bracket to the outer facing side of the frame with (1) 12mm Single Bolt Plate, (1) 12mm Flat Washer and (1) 12mm Nylon Lock Nut, (Figures 9 & 11). Do not tighten hardware at this time.
- 9. Select the driver/left Frame Mounting Bracket, (Figure 12). Reuse (3) factory bumper bolts to attach the top of the Frame Bracket to the bumper mount, (Figure 14). Attach the (2) lower holes in the Frame Bracket to the Support Brackets with (2) 12mm x 50mm Hex Bolts, (4) 12mm Flat Washers and (2) 12mm Nylon Lock Nuts, (Figures 13 & 14). Snug but do not fully tighten hardware at this time.
- **10.** Repeat **Steps 8 & 9** to install the passenger/right side Brackets.
- **11.** Carefully remove both fog light assemblies, all sensors and the wiring harness from the back of the OE bumper if equipped. Note location of each sensor for correct reinstallation.
- 12. Models without bumper sensors:
 - a. Insert (1) Plug into the outer hole in the Sensor Mount, (Figure 15).
 - b. Repeat to plug remaining (3) mounting holes in Bumper. Continue to **Step 14**.
- **13.** Models with bumper mounted sensors:
 - **a.** Select the driver/left outer sensor. Remove the seal from the end of the sensor, **(Figure 16)**. Replace the seal with the included larger Foam Seal.
 - **b.** Push the sensor into the Mount from the back of the Bumper until it is flush with the front of the Mount. If necessary, loosen the large Hex Nut and rotate the Sensor Mount to the correct orientation to match the factory bumper. Once properly aligned, tighten Large Hex Nut.
 - c. Push (1) Foam Spacer onto the back end of the sensor, (Figure 17).
 - d. Snap (1) Sensor Retaining Cap onto the Sensor Mount, (Figure 17).
 - e. Repeat the previous Steps to install the remaining sensors in order from factory bumper.
- **14.** Install the factory bumper wiring harness for sensors and fog lights as equipped. Run wiring harness over or through Brackets to reach sensors.

15. 2016-18 Models Only:

- a. Select the driver/left Top Fill Panel. Attach the tab on the Fill Panel to the top hole in the mounting plate on the back of the Bumper with (1) 8mm x 30mm Hex Bolt, (2) 8mm Flat Washers and (1) 8mm Nylon Lock Nut, (Figure 18). Repeat this Step to attach the passenger/right Top Fill Panel.
- **16.** With assistance, position the Bumper Assembly up to and over the Brackets. Temporarily support the weight of the Bumper. **WARNING**: To avoid possible injury or damage to the vehicle, do not proceed until the Bumper is fully and safely supported.

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- 17. Line up the (3) holes in the driver/left side mounting plate on the back of the Bumper with the (3) slots in the Frame Bracket. Attach the Bumper to the Bracket with the included (3) 12mm x 50mm Hex Bolts, (6) 12mm Flat Washers, (3) 12mm Plastic Washers and (3) 12mm Nylon Lock Nuts, (Figure 19). IMPORTANT: Place the Plastic Washers between the outer 12mm Flat Washers and the mounting plate on the Bumper to minimize corrosion. Do not fully tighten hardware. Repeat this Step to attach the passenger/right side of the Bumper to the Frame Bracket.
- 18. Level and adjust the bumper and fully tighten all 12mm hardware to 65-70ft-lbs.
- 19. Reuse the factory hardware to attach tow hooks to the inside of the Frame Brackets, (Figure 14).
- 20. Models with fog lights:

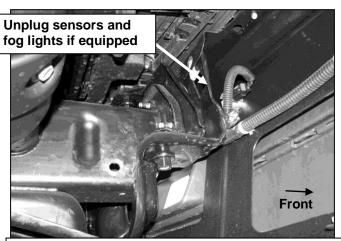
2014-15 Models

- a. Select the driver/left Light Adapter Bracket.
- **b.** Slide the tabs on the driver/left fog light into the Bracket. Push the attaching posts into the mounting holes in the Bracket, **(Figure 20)**.
- **c.** Attach Bracket with light to the mounting tabs on the back of the Bumper with (3) 6mm x 30mm Hex Bolts, (6) 6mm Flat Washers and (3) 6mm Nylon Lock Nuts, **(Figures 20 & 21)**.
- d. Repeat this **Step** to install passenger/right light assembly.
- e. Reattach the factory wiring harness to both lights.

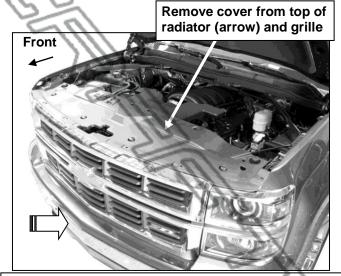
2016-17 Models

- **a.** Attach the light assembly with plastic housing to the mounting tabs on the back of the bumper with (4) 6mm x 30mm Hex Bolts, (8) 6mm Flat Washers and (4) 6mm Nylon Lock Nuts. **NOTE**: Light assembly will rotate 90-degrees to install horizontal to Brackets.
- **21.** Plug in the bumper harness to the main wiring harness.
- **22.** Use the included (2) push-in Plastic Nuts to attach the front license plate, (if required), to the (2) holes in the front of the Bumper, **(Figure 22)**.
- **23.** Back of Bumper is equipped with mounting tabs for LED center light. Follow manufacturer's installation and wiring instructions for proper installation.
- 24. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

To protect your investment, Do not use any type of polish or wax that may contain abrasives that could damage the finish. Mild soap may be used to clean the Front Bumper assembly.

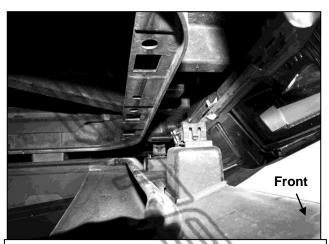


(Fig 1) Unplug sensors, fog lights and move wiring harness away from bumper before removal

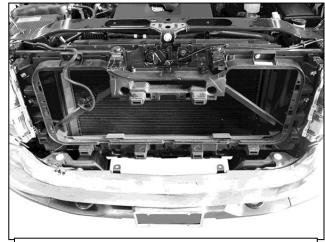


(Fig 2) 2014-15 models, from behind bumper, release clips and hardware attaching plastic fascia panel (arrow) to top of bumper and fender. Remove fascia panel to access bumper hardware from above.

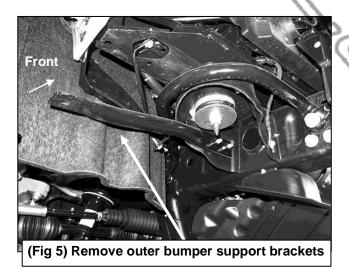
Driver/left Side Installation Pictured



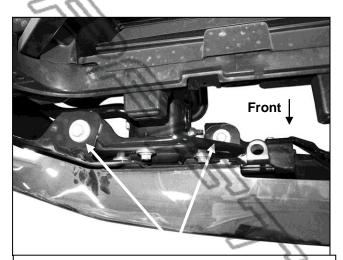
(Fig 3) Firmly pull grille straight out from vehicle



(Fig 4) Grille removed to access bumper bolts

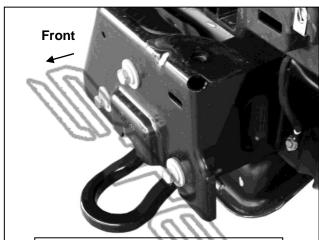


WARNING! Do not crawl under bumper unless it is properly supported on blocks or stands or the bumper may fall.



(Fig 6) Remove bumper bolts attaching bumper to brackets- passenger side pictured from above

Driver/left Side Installation Pictured



(Fig 7) Remove complete bumper, inner bumper bracket and tow hooks

WARNING! Do not crawl under bumper unless it is properly supported on blocks or stands or the bumper may fall.

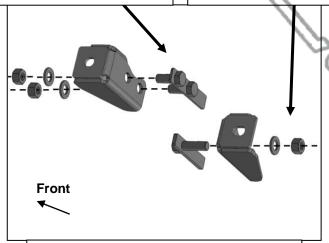


(Fig 8) Remove complete bumper, inner bumper bracket and tow hooks

12mm Double Bolt Plate (2) 12mm Flat Washers

(2) 12mm Nylon Lock Nuts

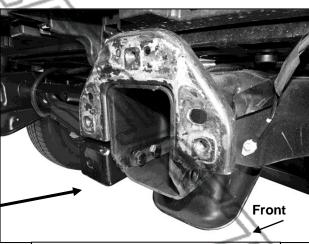
12mm Single Bolt Plate 12mm Flat Washer 12mm Nylon Lock Nut



(Fig 9) Attach Support Brackets to frame

12mm Double Bolt Plate (2) 12mm Flat Washers

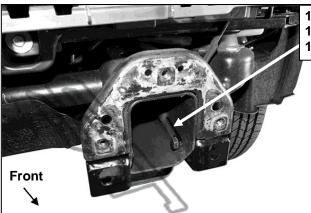
(2) 12mm Nylon Lock Nuts



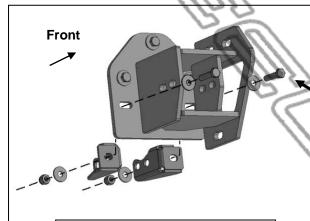
(Fig 10) Attach inner Support Bracket to side of frame. Driver side pictured

Reuse Factory

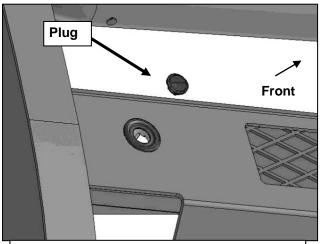
Driver/left Side Installation Pictured



(Fig 11) Attach outer Support Bracket to side of frame to frame. Driver side pictured

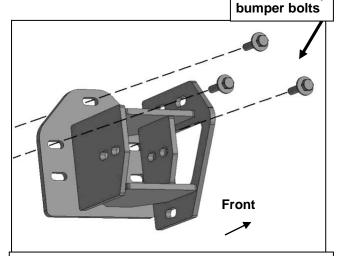


(Fig 13) Attach bottom of Frame Bracket to Support Brackets



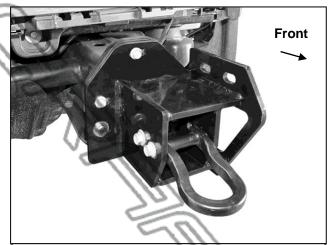
(Fig 15) Models without sensors, insert Plug

12mm Single Bolt Plate 12mm Flat Washer 12mm Nylon Lock Nut



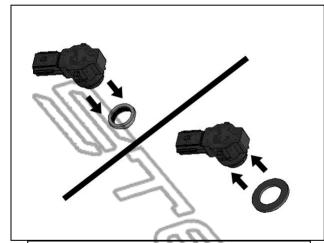
(Fig 12) Reuse factory bumper bolts to attach top of Frame Bracket to bumper mount on frame

- (2) 12mm x 50mm Hex Bolts
- (4) 12mm Flat Washers
- (2) 12mm Nylon Lock Nuts



(Fig 14) Complete installation of Frame Bracket. Brackets pictured with tow hook for instruction purposes only. Install tow hooks after bumper has been installed and adjusted

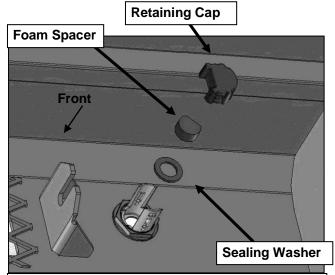
Driver/left Side Installation Pictured



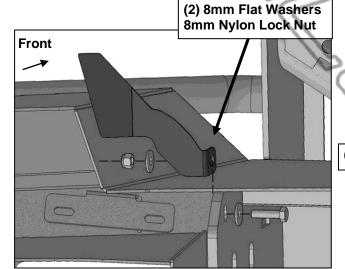
(Fig 16) Remove silicone seal from sensor. Slide large Seal over end of sensor (arrow)

8mm x 30mm Hex Bolt

WARNING! Do not crawl under bumper unless it is properly supported on blocks or stands or the bumper may fall.

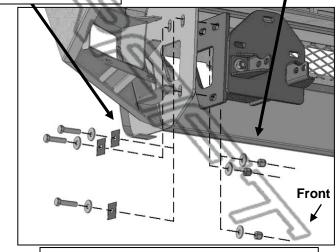


(Fig 17) Insert sensor into back of Mount. Attach Foam Spacer to back of sensor. Snap Retaining Cap onto end of Mount, over sensor and Spacer



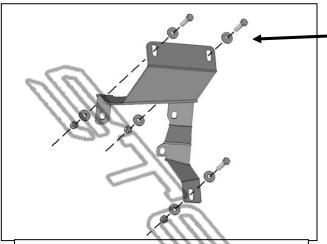
(Fig 18) 2016-18 models only, attach Fill Panels to top of Bumper (driver/left side illustrated from behind Bumper)

- (3) 12mm x 50mm Hex Bolts (6) 12mm Flat Washers
- (3) 12mm Nylon Lock Nuts (3) Plastic Washers



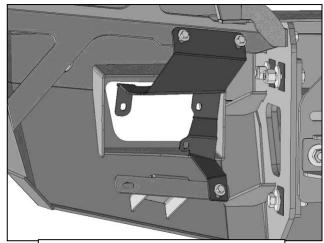
(Fig 19) Attach Bumper to Frame Brackets

Driver/left Side Installation Pictured

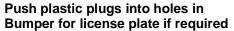


(Fig 20) 2014-15 models only: Snap fog light into Adapter Bracket. Attach Bracket to tabs on back of Bumper. Bracket is not required for 2016-17 fog light assembly installation. Driver/left Bracket illustrated.

- (3) 6mm x 30mm Hex Bolts
- (6) 6mm Flat Washers
- (3) 6mm Nylon Lock Nuts



(Fig 21) 2014-15 models only: Attach Bracket to tabs on back of Bumper. Driver/left Bracket illustrated.





(Fig 22) Push factory fog light into mounting tabs (driver/left side pictured)

Special Note: While Aluminum does not rust, there is potential for galvanic corrosion if the coating is scratched between your bumper and the steel frame brackets + hardware (especially in extreme environments such as the coastlines or where road salt is used during winter). A visual inspection should be performed by the user at least on an annual basis to determine if excessive corrosion is present on or surrounding the hardware.

