PARTS LIST:
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1	HD Front Bumper Assembly	6	6mm x 25mm Hex Bolts	
1	Driver/left Frame Bracket	4	6mm x 50mm Button Head Bolts	
1	Passenger/right Frame Bracket	9	6mm x 18mm x 1.6mm Flat Washers	
1	Adaptive Cruise Control, (ACC) Plastic Cover	7	6mm x 12mm x 1.6mm Flat Washers	
1	Driver/left side ACC Bracket	10	6mm Lock Washers	
1	Passenger/right side ACC Bracket	10	6mm Hex Nuts	
1	ACC Adapter Plate	1	4mm Allen Wrench	
2	Plastic Plugs for license plate mount	1	2.5mm Allen Wrench	
4	Parking Sensor Retaining Caps	1	Sensor Cover Kit	
4	15.5mm x 25mm OD x 2mm Sensor Seals	4	Plastic Parking Sensor Plugs	
4	20mm x 10mm Foam Spacers	8	4mm Self Tapping Screws	
14	12-1.75mm x 50mm Hex Bolts	2	Parking Sensor Wiring Extenders	
32	12mm x 32mm x 3mm Flat Washers	8	4mm x 20mm Socket Head Screws	
18	12mm Lock Washers	8	4mm Hex Nuts	
18	12-1.75mm Hex Nuts	16	4mm x 8.65mm x .8mm Flat Washers	
4	12mm Bolt Plates	8	4mm Lock 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.

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- 1. Remove the license plate. Unplug all wiring harnesses connecting bumper to vehicle (Figure 1).
- Remove the outer bumper supports attaching the outer ends of the bumper to the side of the frame, (Figure 2). Remove the plastic covers from the tow hooks to uncover the bumper bolts, (Figures 3 & 4).
- Place blocks or jack stands under the front bumper to support it during mounting bolt removal. Once the bumper has been safely supported, remove the (8) factory bumper bolts, (Figure 4).
   WARNING! Assistance is required to hold the bumper in place during bolt removal to prevent the bumper from falling. Carefully slide the bumper off, over the tow hooks. There will be 2 plastic pins that attach the bumper to the grille that need to be pried off (Figure 5).
- 4. Remove the driver/left side tow hook from the end of the frame, (Figure 6). Next, remove the (4) factory hex nuts, lower frame extension and double bolt plates from the end of the frame, (Figure 6). Repeat this Step to remove the passenger/right side tow hook and lower frame extension.
- 5. Reuse the factory hardware to attach the tow hooks to the brackets on the back of the HD Bumper, (Figure 7). NOTE: if truck is equipped with adaptive cruise control do not install the driver side tow hook. The ACC sensor will be relocated to this location.
- 6. Next, select the driver/left Frame Bracket. Slide the Bracket over the end of the frame. Line up the slots in the side of the Bracket with the holes in the outside of the frame. Select (2) 12mm Bolt Plates. Insert the Bolt Plates into the open end of the frame and out through the Bracket. Attach the Bracket to the Bolt Plates with (2) 12mm Flat Washers, (2) 12mm Lock Washers and (2) 12mm Hex Nuts, (Figure 8). Leave loose at this time.
- Attach the mounting tab on the top of the Bracket to the top of the frame at the original tow hook location with the included (4) 12mm x 50mm Hex Bolts, (8) 12mm Flat Washers, (4) 12mm Lock Washers and (4) 12mm Hex Nuts, (Figure 9). Do not fully tighten hardware at this time.
- 8. Repeat Steps 6 & 7 to attach the passenger/right Frame Bracket to the end of the frame.
- 9. Determine if truck is equipped with fog lights, otherwise skip to step 10.

## Models with factory fog lights:

- a. Remove fog lights from the back of the OE bumper. Brackets may need to be removed to gain proper access (Figure 10).
- **b.** Move to the driver/left fog light opening. Place fog like into the fog light bracket on the new HD bumper. Make note of the plastic tabs that need to be removed for the light to sit flush. Use diagonal cutters to trim off tabs (**Figure 11 & 12**).
- c. Attach fog light to the Bracket with the included (4) 4mm x 20mm socket head screws, (8) 4mm x 9mm STD Flat Washers, (4) 4mm lock washers and (4) 4mm hex nut, (Figure 12).
- d. Repeat to install the passenger/right fog light.
- **10.** Determine if truck is equipped with front parking sensors.
  - For vehicles not equipped with front parking sensors.
    - **a.** Select the included (4) Plastic Parking Sensor Plugs. From the front of the bumper, push plugs into sensor sleeves, (Figure 17).

# For vehicles equipped with front parking sensors.

- a. Remove the silicone seal from the end of the sensor. Remove the adhesive backing from the 15.5mm x 25mm x 2mm Foam Washer Seal. Slide the Foam Seal over front of sensor (Figure 18).
- **b.** Insert sensor with Foam Washer into sensor sleeve.
- c. Place (1) Foam Spacer on back of sensor. Push Sensor Retaining Cap onto sensor mount and lock into mounting holes, (Figure 19).
- d. Repeat previous Steps to install remaining sensors.
- **11.** Determine if truck is equipped with adaptive cruise control, (ACC).

## Vehicles without Adaptive Cruise Control, skip to Step 12.

- **a.** Remove the 3 nuts securing the ACC sensor to the front of the OE bumper. (Figure 13). Unplug the wiring harness and remove the sensor from the bumper.
- b. Select the ACC sensor, Left ACC Bracket, Right ACC Bracket and ACC Adapter Bracket. Position the Left and Right brackets between the adapter and sensor (Figure 14). Attach the sensor to the adapter bracket with (3) 6mm x 25mm Hex Bolts, (6) 6mm Flat Washers, (3) 6mm Lock Washers and (3) 6mm Hex Nuts. Do not tighten hardware

- c. Select the plastic ACC cover. Insert (4) 6mm x 50mm Button Head Bolts through the (4) holes on the ACC Plastic Cover to each side of the Left and Right ACC brackets. Secure with (4) 6mm Flat Washers, (4) 6mm Lock Washers and (4) 6mm Hex Nuts, (Figure 15).
- d. Attach the sensor and bracket assembly to the driver side tow hook mount with the included (3) 6mm x 25mm Hex Bolts, (6) 6mm Flat Washers, (3) 6mm Lock Washers and (3) 6mm Hex Nuts, (Figure 16).
- 12. With assistance, carefully position the Bumper Assembly 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.
- Attach the Bumper to the outside of the Frame Brackets with the included (6) 12mm x 50mm Hex Bolts, (12) 12mm Flat Washers, (6) 12mm Lock Washers and (6) 12mm Hex Nuts, (Figure 20). Do not fully tighten hardware at this time.
- 14. Level and adjust the bumper and fully tighten all 12mm hardware to 65-70ft-lbs.
- **15.** Insert (2) Plastic Plugs into the Bumper. Reuse factory hardware to attach license plate to Plugs. On models with grille emblem mounted factory camera, remove the center window screen, (Figure 21).
- 16. Remove the factory wiring harness from the old bumper and reattach to the new HD bumper.
- 17. 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) Unplug all wiring harnesses. (Inside of driver side frame shown)



(Fig 2) Remove outer bumper support brackets between frame and bumper (arrow) [Passenger side shown]

### **Driver Side Installation Pictured**





(Fig 4) Remove bumper bolts (driver side pictured)





(Fig 5) Remove the clips attaching rubber bumper trim to grille.



(Fig 6) Remove tow hook assembly and lower frame extension

**Driver Side Installation Pictured** 



#### **Driver Side Installation Pictured**

(8) 4mm x 20mm Screws
(16) 4mm Flat Washers
(8) 4mm Lock Washers
(8) 4mm Hex Nuts

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(Fig 12) Attach fog lights to bumper using 4mm hardware





(Fig 13) Remove adaptive cruise control "ACC" and parking sensors (if equipped)





# Supplemental Instructions – Adaptive Cruise Control

• Some vehicles may be equipped with a unique adaptive cruise control sensor. Minor trimming is required for the sensor to rest flat on the new relocation bracket.

