

BODY ARMOR

BY TOLAR MFG. CO., INC.

BUMPER INSTALLATION INSTRUCTIONS - FRONT BUMPER - REAR BUMPER WITH SWING-A-WAY

2007 JEEP WRANGLER JK - all models including X, SE, SPORT, RUBICON, RUBICON UNLIMITED



DO NOT INSTALL THIS PRODUCT ON ANY VEHICLE OTHER THAN JEEP JK* MODELS.

Body Armor designed this product to give you years of dependability and performance. If you encounter any problems during installation of this product, or at any later date, please contact your authorized Body Armor dealer, or call 951-808-0750 for our customer service department, or check our website for tech bulletins regarding your year and model vehicle. Our hours are Monday thru Thursday 7AM-4:30PM and Friday 8AM-12PM, Pacific Time.

Important: Before beginning installation, assure that all parts and hardware listed for your specific bumper are contained in this package. Please contact us immediately should there be any shortages in parts and/or hardware.

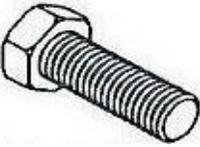
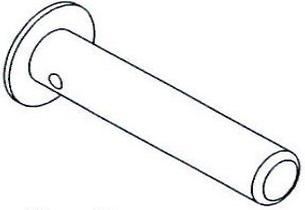


1 pair "D"-rings included with every front and rear bumper, and every rear bumper with Swing-A-Way (also available separately) Part # 3202 = (1) pair

Front Bumper - JK*

					
Hex Nut 1/2" PN=NBA12 QTY 6	Flat Washer 1/2" PN=FWBA12 QTY 6	Lock Washer 1/2" PN=LWBA12 QTY 6	Hex Nut 3/8" PN=NBA38 QTY 2	Flat Washer 3/8" PN=FWBA38 QTY 2	Lock Washer 3/8" PN=LWBA38 QTY 2

Rear Bumper with Swing-A-Way - JK*

					
Hex Head Bolt 1/2-13x2" PN=BOLTBA12-132 QTY 6	Flat Washer 1/2" (2" OD) PN=FWBA122 QTY 4	Flat Washer 1/2" PN=FWBA12 QTY 8	Lock Washer 1/2" PN=LWBA12 QTY 8	Swing-A-Way Support Bracket w / 1 pair Rubber Bump-Stops and (2) 1/4-20 x 1" Phillips-Head Screws	Hinge Pin PN=00171 QTY 1
					
Hex Nut 1/2" (non-lock) PN=HNBA12 QTY 2	Hex Lock Nut 1/2" PN=HLNBA12 QTY 3	Hex Head Bolt 1/2-13x1" PN=BOLTBA12-131 QTY 1	Hex Head Bolt 1/2-13x4" PN=BOLTBA12-134 QTY 1	Moon Washer 1/2" PN=MWBA12 QTY 2	

Accessories also available separately to accent and / or outfit your Body Armor Bumpers - inquire with your Body Armor Dealer.

 <p>Cooler Rack for B/A Swing-A-Way Part # 5122 Sold Separately For up to a 32qt. Cooler</p>	 <p>Towbar Adaptor Brackets Part # 3200 - vertical pin Sold Separately (per pair)</p>	 <p>Towbar Adaptor Brackets Part # 3210 - horizontal pin Sold Separately (per pair)</p>	 <p>NATO Can Adaptors Part # 3201 Sold Separately (per pair)</p>
	 <p>Body Armor Hitch Cap Part # 3207 Sold Separately</p>		 <p>License Plate Bracket Part # 5121 Sold Separately</p>

* = Includes Unlimited

Front Bumper Installation - Jeep JK*

Step 1

Unpack bumper using staple puller to remove staples. Save all packing materials and take care not to tear cartons. Remove all hardware and parts. Check parts / hardware list and confirm all parts and necessary hardware are included before installation. It's a good idea to spray all OE attaching hardware with penetrating oil before beginning removal of OE bumper(s). This will ease removal as well as help assure that none of the bolts' / nuts' threads are damaged during removal.

Step 2

- Remove the (2) push-pin screws to remove the plastic frame cover-plate. This can be re-installed if you did not purchase a winch mount plate, though it will either be under the winch plate mounting flanges, or elevated above the frame-rails. Also, the mounting holes in the cover-plate will need to be slotted to bolt to the top of bumper flanges. See Photo 1 on last page for reference.
- Disconnect the OE driving lights at the back of the light housings. Insulate ends and tie the wires to the frame. Do not cut ends.
- Using appropriate tools, remove the OE front bumper by removing the hex nuts holding the bumper to frame mount flanges. See diagram below for reference. Installation kit contains all new necessary attaching hardware for your Body Armor JK Bumper.
- If you did not purchase a winch plate and winch, re-install the plastic frame cover-plate to frame rails if plate mounting flanges showing is desired. Our bumper was designed for use with a winch mount plate and winch, no cover-plate option is available.

Step 3

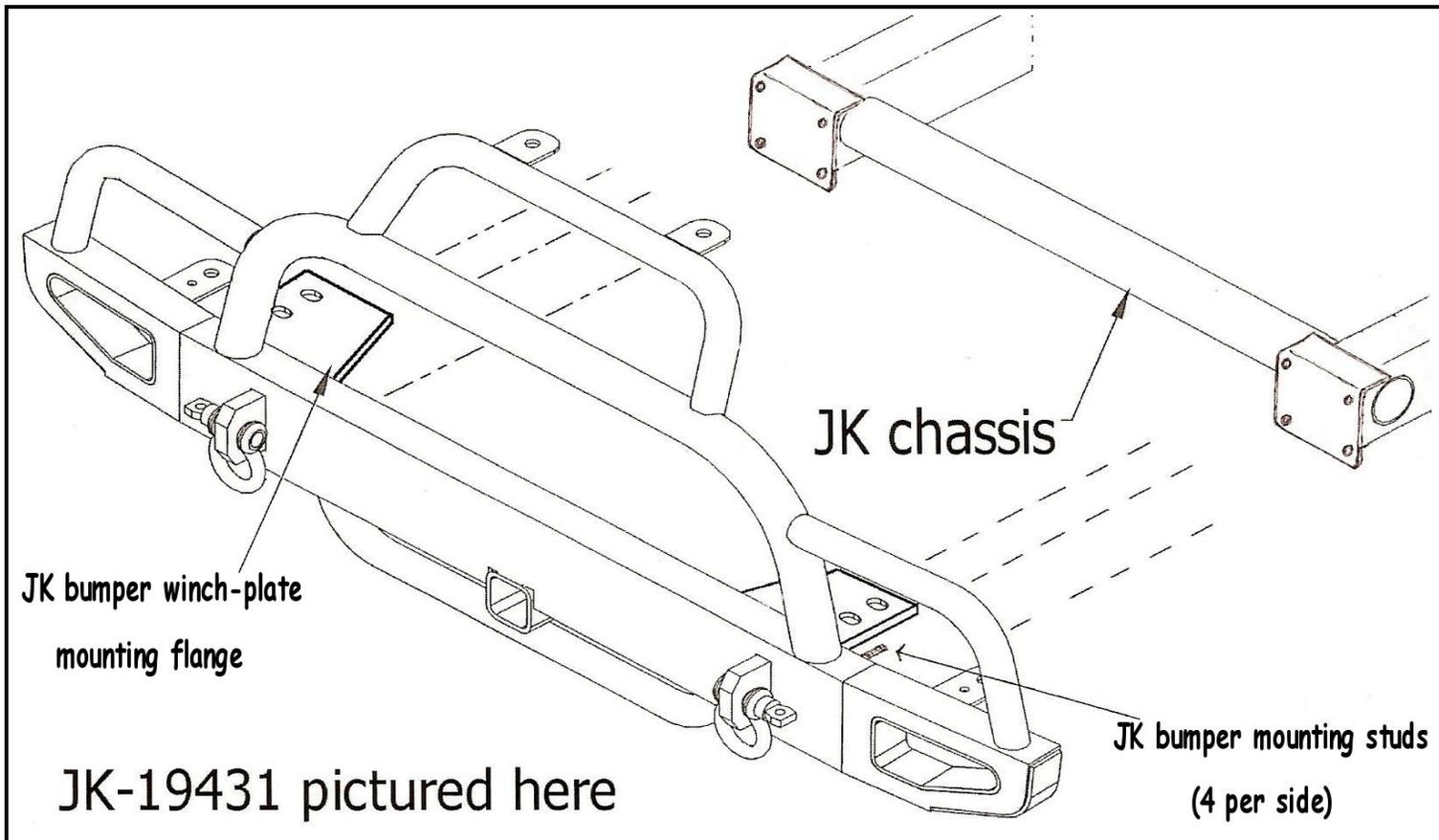
Slide your new Body Armor JK bumper's mounting studs into the locating holes in the frame mounting flanges and hand tighten one hex nut onto a stud on each side. Assured that bumper is straight, install remaining hex nuts and torque down evenly starting with the top studs. These studs are threaded into and tack-welded to bumper mounting / backing plates. Do not weld or over-torque the studs. Your new Body Armor bumper is designed as a no-weld, bolt-on application and should be installed as such.

Step 4

- Install either our winch mount plate (see photos on last page for reference) per instructions, or the OE plastic frame cover-plate if bolting to the top and covering the winch plate mounting flanges is desired. No cover-plate option is available.
- If you purchased lights for your JK Bumper, install per mfrs' directions at this time. If using the OE driving light wiring harness, refer to Jeep specs or inquire with Jeep as to the capacity of OE wiring and routing.

We recommend you check the torque of all bolts after about two weeks, and after every off-road / trail run to assure tightness.

Below diagram reflects part # JK-19431, "Quad Hoop Bumper" - Part # JK-19331, "Triple Hoop Bumper" mounts the same as described.



Rear Bumper Installation - Jeep JK* - Install bumper before attaching Swing-A-Way arm.

Step 1

Unpack bumper using staple puller to remove staples. Save all packing materials and take care not to tear cartons. Remove all hardware and misc. parts. Check parts / hardware list and confirm all parts / necessary hardware are included before installation. It's a good idea to spray all OE attaching hardware with penetrating oil before beginning removal of OE bumper(s). This will ease removal as well as help assure that none of the bolts/nuts' threads are damaged during removal.

Step 2

Using appropriate tools, remove the OE rear bumper by unbolting the (2) mounting brackets from the frame on both sides (see Photos 1 and 4 on last page for reference) and the internal mounts from front of crossmember (see Photo 1 on last page). If equipped, remove the center recovery-hook from the frame.

Note: Install the bumper on your JK before attaching the Swing-A-Way arm to the bumper.

Step 3

- With a helper if possible, slide your new bumper's mounting channels into the frame-rails until side holes are lined up with the two large holes in the side of the frame-rails. Install the forward bolts with (1) large washer, (1) standard flat washer and (1) lock-washer on each bolt.
- Place the diamond-plate frame filler plate in position so the mounting tabs pick-up the rear bumper mounting bolts and install bolts with (1) large washer, (1) standard flat washer and (1) lock washer on each bolt (see Photos 4 and 6 on last page).

Step 4

Confirm that bumper is even side-to-side, as well as front-to-back (take measurements from outside of frame-rail to ends of bumper, and from an equal point on frame or body to the back of bumper on each side). Assured bumper is straight, now torque bolts evenly.

Step 5

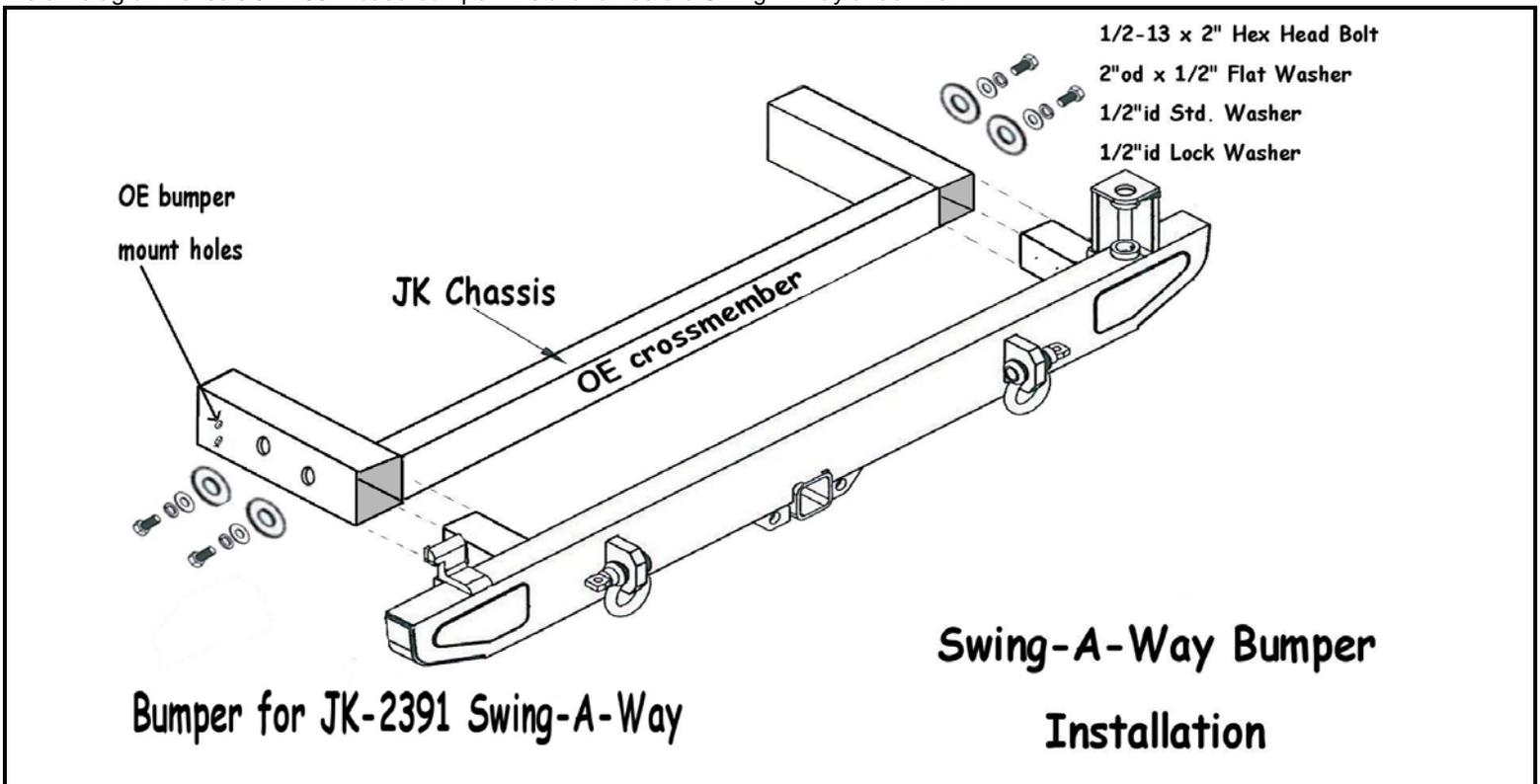
OE bumper mounting bracket bolts can be placed back in frame and tightened to keep threads free of debris and moisture. See Photos 4 and 6 on last page for reference.

Step 6

Move on to next page for Swing-A-Way arm installation.

We recommend you check the torque of all bolts after about two weeks, and after every off-road / trail run to assure tightness.

Below diagram reflects JK-2391 "base-bumper" installation before Swing-A-Way attachment.



Rear Bumper with Swing-A-Way Installation - Jeep JK*

Step 1

Remove the OE spare-tire mount / 3rd brake light assembly from tailgate. A 3rd brake light kit is available should you require one on your JK - Part # JK-5120, sold separately from your Body Armor Dealer, replaces the OE 3rd brake light. Confirm steps 2 through 5 of base bumper install are finished before beginning installation of Swing-A-Way arm.

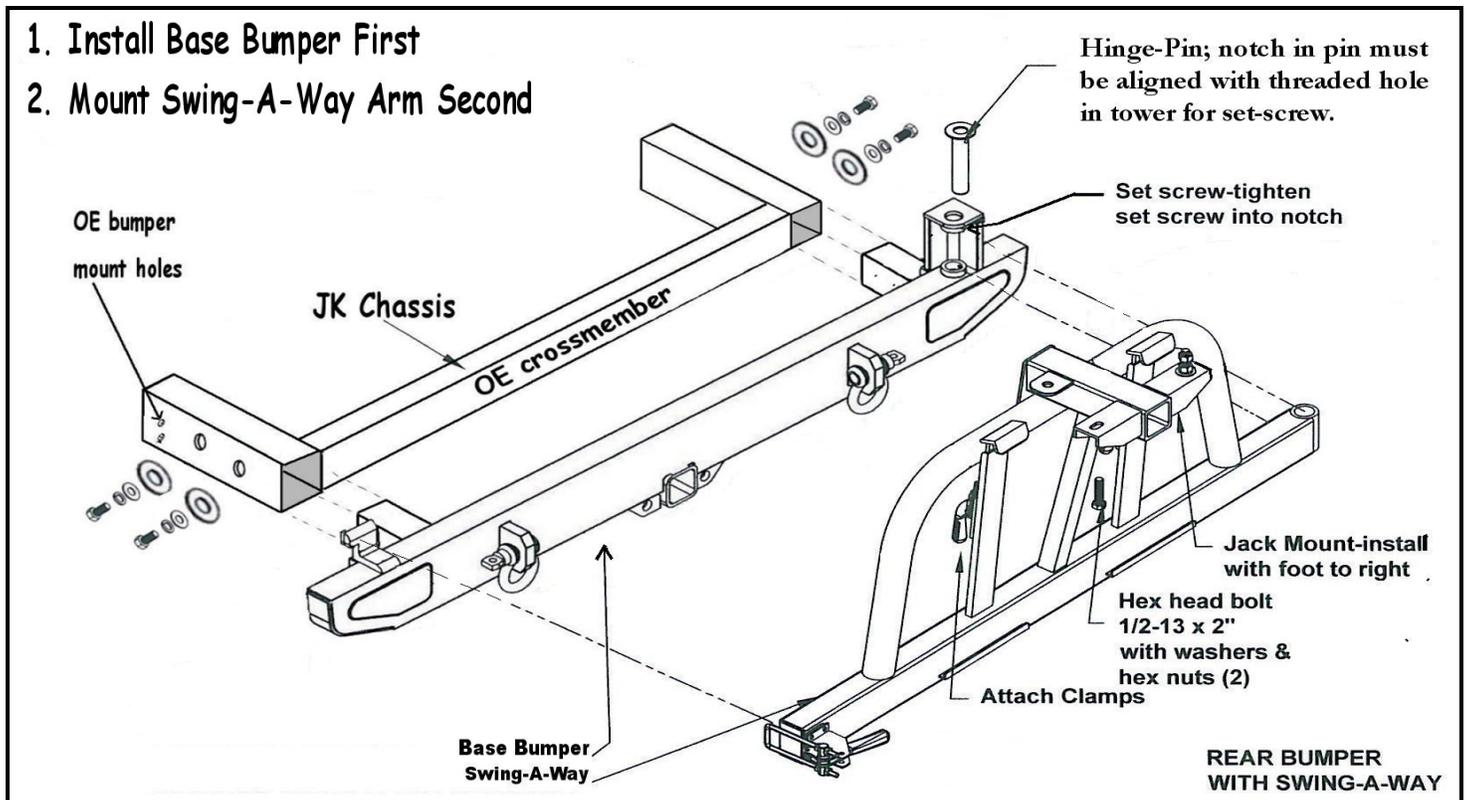
Step 2

Next attach the Swing-A-Way. Place the Swing-A-Way arm into position and drop in the hinge-pin. Rotate the pin so the notch aligns to the set-screw, and tighten the set-screw into the collar of the hinge-tower. The notch and set-screw must be aligned properly to prohibit hinge-pin movement.

Step 3

- Using (2) of the OE spare-mount bolts, install the Tire Carrier Support Bracket on the tailgate (see Photo 5 on last page).
- Next adjust Swing-A-Way latch as needed for minimal amount of torque needed for latching. Do not over adjust as too much tension will not allow latch to close properly without damaging "u-bolt" and / or latch-plate attaching bolts in bumper face.
- Install the tire mount into upper receiver tube on Swing-A-Way with 1/2" x 4" bolt (2 moon washers and ny-lok nut) to depth desired for wheel/tire.
- Install bolts for Hi-Lift Jack (1/2" x 2" with flat washers, 2 non-lock hex nuts, and 2 ny-lok nuts), with foot of jack to passenger side. Lock-nuts go on top to hold down Hi-Lift. See Photo 8 on last page for reference.
- Double check tightness of all bumper / carrier bolts. Install remaining OE spare-mount bolts into tailgate (see Photo 5).
- Install set-bolt (1/2" x 1") in bottom of tire / wheel receiver tube to prevent rattling / movement of spare tire mount assembly.

We recommend you check the torque of all bolts after about two weeks, and after every off-road / trail run thereafter to assure tightness.



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* = Includes Unlimited

Check out our website for the latest in Body Armor gear, tech bulletins, and our new vehicle photo gallery.

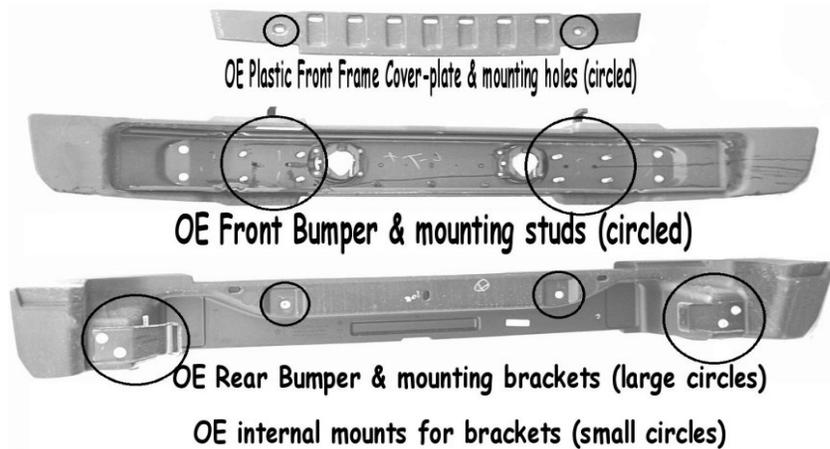


Photo 1 - OE bumpers and front frame cover-plate.

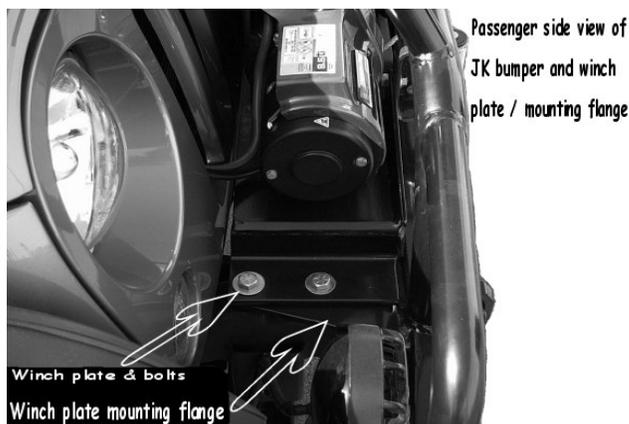


Photo 2 - passenger top-view winch plate mounting.

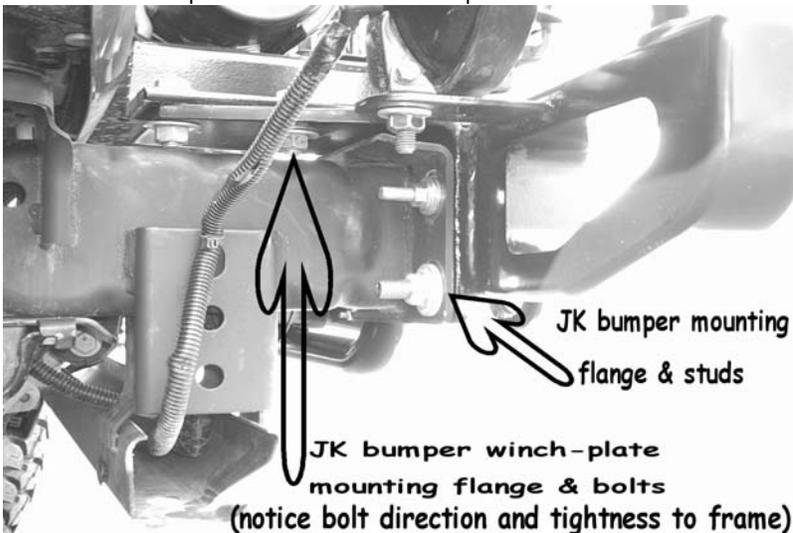


Photo 3 - Front bumper mounting flange & studs - Winch plate mounting.

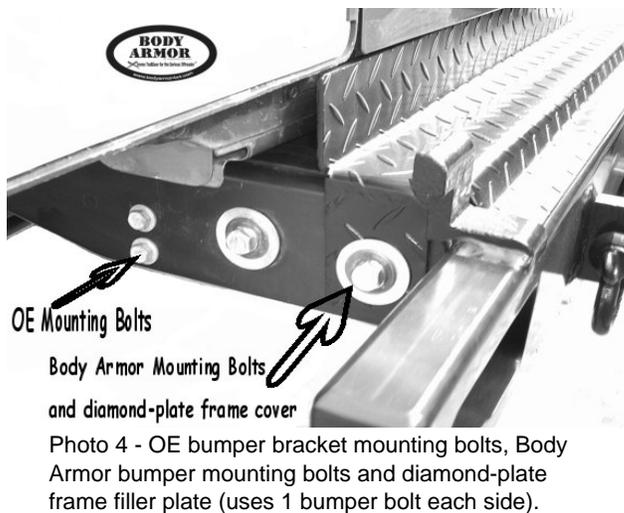


Photo 5 - view of finished tailgate.



Photo 6 - Passenger side of finished bumper.

Photo 7 - Latch and latch-plate - Adjust latching "U-bolt" so it takes no more than 25lbs to latch handle and remain closed. More than this amount of torque to latch could result in damage to the "U-bolt" and / or latch-plate and bolts over time.

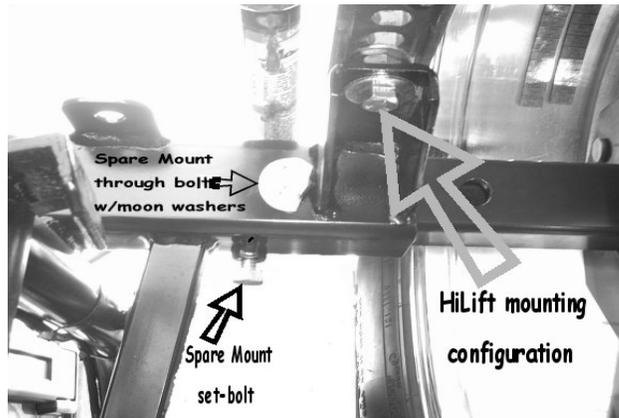


Photo 8 - Spare mount - Spare mount set-bolt - Hi-lift jack mounting configuration.