

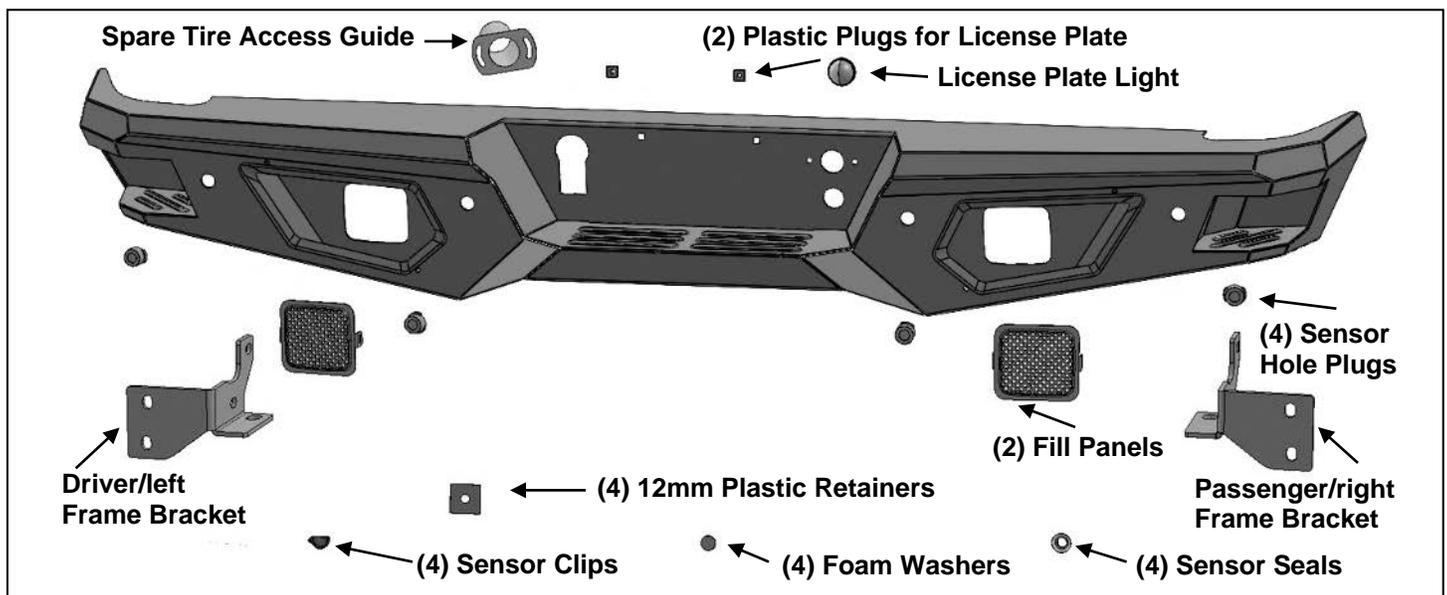


AB2212

Endurance Truck Rear Bumper for 14-18 Chevy Silverado / GMC Sierra 1500

PARTS LIST:

1	LD2 Rear Bumper	4	12-1.75mm x 40mm Hex Bolts
1	Driver/Left Frame Bracket	8	12mm x 37mm x 3mm Flat Washers
1	Passenger/Right Frame Bracket	4	12mm Lock Washers
2	Mesh Fill Panels	4	12mm Hex Nuts
1	License Plate Light	4	12mm Plastic Retainers
2	License Plate Plugs	2	10-1.5mm x 50mm Hex Bolts
1	Spare Tire Access Guide	4	10mm x 34mm x 3mm Flat Washers
4	Sensor hole Plugs	2	10mm Nylon Lock Nuts
4	Sensor Retaining Clips	2	6-1.0mm x 20mm Button Head Bolts
4	20mm x 2mm Sensor Foam Washers	4	6-1.0mm x 20mm Combo Bolts
4	Sensor Sealing Washers	4	6mm x 12mm x 1.6mm Flat Washers
1	Sensor Cover Kit	2	6mm Nylon Lock Nuts
6	14-2.0mm x 45mm Hex Bolts	4	6mm Flanged Nuts
12	14mm x 28mm x 2.5mm Flat Washers	10	Nylon Wire Ties
6	14-2.0mm Nylon Lock Nuts	1	4mm Hex Wrench



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. On models with bumper sensors, unplug wiring harness leading to the bumper. Unplug and remove the plug from the bumper.
2. Place blocks or jack stands under the bumper to support it during mounting bolt removal.
3. Starting on the passenger/right side:
 - a. Remove rear bolts attaching bed to frame, **(Figure 2)**. Loosen center bolts (if equipped). Do not loosen front bed mounting bolts.
 - b. Remove hex bolts from side and bottom of frame, **(Figures 1—3)**.
 - c. Repeat previous Steps to remove driver/left side hardware.



- d. Raise bed up slightly, only enough to clear bumper brackets. With assistance, pull bumper and brackets straight out from vehicle, **(Figures 6 & 7)**. Reattach bed and tighten hardware. Bumper must be disassembled to remove to avoid raising the bed from the frame. Release the clips attaching the plastic cover to the steel bumper, **(Figure 4)**. Remove cover and hardware attaching the outer bumper to the bumper brackets, **(Figure 5)**. With assistance, remove the outer steel bumper, from the brackets, then remove the hex bolts attaching the brackets to the frame. Slide the brackets out of the ends of the frame, **(Figures 6 & 7)**.
4. Select the passenger/right Frame Bracket, **(Figure 8)**. Slide the Bracket into the end of the frame. Attach the Bracket to the forward hole in the side of the frame with (1) 10mm x 50mm Hex Bolt, (2) 10mm Flat Washers and (1) 10mm Nylon Lock Nut. Attach the Bracket to the side and bottom of the frame with (2) 14mm x 45mm Hex Bolts, (4) 14mm Flat Washers and (2) 14mm Nylon Lock Nut, **(Figures 8 & 9)**. Do not fully tighten hardware at this time. **NOTE:** On some models/years, the factory tow hitch may have support straps attached to the outside of the frame. Use the included (1) 14mm x 45mm Hex Bolt, (2) 14mm Flat Washers and (1) 14mm Nylon Lock Nut to attach the top hole in the strap to the top mounting hole, **(Figures 7 & 10)**. Bottom hole in strap is attached to Bumper Bracket.
5. Repeat **Step 4** to install the driver/left Frame Bracket.
6. Slide the Spare Tire Access Guide onto the OE spare tire tube before installing the bumper onto the vehicle, **(Figure 11)**.
7. Determine if the vehicle is equipped with sensors. All models, remove wiring harness from bumper:

Models without bumper sensors:

- a. Select the included (4) Rubber Plugs.
- b. From behind bumper, push plugs into sensor mounting holes, **(Figure 12)**. Screws have been provided to lock the plugs in the sleeve. Use is optional.
- c. Install wiring harness for license plate lights.

Models with bumper mounted sensors:

- a. Remove sensors from factory bumper.
- b. Remove the silicone seal from the end of the sensor. Slide the included larger Sensor Seal over front of sensor, **(Figure 13)**.
- c. Insert sensor with Seal into sensor mount, **(Figure 14)**.
- d. Place Foam Washer over end of sensor. Push Sensor Retaining Clip into sensor mount and lock into mounting holes, **(Figure 14)**.
- e. Repeat previous Steps to install remaining sensors.
- f. Install wiring harness for license plate lights and sensors.
- g. **Optional:** Secure each sensor to the socket with (2) 4mm x 10mm Button Head Screws, **(Figure 12)**. **IMPORTANT:** Sensors fit snug in sockets. The 4mm Screws are used to apply slight pressure to lock the sensors in place. Tighten both screws evenly until they touch the sensor body only. Do not overtighten screws or damage to sensors will result.

8. Determine if accessory lights, (not included), or Mesh Fill Panels will be installed at this time.

Mesh Fill Panel Installation (do not install fill panels if installing lights).

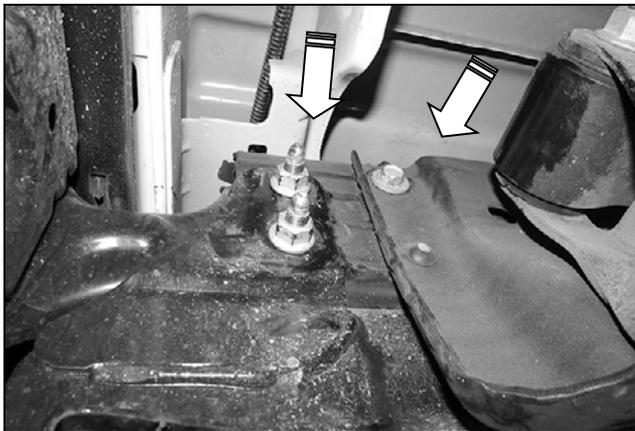
- a. Select the Fill Panels.
- b. Attach Panels with the included 6mm Combo Bolts and 6mm Flange Nuts, **(Figure 15)**. Fully tighten Fill Panel hardware at this time.

LED cube style light installation (light not included).

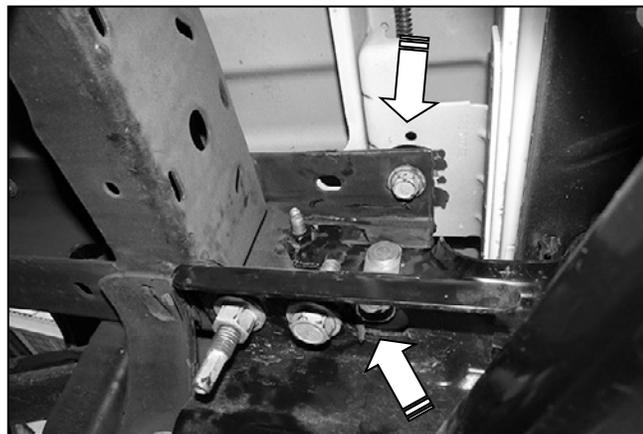
- a. Attach lights to mounting tabs on back of each end of the Bumper, **(Figure 15)**.
9. Insert the included (4) 12mm x 35mm Hex Bolts with (4) 12mm Flat Washers into and through the mounting plates on the Bumper. Thread (4) 12mm Plastic Retainers onto the (4) Hex Bolts to help hold them in place, **(Figure 16)**. 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.
10. With assistance, position the Bumper Assembly up to the Frame Brackets. Attach the Bumper to the Brackets with the included (4) 12mm Flat Washers, (4) 12mm Lock Washes and (4) 12mm Hex Nuts, **(Figures 17 & 18)**. Do not fully tighten hardware at this time.



11. Attach the Spare Tire Access Guide to the back of the Bumper using (2) 6mm Button Head Bolts, (4) 6mm Flat Washers and (2) 6mm Nylon Lock Nuts, **(Figures 19 & 20)**.
 12. Level and adjust the bumper and fully tighten all hardware. Slowly open tailgate and check for clearance. Adjust as necessary.
 13. Use the included (2) push-in Plastic Plugs to attach the rear license plate to the (2) holes in the Bumper, **(Figure 21)**. Insert the License Plate Light into the hole in the bumper, **(Figure 21)**. Attach the License Plate Light wires to the end of the factory wire harness. Insert the trailer plug into the trailer plug hole, **(Figure 21)**.
 14. Attach the wiring harness to the lights and trailer plug.
 15. Use the included Wire Ties to secure the wiring harness to the bumper and frame as necessary.
 16. Do periodic inspections to the installation to make sure that all hardware is secure and tight.
- To protect your investment**, wax this product after installing. Regular waxing is recommended to add a protective layer over the finish. 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 Bumper assembly.

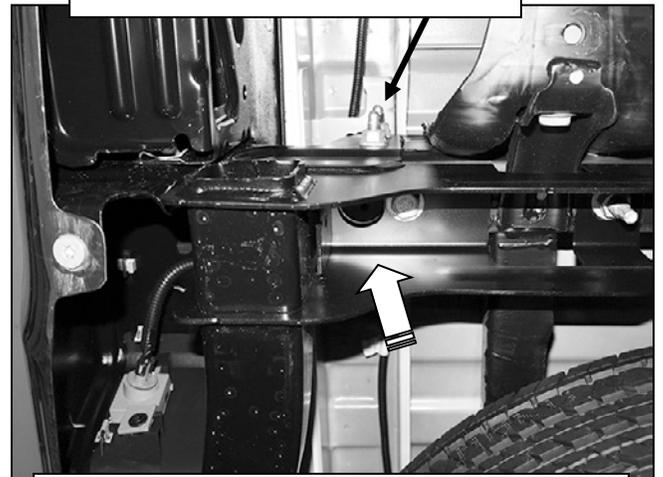


(Fig 1) Remove bumper bolts from outside of frame (arrows). Passenger side pictured from below



(Fig 3) Remove bumper bolts attaching brackets to frame (arrows). Model with receiver hitch pictured

Remove rear bed to frame bolts, loosen center bolts, (if equipped). Do not loosen front bolts.

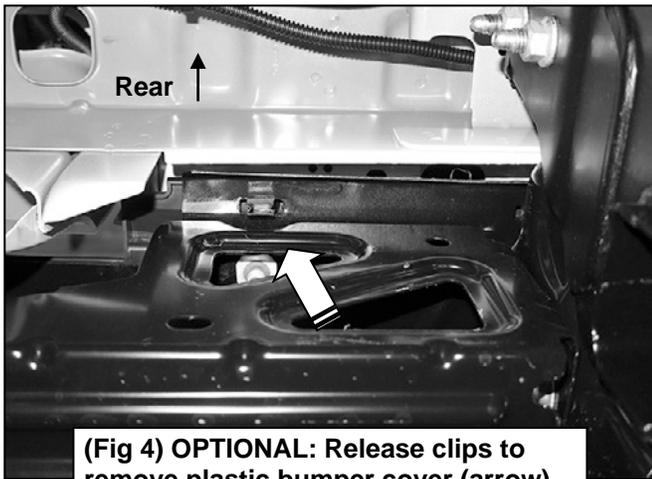


(Fig 2) Remove bumper bolt from bottom of frame (arrow). Back of passenger side of model w-o receiver hitch pictured from below

WARNING! Before removing hardware, fully support the weight of the bumper with blocks or stands to prevent injury or damage to the vehicle.



Passenger/right side installation pictured



(Fig 4) OPTIONAL: Release clips to remove plastic bumper cover (arrow). Passenger side pictured from below

WARNING! Before removing hardware, fully support the weight of the bumper with blocks or stands to prevent injury or damage to the vehicle.



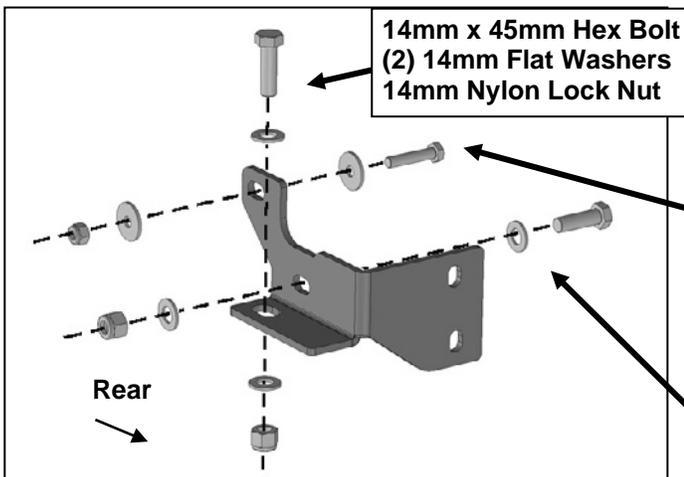
(Fig 5) OPTION: Remove bumper bolts attaching bumper to inner bracket. Remove outer bumper first, then remove inner brackets



(Fig 6) End of frame once factory bumper is removed. Passenger side w-o receiver hitch pictured



(Fig 7) End of frame once factory bumper is removed. Passenger side with receiver hitch pictured



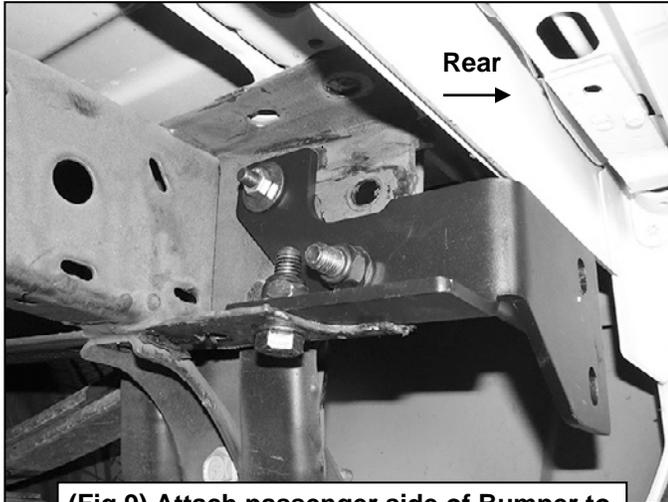
(Fig 8) Attach Bumper Bracket to side mounting holes in frame and hitch if equipped

10mm x 50mm Hex Bolt
(2) 10mm Flat Washers
10mm Nylon Lock Nut

14mm x 45mm Hex Bolt
(2) 14mm Flat Washers
14mm Nylon Lock Nut

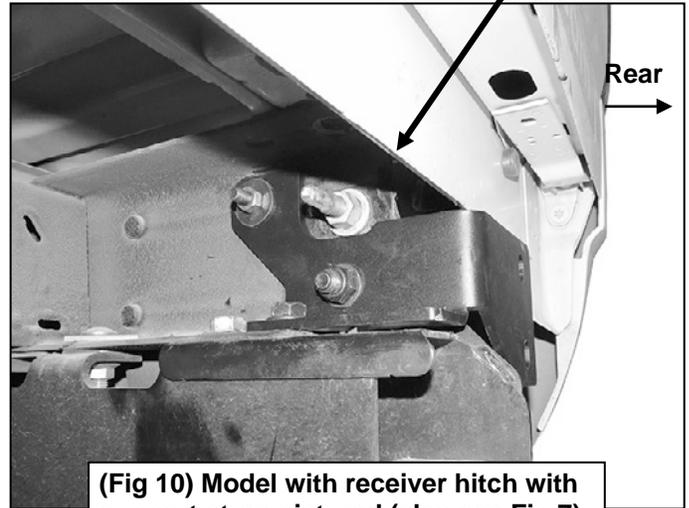


Passenger/right side installation pictured

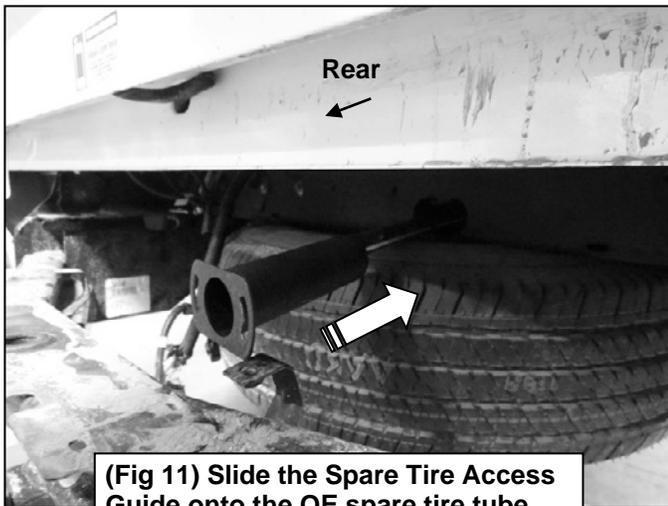


(Fig 9) Attach passenger side of Bumper to frame. Model w-o receiver hitch pictured

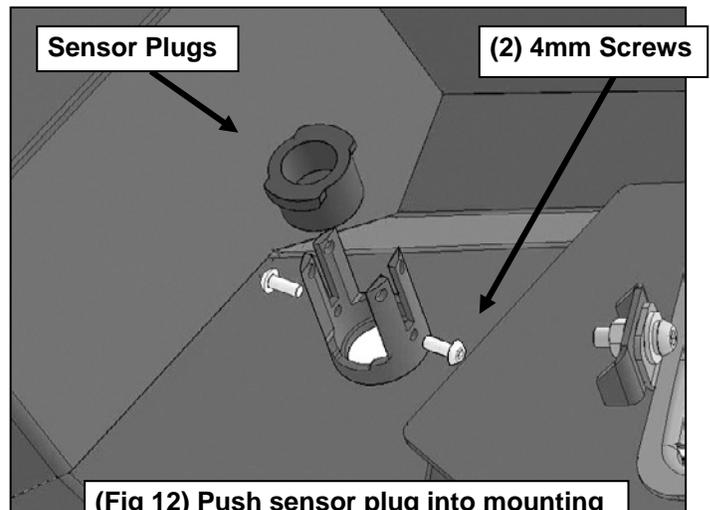
14mm x 45mm Hex Bolt
(2) 14mm Flat Washers
14mm Nylon Lock Nut



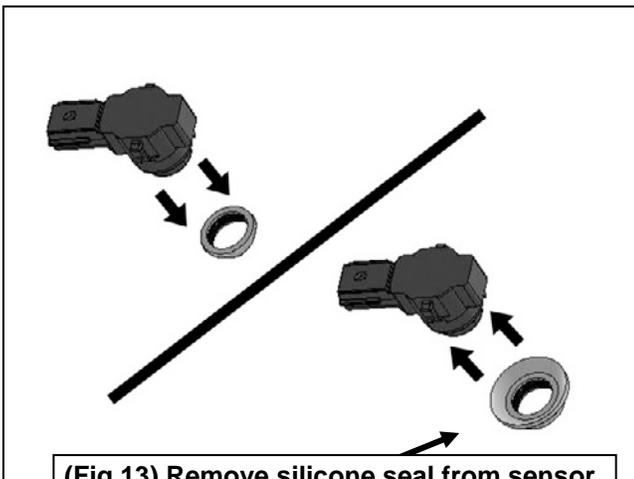
(Fig 10) Model with receiver hitch with support strap pictured (also see Fig 7)



(Fig 11) Slide the Spare Tire Access Guide onto the OE spare tire tube



(Fig 12) Push sensor plug into mounting sleeve. Use of 4mm Screws is optional

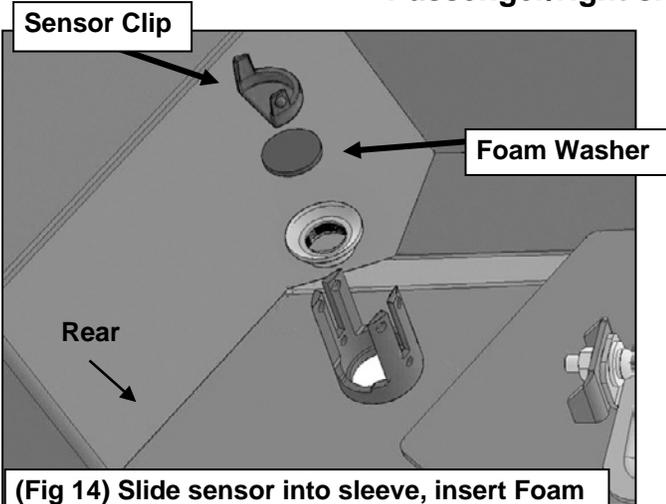


(Fig 13) Remove silicone seal from sensor. Slide large Seal over end of sensor (arrow)

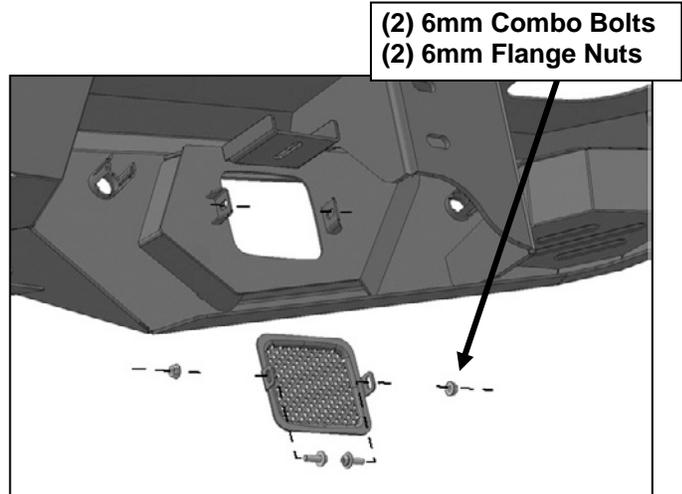
NOTE: Sensor plugs fit snug in sockets. Use of the 4mm Screws is optional. 4mm Screws can also be used to apply slight pressure to lock the sensors in place or to aim the sensor. Tighten both screws evenly until they touch the sensor body only. Do not overtighten screws or damage to sensors will result.



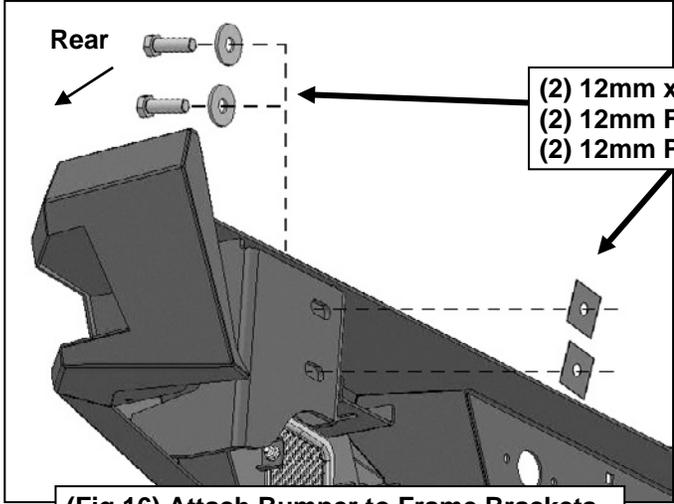
Passenger/right side installation pictured



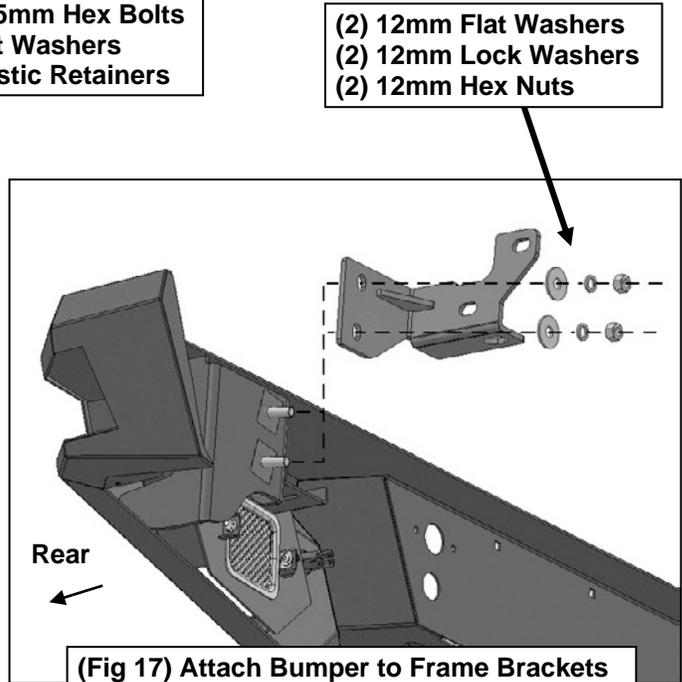
(Fig 14) Slide sensor into sleeve, insert Foam Washer and Clip to lock sensor in sleeve



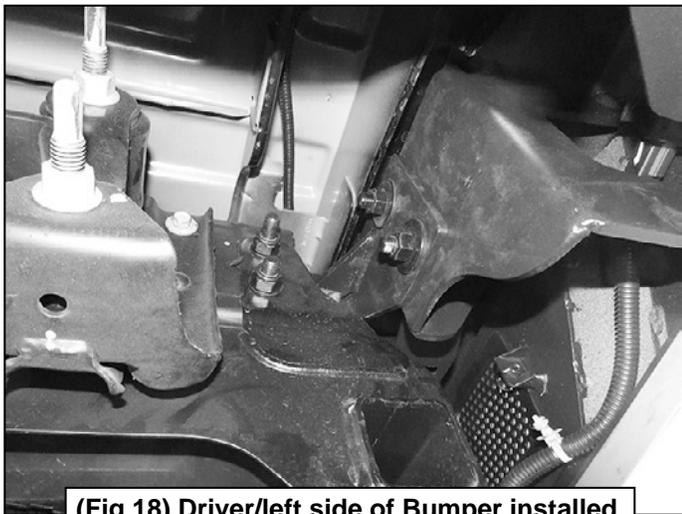
(Fig 15) Attach LED light (not included) to tab or install Fill Panel before installing Bumper



(Fig 16) Attach Bumper to Frame Brackets



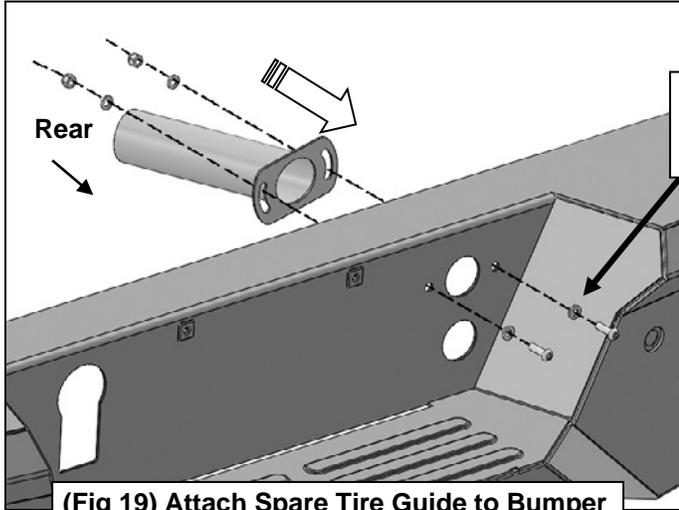
(Fig 17) Attach Bumper to Frame Brackets



WARNING! Before installation, fully support the weight of the bumper with blocks or stands to prevent injury or damage to the vehicle.

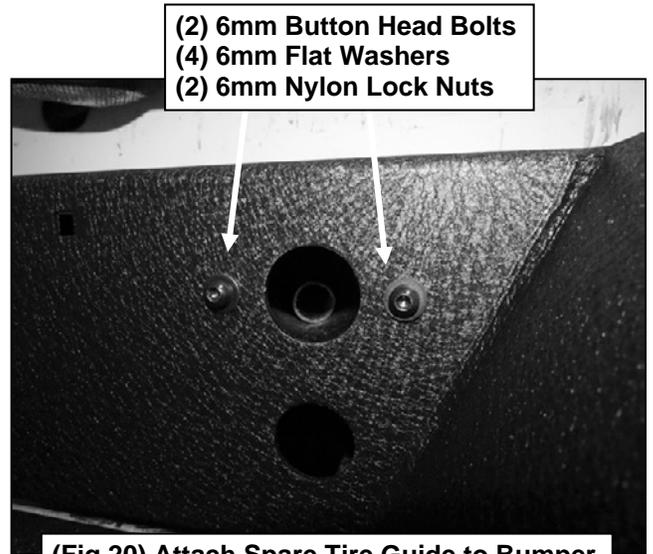


assenger/right side installation pictured



- (2) 6mm Button Head Bolts
- (4) 6mm Flat Washers
- (2) 6mm Nylon Lock Nuts

(Fig 19) Attach Spare Tire Guide to Bumper



- (2) 6mm Button Head Bolts
- (4) 6mm Flat Washers
- (2) 6mm Nylon Lock Nuts

(Fig 20) Attach Spare Tire Guide to Bumper

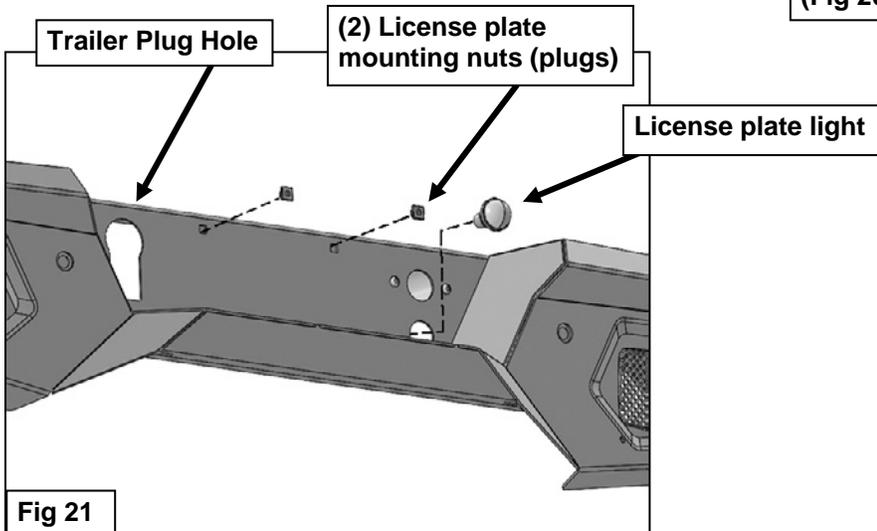


Fig 21