



NEXT VENTURE MOTORSPORTS ALUMINUM FRONT BUMPER INSTALLATION GUIDE

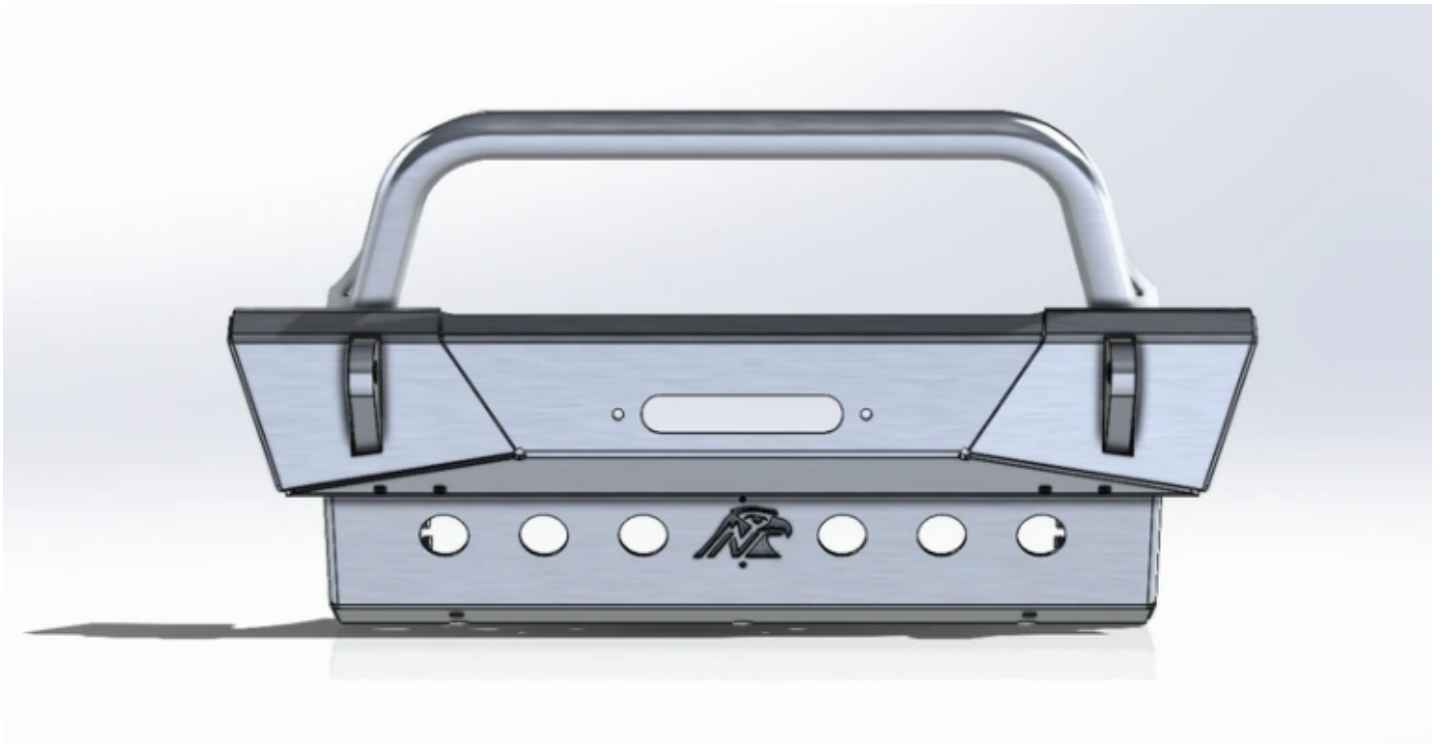
JL/JK Front Aluminum Featherweight Bumper Install Guide for NV-JL/JK-00012

Dear fellow Jeeper,

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/JK Front 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 JK and JKU regardless of the trim.



These instructions cover the JL/JK front 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:

- Winch of your choice
- Winch Fairlead of your choice
- D-Ring shackles if you wish to populate the recovery points

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 front 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 Front Bumper

Removing the factory front bumper is very straightforward. First, remove or disconnect all electrical to the front bumper (fog lights)

Now remove the plastic clips and bolts that hold on the front splash guard so it can be removed. The two bolts holding on the splash guard mount can be removed in order to remove the splash guard mount. Finally the 8 main bumper mount bolts can be removed and the factory bumper slid off the mounting studs by pulling forward.

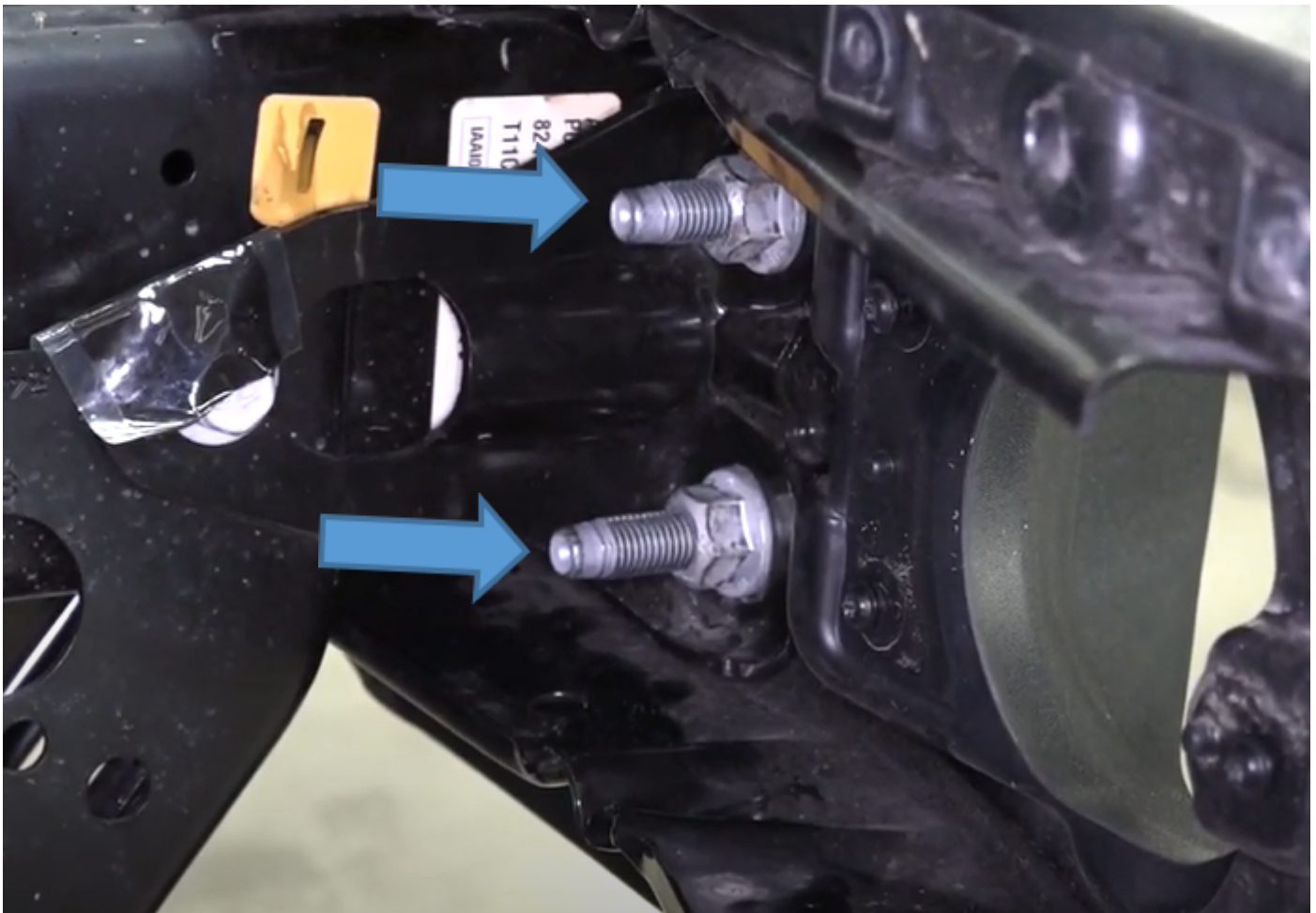


Figure 1: Passenger Side Frame Rail Showing 2 of 8 Bumper Mounting Bolts

Installing the New Front Bumper

Please note the JK install is very similar to the JL with a key difference. We recommend reading through the JL install and then referencing the JK instructions below that outline the main difference if you ordered a JK front bumper.

We have found the best way to install the two parts of this bumper is to bolt the aluminum shell up to the steel winch tray via the winch fairlead bolts before installing either component onto your Jeep. To begin, insert the lower outside 1/2" carriage bolts (Figure 2 Item #3) into the square holes in the winch tray. This will not be accessible once the aluminum shell has been installed; these bolts will also locate the winch tray on the front of your Jeep. Additionally install the remaining two 1/2" carriage bolts into the outside upper square holes of the aluminum shell at this time as this also will not be accessible once the shell is installed onto the winch tray. These bolts will need to be inserted into the round hole past the square of the carriage bolt. They can then be slid over into the square cutout in the bumper shell and pulled backout to set the square drive of the carriage bolt into the square hole in the bumper shell. Finally, install the provided retaining rings onto the threads of these bolts to make install of the aluminum shell onto the winch tray easier. The aluminum bumper shell can now be installed onto the steel winch tray with the winch fairlead bolts. Note that upon final install of the bumper shell and winch tray onto the vehicle, the outside upper carriage bolts should go through the following layers in this order from front to back: carriage bolt round head, aluminum shell, retaining ring, winch tray, Jeep frame, washer, nylock nut.

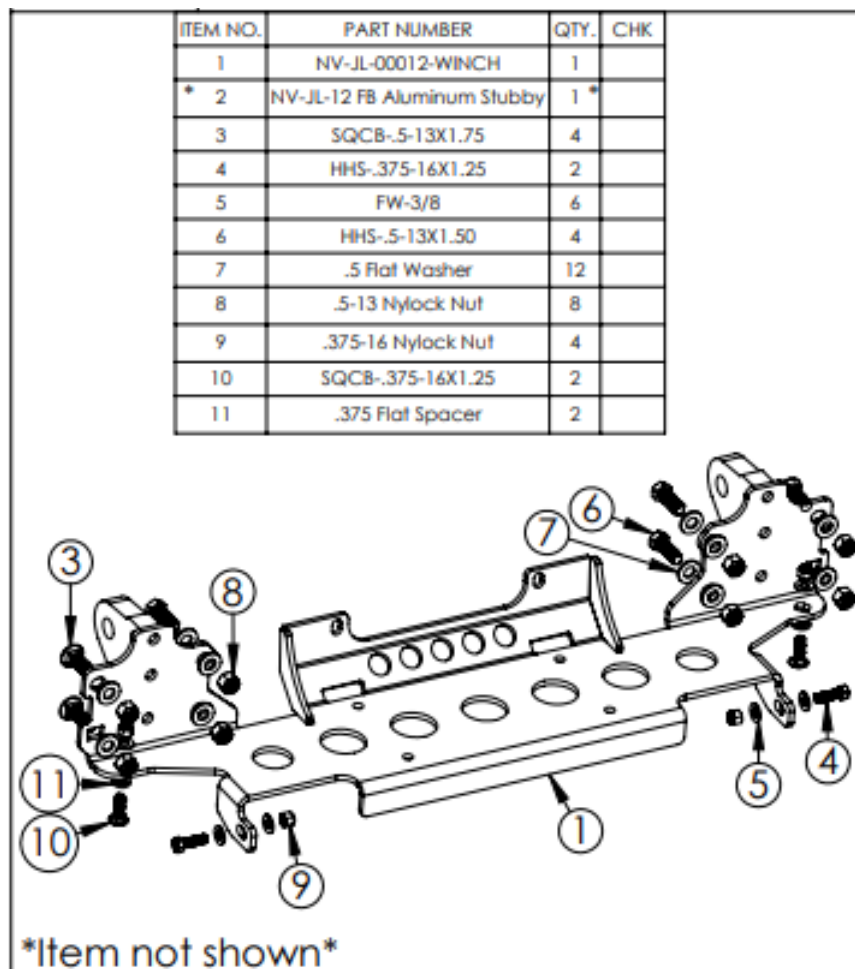


Figure 2: Winch Tray Mounting Hardware

The winch tray will bolt onto factory front frame horns as seen below in Figure 3. It will also tie into the frame lower down using the provided $\frac{3}{8}$ " hardware (Figure 2 Items #4, #5, #9) Leave these bolts loose for now. At this time the remaining 4 $\frac{1}{2}$ " bolts (Figure 2 Item #6) can be installed through the bumper shell, winch tray, and frame. If you have decided to purchase our additional lower skid plate, move to the Skid Plate Install step now.

If you have decided against the additional lower skid plate, you can now install the lower 2 $\frac{3}{8}$ " carriage bolts (Figure 2 Item #10). Note that there is a $\frac{3}{8}$ " diameter spacer that must be installed between the winch tray and aluminum bumper tray (Figure 2 Item #11). Now that all bumper mount bolts have been installed, they can all be tightened. You can now skip to the Winch Install section.



Figure 3: Steel Winch Tray Mounted

JK Aluminum Bumper Install

The JK front bumper will install nearly the same as the JL front bumper with one difference. The two bolts that install into the sides on the frame will be above the winch tray, rather than below it like the JL. These will utilize the provided ½”-13x1.00 bolts that will thread into nut sticks “NV-JK-12 E” as shown below in Figure 4. Please see Figure 5 for the orientation these will install in on the vehicle.

PART NUMBER	QTY.	INT.
NV-JK-12 A	1	
NV-JK-12 E	2	
NV-JL-12 FB Aluminum Stubby	1	

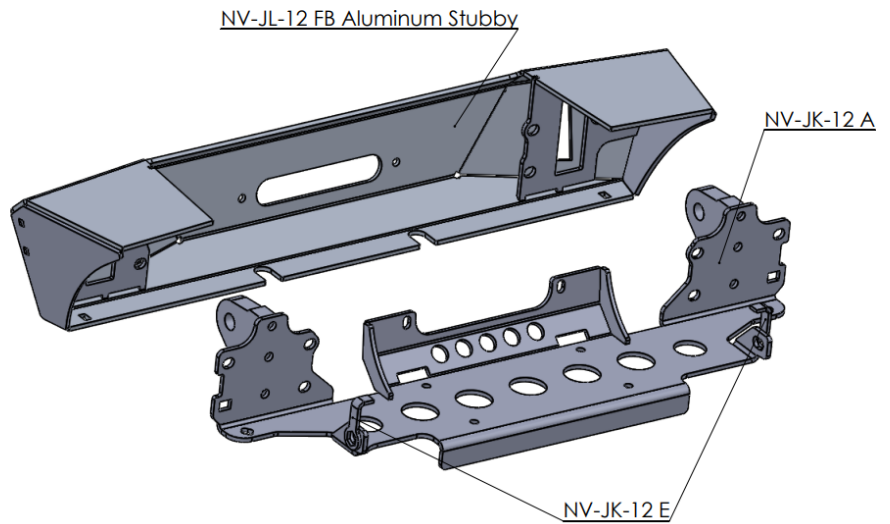


Figure 4: JK Featherweight Aluminum Front Bumper



Figure 5: Nut stick “NV-JK-12 E” installed in passenger side frame through winch tray

Skid Plate Installation

Please note there is also one key difference between the JL and JK skid plate install. We recommend reading through the JL install and then referencing the JK instructions below that outline the main difference if you ordered a JK front bumper.

If you decided to purchase our lower skid plate with your front Featherweight bumper, it can now be installed. First, if you wish to paint or wrap the plate behind the Next Venture logo, do so now, before installing the skid plate.

The two skid brackets (Figure 7 Items #2 and #3) should now be installed onto the frame of your Jeep. These two brackets can be seen installed in Figure 4 below.



Figure 6: Lower Front Skid Plate Brackets

Orange arrows highlights the front skid plate brackets and their mounting locations

The lower skid plate can now be installed. The bumper mounting bolts should still be loose which should make it easy to slide the upper flange of the skid plate in just above the bottom of the aluminum bumper shell and below the winch tray. The 2 ½" carriage bolts (Figure 7 Item #7) can now be installed to tie the skid plate into the skid plate brackets. Leave these bolts loose for now. The 2 ¾" carriage bolts (Figure 2 Item #10) can also be installed into the lower section of the aluminum shell. These carriage bolts will go through the bumper shell, then the skid plate, then the winch tray.

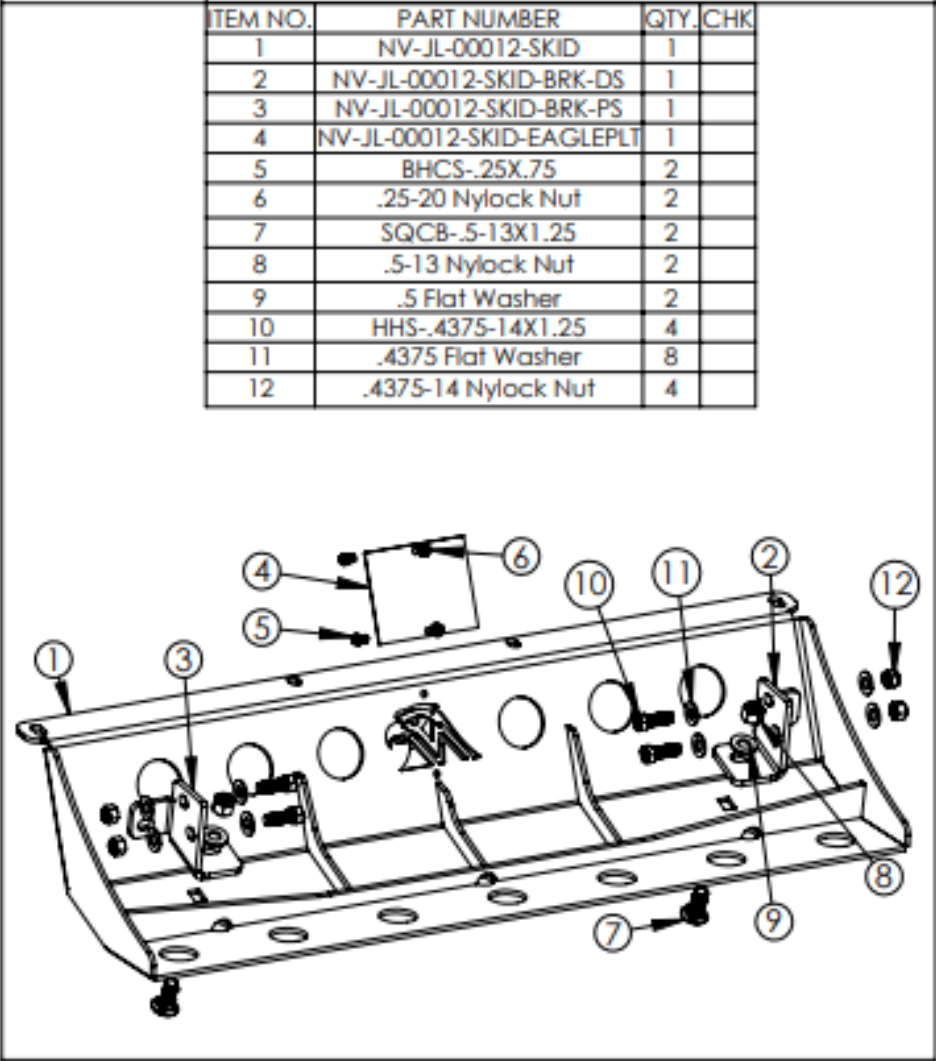


Figure 7: Lower Front Skid Plate Hardware

With all of the skid plate bolts in place, the 10 main bumper mounting bolts can now be tightened. Refrain from tightening the skid plate bolts until the winch is installed. If you are not running a winch, the remaining skid plate bolts can be tightened now. Additionally, if you are not running a winch we recommend acquiring two M10 bolts, washers, and nuts to install in place of the front 2 winch bolts, which also act as skid plate mounts.

JK Skid Plate Install

The main difference between the JL and JK skid plate install is the skid plate brackets; the lower skid plate will otherwise mount the same as the JL. The JK brackets bolt onto the back of the small front crossmember directly below the bumper. These brackets will use the provided $\frac{3}{8}$ "-16x1.00 bolts, $\frac{3}{8}$ washers, and $\frac{3}{8}$ "-16 nylock nuts. See Figure 8 below for install orientation of these brackets on the vehicle.



Figure 8: Lower Front Skid Plate Driver Side Bracket Installed

Winch Install

With the bumper, winch tray, and skid plate (if selected) in place, the winch can now be installed. Simply lower your winch of choice onto the winch tray. The 4 holes in the winch tray can be used along with the hardware supplied with the winch to securely attach it to your new bumper. Note if you have a front skid plate installed, the front two winch mount bolts will go through the skid plate and winch tray before threading into your winch. The 4 winch mount bolts can now be fully tightened. If equipped, the remaining lower skid plate bolts can also now be fully tightened.

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