



NEXT VENTURE MOTORSPORTS ALUMINUM REAR BUMPER INSTALLATION GUIDE

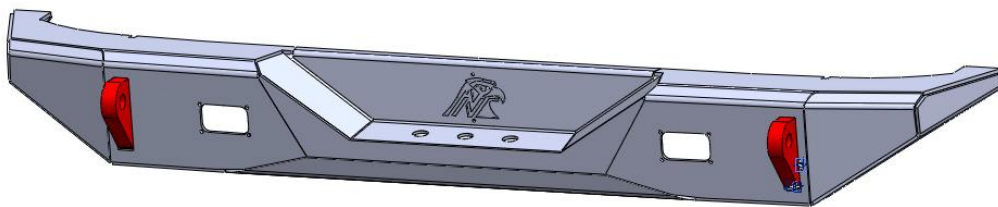
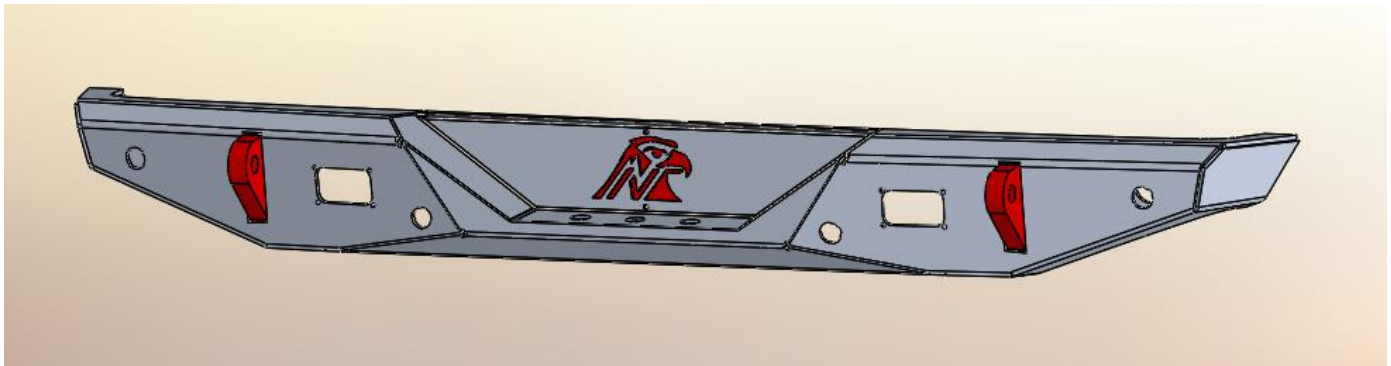
2018-2021 JL and 2007-2018 JK Rear Aluminum Featherweight Bumper Install Guide for NV-JL/JK-00004

Dear fellow Jeep,

Let me start by saying thank you for choosing Next Venture Motorsports products for your Jeep. Our goal is complete satisfaction, and confidence to go hit the trail for our friends and customers. If you have any questions or feedback, please do not hesitate to reach out to us via email or give us a call.

This is an installation guide for the JL and JK Rear Aluminum Featherweight Bumper; it is not a 100% illustrated/photographed step by step guide. This guide should be enough for any competent shop to get the job done; and if anything should come up as a question, please give us a call.

We know every rig is different once it has started collecting upgrades, trail character, and modifications. I cannot at the time of this writing, confirm that this kit will fit with every other aftermarket skid plate, aftermarket exhaust system, or other modifications. This system *should* fit on every 2018 and up JL and JLU, and every 2007-2018 JK and JKU regardless of the trim.



These instructions cover the JL (top) and JK (bottom) Rear Featherweight Bumper installation.



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Pre-Installation Notes

Much of this installation can be completed without a helper; a 2nd person can be helpful or necessary to gently guide the bumper assembly on the frame of your Jeep. Installation time is estimated at approximately 1 hour.

Tool and equipment recommendations:

Basic Hand Tools (socket set, wrenches, screwdrivers, etc.)

Eye Protection

Other items that are necessary for installations that are not included:

- Factory JL/JK rear hitch/receiver if our JL/JK is not equipped with one. This is optional or can be added later.
- License Plate Relocation Bracket, if desired, to move the license plate out of harm's way
- D-Ring shackles if you wish to populate the recovery points on the rear bumper

Installation

For an installation location, a flat driveway or garage will do. If your Jeep is covered in mud, dirt, clay, or any other naturally occurring form of earth, we recommend going to your local self service car wash and power washing the rear of your Jeep where you're working.

After it's dry, park it on a level surface with the e-brake set, and remove the negative battery cable from it's post.

If you leave the battery connected during install, and the keys in your pocket while under the Jeep, it's entirely possible to set off your alarm with your key FOB accidentally. This is funny for bystanders – however not fun to try to turn off while trying to lift your bumper into place

Removing Your Factory JL Rear Bumper

Removal of the factory JL rear bumper is outlined below. If you have a JK Wrangler, proceed to the following section for removal of the factory JK bumper.

Removing the factory rear bumper is very straight forward. First remove or disconnect all electrical connections to the rear bumper (license plate lamp and back up sensors if applicable.)

Next we'll remove the factory bolts that hold the rear bumper into place. For the next step, it can be handy to have a 2nd set of hands ready to remove the bumper when it's ready to come off. It may also be helpful to loosen all the hardware before removing it completely; removing all hardware from the driver side before loosening passenger side hardware, for example, may cause the bumper to sag and make removing hardware more difficult on the opposite side.

The factory bumper is typically held in place with 10 bolts; 2 on the bottom of the driver-side frame rail, 4 on the side of the driver-side frame rail, and the remaining 4 on the side of the passenger-side frame rail. It's typical to find no bolts on the bottom of the passenger-side frame rail from the factory. Take care to save the hardware as some of it will be reused later.



Figure 1: Driver Side Frame Rail Showing Bumper Mounting Points

It may be helpful to remove the hitch for bumper install, though it should not be necessary.

Removing your Factory JK Rear Bumper

Removal of the factory JK bumper is fairly straightforward. To begin, disconnect any electrical connectors that go to the rear bumper (if applicable).

Next, unbolt the 2 bolts on the outside of each frame rail (4 bolts total) that hold the factory bumper on. These will be in very similar locations to the top right 2 bolts in Figure 1 above. Then, remove the 4 bolts that attach the rear bumper to the factory rear crossmember via brackets. There will be 2 bolts per side with 1 bolt threading into the factory crossmember and 1 bolt threading into the factory bumper. Once these 4 bolts and 2 brackets are removed, it may be necessary to open the tailgate to slide the factory bumper off of the frame.

Installing the New Rear Bumper

Please note that the JK rear bumper will install almost exactly the same as the JL rear bumper. The main differences will be the hardware used and the location of the recovery points; these differences are noted in the instructions below. JL hardware can be found in Figure 2 below, while JK hardware can be found in Figure 3 below.

If you wish to paint or wrap the plate behind the Next Venture logo, do so now, before installing the bumper.

If you're installing lights into your rear bumper, we recommend bolting them into place now before the bumper goes onto the vehicle. This will give you the greatest amount of access to the mounting hardware.

For the JL, insert the two frame plates (Figure 2 Items #4 and #5) in the end of the frame rails. Item #4 will go in the driver side frame rail, while Item #5 will go in the passenger side. For the JK, both frame plates are the same so either

one can be installed in either frame rail. Once they are in place, slide the recovery points into the back of the bumper shell, then slide the bumper shell and recovery point assembly over the frame rails of your Jeep. On the JK rear bumper the recovery points will be inside the frame rail, whereas the JL recovery points will be outside of the frame rails. For the JL, install 4 of the provided M14 bolts that thread into the factory threads on the side of the frame first, in order to hold the bumper and recovery points in position; leave these loose for now. For the JK, the 4 provided ½"-13x2.75 bolts will pass through the bumper shell, frame rail, and recovery points and thread into the provided frame plates.

For the JL, the bolts that thread into the frame plates can now be installed. Note that the rearmost bolts closest to the bumper are 70mm bolts, rather than 55mm as shown below in Figure 2. Note the 2 bottom bolts on the driver side will be reused in the same location as stock, into the factory threads. Additionally, 2 of the factory bolts that were used on the side of the frame will now be reused for the 2 bottom bolts into the new frame plate on the passenger side. Leave these bolts loose until all bolts are in place. We like to use a long screwdriver through a hole in the frame to hold the frame plates in place while the bolts are threaded into them. The 10 bumper mount bolts may now be fully tightened.

For the JK, the two bottom bolts can be installed through the bottom of the bumper shell, through the frame rail and into the provided frame plates. These will utilize the provided ½"-13x1.25 bolts and washers. All bolts on the JK rear bumper can now be fully tightened. Please note, there may need to be holes drilled in your Jeep frame rail to accommodate all 6 mounting bolts on the JK rear bumper. If this is the case, populate as many holes as possible per the instructions above, then mark the center of each hole/slot that is missing on your frame. Next, remove the bumper, drill any necessary ½" holes, and reinstall the bumper using all included hardware at all 6 locations outlined above.

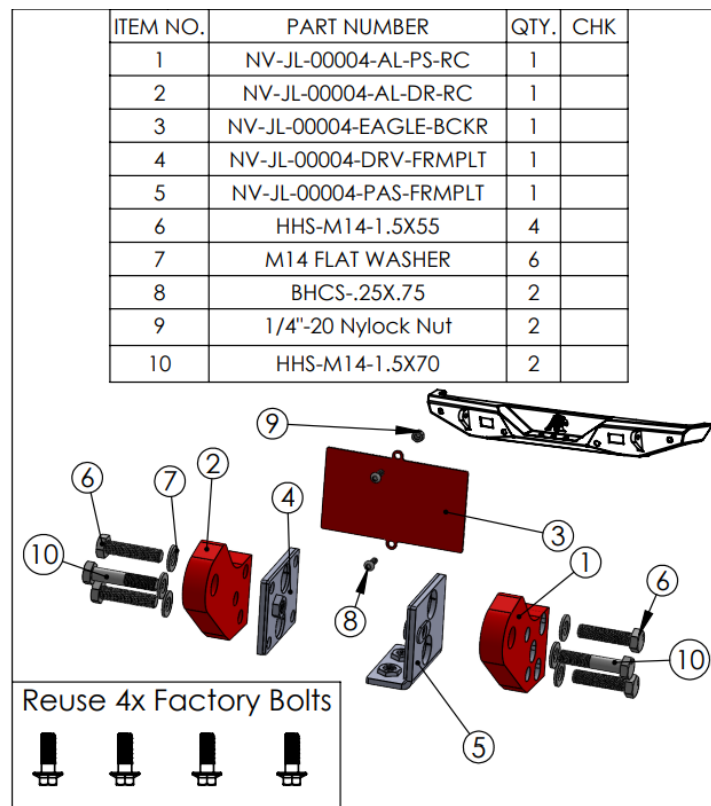
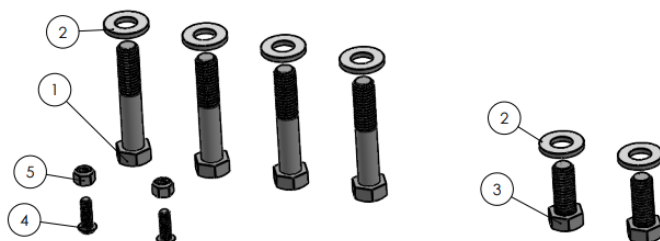


Figure 2: JL Rear Aluminum Featherweight Bumper Hardware

NV-HWK-JK-00004

ITEM NO.	PART NUMBER	QTY.	INT.
1	HHS-5-13X2.75	4	
2	.5 Flat Washer	6	
3	HHS-5-13X1.25	2	
4	BHCS-.25X.75	2	
5	1/4"-20 Nylock Nut	2	




 <p>NEXT VENTURE MOTORSPORTS</p>		
TITLE: NV-HWK-JK-00004		
SIZE B	DWG. NO. NV-JK-00004 Packing List	REV 1
SCALE: 1:10 lbs.		SHEET 1 OF 2

Figure 3: JK Rear Bumper Hardware

Post Installation Notes

Check that all bolts are installed and tight, ensure your wiring is secure and clear of any moving parts or vehicle components that get hot, reconnect your battery.... And go hit the road or the trail! We recommend checking the hardware after the next 500 miles of driving

Questions?

Email us at Info@NextVentureMotorsports.com or give us a call at 970 462 7368

-Dan and the Next Venture Team