ICON Vehicle Dynamics K53196 Installation Instructions

Stage 6 Suspension System with Billet Arms, Toyota Tundra

Part number: K53196

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Scan for fitment, price and install help

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56516R INSTALLATION INSTRUCTIONS

7-20-2022 REV.A

PART #	DESCRIPTION
56516R	22-UP TUNDRA 0-1" REAR 2.0 VS RR

COMPONENTS INCLUDED

(1) 154930R 22-UP TUNDRA 0-1" REAR 2.0 RR UPKG

HARDWARE INCLUDED

(1) 250002 7.50 UNIVERSAL RESI MT PLATE CZINC
(1) 604144 3/8-12 X .750 FLANGED SELF TAP BOLT CZINC
(1) 605131 3/8 SPLIT LOCK WASHER GR8 YZINC
(2) 605928 1/2 X 1 5/16 – 2 1/4 ID#28 BREEZE SS HOSE CLAMP
(1) 611007 9/16 MEDIUM DUTY STEM BUSHING KIT

TOOLS REQUIRED

JACK
JACK STANDS
RATCHET
TORQUE WRENCH
FLAT HEAD SCREWDRIVER
DRILL
11/32 DRILL BIT
8MM SOCKET / WRENCH
17MM SOCKET / WRENCH
19MM SOCKET / WRENCH
5/16" NUT DRIVER
9/16" SOCKET / WRENCH

TECH NOTES

1. 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.

2. BE CAUTIOUS WHEN LOWERING THE AXLE WITHOUT THE SHOCKS ATTACHED, THE BRAKE LINES CAN BECOME STRETCHED AND CAUSE DAMAGE.

3. INSTALL TIME: 1 HOUR



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. Lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the rear of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the wheels.

2. Support the rear axle and remove the rear shocks.

3. Remove the upper nut using an 8mm to hold the stud and 19mm to remove the nut. **[FIGURE 1]**

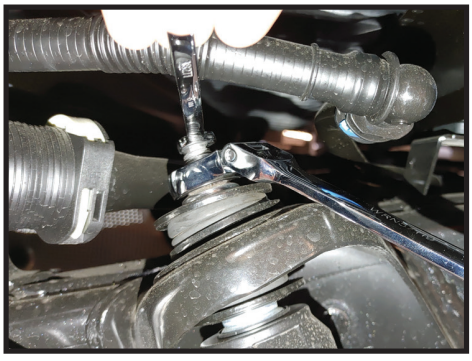


FIG.1

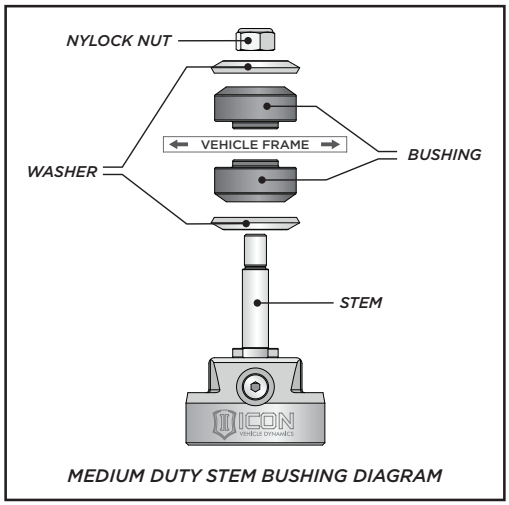
4. Remove the lower bolt using a 17mm. **[FIGURE 2]**



FIG.2

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5. **Install the new Icon stem bushings onto the Icon shock. Place the washer with the bigger hole on, then a bushing . Place the stem into the upper shock mount, then another bushing and the washer.**



MEDIUM DUTY STEM BUSHING DIAGRAM

The bushings should center themselves into the factory mount. Thread on the supplied nylock nut until 2-3 threads are showing. [FIGURE 3]

FIG.3



6. **Install the lower eyelet of the Icon shock onto the axle stud. A deadblow hammer can be used to get the lower eyelet on the stud completely. Use the factory bolt and torque to factory specs. [FIGURE 4]**

FIG.4



7. **Install the reservoir now. Hold it into position as shown with the reservoir bracket. Mark the hole and drill to 11/32". Use the supplied 3/8" self tap bolt and tighten reservoir bracket into place. Using supplied hose clamps, secure reservoir to bracket. [FIGURE 5 & 6]**

FIG.5





FIG.6

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8. With the shocks installed. Reinstall the wheels and tires, lower to the ground, and torque the lug nuts to factory spec.

9. Enjoy your new ICON shocks and the improved ride!

VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

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

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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