# ICON Vehicle Dynamics 26518 Installation Instructions

4.5 in. Rear 2.0 VS IR Shock for Jeep Wrangler JK (2007-2018)

Part number: 26518

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# 26518 INSTALLATION INSTRUCTIONS

*12-03-2019 REV.B*

| PART # | DESCRIPTION |
|---|---|
| 26518 | 07-18 JK 4.5" REAR 2.0 VS IR |

## COMPONENTS INCLUDED

| | |
|---|---|
| (1) 124912 07-18 JK 4.5" REAR 2.0 IR | (1) 129500 07-18 JK REAR BAR PIN |

## HARDWARE INCLUDED

| | |
|---|---|
| N/A | |

## TOOLS REQUIRED

| | |
|---|---|
| JACK<br>JACK STANDS<br>VISE<br>GRINDER / TABLE MOUNTED BELT SANDER | TORQUE WRENCH<br>16MM SOCKET / WRENCH<br>18MM SOCKET / WRENCH<br>GREASE / LUBE |

## TECH NOTES

*1. YOUR ICON SHOCK ASSEMBLY COMES FACTORY CHARGED TO 150 PSI. RELEASING NITROGEN PRESSURE MAY LEAD TO SHOCK MALFUNCTION AND REDUCED RIDE QUALITY. FAILURE CAUSED BY LOW NITROGEN PRESSURE IS NOT COVERED UNDER ICON'S WARRANTY POLICY.*

*2. REQUIRES USE OF BUMP STOP SPACERS SUPPLIED WITH ICON'S 4.5" BOX KIT (#21000).*



**WARNING!**

*** 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 THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.*

*** 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

***1.*** Using a properly rated jack, raise the rear of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the rear wheels.

***2.*** Remove the lower nut from the shock bolt using a 18mm socket/wrench.

***3.*** With a floor jack under the axle housing, slightly raise the jack to remove tension from the shock, then loosen and remove the lower shock bolts using an 18mm socket/wrench. Ensure that the axle is well supported. Remove the (2) bolts holding the bar pin to the upper mount using a 16mm socket/wrench.

***4.*** Remove the rear shock.

***5.*** Apply a generous amount of grease to the inside of the upper bushings. **[FIGURE 1]**

**FIG.1**





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***6.*** You will need to lightly chamfer the bar pin to allow it to slide in to the bushing easily. Slide the bar pin (chamfered end first) into the greased eyelet bushing as far as you can by hand, it will not be fully seated but it will be held in place until you press it in to the bushing. **[FIGURE 2]**

**FIG.2**







**FIG.3**

***7.*** Using a standard bench vise, push the bar pin through the bushing until it bottoms out on the opposite jaw of the vice. **[FIGURE 3]**

***NOTE:*** Be very careful not to crush the end of the bar pin!

***8.*** Remove the shock from the vise and press the bar pin through the rest of the way using a table top or work bench. If enough grease was applied it will slide through with very little effort. **[FIGURE 4]**

**FIG.4**



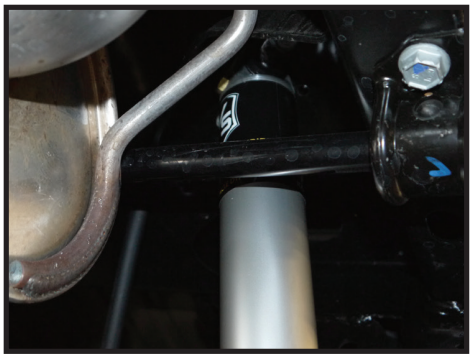


**FIG.5**

***9.*** Install the upper shock bar pin the stock location reusing the factory hardware. [Torque to factory spec] **[FIGURE 5]**

***10.*** Install lower shock mount into factory mount. Insert OEM bolt into the factory shock mount and tighten using a 18mm socket/ wrench. [Torque to factory spec] **[FIGURE 6]**

***NOTE:*** Lifting and/or lowering of the axle housing may be necessary to align the bushing sleeve with the holes in the factory mount.

**FIG.6**



***11.*** Repeat steps 2-10 for opposite side.

***12.*** Install wheels and lower vehicle back to the ground. [Torque lugs to factory spec]

***VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.***

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



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# 2.0 ALUMINUM SERIES TECHNICAL INFORMATION

## MAINTENANCE

ICON shock absorbers are a high quality rebuildable race style shock absorber designed for optimal performance. With a unit of this caliber on your vehicle, routine maintenance is required to keep them looking and operating in like new condition. Residual oil and assembly lube may be present at all seal paths from the factory out of the box and is considered normal. Pooling of oil however is not acceptable at any time and one should contact the iCON dealer where purchased.

***BELOW ARE GUIDELINES BASED ON HOW YOU USE YOUR VEHICLE BUT YOUR MILEAGE MAY VARY:***

***STREET USE:***
- Send in for factory servicing every 40,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Remove any buildup of road salt, mud, or debris from shocks anytime accrued
- Clean with mild soap and water with each oil change or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure yearly. (252004 charge needle assembly available at any ICON distributor)

***STREET/DIRT:***
- Send in for factory servicing every 15,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Clean with mild soap and water with each oil change, offroad trip, or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure each dirt outing. (252004 charge needle assembly available at any ICON distributor)

***DIRT USE:***
- Send in for factory servicing every 1,000 miles.
- Check nitrogen pressure each outing. (252004 charge needle assembly available at any ICON distributor)
- Remove any buildup of mud or debris from shocks after every outing.

***SELF-SERVICE:***
- Contact ICON for service kits & tools at (951) 689-4266.

## PRODUCT REGISTRATION

Please visit: http://www.iconvehicledynamics.com/tech-support/registration/ to register your product.

## ICON VEHICLE DYNAMICS SHOCK ABSORBER WARRANTY

This shock absorber has a 1 year warranty against any manufacturer's defects. If a shock fails within the initial year of ownership, the shock must be shipped to ICON Vehicle Dynamics for inspection and service. If a shock is inspected and it has been determined the shock failed due to neglect, damage caused by improper installation or any other reason besides "normal wear and tear", the owner of said shock is responsible for all service costs. This includes labor, parts, and shipping.

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.

To send a shock in for warranty please visit our website http://www.iconvehicledynamics.com/tech-support/shock-service/

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