

JL PRO SERIES II REAR BUMPER

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Thank you for purchasing this ICON Vehicle Dynamics product. Please read through this entire document before proceeding with installation. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. Check your packages immediately upon arrival to ensure that everything listed is included, and to check for damage during shipping. If anything is missing or damaged, or if you need technical assistance with any aspect of this installation, call (951) 689-ICON as soon as possible.



APPLICATION

These installation instructions apply to the following products:

25168 2018+ JL WRANGLER PS II REAR BUMPER

COMPONENTS INCLUDED

(1) JL PRO Series II Rear Bumper

HARDWARE INCLUDED

- (4) M10-1.5 X 40mm Gr8.8 Hex Head Cap Screw
- (4) 10mm SS Flat Washer
- (4) M10-1.5 Hex Rivet Nut
- (1) M10-1.5 Rivet Nut Installation Tool - Includes:
 - (1) M10-1.50 X 50mm Hex Head Cap Screw
 - (1) M10-1.5 Hex Rivet Nut
 - (4) 10mm SS Flat Washer
 - (1) M12 X 1.75 18-8 SS Coupling Nut
 - (1) Anti-Sieze Single Use Tube
- (4) Backup Sensor Bezel Assembly

TECH NOTES

NOTE: These installation instructions are based on a clean installation on to a stock 2018+ Jeep JL Wrangler. Previously modified vehicles may require additional steps.

TOOLS REQUIRED

- Ratchet with 8mm, 16mm, 18mm & 21mm socket
- Flat head screwdriver
- Retainer clip removal tool

IMPORTANT NOTICES - PLEASE READ FIRST

- ✓ **READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!**
- ✓ **ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLATION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.**

INSTALLATION INSTRUCTIONS

1. Ensure the vehicle is placed on a flat, level surface with the transmission in PARK, the tires chocked, and the emergency brake ON. Wear safety glasses from this point forward.
2. Remove the spare tire, if present, and set it aside.
3. Starting from the Driver Side of the vehicle, inside the rear wheel well, use the ratchet with 8mm socket to remove the three bolts that hold the rear lower inner fender liner in place. Set the rear lower inner fender aside.



FIG. 1

4. Behind where the lower inner fender liner had been, on the driver side, locate the license plate wiring harness connector, where it is clipped to



the sheet metal wall of the Jeep's body tub. Push up on the gray locking tab and pull the connectors apart. Use a retainer clip removal tool or flat screwdriver to remove the two plastic clips that attach the license plate harness (bumper side) to the Jeep's body.



FIG. 2



FIG. 3

- 5. Use a 16mm socket and ratchet to remove the sheet metal bracket that braces the outer end of the bumper to the frame rail. There are four (4) bolts, two at the frame end and two at the bumper end of the bracket.



FIG. 4

SUPPLEMENT: USING THE RIVET-NUT TOOL

It is recommended to use a dedicated rivet-nut installation tool if one is available, however the process can be performed using the simple "tool" included in the hardware kit. The included tool consists of a bolt, two washers and a coupler (long) nut:



A. Begin by slipping a washer on to the bolt, followed by the coupler nut, followed by the second washer. Thread the rivet-nut you wish to install on to the end of the bolt and snug it up to the washer, then back it off a quarter turn so that the washers and coupler nut can spin freely on the bolt.

B. Insert the knurled end of the rivet-nut into the hole, pressing its flange firmly against the Jeep's sheet metal. Use an end wrench to hold the coupler nut stationary while turning the head of the bolt clockwise with a ratchet and socket. As the ratchet is turned, the bolt will draw the far end of the rivet-nut toward the inside of the sheet metal, gripping it with the knurled outside edge of the nutsert as it deforms.



IMAGE MAY NOT MATCH THIS PART INSTALLATION. IT IS FOR ILLUSTRATION OF THE USE OF THE TOOL ONLY.

C. Continue to turn the ratchet until the rivet-nut is fully seated. **DO NOT OVER-TIGHTEN** as you can damage the nutsert, or cause it to lose its grip.

D. Once the nutsert has seated correctly, loosen the bolt then remove it and the rest of the tool from the nutsert.

E. Install a new rivet-nut onto the tool, oriented the same as the last, and set it aside until your next nutsert installation.



- 6. Use the 16mm socket to remove the bottom rearward-facing bolt and the 16mm ratchet to remove the upper rearward-facing bolt (both bolts are accessed from the inside the wheel well). Repeat Step 3-6 on Passenger Side of the vehicle.



FIG. 5



FIG. 6

- 7. Lift the stock bumper and remove it from the vehicle.
- 8. Use an 18mm and/or 21mm socket (depending on model year) to remove the two sheet metal corner brackets and the tow hook from the ends of the frame rail. Set aside OE hardware for use in an upcoming step



FIG. 7



FIG. 8

Note: Vehicles not equipped with Tow Package skid this step.

- 9. Vehicles with Tow Package, starting from the Driver Side of the vehicle, disconnect the tow plug from behind the housing and using a 16mm socket remove the two bolts holding housing in place. To remove the tow hitch, use a 18mm socket and/or 18mm wrench to remove the 4 bolts along the rear cross member.



FIG. 9

Note: Before proceeding to the next step, there are frame variation long the rear cross member between trim levels. Confirm whether your vehicle has factory threaded holes (Step 10a) or open hexagonal holes (Step 10b).

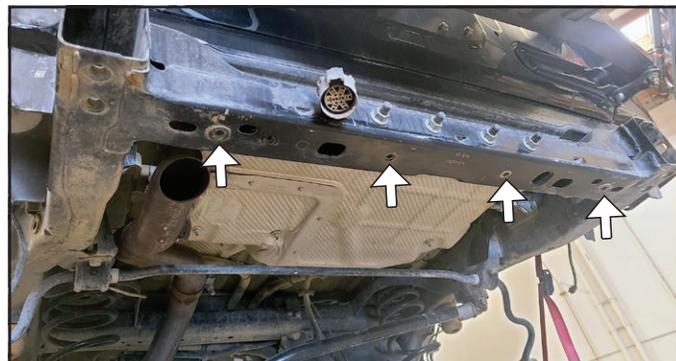


FIG. 10

- 10a. From underneath the rear crossmember frame, locate the threaded holes approximately 3” from the inside of the frame rails on each side of the vehicle. Also verify that the two center holes are threaded. If one of the holes is not threaded, install a provided M10-1.5 Hex Rivet Nsut (Nut-Sert) into hole. If a dedicated rivet nut installation tool is not available, use the simple tool that is included in the hardware kit, following the instructions in the section titled “SUPPLEMENT: USING THE RIVET-NUT TOOL.”

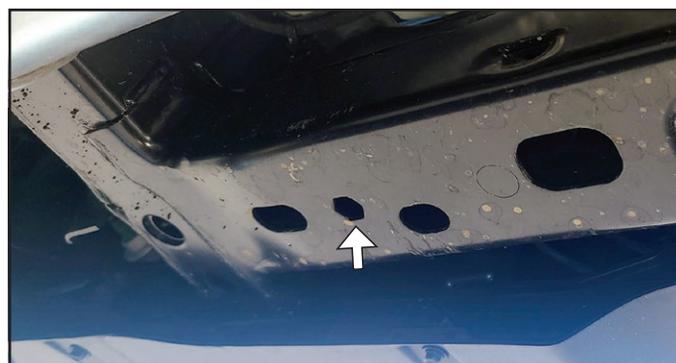


FIG. 11

- 10b. From underneath the rear crossmember frame, locate the hexagonal holes approximately 3” from the inside of the frame rails on each side of the vehicle, the two center hexagonal holes will also be used. If one of the holes is threaded, provided hardware could be used. Install a provided M10-1.5 Hex Rivet Nut (Nut-Sert) into each of the four holes. If a dedicated rivetnut installation tool is not available, use the simple tool that is included in the hardware kit, following the instructions in the section titled “SUPPLEMENT: USING THE RIVET-NUT TOOL.”



11. If the Jeep was equipped with Backup Sensors, remove the four sensors from the stock bumper. Following the installation instructions #295300 in the under the ICON website section titled "UNIVERSAL.", use the included Backup Sensor Bezels to re-install the sensors into the sensor holes in the Pro Series II bumper. It is suggested to remove the rubber grommet on the front of the sensor and replacing it with the supplied $\varnothing 1.00$ " x 0.079" foam washer.



FIG. 12



FIG. 13



FIG. 14

12. This bumper is designed with recessed backup lamp mounting flanges to fit 2-1/2" round LED backup lamps with rubber grommets (sold separately). If you have purchased backup lamps, install them into the mounts at this time by first inserting the rubber grommet and pulling on the back until the back side of the grommet is completely flush with the front face of the mount opening and the rear flange is over the opening on the back side. Insert the lamp housing into place within the grommet, by applying force push the housing into place (You will use the electrical pigtails that came with the lamps to wire them into your Jeep's backup lamp circuit before mounting the ICON bumper into place, a procedure which is not covered with these instruction).



FIG. 15



FIG. 16

13. With the help of a friend, lift the bumper into place. If it is a snug fit, protect the powder coat finish with a pad or towel and use a rubber mallet or soft dead blow hammer to tap the bumper into place.



FIG. 17

14. Install two OE bumper bolts from Step 9 into the stock bumper bolt locations on either side of the frame rail. Leave all of these fasteners loosely installed at this point. Verify that the holes on the bottom of the ICON bumper line up with either the factory threaded holes or the installed Rivet Nuts. Adjust bumper if necessary.



FIG. 18



FIG. 19

15. Install a provided M10-1.5 X 40mm Gr8.8 Hex Head Cap Screw with 10mm Flat Washer into each of the four bolt holes along the bottom of the bumper and thread them into the previously installed Rivet Nuts or factory threaded holes.



FIG. 20



16. Once all fasteners have been installed on both sides of the bumper, fully tighten all fasteners with a ratchet and socket. Use an 18mm socket on the OE bumper hardware and a 17mm socket on the M10 bolts.
17. Re-connect the Backup Sensor electrical pigtails to the vehicle's wiring harness.
18. If the vehicle had been previously-equipped with a tow hitch, use wire ties (not supplied) to secure the trailer tow wiring plug in place.
19. It is up to the installer to re-locate the Jeep's license plate and wire the license plate illumination lamp. Supplies and procedures to do so are not included with the bumper.
20. Reinstall the spare tire, if desired.

Congratulations! Your installation is complete.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.



LIMITED LIFETIME WARRANTY

ICON Vehicle Dynamics warrants to the original retail purchaser who owns the vehicle on which the product was originally installed. ICON Vehicle Dynamics does not warrant the product for finish, alterations, modifications and/or installation contrary to ICON Vehicle Dynamics instructions. ICON Vehicle Dynamics products are not designed, nor are they intended to be installed on vehicles used in race applications, for racing purposes or for similar activities. (A "race" is defined as any contest between two or more vehicles, or a contest of one or more vehicles against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America and Canada.

ICON Vehicle Dynamics' obligation under this warranty is limited to the repair or replacement, at ICON Vehicle Dynamics' discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered.

ICON Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty.

This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.



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