ICON Vehicle Dynamics 211015 Installation Instructions

2.5 VS RR Coilover Kit for Ram 1500, 2-3 in.

Part number: 211015

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211015 INSTALLATION INSTRUCTIONS

1-12-2021 REV.A

PART #	DESCRIPTION
211015	19-UP RAM 1500 2-3" 2.5 VS RESI COILOVER KIT

COMPONENTS INCLUDED

(1) 214960D 19-UP RAM 1500 C/O RESI DRVR (1) 214960D 19-UP RAM 1500 C/O RESI PASS	(2) 250002O 7.50 OFFSET RESI MOUNT

HARDWARE INCLUDED

(1) 611019 COILOVER HARDWARE KIT PAIR (1) 611051 HOSE CLAMP KIT	(2) 605934 ADEL CLAMP (4) 605144 3/8-12 X .75 SELF TAB BOLT

TOOLS REQUIRED

JACK JACK STANDS TORQUE WRENCH HAMMER SOCKET WRENCH 11/32 DRILL BIT	16MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 24MM SOCKET / WRENCH 9/16" SOCKET / WRENCH 5/16" SOCKET / WRENCH

TECH NOTES

1. YOUR ICON COILOVER 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. YOUR ICON COILOVER ASSEMBLIES COME SHIPPED AT ICON'S RECOMMENDED RIDE HEIGHT. REDUCING DROOP TRAVEL WILL REDUCE RIDE QUALITY. DO NOT PRELOAD THE COIL BEYOND 1" OF EXPOSED THREADS BETWEEN THE BOTTOM OF THE TOP CAP AND THE TOP OF THE COIL ADJUSTER NUT. ADJUSTING PRELOAD BEYOND THIS SETTING WILL CAUSE THE COIL TO BIND AND DAMAGE WILL OCCUR TO COILOVER AND/OR VEHICLE.

3. WILL NOT WORK WITH AIR RIDE VEHICLES.

4. WILL NOT WORK RAM 1500 CLASSIC.

5. WILL NOT WORK WITH FACTORY UCA. USE ICON 281560DJ / 218550DJ.



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 front 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. Using a jack support the lower control arm to prevent the suspension from being fully extended. And remove all abs and brake line brackets from the UCA. **[FIGURE 1]**

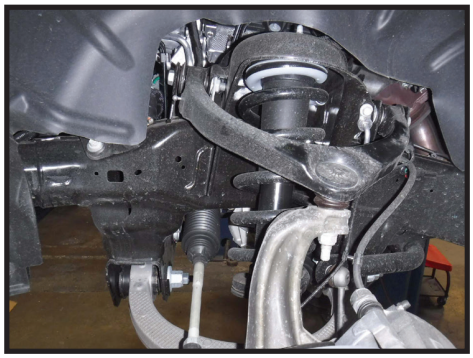

FIG.1

3. Starting on the driver side loosen the taper on the upper ball joint using an 21mm socket/wrench. Use a hammer to separate the upper ball joint taper and tie rod end. Support the spindle so that it does not over extend the CV joints when detached. **[FIGURE 2]**



FIG.2

4. Using a 21mm wrench remove the tie rod end nut and tie rod end from the knuckle.

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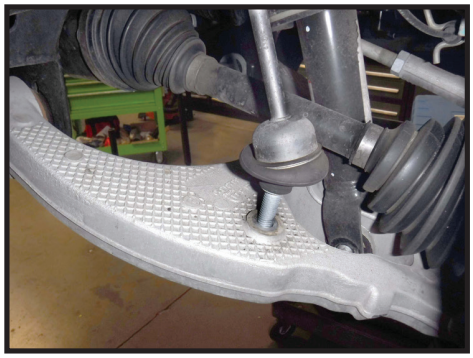
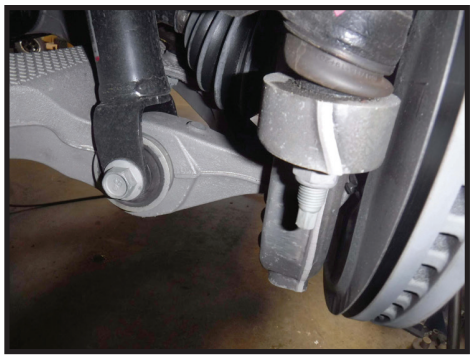
5. Using a 18mm socket and remove the lower sway bar link nut. Move it up. **[FIGURE 3]**

FIG.3



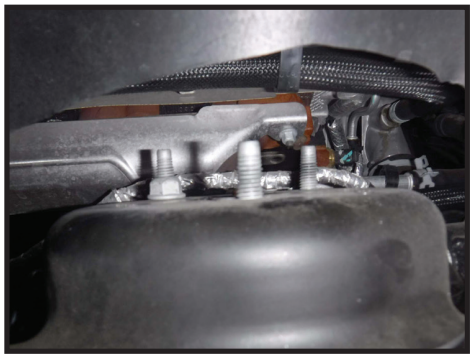
6. Using a 21mm & 24mm wrench remove the lower coilover mount from the arm. **[FIGURE 4]**

FIG.4



7. Take a 16mm socket or wrench and remove the coil over nut on top of the coilover bucket. **[FIGURE 5]**

FIG.5



8. Install the new coilover using the supplied 3/8" coilover hardware and torque to 35 ft-lbs. Reinstall the lower shock bolt torquing to factory specs.

9. Taking the 250002O and place it on the front of the crossmember and drill a 11/32" hole and using the supplied 3/8" self-taping screw to tap the hole. **[FIGURE 6]**

FIG.6



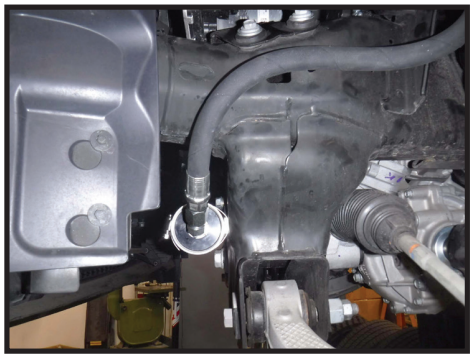
10. Mount the 250002O reservoir bracket to the reservoir with the supplied hose clamp kit (611051) and secure it to the frame using the hole you just made using at 9/16” wrench. **[FIGURE 7]**

FIG.7



11. Using the supplied 605934 adel clamp install it on the hose and 11/32” drill bit drill a hole in the frame and secure it to the frame using the 3/8” self-tapping bolt. **[FIGURE 8]**

FIG.8



12. Repeat steps on opposite side

13. Reinstall wheels and tires and torque to factory specs

14. Have the vehicle professionally aligned.

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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