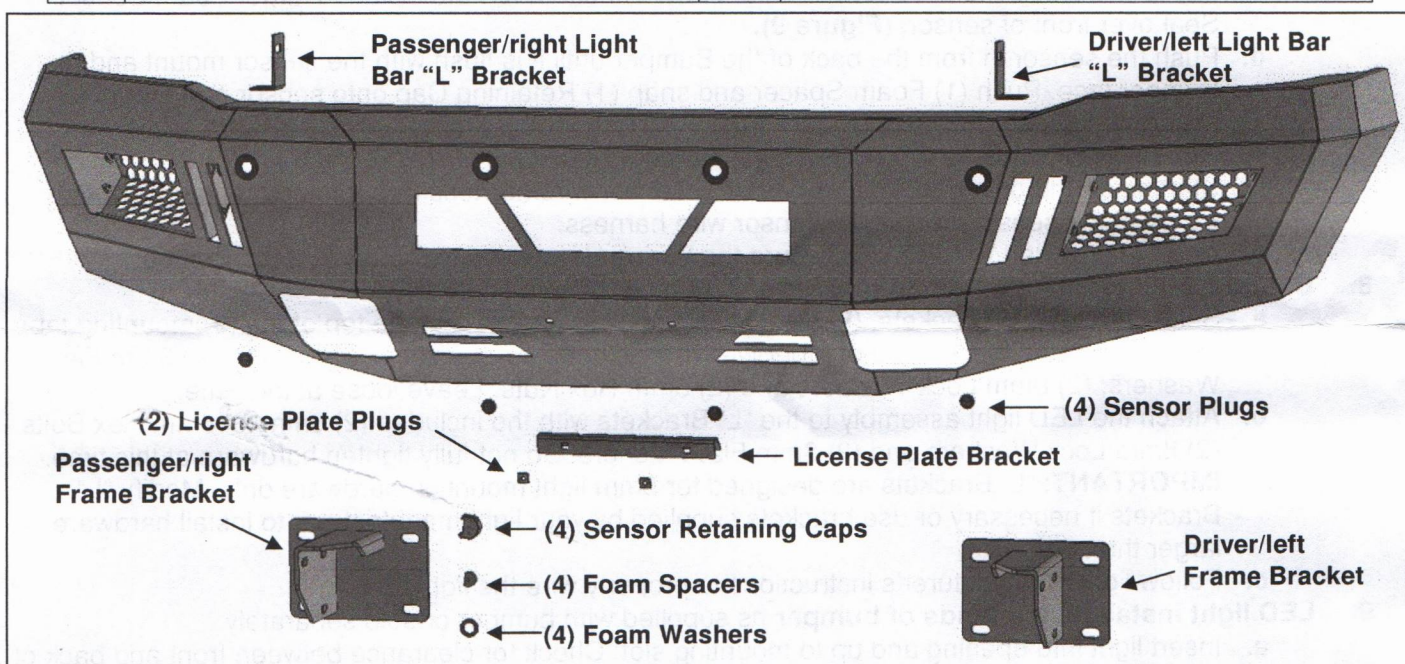


PARTS LIST: HS1011; HS1010; HS63114

1	LD1 Front bumper	6	10mm Lock Washers
1	Driver/left side Frame Bracket	6	10mm Hex Nuts
1	Passenger/right side Frame Bracket	2	8-1.25mm x 25mm Hex Bolts
1	Driver/left side Light Bar "L" Bracket	2	8-1.25mm x 16mm Hex Bolts
1	Passenger/right Light Bar "L" Bracket	6	8mm x 24mm x 2mm Flat Washers
1	License Plate Bracket	4	8mm Lock Washers
2	License Plate Plastic Plugs	2	8mm Hex Nuts
4	Retaining Caps	2	6-1.0mm x 20mm Button Head Bolts
4	20mm x 10mm Foam Spacers	4	6mm x 12mm x 1.6mm Flat Washers
4	Sealing Washers	2	6-1.0mm Nylon Lock Nuts
4	Plastic Hole Plugs	8	4mm Self Tapping Screws
1	Sensor Cover Kit	1	4mm Wrench
6	10-1.5mm x 35mm Hex Bolts	10	Nylon Wire Ties
12	10mm x 27mm x 3mm Flat Washers		



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. Open the hood and remove the plastic cover from the top of the radiator and the grille, (**Figure 1**). Temporarily remove the plastic grille.
2. Remove the license plate and bracket. On models with factory fog lights and/or parking sensors, unplug the wiring harness leading to the front bumper. Release the wiring harnesses from the clips attached to the back of the bumper and move all wiring harnesses away from bumper.
3. Release the rubber air deflector from the back of the bumper, if equipped, and remove it from vehicle. Next, remove the hardware at each end of the bumper attaching the outer bumper supports to each side of the frame, (**Figure 2**).
4. Place blocks or jack stands under the front bumper to support it during mounting bolt removal. Once the bumper has been supported, remove the lower bumper bolts attaching the inner bumper bracket to the frame bracket. Next, from above the bumper, remove the (2) bumper bolts from each side, (**Figure 3**).

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WARNING! Assistance is required to hold the bumper in place during bolt removal to prevent the bumper from falling. Remove the bumper assembly.

5. Remove the driver/left side factory bumper bracket from the end of frame, **(Figures 4 & 5)**. Select the driver/left Frame Bracket. Reuse the (4) factory hex bolts from the factory bumper bracket to attach the LD1 Mounting Bracket to the end of the Frame, **(Figure 6)**. Repeat this **Step** for passenger/right side Mounting Bracket installation. Do not fully tighten hardware.
6. Locate the vehicle horn behind the driver/left Mounting Bracket, **(Figure 7)**. Loosen hex nut and rotate plug inward to avoid interference between the vehicle horn assembly and the outer light screen on the LD1 Bumper.
7. Determine if the vehicle is equipped front sensors:

Models without bumper sensors:

- a. From the front of the bumper, push the included Plastic Plugs into sensor mounts, **(Figure 8)**.

Models with bumper mounted sensors:

- a. Remove sensors and wiring harness from back of OE Bumper, **(Figure 9)**.
- b. Test fit sensor into sensor mount on LD1 Bumper. Trim off the plastic tabs on the sensor if necessary to fit snug inside of the sensor mount.
- c. Remove the silicone seal from the end of the sensor. Slide the included larger Foam Sensor Seal over front of sensor, **(Figure 9)**.
- d. Push the sensor in from the back of the Bumper until it is flush with the sensor mount and Bumper face. Push (1) Foam Spacer and snap (1) Retaining Cap onto sensor and mount to secure the sensor in place, **(Figure 10)**.
- e. Repeat previous **Steps** for all remaining sensors.
- f. Starting on the driver/left side, run the OE sensor wire harness through the bumper cutouts. Connect the sensors to the OE sensor wire harness.
- g. Use the provided Wire Ties to secure the Wiring Harnesses to the back of the Bumper.
8. **Center LED light installation** as supplied with bumper or sold separately.
 - a. Select the L/R "L" Brackets, **(Figure 11)**. Attach the Brackets to the top of the (2) mounting tabs welded onto the back of the bumper with the included 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts. Leave loose at this time.
 - b. Attach the LED light assembly to the "L" Brackets with the included (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers. Do not fully tighten hardware at this time.
IMPORTANT: "L" Brackets are designed for 8mm light mounting hardware only. Modify "L" Brackets if necessary or use brackets supplied by your light manufacturer to install hardware larger than 8mm.
 - c. Follow light manufacturer's instructions to properly wire the light.
9. **LED light installation at ends of bumper** as supplied with bumper or sold separately.
 - a. Insert light into opening and up to mounting slot. Check for clearance between front and back of light. If necessary, remove screen from back of opening, **(Figure 12)**.
 - b. Follow the light manufacturer's instructions to attach (1) light to the slot in the top of the light opening, **(Figure 12)**.
 - c. Repeat the above **Steps** to install the remaining light.
 - d. Follow light manufacturer's instructions to properly wire light once bumper has been installed.
10. With assistance, position the Bumper Assembly up to the outside of the Frame 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. Attach the Bumper to the outside of the Brackets with the included (6) 10mm x 35mm Hex Bolts, (12) 10mm Flat Washers, (6) 10mm Lock Washers and (6) 10mm Hex Nuts, **(Figures 13 & 14)**. Do not fully tighten hardware.
12. Level and adjust the Bumper and fully tighten all hardware.
13. Plug the bumper wiring harness into the main vehicle harness if equipped.
14. On vehicles requiring front license plate, attach the License Plate Bracket to the holes in the Bumper with the included (2) 6mm x 20mm Button Head Bolts, (4) 6mm Flat Washers and (2) 6mm Nylon Lock Nuts, **(Figure 15)**. Insert (2) Plastic Plugs into the square holes in the Bracket. Reuse the factory screws to attach the license plate to the plastic plugs.

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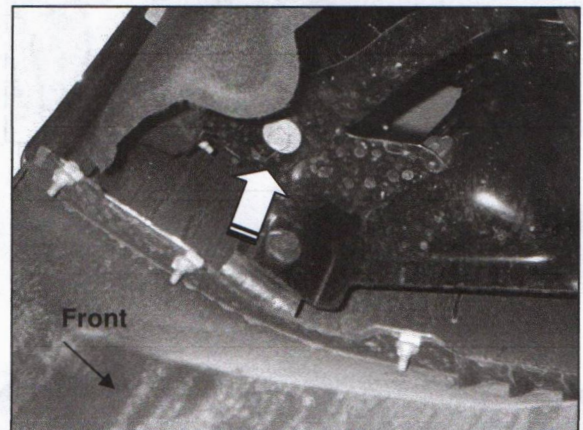
15. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

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 LD1 Front Bumper assembly.

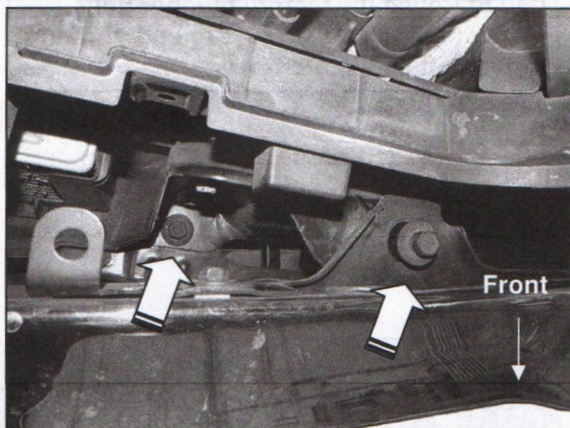
Driver/left Side Installation Pictured



(Fig 1) Remove plastic cover and grille

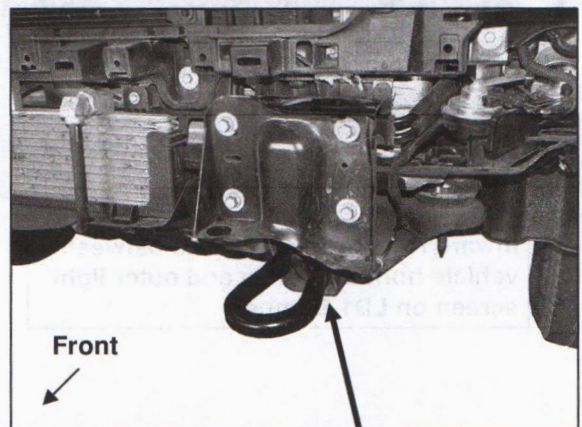


(Fig 2) Remove outer bumper supports attaching ends of bumper to frame (driver/left side pictured)



(Fig 3) Remove bumper bolts (arrows) to remove bumper (driver/left side pictured from above)

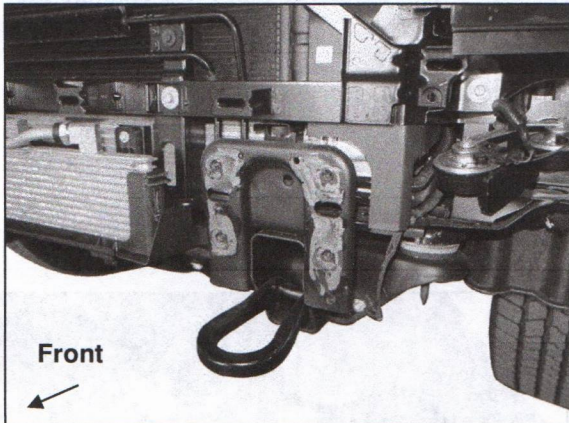
WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or it may fall.



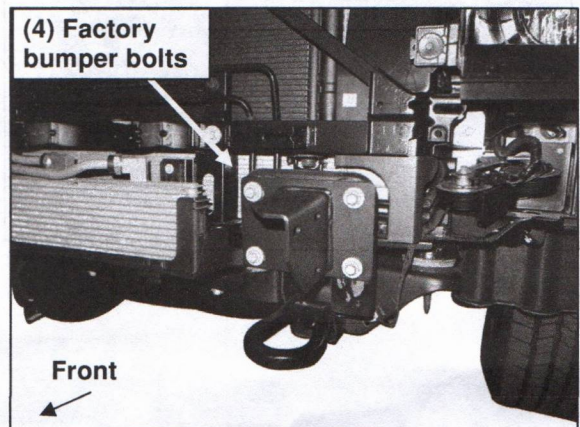
(Fig 4) Remove factory bumper brackets from end of frame (driver/left side pictured)

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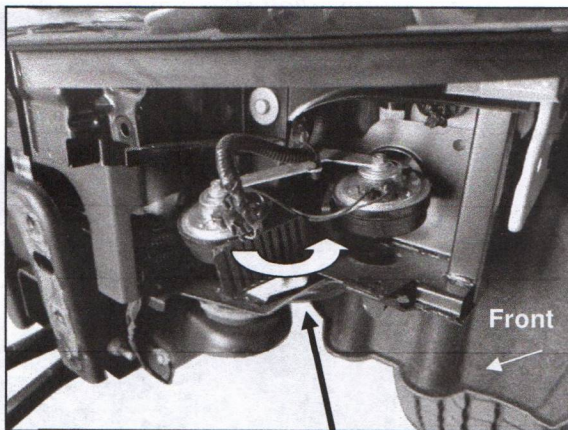
Driver/left Side Installation Pictured



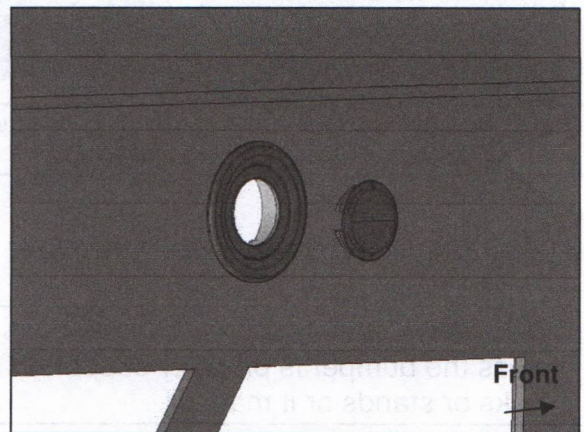
(Fig 5) Factory bumper Brackets removed



(Fig 6) Reuse the factory bumper bolts to attach the Frame Brackets to end of frame (driver/left side pictured)

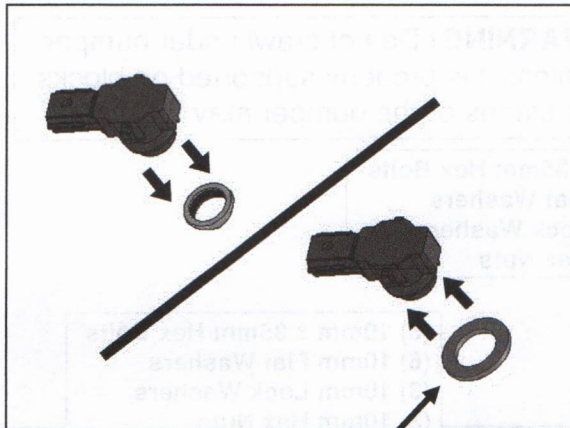


(Fig 7) Loosen hex nut and rotate plug inward to avoid interference between vehicle horn assembly and outer light screen on LD1 Bumper



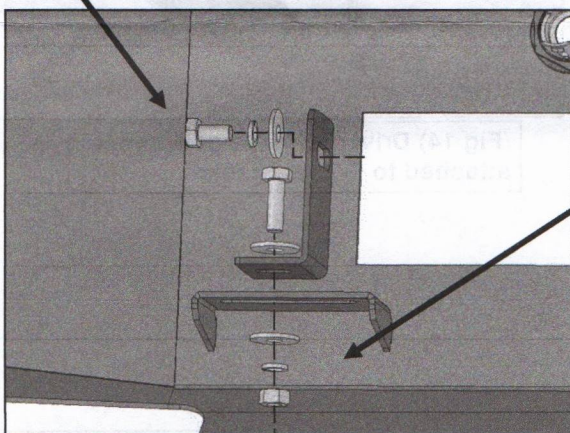
(Fig 8) Push sensor plug into mount

Driver/left side installation pictured



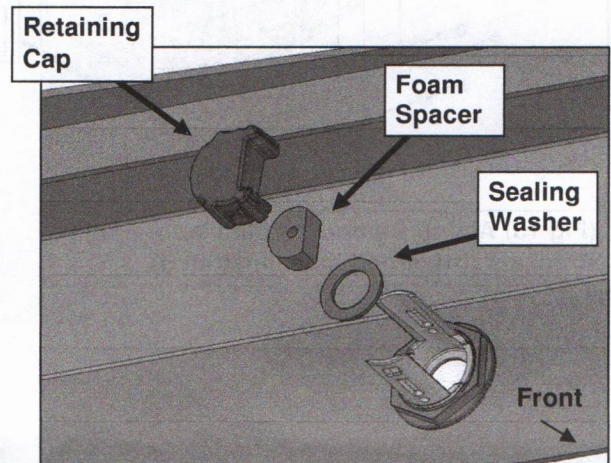
(Fig 9) Remove silicone seal from sensor. Slide larger Foam Seal over end of sensor

- (2) 8mm x 16mm Hex Bolts
- (2) 8mm Lock Washers
- (2) 8mm Flat Washers

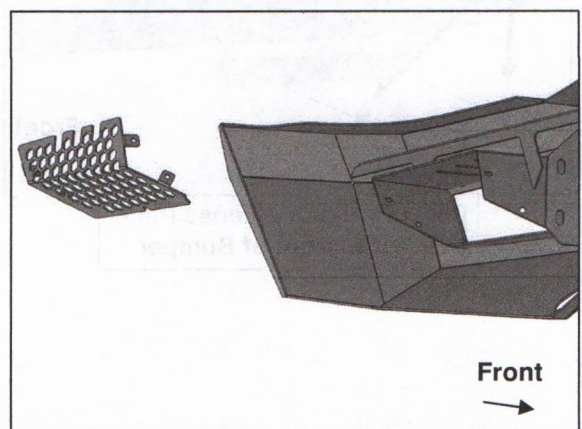


(Fig 11) Typical center light installation

- (2) 8mm x 25mm Hex Bolts
- (4) 8mm Flat Washers
- (2) 8mm Lock Washers
- (2) 8mm Hex Nuts



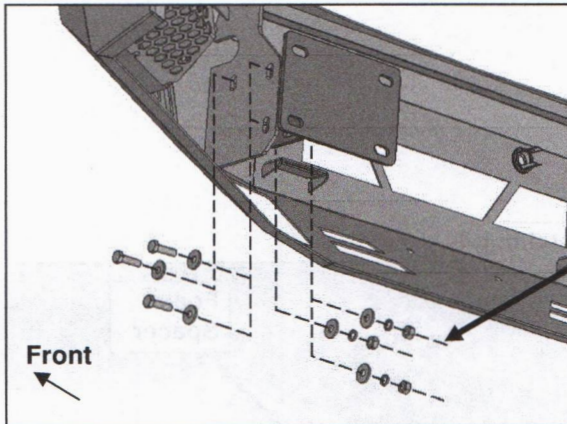
(Fig 10) Attach sensor to Bumper assembly



(Fig 12) Remove screens if necessary for clearance/access to outer light mounts

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Driver/left side installation pictured

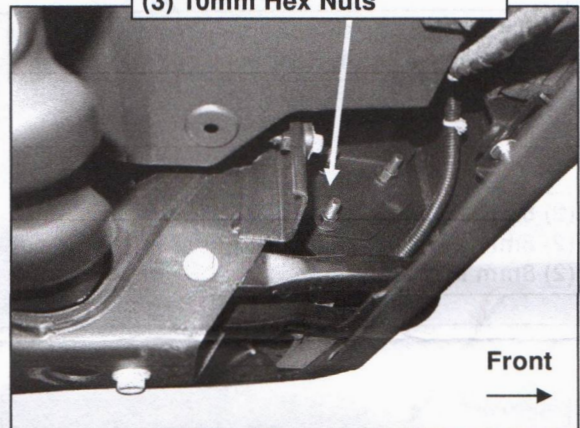


(Fig 13) Attach Bumper to outside of Frame Brackets (Driver/left side illustrated)

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

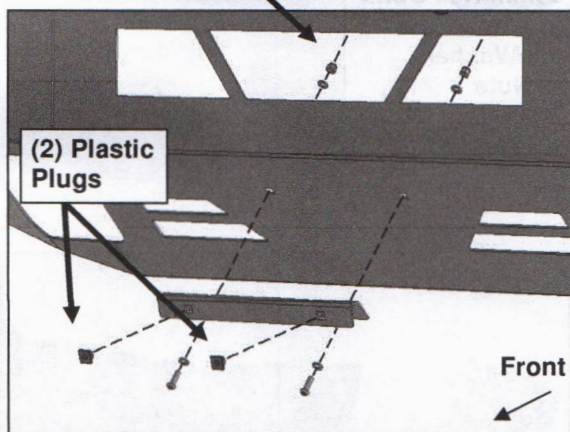
- (3) 10mm x 35mm Hex Bolts
- (6) 10mm Flat Washers
- (3) 10mm Lock Washers
- (3) 10mm Hex Nuts

- (3) 10mm x 35mm Hex Bolts
- (6) 10mm Flat Washers
- (3) 10mm Lock Washers
- (3) 10mm Hex Nuts



(Fig 14) Driver/left side of Bumper attached to Frame Bracket

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



(Fig 15) Attach License Plate Bracket to front of Bumper



Complete Installation