



JK PRO SERIES REAR FENDER FLARES

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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:

25221 JK PS STD WIDTH RR FENDER KIT

25223 JK PS STD WIDTH ALUM RR FENDER KIT

COMPONENTS INCLUDED

- (2) PRO SERIES REAR FENDER FLARES
- (2) SMALL REINFORCEMENT BRACKETS

HARDWARE INCLUDED

- (14) 5/16-18 X 1 Gr8 Hex Head Cap Screw
- (14) 5/16 Gr. 8 Flat Washer
- (14) 5/16-18 Rivet-Nut (nut-sert)
- (8) 1/4-20 X 1 Gr8 Hex Head Cap Screw
- (6) 1/4 Gr8 Flat Washer
- (8) 1/4-20 Gr8 Nylon Insert Lock Nut
- (1) Rivet Nut Installation Tool

TECH NOTES

NOTE: These installation instructions are based on a clean installation on to a stock 2007-2018 Jeep JK Wrangler. Previously modified vehicles may require additional steps.

TOOLS REQUIRED

- Door panel removal tool or small flat screwdriver
- 1/2" & 5/8" combo wrench
- 7/16" combo wrenches (2 required)
- Drill motor with bits stepping up to 17/32"
- Masking tape, touch-up paint and fine-tip felt pen
- Floor jack and jack stand
- Rivet-nut tool (included with hardware)

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. Use a floor jack to lift one end of the rear axle. Lower the axle onto a sturdy jack stand with the tire an inch or so off the floor. Remove the wheel and tire and set it aside.
3. Use a door panel removal tool or small flat screwdriver to pop out the six (6) push in retainers (circled in the photo) that hold the inner fender liner in place.



FIG. 1

4. Firmly grip the plastic fender flare and pull it free from the wheel well. It may need to be twisted and pulled from different directions to work it loose. Be careful not to bend or deform the sheet metal while removing the flare. Set the flare aside.



FIG. 2

5. Remove any retaining clips that did not come free with the flare. Use the door panel removal tool or a small flat screwdriver to gently pry the clip while reaching behind and pinching it from the backside. Clean any dirt and debris from the now-exposed sections of the Jeep's body panels.



FIG. 3

6. Apply masking tape to the Jeep's body sheet metal, around the periphery of the flare pocket to protect the paint during the installation process.

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.

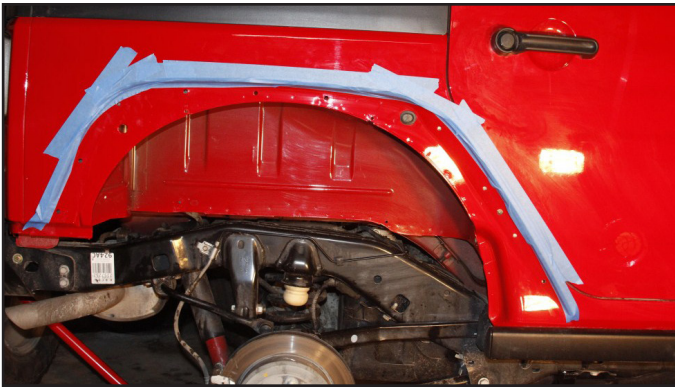


FIG. 4

7. Use a drill motor with a 17/32" drill bit to enlarge the six (6) existing holes in the fender flare pocket that are circled in the following photo. Be careful while drilling, as the sheet metal is thin and can catch on the drill bit, creasing the surrounding metal. Apply touch-up paint to the newly exposed metal around the edge of each hole to prevent it from rusting.

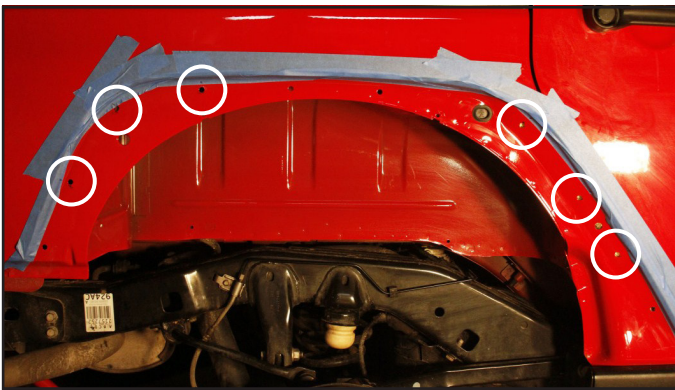


FIG. 5

8. Install a 5/16-18 Threaded Rivet Nut (Nut-Sert) into each of the six (6) newly drilled holes. 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."
9. Hold the Fender Flare up to the vehicle and align the bolt holes in the flare's mounting plate with the newly installed rivet-nuts. Use six (6) of the supplied 5/16-18 X 1 Gr8 Hex Head Cap Screws and 5/16 Gr. 8 Flat Washers to attach the Fender Flare.
10. Use a fine-tip felt marker to mark the center of the hole circled in the following photo, so it may be drilled in a later step.



FIG. 7

11. Use two of the supplied 1/4-20 X 1 Gr8 Hex Head Cap Screws with 1/4 Gr. 8 Flat Washers and 1/4-20 Gr8 Nylon Insert Lock Nuts to install the Small Reinforcement Bracket between the back side of the fender flare and the recessed section of the fender flare pocket at the forward end of the flare, as shown in the following photo.



FIG. 8

12. Use a fine-tip felt marker to mark the centers of the two holes at the back side of the Small Reinforcement Bracket, shown circled in the photo above. Some model years may have tape covering up an access hole behind the upper one of these drill locations. If so, remove it.
13. Remove the Fender Flare and the Small Reinforcement Bracket from the Jeep and set them aside.
14. Use the drill motor and a series of drill bits to drill the single hole location marked in a previous step near the top of the wheel arch, indicated by the square in the following photo. Begin with an 1/8" pilot hole and then step up one or two drill sizes with 17/32" the final hole size. Be careful while drilling, as the sheet metal is thin and can catch on the drill bit, creasing the surrounding metal. Apply touch-up paint to the newly exposed metal around the edge of each hole to prevent it from rusting.



15. Install a 5/16-18 Threaded Rivet Nut (Nut-Sert) into the newly-drilled 17-32" hole.



FIG. 9

Congratulations! Your installation is complete.

RE-TORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.

16. Use the drill motor with 1/8" and 9/32" drill bits to drill the two hole locations for the Small Reinforcement Bracket which were marked in a previous step and indicated by the circle in the preceding photo. Begin with an 1/8" pilot hole and then step up to the 9/32" final hole size. Be careful while drilling, as the sheet metal is thin and can catch on the drill bit, creasing the surrounding metal. Apply touch-up paint to the newly exposed metal around the edge of each hole to prevent it from rusting.
17. Reinstall the Fender Flare and the Small Reinforcement Bracket. Use the 5/16-18 hardware for each of the rivet-nut locations and the 1/4-20 hardware for the Small Reinforcement Bracket. Make sure all of the fasteners are loosely started before tightening any of them. Finish by working around the Fender Flare tightening each fastener.



FIG. 10

18. Re-install the wheel and tire, and use the jack to lift the axle off of the jack stand and set it back down on to the floor.
19. Move to the other side of the vehicle and repeat the procedures to install the remaining Fender Flare.

**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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