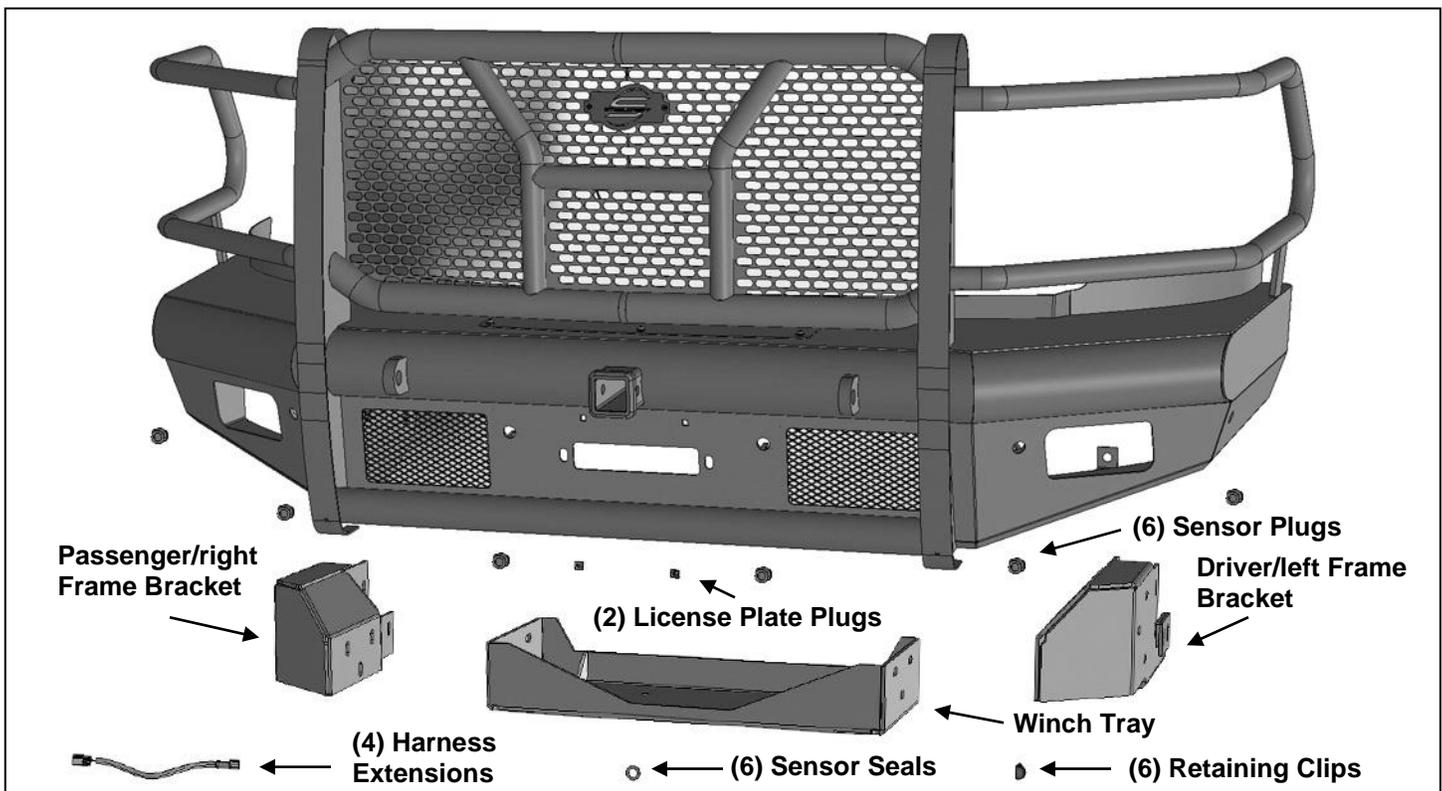


**REPLACEMENT WINCH FRONT BUMPER
2013-18 DODGE RAM 2500-3500**

PARTS LIST:

1	HD Front Bumper Assembly	1	Sensor Cover Kit
1	Driver/left Frame Mounting Bracket	8	12-1.75mm x 100mm Hex Bolts
1	Passenger/right Frame Mounting Bracket	12	12-1.75mm x 50mm
1	Winch Tray	40	12mm x 37mm OD x 3mm Flat Washers
1	Winch Access Cover	20	12mm Lock Washers
2	License Plate Mounting Plugs	20	12mm Hex Nuts
6	Sensor Retaining Clips	5	6mm Combo Button Head Bolts
6	Sensor Front Seals	12	4mm x 10mm Button Head Screws
6	Rubber Sensor Plugs	1	4mm Wrench
4	Wire Harness Extensions	1	2.5mm Wrench



PROCEDURE:

REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. BUMPER IS HEAVY, ASSISTANCE IS HIGHLY RECOMMENDED. CUTTING MAY BE REQUIRED.

1. Open the front hood and temporarily remove the top plastic cover between the radiator and the grille. Next, remove the plastic radiator grille for easier access to top bumper bracket bolts, **(Figure 1)**. **NOTE:** Pay close attention to the type and location of all factory hardware for reinstallation.
2. **Models with factory fog lights and/or sensors:** Unplug the wiring harness from the back of the bumper, **(Figure 2)**. Move the wiring harness out of the way.
3. Locate the factory bumper bolts attaching the outer bumper to the inner brackets, **(Figure 3 & 4)**. With assistance, remove the bumper assembly, **(Figure 5)**. Next, remove the (2) tow hooks.
4. Remove the inner bumper brackets and lower frame extensions from the end of the frame, **(Figures 5—7)**. **NOTE:** Lower frame extensions cannot be reinstalled.
 - a. **IMPORTANT:** On models equipped with a diesel engine, the intercooler will need to be moved out of the way to remove the bumper bracket. Assistance is highly recommended to avoid damaging the intercooler.

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- b. Remove the hex bolts attaching the hanging brackets to the inside of the frame, **(Figure 6)**. Loosen the hex bolts attaching the brackets to the intercooler. Remove the double bolt plates and bumper brackets, **(Figure 7)**. If the intercooler cannot be moved enough to clear the double bolt plates, loosen the intercooler hoses. If the double bolt plates still cannot be removed, it will be necessary to temporarily remove the intercooler. **WARNING:** Be very careful to avoid damaging the intercooler.
5. Reinstall the grille and top cover.
6. Select the driver/left Frame Mounting Bracket, **(Figure 8)**. Line up the holes in the Bracket with the holes through the frame for the bumper bracket. Attach the Mounting Bracket to the frame with (4) 12mm x 100mm Hex Bolts, (8) 12mm Flat Washers, (4) 12mm Lock Washers and (4) 12mm Hex Nuts, **(Figures 8 & 9)**. Snug but do not fully tighten hardware at this time. Repeat this Step to install the passenger side Mounting Bracket, **(Figure 10)**.
 - a. On models equipped with diesel engine, reinstall the intercooler and mounting brackets at this time. Fully tighten intercooler bracket hardware only, **(Figure 7)**.
7. Select the Winch Tray assembly. Line up the Winch Tray between the Mounting Brackets. Attach the Winch Tray to the Mounting Brackets with (6) 12mm x 50mm Hex Bolts, (12) 12mm Flat Washers, (6) 12mm Lock Washers and (6) 12mm Hex Nuts, **(Figures 11 & 12)**. Snug but do not fully tighten hardware at this time.
8. If installing winch, attach winch to Winch Tray at this time. Winch must be installed before Bumper is placed in position against Brackets. Install winch cable guide on Bumper assembly. Follow manufacturer's instructions to properly wire the winch to the electrical system.
9. Install sensors, (if equipped), before installing the Bumper.

Models without bumper sensors:

- a. Select the included (6) Rubber Plugs.
- b. From behind bumper, push plugs into sensor mounting holes, **(Figure 13)**.

Models with bumper mounted sensors:

- a. Unplug and remove sensors and wiring harness 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 14)**.
 - c. Insert sensor with Seal into sensor mount, **(Figure 15)**.
 - d. Push Sensor Retaining Clip into sensor mount and lock into mounting holes, **(Figure 15)**.
 - e. Repeat previous Steps to install remaining sensors.
 - f. Install wiring harness for sensors. Use the included (4) Wire Harnesses to extend the reach of the factory wiring harness to the outer sensors as required.
 - g. **Optional:** Secure each sensor to the socket with (2) 4mm x 10mm Button Head Screws. **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.
10. With assistance, carefully position the Bumper Assembly up to 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.
 11. Line up the (3) holes in the driver/left side of the Bumper with the (3) holes 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 Lock Washers and (3) 12mm Hex Nuts, **(Figures 16 & 17)**. Do not fully tighten hardware at this time. Repeat to attach the passenger/right side of the Bumper to the Bracket.
 12. Level and adjust the bumper and fully tighten all 12mm hardware to 65-70ft-lbs.
 13. Use the included (2) push-in plastic nuts to attach the front license plate, (if required), to the (2) holes in the front bumper, **(Figure 18)**. On models with grill mounted camera, remove center panel from screen.
 14. **Models with factory fog lights:**
 - a. Carefully remove the driver/left light assembly from the bracket on the back of the bumper, **(Figure 2)**.
 - b. Pop the light into the mounting tabs on the back of the Bumper, **(Figure 19)**. **NOTE:** Tabs may move during shipping. Bend tabs as necessary to properly line up with bulb assembly.
 - c. Repeat to install the passenger/right fog light.

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15. Reattach the factory wiring harness to the sensors and fog lights. Tighten all hardware.
16. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

NOTE: Due to the wide variety of winch brands, designs and sizes, it is possible an oversized winch may restrict airflow.

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 Bumper Assembly.

Driver Side Installation Pictured



(Fig 1) Remove radiator top cover and grille

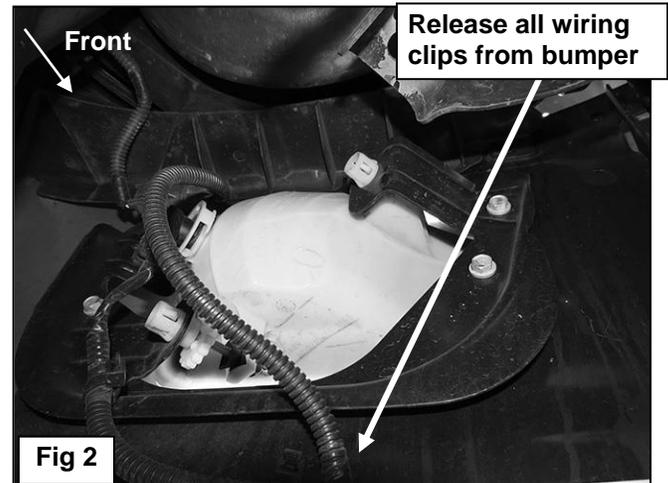
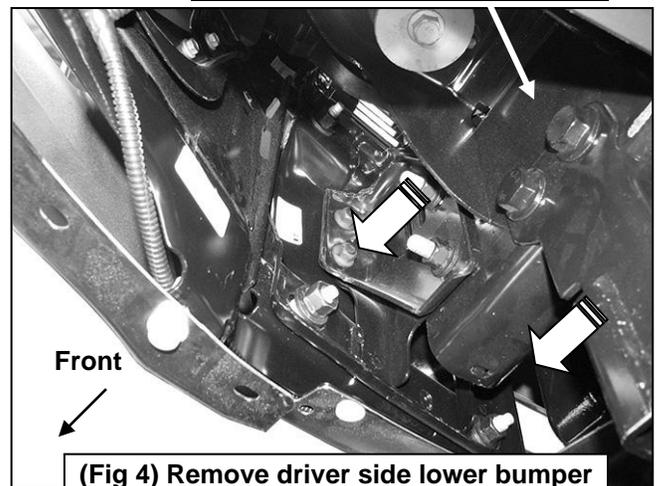


Fig 2

Remove lower frame extension
(pictured from below)



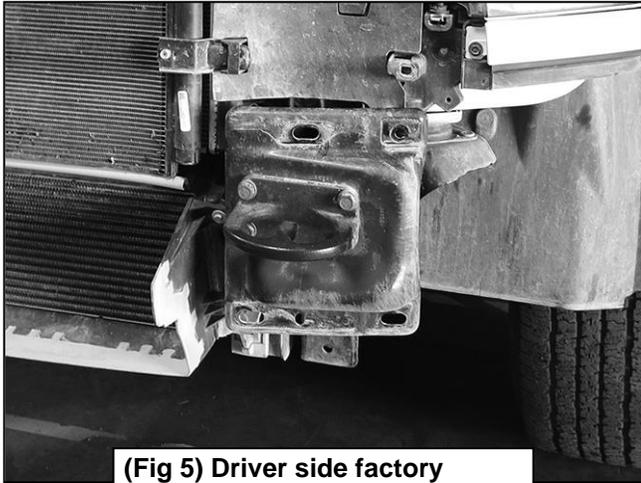
(Fig 3) Remove driver side top bumper hardware



(Fig 4) Remove driver side lower bumper
bracket hardware (pictured from below)

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Driver Side Installation Pictured



(Fig 5) Driver side factory bumper bracket and tow hook

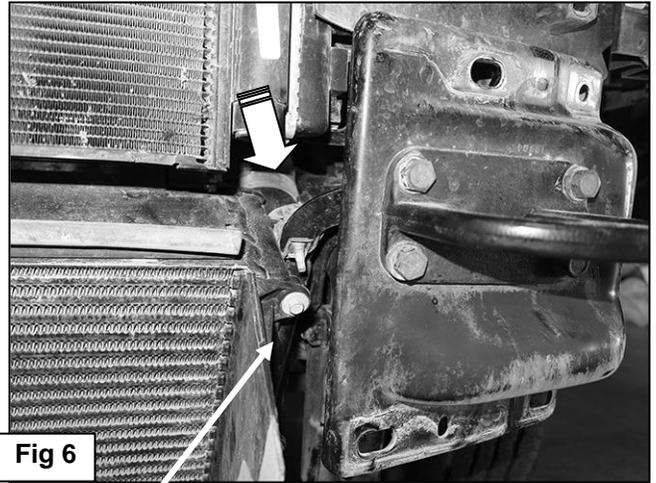
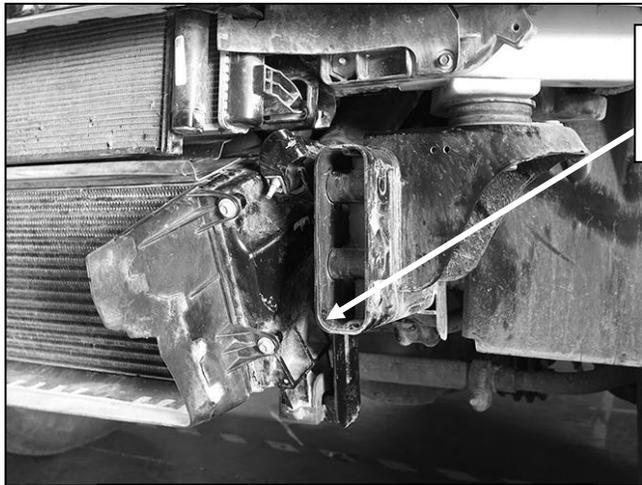


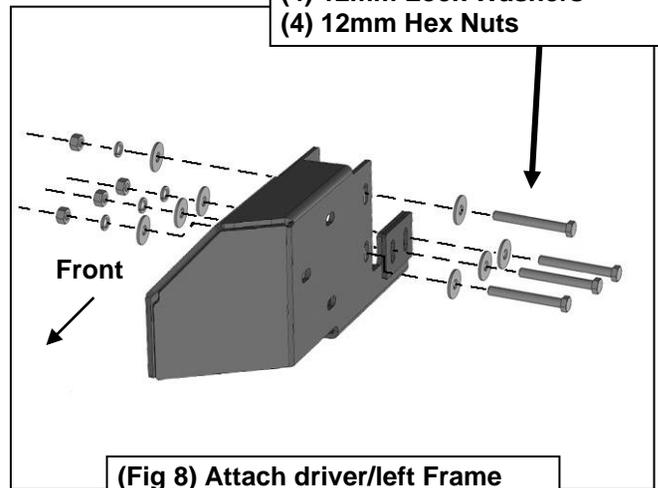
Fig 6

Diesel models, loosen top support bracket hardware at frame and intercooler (large arrow). Temporarily remove lower hanging intercooler bracket from side of frame

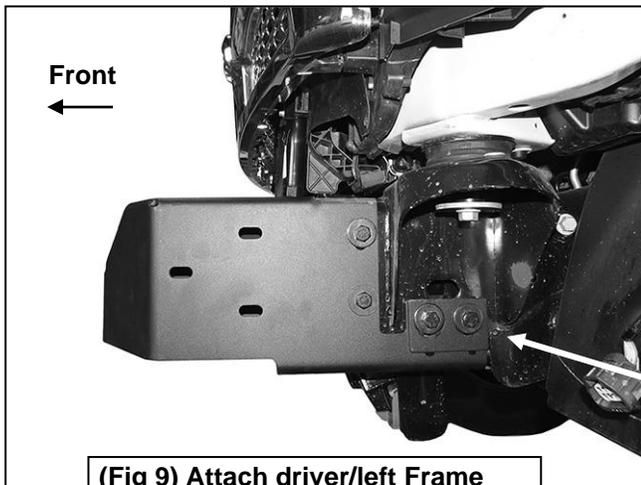


(Fig 7) Reinstall Intercooler brackets

- (4) 12mm x 100mm Hex Bolts**
- (8) 12mm Flat Washers**
- (4) 12mm Lock Washers**
- (4) 12mm Hex Nuts**



(Fig 8) Attach driver/left Frame Mounting Bracket to end of frame

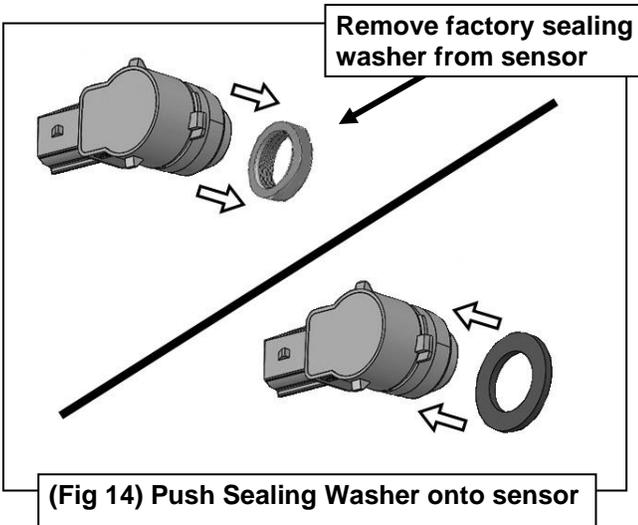
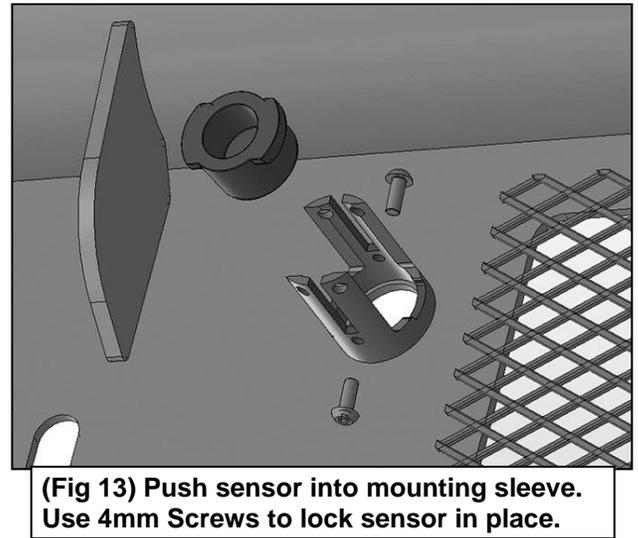
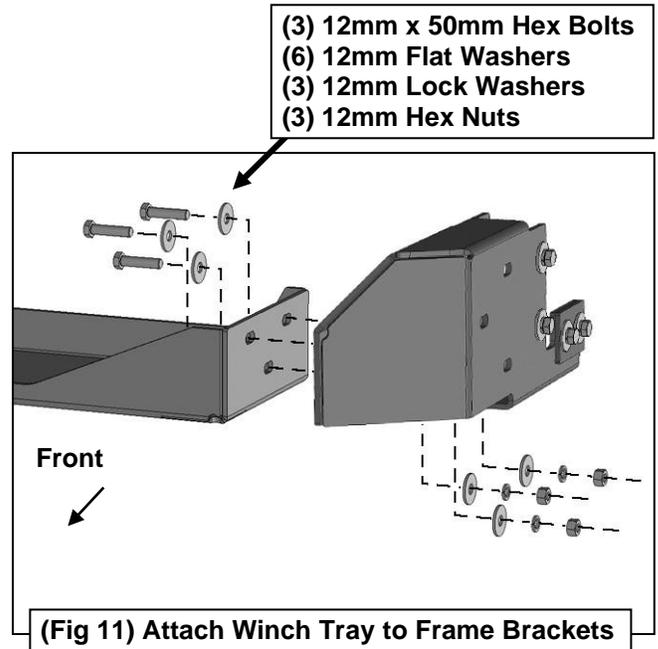
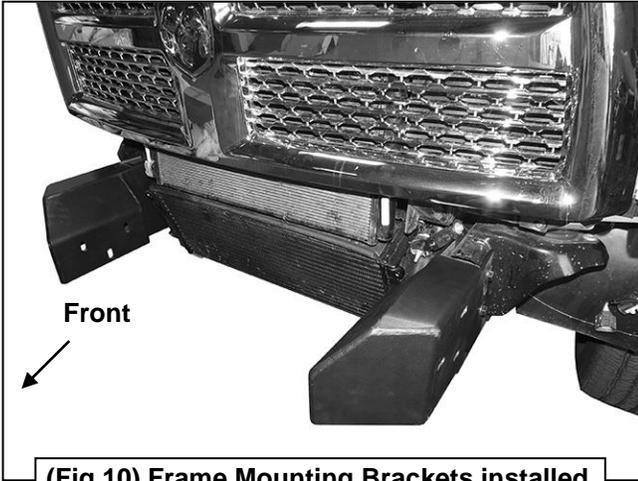


(Fig 9) Attach driver/left Frame Mounting Bracket to end of frame

- (4) 12mm x 100mm Hex Bolts**
- (8) 12mm Flat Washers**
- (4) 12mm Lock Washers**
- (4) 12mm Hex Nuts**

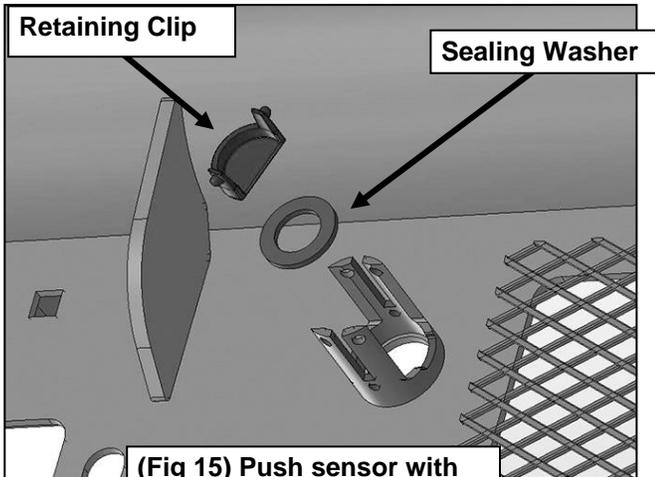
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Driver Side Installation Pictured



**REPLACEMENT WINCH FRONT BUMPER
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Driver Side Installation Pictured



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

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

