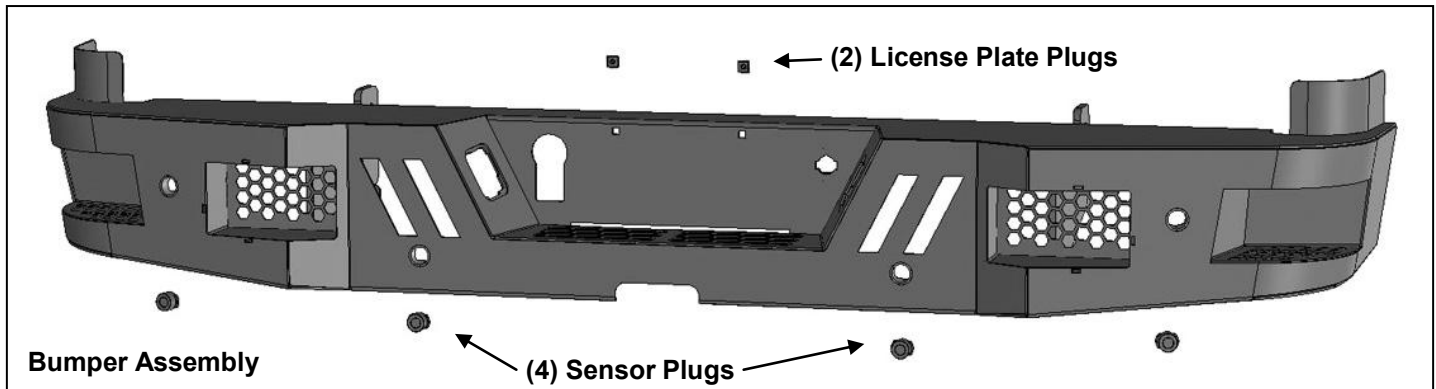


PARTS LIST:

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).

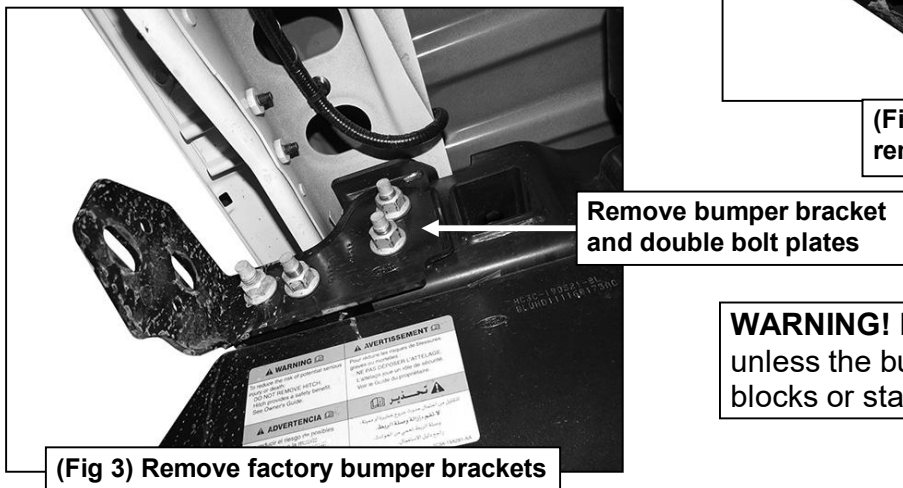
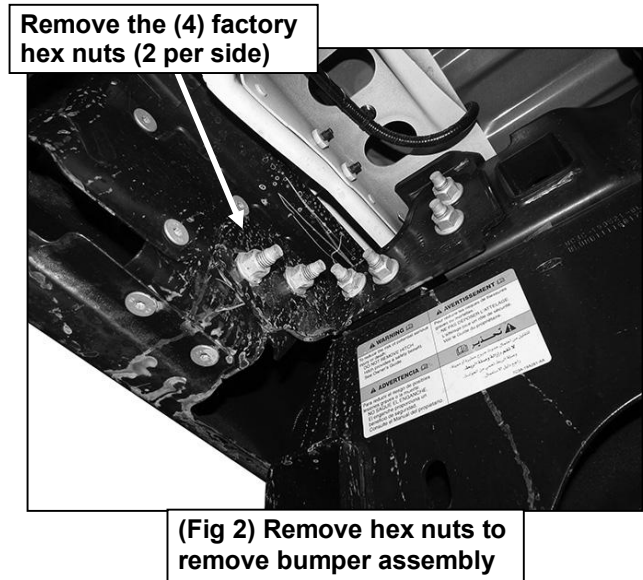
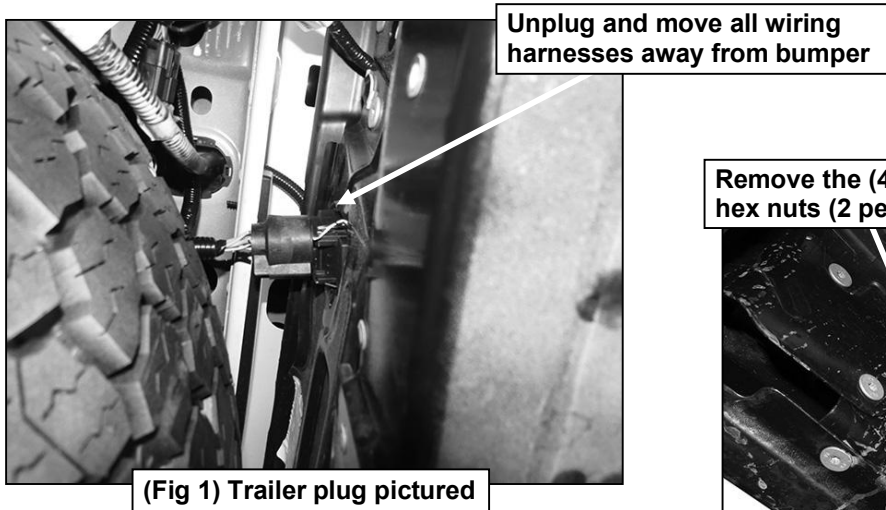
- a. Insert light into opening and up to mounting slots. Check for clearance between front and back of light. If necessary, remove the screen from the back of the opening for additional clearance or access to light, **(Figure 9)**.
- b. Follow the light manufacturer's instructions to attach (1) light 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 overtighten 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.



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

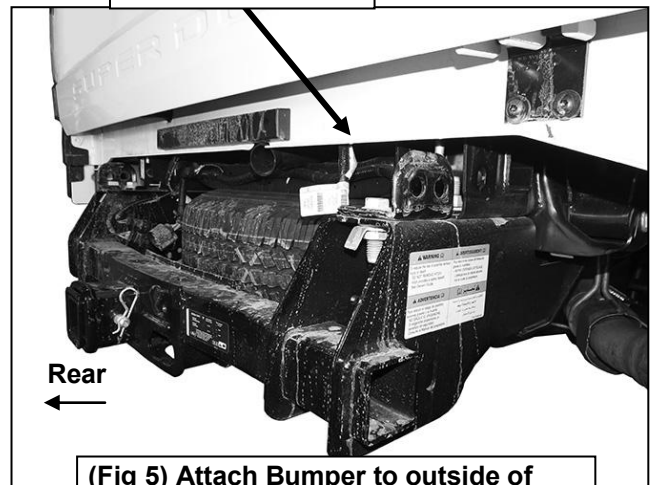
Remove bumper bracket and double bolt plates



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

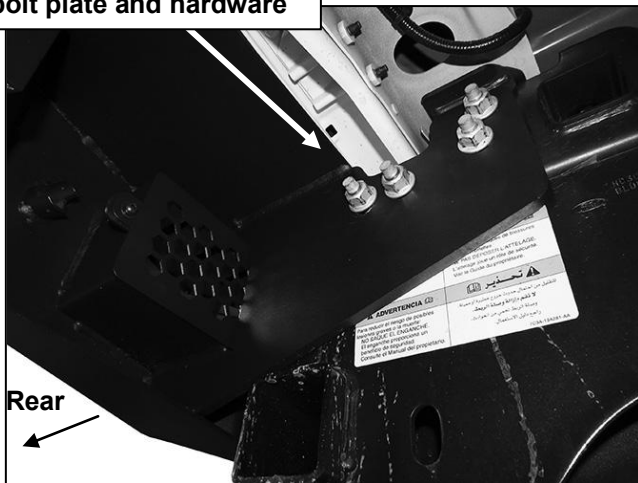
WARNING! Do not crawl under bumper unless the bumper is properly supported on blocks or stands or the bumper may fall.

Factory 90-degree support bracket

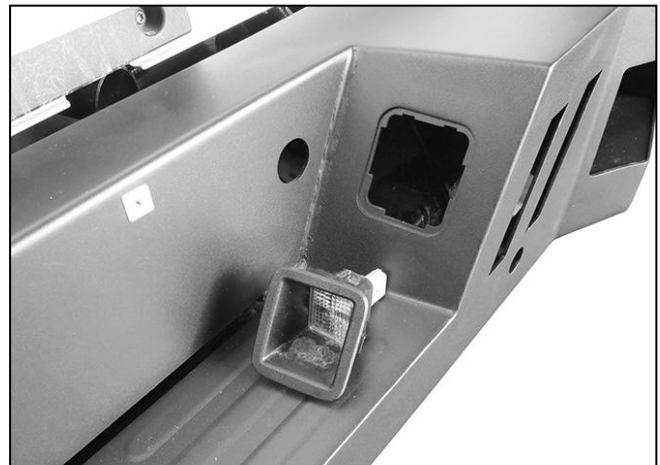


(Fig 5) Attach Bumper to outside of frame (passenger side pictured)

Reuse factory double bolt plate and hardware

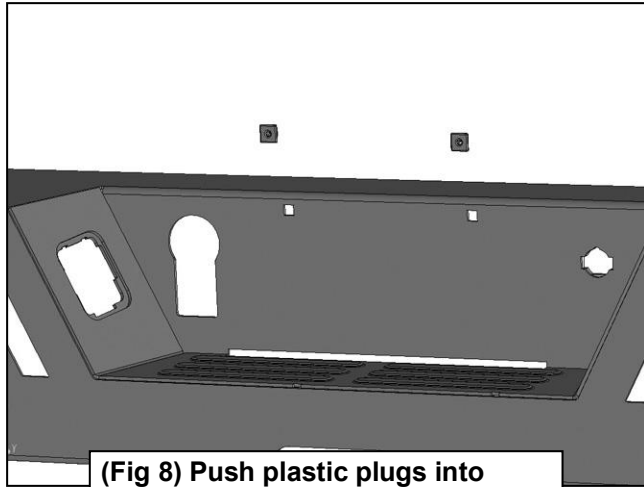


(Fig 6) Reuse factory hardware to attach mounting plate to side of bumper (passenger side pictured)

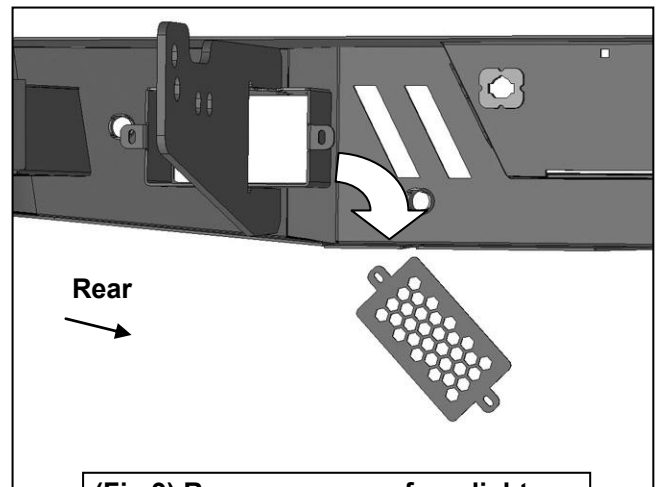


(Fig 7) Push license plate lights into openings

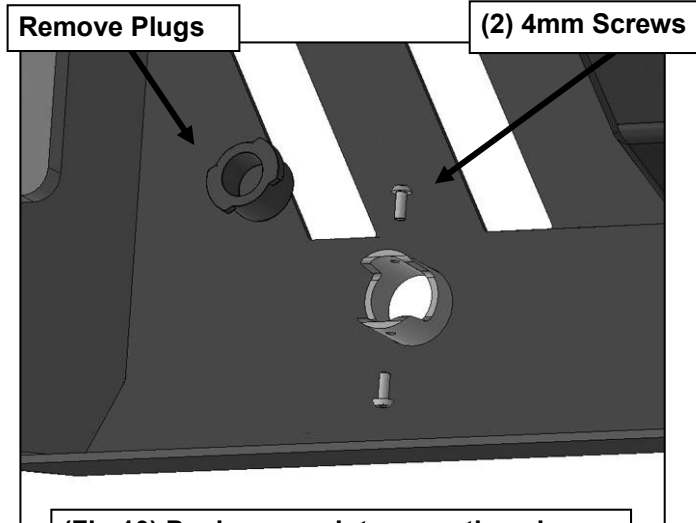
Passenger/right Side Installation Pictured



(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



Remove Plugs

(2) 4mm Screws

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



Complete Installation

WARRANTY POLICY & PROCEDURE

Contact your Body Armor 4x4 Distributor or Body Armor 4x4 directly regarding any issue prior to removing product from vehicle. If it appears said product is warrantable, you will be given a Return Authorization Number (RA #) and asked to return said product freight pre- paid. The RA # must appear on the outside of the carton/box of any returned product. Unauthorized returns will be refused. RA # must be given by Body Armor 4x4 in advance of return.

BODY ARMOR LIMITED LIFETIME WARRANTY

Body Armor 4x4 (BA) warrants to the original purchaser that these products will be free from defects in material and workmanship prior to shipping and/or installation for the life of the product. This non-transferable limited lifetime warranty does not cover damage or impairment in any part due to misuse, improper installation, accident or contact with on-road or off-road hazards, product modification, improper or inadequate cleaning and/or maintenance. All other warranties and representations express or implied are hereby disclaimed, including fitness for merchantability and buyer's intended use or purpose.

BA products are built and sold for highway and off-road use. The original purchaser assumes all risks as to the selection, suitability and performance of all goods and products purchased.

BA's sole and exclusive obligation under this warranty shall be to repair or replace the item(s) and their discretion and BA will not issue any credit or refund to the consumer. Proof of purchase is required on all warranty claims. BA may require pictures to diagnose the warranty claim and may require the product(s) be returned if determined by BA to be necessary. If a return is required then a RGA number will be issued by BA. Any item arriving to BA without a valid

RGA number will be refused and sent back. Upon evaluating the RGA and no valid warranty claim is made, the RGA will be returned to the consumer at their expense or disposed by BA after 60 days. BA will not be responsible for incidental charges such as removal, installation, shipping costs or lost during transit. Any items that are ordered in error, refused or cancelled are not considered a valid warranty claim and cannot be returned to BA.

WARRANTY PROCESS

Contact an authorized BA dealer to initiate warranty process. Authorized dealers must contact BA to assist in evaluating the warranty claims. Valid warranties will have a RGA issued. Once issued the dealer will request the product be returned to BA facilities. Products purchased through an authorized BA dealer will be refunded and/or credited by that BA dealer.

Warranty contact: orders@bodyarmor4x4.com

Return address: Body Armor 4x4, 1050 N. Vineyard Ave. Ontario CA, 91764, P: 951-808-0750

FINISH WARRANTY

The finish is warranted to be free of defects for a period of 3 years from date of purchase. Product(s) that have been abused, altered, incorrectly installed or used in competition are void of said warranty. Surface rust, pitting or discoloration is a direct result of improper maintenance is not covered by this warranty. It is the responsibility of the owner to preserve and maintain the finish of their product(s). In areas where high concentrations of road salts and other corrosive agents are used, rust or damage to the finish may occur if BA product(s) are not properly maintained. Lack of proper maintenance in these areas may void the finish warranty. See below for routine maintenance tips and recommendations.

**PRODUCT CARE AND MAINTENANCE**

Textured coat finished should be cleaned ONLY with a mild soap on a damp sponge.

BA recommends wiping down the product with a light coat of lubricate (i.e. WD40) periodically to maintain its luster.

DO NOT apply polish or wax that requires buffing for removal as this may damage the finish.

DO NOT coat the product with any type of shine such as Tire Shine or glossy aerosol or gel. This can cause discoloration, staining or bubbling.