

BODY ARMOR

BY TOLAR MFG. CO., INC.

BUMPER INSTALLATION INSTRUCTIONS

CJ-2993 REAR BUMPER WITH TIRE CAN CARRIER SWING-ARM POST

ALL CJ MODELS 1978-1986



**Xtreme trailgear
for the serious
offroader!**

Hardware Kits - CJ5, CJ7 and CJ8

DO NOT INSTALL THIS PRODUCT ON ANY VEHICLE OTHER THAN 1978-1986 JEEP CJ 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.

Special Note for CJ8 (Scrambler) owners.

The rear crossmember of some CJ8 (Scrambler) models have (1) of (2) bolt-pattern variations, (1) of which does not allow direct bolt-on of bumper. See photo page for notes concerning the possible modifications needed to crossmember before beginning installation of rear bumper.



Hex head Bolt 7/16-14x1" QTY 8



7/16" Flat Washer QTY 8



3/8" hex Nut QTY 6



Hex head Bolt 3/8"-13x2" QTY 2



1/2" Flat Washer QTY 4



1/2" Hex Nut QTY 2



Hex head Bolt 1/2-13x2" QTY 2



3/8" Flat Washer QTY 12



1/2" Hex Lock Nut QTY 3



Hex head Bolt 1/2-13x4" QTY 1



7/16" Lock Washer QTY 8



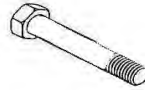
Half Moon Washer QTY 1



Hex head Bolt 1/2-13x1" QTY 1



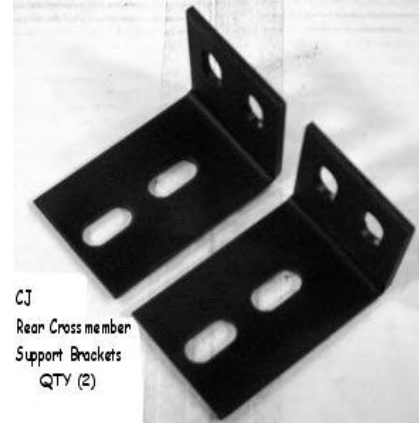
3/8" Lock Washer QTY 6



Hex Head Bolt
3/8-13x3.5" QTY 4



1/2" Lock Washer QTY 3



CJ
Rear Cross member
Support Brackets
QTY (2)

Rear Cross Member Support Brackets



Installation Troubleshooting - Jeep CJ

Due to the inconsistencies in CJ frame, crossmember, and shackle / hanger placement, there are times when more than direct bolt-on is needed to obtain optimum final mounting position. Also, certain aftermarket shackle / hanger kits' (IE; shackle reversal) placement on the frame interfere with most aftermarket bumpers' mounting brackets, making modification necessary. Gas-tank skidplate placement, boltpattern variations and rear crossmember strength are also, at times, issues in installing rear bumpers. We recommend you have a helper to aid in ease of installation, and for safety. Body Armor bumpers are not light-weight tubular bumpers and can be dropped if position on frame-rails is not optimum for a single person to hold in place and bolt on. For the sake of safety, as well as to prevent damage to your bumper(s), have a friend help you in the removal of your OE bumper(s) and the installation of your new bumper(s).

Front Bumper

Body Armor bumpers were engineered, designed and fitted on a stock CJ chassis without suspension and / or frame-rail modification. Should you have difficulty installing your front bumper, here's a tip to make it easier.

All CJ

When fitting your bumper to the frame, if the mounting brackets interfere with your shackles and / or hangers, don't guess as to the area(s) that may need to be trimmed or notched. While a helper holds the bumper as close to its final mounting position as possible, mark the point(s) where the shackles and / or hangers contact the bracket(s) with chalk or a paint-pen, and notch or trim the bracket(s) with a jigsaw, hacksaw or die-grinder. If trimming or notching your bumper brackets is not desired, it may be necessary to drill-out the rivets attaching the hangers to the frame and trimming, notching, or relocating the hangers.

All CJ

If you purchased a Body Armor winch plate with your front bumper, it will be necessary to drill through the frame-rails to bolt the plate down at its rear corners. You can also drill and tap the frame-rails if desired for a cleaner installation, as well as easier. A bracket kit will be supplemented in the future that will prevent the need for drilling, contact us for availability.

Rear Bumper

As with our front bumpers, Body Armor rear bumpers were engineered, designed and fitted on a stock CJ chassis without suspension and / or frame-rail modification. We have come to find that the rear crossmembers on some models have a variant bolt pattern, making modification and / or drilling necessary. Should you have difficulty installing your rear bumper, here are a few tips to make it easier.

CJ8

We have come to find that the CJ8 (Scrambler) models have (1) of (2) crossmember bolt-patterns for the rear bumper. The standard crossmember in the CJ8 has the same pattern found in the CJ5 and CJ7, while the variant crossmember has the pattern punched about 5/16" lower in the crossmember face. This will necessitate modification to the holes in order to bolt-up our bumper. The easiest way to make this modification is to bolt the bumper in place with the outer tabs on top of the frame-rails, and mark the holes from inside the crossmember where they need to be ground-out. Do not guess and remove too much material as this may compromise the strength of your crossmember. Several fit-checks may be necessary before you are ready to move on to modifying the frame support-brackets and installing the bumper. Once you have completed the crossmember modification, remove the bumper and hold the support-brackets inside the crossmember to the inside of the frame-rails. With the brackets lined up with the holes in the frame-rail, mark the brackets through the modified holes in the crossmember so you'll know where they need to be drilled. It's a good idea to mark the brackets "left" and "right" to make sure they go on the same side they were marked for. Remember that the support-brackets go on the inside of the frame-rails on the CJ8 models that require crossmember modification. Once these modifications are done, your bumper should be ready for installation.

All CJ

If the bumper's recovery receiver tube contacts the gas-tank skidplate, or you have an aftermarket skidplate, it may be necessary to do (1) of (2) things. If there is enough adjustment on the mounting-bolts, you can loosen the bolts and slide the skidplate forward. If this does not give you adequate clearance, it will be necessary to trim the tube on the recovery receiver. More often than not, adjusting the skidplate is enough, though there are exceptions. Aftermarket skidplates almost always necessitate trimming the recovery receiver tube. A properly equipped and set up chop-saw is the easiest way (and safest) to trim the tube, though you can use a hack-saw, sawzall, or a die-grinder with cut-off wheel if need be.

All CJ

If the swing-arm latching "u-bolt" contacts the body of your CJ and will not saddle-up behind the latch-tower, it may be necessary to shim the bumper out from the crossmember if you do not want to adjust the body forward on the frame. The body placement on the frame-rails has also been found to be inconsistent on CJ's; loosening and moving the body forward is the correct solution in most cases, though aftermarket body mounts can sometimes prevent any kind of adjustment. Contact us for shims if needed.

Refer to the photos on the last page of our instruction sheets for the front and rear bumpers for support-bracket placement, etc.

If after going through any of the above steps you are still having trouble installing either the front or rear bumper on your CJ, please contact us immediately with the specifics of your CJ (IE; year, CJ model, bumper model, etc.) and we will be happy to assist further.

Rear Bumper with Swing-Arm Post Installation - PN CJ-2993

Step 1

- Save all packing materials and take care not to tear cartons.
- Remove hardware and misc. parts. Check parts / hardware list & confirm all parts and necessary hardware are included.
- 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.

Note: CJ8 owners (Scrambler), see special notes below and photo page for alternative bolt-pattern modification in rear crossmember.

Step 2

Using appropriate tools, remove the OE rear bumper and lower body mount bushings & sleeves, as well as lights, tow-hooks, etc. Our installation kit contains all new grade 5 bolts with necessary attaching hardware. These will be used in place of OE bolts.

Step 3

- Using a floor jack or a helper, hold the bumper in place while inserting the 3/8" x 1.5" bolts with washers through the outer tabs into the existing holes in the top of the frame-rails. Hand tighten only at this time.
- Now thread the (8) 7/16" x 1" bolts with lock-washers and flat-washers through the support-brackets and frame-rail into the threaded backing plates (blocks) in bumper. Hand tighten only at this time.

Note: Support brackets to be placed outside of frame-rails against inside of crossmember on CJ5, CJ7 and standard bolt-pattern CJ8.

Note: If your CJ8 has a measurement of 1" from crossmember top to center of mounting hole, modification will be necessary to the crossmember as well as support-brackets to bolt on bumper. No alternate bumpers or brackets are available. Go on to Step C.

- CJ8** c. With the bumper in place and the 3/8" bolts holding outer tabs to frame-rails, mark the location of threaded holes in bumper mounting blocks from inside of crossmember to gauge where to grind out holes and estimate how far (will vary frame to frame).
- CJ8** d. Remove bumper and grind out mounting holes in crossmember. Do not grind out too much, fit-check bumper after initial markings are reached and each time you grind out to prevent excessive material removal. Place support-brackets inside crossmember to the inside of frame-rails to mark location of holes to be drilled. Drill brackets and re-install bumper. Hand tighten only at this time.

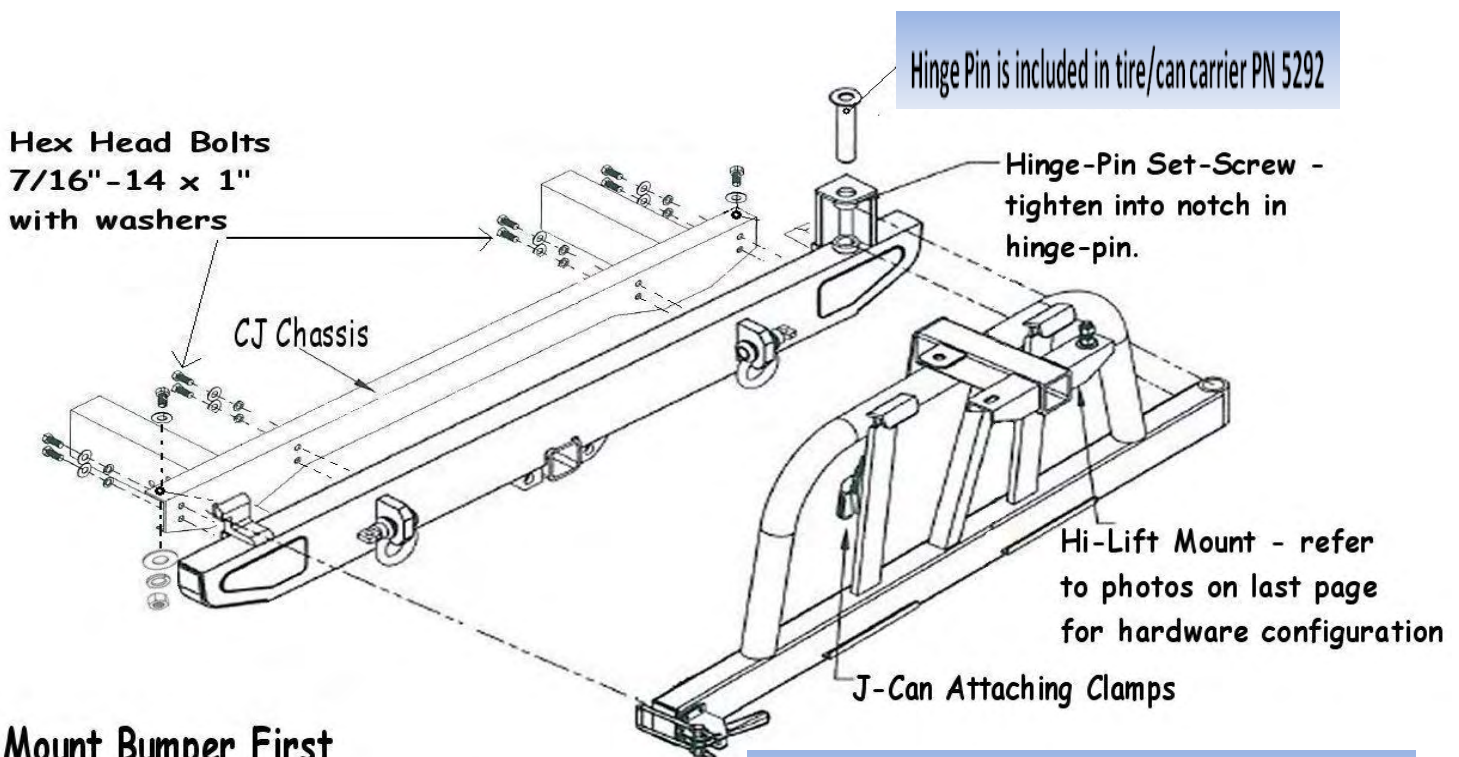
Note: Support brackets to be placed inside of frame-rails after modification for alternate bolt-patterned CJ8.

See photos on last page for reference.

Step 4

Assured bumper is straight, torque bolts evenly starting with the top bolts through the crossmember into threaded blocks in the back-side bumper, finishing with the 3/8" bolts through the outer tabs into the top of the frame-rails.

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



Mount Bumper First

Mount Swing-A-Way Second

Bumper shown with optional tire/can carrier Part Number 5292

