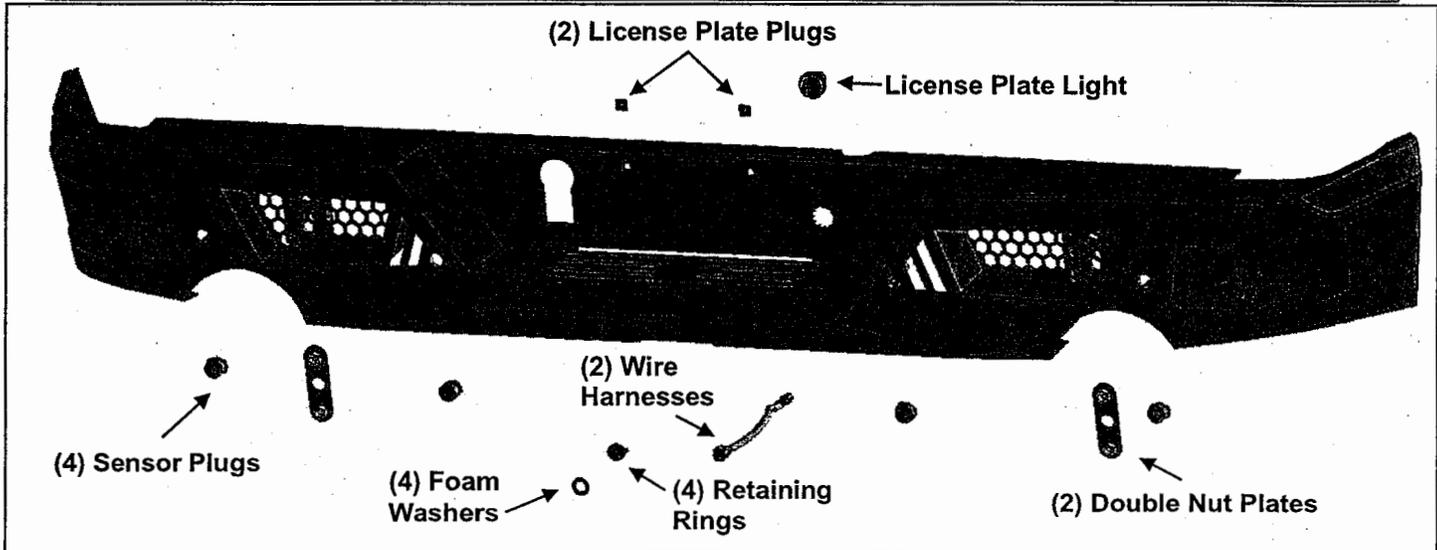


PARTS LIST:

2009-10 RAM 1500

1	LD1 Rear Bumper Assembly	1	6mm Wrench
1	Push in License Plate Light	8	4mm x 10mm Button Head Bolts
2	Plastic Plugs for license plate mount	1	4mm Wrench
4	Sensor Hole Plugs	10	Nylon Cable Ties 200mm
1	Step Hole Plug	4	Retaining Rings
2	12mm Double Nut Plates	4	15.5mm x 25mm x 2mm Foam Washers
4	12-1.75mm x 40mm Hex Bolts	2	Dodge Wiring Harnesses
4	12mm x 37mm x 3mm Flat Washers	1	Sensor Cover Kit
4	12mm 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. ON MODELS WITH DUAL EXHAUST, ALLOW EXHAUST TO COMPLETELY COOL BEFORE STARTING INSTALLATION.

1. Start installation by unplugging the license plate lights, towing harness plug and sensors if equipped, (Figures 1—3). Move the wiring harness away from the bumper. Remove the license plate.
2. Place blocks or jack stands under the bumper to support it during bumper bolt removal. Once the bumper has been safely supported, remove the (2) hex bolts behind the license plate, (Figure 4). Next, remove the (4) factory bumper bolts, (2 per side), and slide the rear bumper off of the end of the frame, (Figures 5 & 6). **WARNING!** Assistance is required to hold the bumper in place during hardware removal and to prevent the bumper from falling. Move the bumper to a clean stable work surface.
3. If installing lights at this time, check for clearance around light. Remove back screens from light housings for additional clearance around lights as required, (Figure 7). **IMPORTANT:** On models with Dual Exhaust, screens must be removed before installing the Bumper if lights are to be installed.
4. Remove the outer towing harness plug from the bumper, (Figure 8). Snap the plug into the opening in the LD1 Bumper, (Figure 9). If necessary, use a flat blade screwdriver to carefully pry the lock tab on the clip out to help lock plug in place.
5. Insert the included (2) push-in plugs to attach the license plate to the Bumper, (Figure 10). Insert the included License Plate Light into the mounting hole in the bumper, (Figure 10).
6. Sensors must be installed in Bumper, (if equipped), before installing Bumper Assembly.

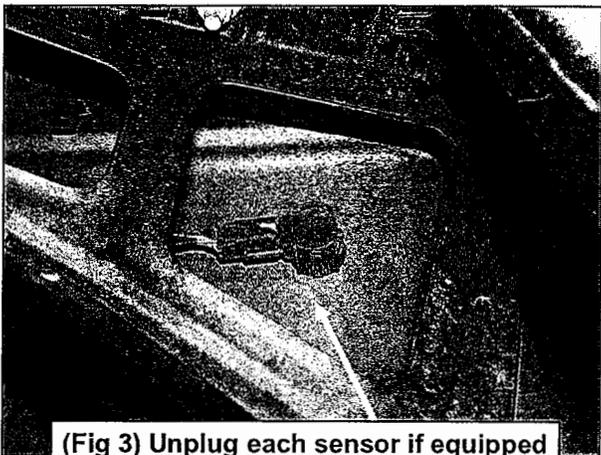
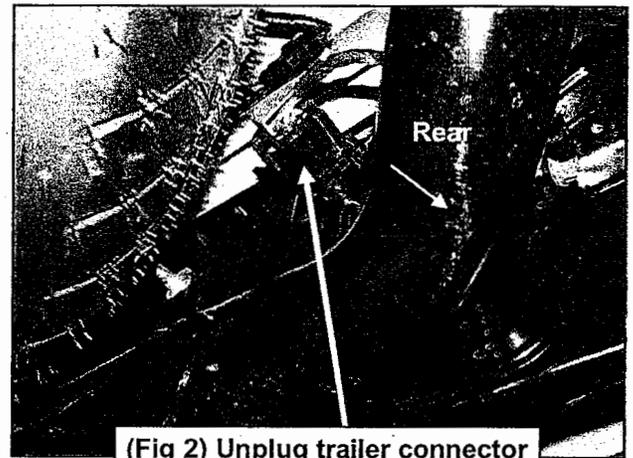
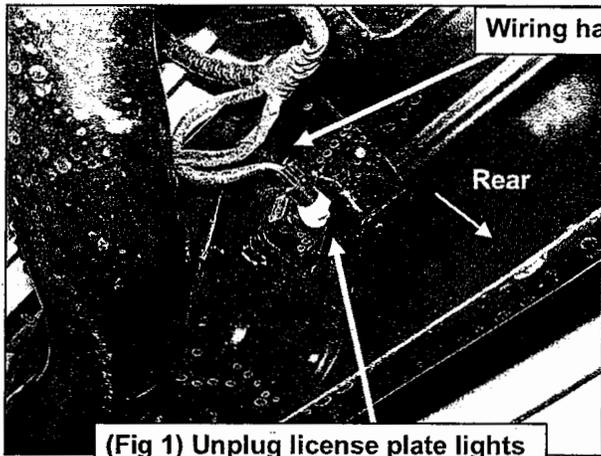
Models without bumper sensors:

- a. Select the included (4) Rubber Plugs.
- b. From behind bumper, push plugs into sensor mounting holes.

Models with bumper mounted sensors:

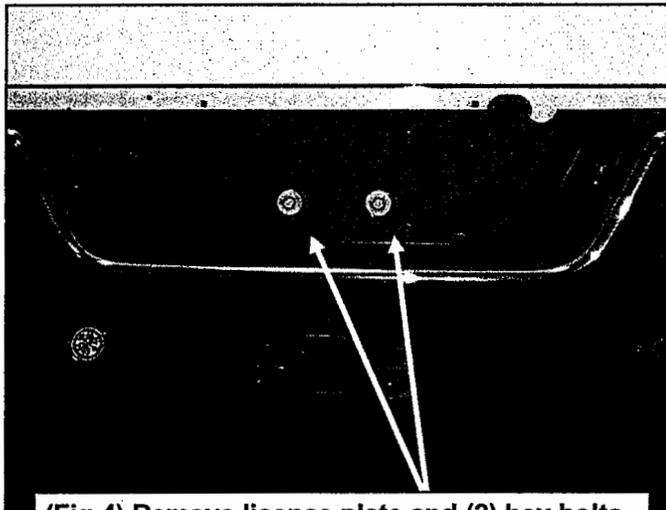
- a. Remove factory sealing washer from sensor, **(Figure 11)**. Attach Foam Washer onto the front of the sensor.
 - b. Push the sensor in from the back of the Bumper until it is flush with the sensor sleeve. **NOTE:** Sensor tabs may need to be trimmed to fit sensor inside the sensor sleeve. Push (1) Retaining Ring into the sensor sleeve to secure the sensor in place, **(Figure 12)**.
 - c. Repeat the previous steps for the remaining sensors.
 - d. Starting on the driver side, run the OE sensor wire harness through the bumper cutouts. Connect the first two driver side sensors to the OE sensor wire harness.
 - e. Use the provided wire harness extensions to connect the remaining two passenger side sensors to the OE sensor wire harness.
7. With assistance, position the LD1 Bumper up to the bumper brackets on the ends of the frame, **(Figure 6)**. 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.
 8. Line up the (2) mounting holes in the back of the driver side of the bumper with the brackets on the end of the frame. Slide (2) 12mm Double Nut Plates behind the mounting plates on the Bumper, **(Figure 13)**. Attach the Bumper to the frame and Nut Plates with (4) 12mm Hex Bolts, (4) 12mm Lock Washers and (4) 12mm Flat Washers, **(Figures 13 & 14)**. Leave hardware loose at this time.
 9. Slowly open the tail gate and check for clearance. Level and adjust Bumper and tighten all hardware.
 10. Connect the license plate light harness to the License Plate Light. Reattach the wiring harness to the back of the trailer plug and back up sensors (if equipped). Use the included Wire Ties to secure the wiring harness to the bumper and frame. Seal off any open wire connections.
 11. 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 LD1 Bumper assembly.



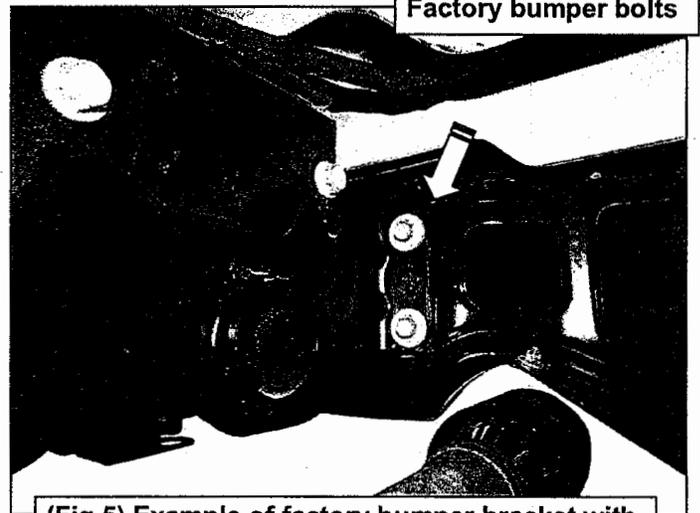
WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or the bumper may fall.

Models with dual exhaust, allow exhaust to completely cool before starting installation

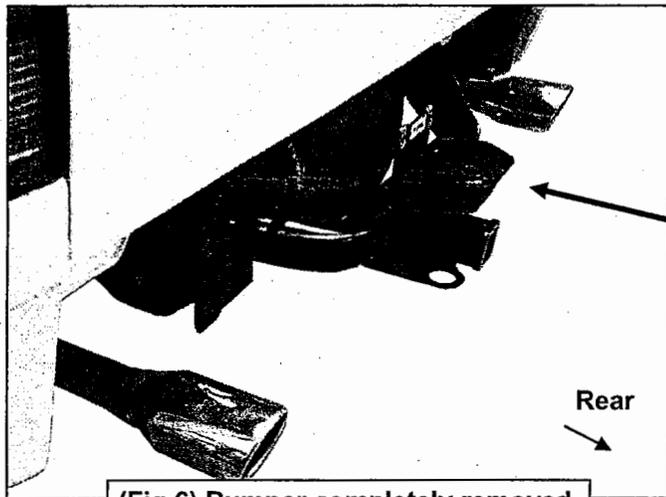


(Fig 4) Remove license plate and (2) hex bolts

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

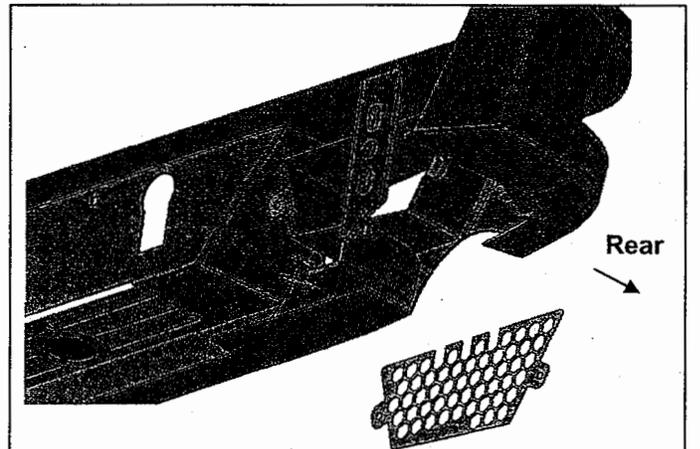


(Fig 5) Example of factory bumper bracket with (2) hex bolts pictured from behind bumper

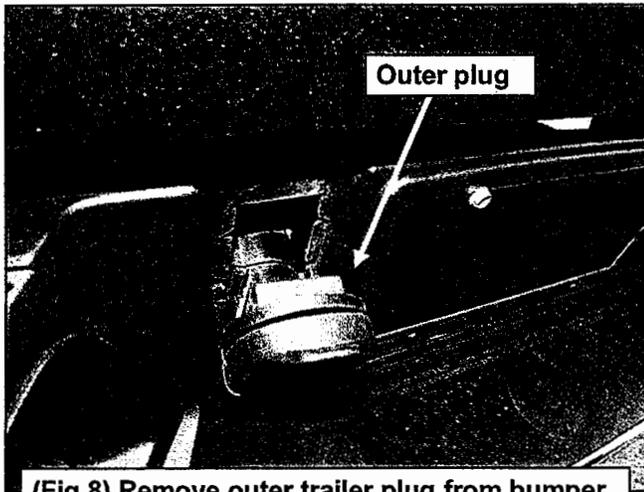


(Fig 6) Bumper completely removed

IMPORTANT: On models with dual exhaust, if bumper installation will include accessory lights, check for clearance around lights before installing bumper. Screens cannot be removed once bumper is installed.



(Fig 7) Remove screens if necessary for additional clearance around or access to lights



(Fig 8) Remove outer trailer plug from bumper



(Fig 9) Push plug into place. Carefully bend locking tab outward if necessary

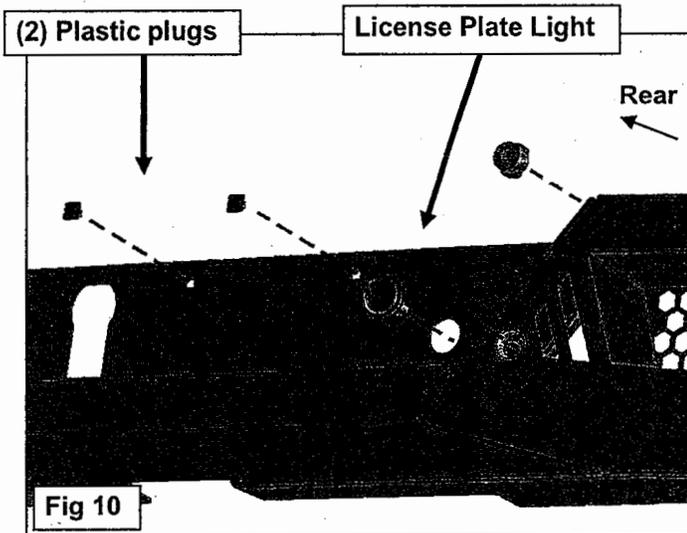
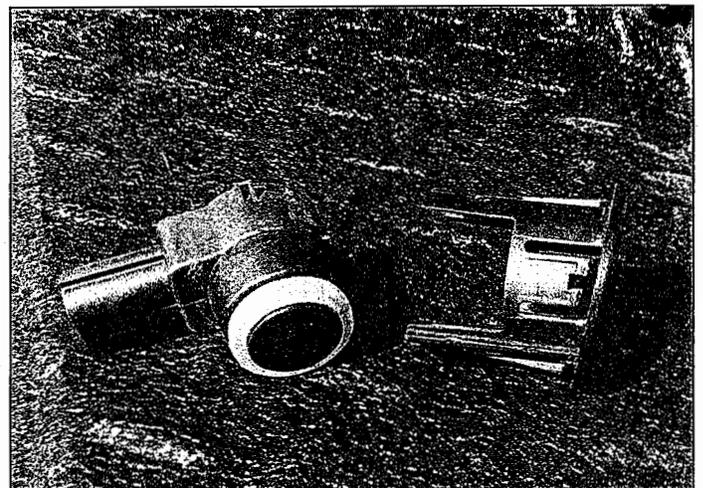
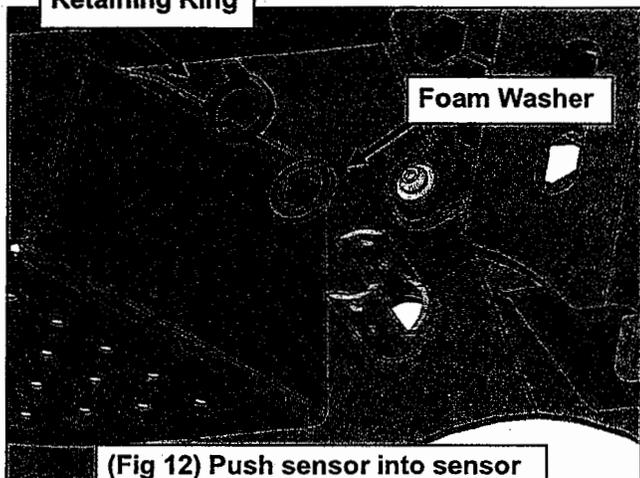


Fig 10



(Fig 11) Remove the sleeve (right) from each sensor

Retaining Ring

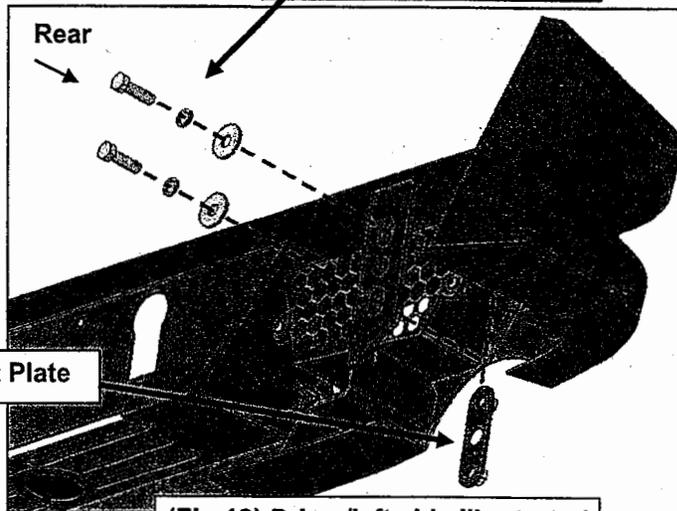


Foam Washer

(Fig 12) Push sensor into sensor sleeve on the back of the Bumper

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

- (2) 12mm Hex Bolts
- (2) 12mm Lock Washers
- (2) 12mm Flat Washers

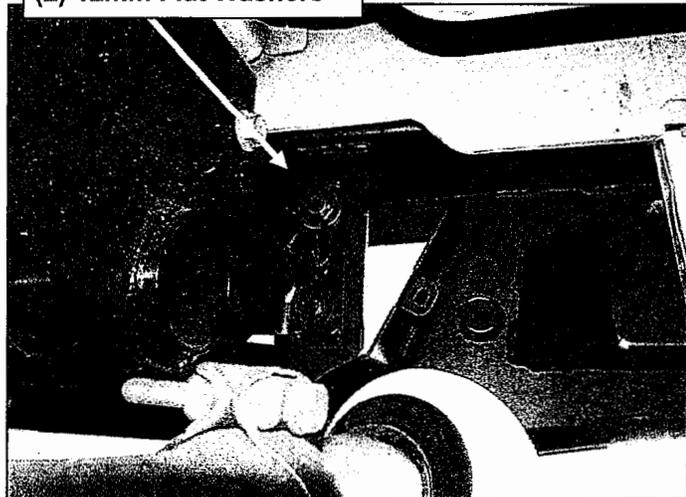


Rear

12mm Double Nut Plate

(Fig 13) Driver/left side illustrated

- (2) 12mm Hex Bolts
- (2) 12mm Lock Washers
- (2) 12mm Flat Washers



(Fig 14) Driver/left side pictured from behind bumper



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.