

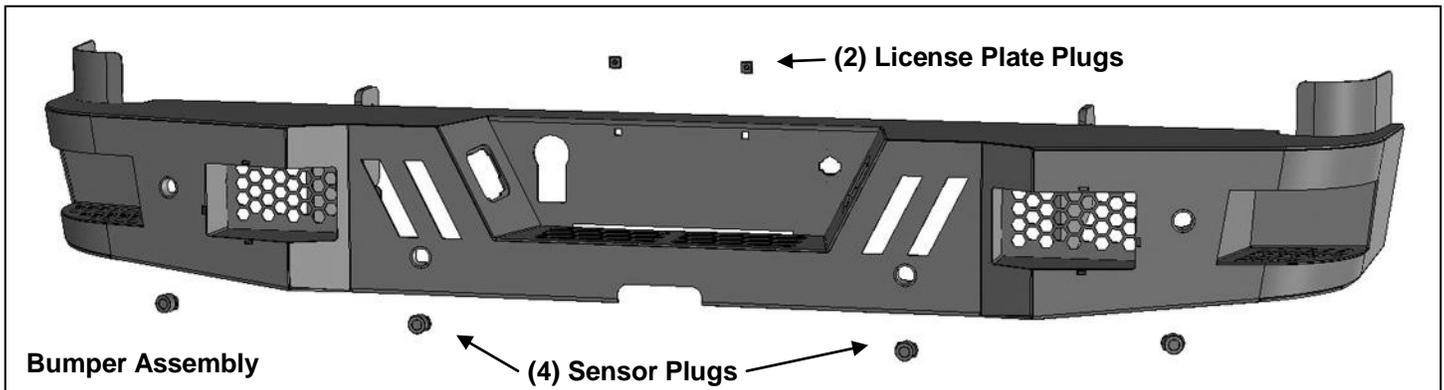
BODY ARMOR 4x4

**ECO-SERIES REAR BUMPER
2017 - FORD SUPERDUTY
FD-2966**

Body Armor 4x4
272 Corporate Terrace St.
Corona, CA 92879
951-808-0750
Customer Service hours:
M-TH: 7:30am to 4:30 PM Pacific Time
Friday: 8 AM – Noon Pacific Time

PARTS LIST:

1	HD Rear Bumper Assembly	8	4mm x 10mm Socket Head Screws
2	Plastic Plugs for license plate mount	1	4mm Wrench
4	Sensor Plugs	1	2.5mm Wrench
10	Nylon Cable Ties 200mm		



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 back up sensors, unplug the harness leading to the bumper and sensors. Unplug the factory license plate lights remove them from the bumper. Unplug the trailer harness plug from the back of the bumper. Remove the outer plug from the bumper. Move the wiring harness away from the bumper, **(Figure 1)**.
2. Place blocks or jack stands under the bumper to support it during mounting bolt removal. Once the bumper has been safely supported, remove the (2) large hex nuts per side attaching the bumper to the brackets attached to the frame, **(Figure 2)**. **WARNING!** Assistance is required to hold the bumper in place during hardware removal to prevent the bumper from falling.
3. Once the bumper has been moved away from the vehicle, remove the bumper brackets from the frame, **(Figures 3 & 4)**. **NOTE:** Do not remove the 90-degree support brackets attached to the top of the receiver hitch, **(Figure 5)**.
4. With assistance, position the mounting plates on the back of the HD Bumper Assembly up to the sides of the frame. Temporarily support the weight of the Bumper Assembly. **WARNING:** To avoid possible injury or damage to the vehicle, do not proceed until the Bumper is fully and safely supported.
5. Line up the (4) holes in the passenger side mounting plate with the (2) holes in the side of the frame and the (2) holes in the support bracket on the hitch. Reuse the factory double bolt plates and hardware to attach the mounting plate to the frame and support bracket, **(Figure 6)**. Leave hardware loose. Repeat this Step to attach the driver side mounting plate.
6. Slowly open the tail gate and check for clearance. Level and adjust the bumper as necessary and fully tighten all hardware.
7. Select the (2) factory license plate lights. Push the lights into the holes in the Bumper, **(Figure 7)**.
8. Install the trailer plug into the opening in the bumper. Reinstall the access hole lock for the spare tire, **(Figure 8)**.
9. Reattach the wire harness running to the license plate lights and trailer plug.
10. Use the included (2) push-in plastic nuts to attach the license plate to the (2) holes in the Bumper Assembly, **(Figure 8)**.
11. **LED light installation at ends of bumper** (lights sold separately).

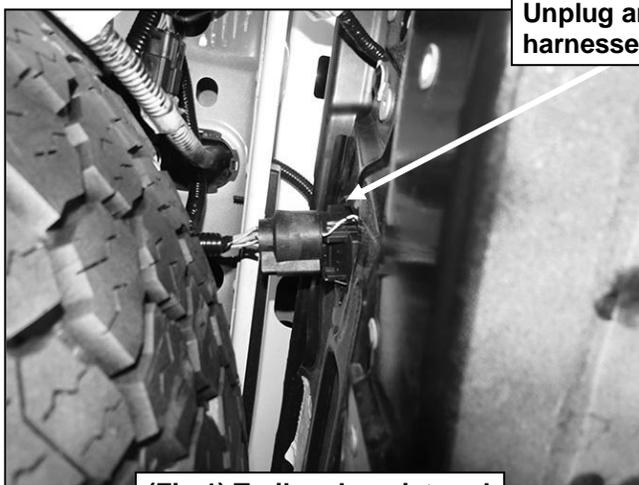
- a. Insert light into opening and up to mounting slots. Check for clearance between front and back of light. If necessary, remove the screen from the back of the opening for additional clearance or access to light, **(Figure 9)**.
- b. Follow the light manufacturer's instructions to attach (1) light to the center slot or (2) lights to the inner and outer slots in the top of the light opening.
- c. Repeat the above steps for passenger side light installation.
- d. Follow light manufacturer's instructions to properly wire the light.

12. Models with bumper mounted sensors:

- a. Remove the rubber plugs from the sockets in the bumper assembly. Push the sensor in from the back of the bumper.
- b. Secure each sensor to the socket with (2) 4mm x 10mm Button Head Screws, **(Figure 10)**.
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 over-tighten screws or damage to sensors will result.
- c. Reattach wiring harness to sensors.

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

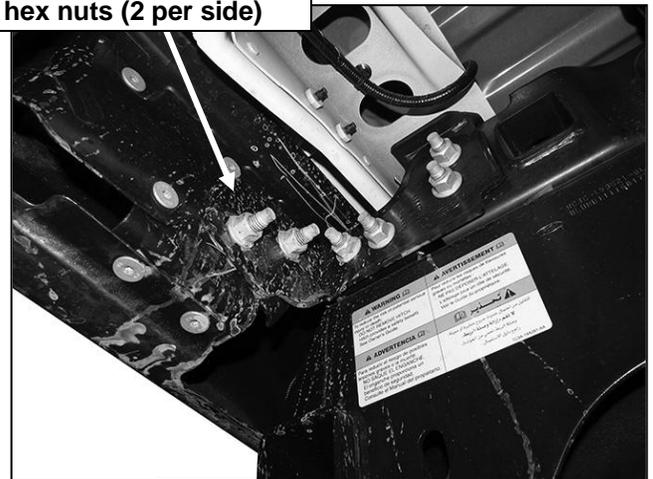
To protect your investment, wax this product after installing. Regular waxing is recommended to add a protective layer over the finish. Do not use any type of polish or wax that may contain abrasives that could damage the finish. Mild soap may be used to clean the HD1 Bumper assembly.



Unplug and move all wiring harnesses away from bumper

(Fig 1) Trailer plug pictured

Remove the (4) factory hex nuts (2 per side)



(Fig 2) Remove hex nuts to remove bumper assembly

Remove bumper bracket and double bolt plates



(Fig 3) Remove factory bumper brackets

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

Passenger/right Side Installation Pictured

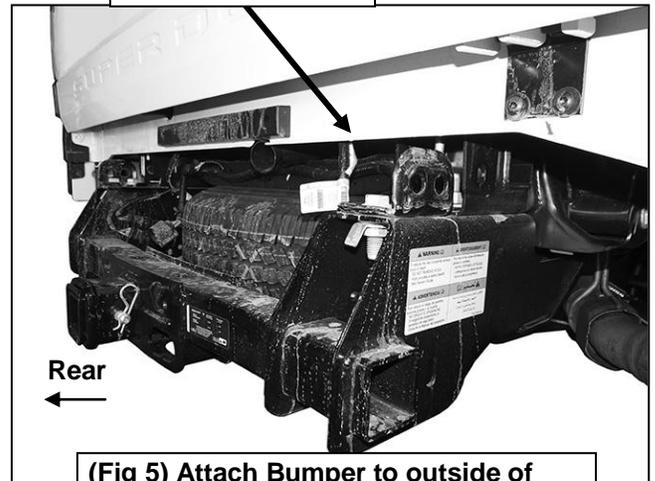
Remove bumper bracket
and double bolt plates



(Fig 4) Remove factory bumper brackets,
Do not remove 90-degree support bracket

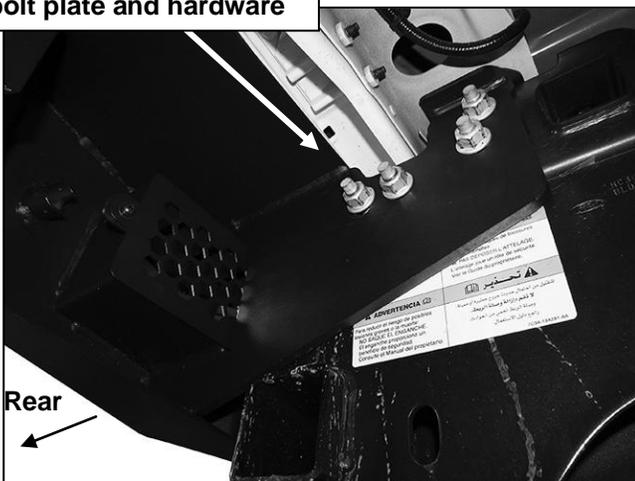
WARNING! Do not crawl under bumper
unless the bumper is properly supported on
blocks or stands or the bumper may fall.

Factory 90-degree
support bracket

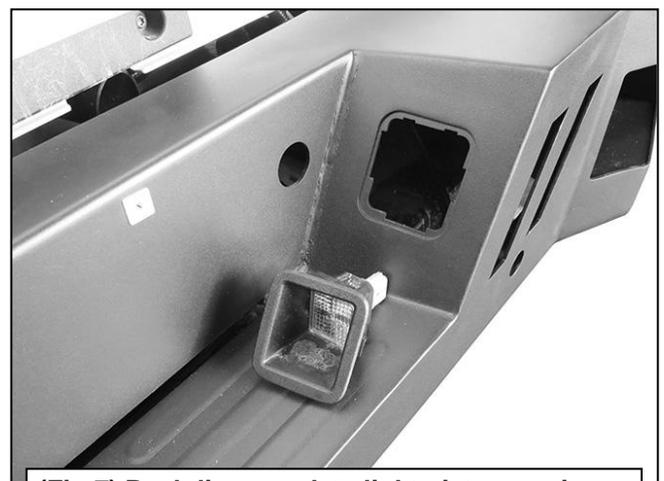


(Fig 5) Attach Bumper to outside of
frame (passenger side pictured)

Reuse factory double
bolt plate and hardware

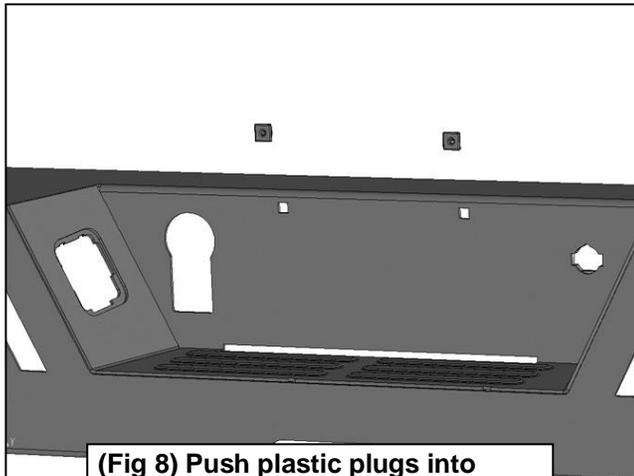


(Fig 6) Reuse factory hardware to
attach mounting plate to side of
bumper (passenger side pictured)

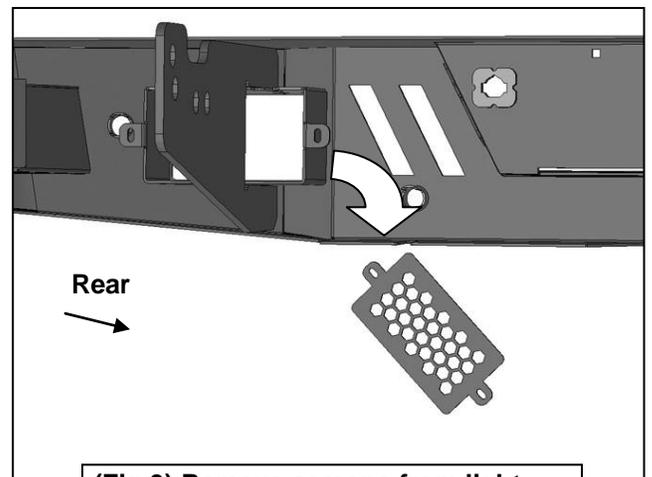


(Fig 7) Push license plate lights into openings

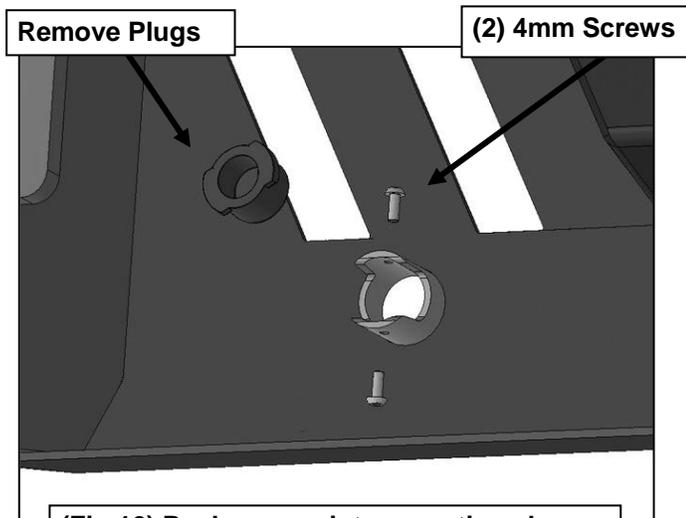
Passenger/right Side Installation Pictured



(Fig 8) Push plastic plugs into holes in Bumper for license plate



(Fig 9) Remove screens from light mounts if necessary for additional clearance around or access to lights



(Fig 10) Push sensor into mounting sleeve. Use 4mm Screws to lock sensor in place.



Complete Installation