# ICON Vehicle Dynamics K93133T Installation Instructions

K93133T

Part number: K93133T

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Scan for fitment, price and install help

ICON VEHICLE DYNAMICS®
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# *97720P INSTALLATION INSTRUCTIONS*

*8-5-2021 REV.C*

| PART # | DESCRIPTION |
|---|---|
| 97720P | 09-UP F150 2/4WD \| 04-08 F150 4WD REAR 2.5 VS PB PAIR |

## COMPONENTS INCLUDED

| | |
|---|---|
| (2) 194954P 09-UP F150 2/4WD \| 04-08 F150 4WD REAR 2.5 VS PB SHOCK | (1) 194017 15+ F150 REAR E-BRAKE TAB |

## HARDWARE INCLUDED

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

## TOOLS REQUIRED

| | |
|---|---|
| JACK<br>JACK STANDS<br>PRY BAR<br>TORQUE WRENCH | 10MM SOCKET / WRENCH<br>15MM SOCKET / WRENCH<br>18MM SOCKET / WRENCH |

## TECH NOTES

*1. FAILURE TO INSTALL THE SUPPLIED (194017) BRACKET WILL LEAD TO FAILURE AND IS NOT COVERED BY WARRANTY.*

*2. YOUR ICON SHOCK ASSEMBLIES COME FACTORY CHARGED TO 250 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.*

*3. IF SHOCK RESERVOIR IS NOT CLOCKED CORRECTLY, IT MAY RUB AGAINST THE EMERGENCY BRAKE CABLE AND CAUSE PREMATURE WEAR ON THE STICKER.*




## 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.*

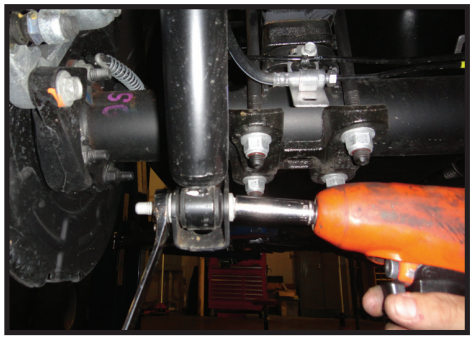
*** ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLATION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.*

## *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.

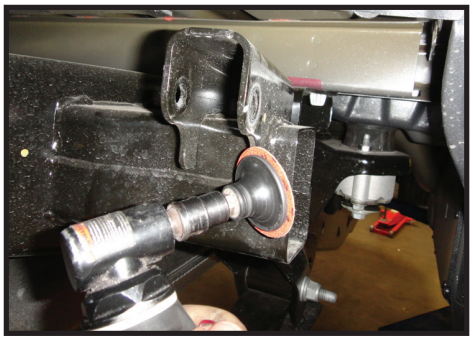
***2.*** Remove the factory rear shocks using a 15mm and 18mm socket/wrench. **[FIGURE 1]**

**FIG.1**



***3.*** The passenger side upper shock mount needs to be sanded slightly in order for adequate top cap clearance throughout the travel. Sand mount as shown. **[FIGURE 2 & 3]**

**FIG.2**



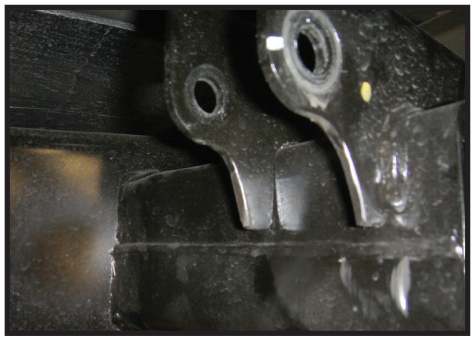


**FIG.3**



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***4.*** Paint exposed metal to prevent rust.

***5.*** Install the ICON rear shocks using a 15mm and an 18mm socket/wrench. Note that the reservoir points away from the axle. [Torque to factory spec] **[FIGURE 4 & 5]**

FIG.4





FIG.5

***6.*** Remove the factory parking brake cable bracket (if required) using a 10mm socket/wrench. Pry the bracket open, and remove it from the cable. **[FIGURE 6]**

FIG.6

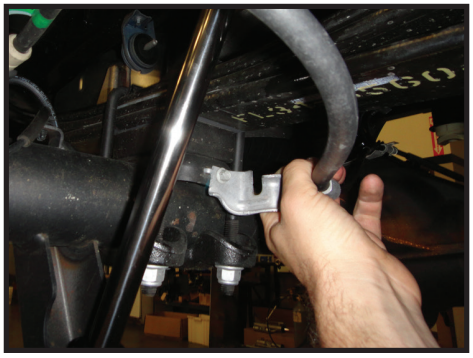




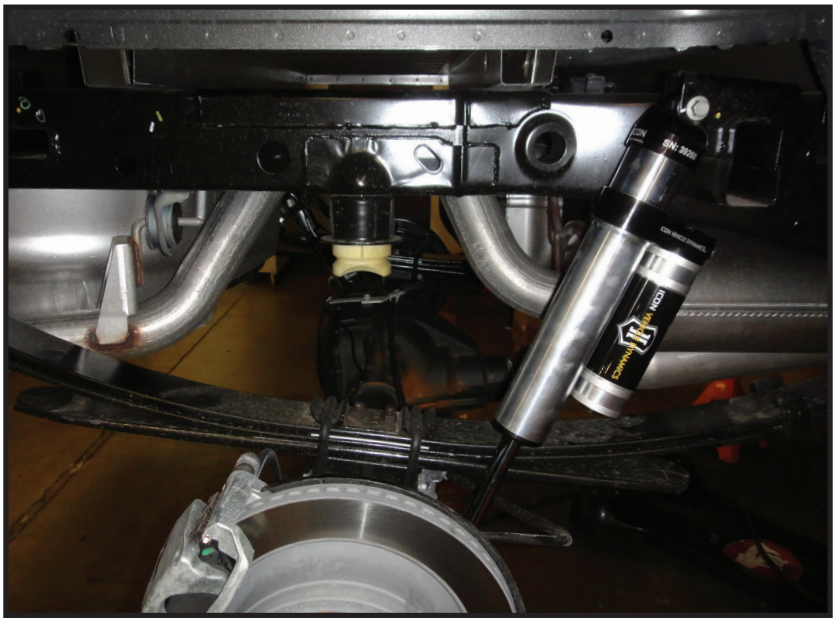
FIG.7

***7.*** Slide the supplied parking brake cable bracket over the metal sleeve on the cable. Then connect it to the differential using the factory screw and a 10mm socket/wrench. [Torque to factory spec] **[FIGURE 7]**

***8.*** Ensure that the shock reservoir is clocked properly so that it doesn't make contact with the leaf spring. Check this with the heim spacers rotated towards the frame/leaf spring.

***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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# 2.5 VS SERIES SHOCK & COILOVER 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 and coil springs 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)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

***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)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

***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 and coil springs 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/

# ICON VEHICLE DYNAMICS LIABILITY DISCLAIMER

ICON does not make any representations or warranties regarding the fitness of any ICON product for a particular installation or conformance of any ICON product with a particular vehicle application. Installation of any ICON suspension system is at the sole discretion of the end user and in making a purchase of any ICON suspension system, the purchaser assumes the responsibility and liability for any and all damage or injury, of any kind or nature whatsoever, caused by, resulting from, arising out of, or occurring in connection with the use or installation of any ICON suspension system. ICON is not liable for and specifically disavows any installation that is not in conformance with original equipment manufacturer's recommendations or instructions. Purchaser agrees that in the event of any claim or lawsuit arising out of the installation or use of an ICON suspension system, purchaser shall indemnify and hold harmless ICON, its agents, employees, officers and owners from and against any and all loss, expense, damage or injury that ICON may sustain as the result of such claim. [ICON defers to and recommends recalibration after suspension installation on 2018 model Toyota vehicles and other manufacturers who make any similar recommendations.]



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