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ICON Vehicle Dynamics 57840EP Installation Instructions

Rear 2.5 VS CDEV RR Shock Pair for Tundra & Sequoia

Part number: 57840EP

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ICON VEHICLE DYNAMICS®
7929 Lincoln Ave. Riverside, CA 92504
Phone: 951.689.ICON | Fax: 951.689.1016

57840EP INSTALLATION INSTRUCTIONS

1-9-2023 REV.A

PART #	DESCRIPTION
57840EP	22-UP TUNDRA 0-1" REAR 2.5 VS CDEV RR PAIR

COMPONENTS INCLUDED

(1) 154874RED 22-UP TUNDRA 2.5 0-1" REAR VS CDEV RR DRVR UNPKG	(1) 154874REP 22-UP TUNDRA 2.5 0-1" REAR VS CDEV PASS UNPKG

HARDWARE INCLUDED

(2) 250003 10.00 UNIVERSAL RESI MT PLATE CZINC (2) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT CZINC (1) 255604-16 EXTENSION HARNESS COIL 16-FT (2) 605929 11 X 0.178 NYLON CABLE TIE, BLACK	(2) 611008 9/16 RXT HEAVY DUTY STEM BUSHING KIT (2) 611051 #36 1.188-2.750 STAINLESS HOSE CLAMP KIT (4) (1) 255604-20 EXTENSION HARNESS COIL 20-FT (2) 605131 3/8 SPLIT LOCK WASHER GR8 YZINC

TOOLS REQUIRED

JACK JACK STANDS TORQUE WRENCH RATCHETS EXTENSION DRILL 11/32 DRILL BIT	SHARPIE 8MM 17MM 19MM 9/16" 5/16" NUT DRIVER OR FLAT BLADE SCREW DRIVER

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. ESTIMATED INSTALL TIME: 1.5 HOURS



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 optional shock boot securing the top of the boot with the supplied zip-tie.

6. 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, thread on one of the supplied nuts, tighten it down until the second nut can on and 3-4 thread show with both nuts installed. **[FIGURE 3]**

FIG.3



7. Install the lower eyelet of the Icon shock onto the axle stud. Use the supplied sleeves to position the eyelet correctly. Sleeve, shock eyelet, sleeve. Use the factory bolt and torque to factory specs. **[FIGURE 4 & 5]**

FIG.4





FIG.5

8. For reservoir mounting, use the supplied reservoir bracket and hold the reservoir and bracket up to the frame as shown, and mark the hole to drill it to 11/32" (SHOCK APPEARANCE MAY CHANGE DUE TO ONGOING DEVELOPMENT). **[FIGURE 6, 7, 8]**

FIG.6





FIG.7

FIG.8



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9. With the hole drilled, take the supplied 3/8" self-tap flanged bolt and reservoir bracket and install onto the frame.

10. Using the supplied hose clamps, clamp the reservoir onto the bracket as shown (If desired, the supplied heat shrink material can be cut to fit over the hose clamps). **[FIGURE 9 & 10]**

FIG.9





FIG.10

11. With the shocks installed. Reinstall the wheels and tires, lower to the ground and torque the lug nuts 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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2.5 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/

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PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

7929 Lincoln Ave. Riverside, CA 92504 Phone: 951.689.ICON Fax: 951.689.1016
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