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PART #	DESCRIPTION
91821C	2014-UP FORD EXPEDITION 4WD REAR 2.5 VS RR CDCV COILOVER KIT

COMPONENTS INCLUDED	
(2) 194957RC 14-UP EXPO REAR 2.5 RR SHOCK (8) 197012 09-13 F150 LCA ADAPTER (2) 250002 7.50 UNIVERSAL RESI MOUNT	(1) 611019 COILOVER HARDWARE KIT (1) 611051 HOSE CLAMP HARDWARE KIT
HARDWARE INCLUDED	
(2) 605131 3/8 SPLIT LOCK WASHER (2) 605144 3/8 -12 X .75 SELF TAP BOLT (2) 605509 5/8-11 X 5.5 BOLT	(4) 605530 5/8 FLAT WASHER (2) 605520 5/8-11 NYLOCK NUT
611019 HARDWARE KIT	
(6) 605101 3/8-16 X 1.000 BOLT	(6) 605131 3/8 SPLIT LOCK WASHER
611051 HARDWARE KIT	
(4) 605931 1/2 X 2 1/16 - 3 ID #40 SS HOSE CLAMP	
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH DRILL 11/32" DRILL BIT 5/16" NUT DRIVER	14MM SOCKET / WRENCH 24MM SOCKET / WRENCH 27MM SOCKET / WRENCH 30MM SOCKET / WRENCH 9/16" SOCKET / WRENCH 15/16" SOCKET / WRENCH
TECH NOTES	
<p>1. THE SHOCKS SHIP AT ICON'S RECOMMENDED RIDE HEIGHT. ICON DOES NOT RECOMMEND PRE-LOADING THE COIL BEYOND 1.25" OF THREADS BETWEEN THE BOTTOM OF THE TOP CAP AND THE TOP OF THE COIL NUT. INCREASING PRELOAD BEYOND THE FACTORY SETTING WILL REDUCE RIDE QUALITY. REAR LIFT HEIGHTS OVER 1" INCREASE ADVANCETRAC SENSITIVITY.</p> <p>2. YOUR NEW COILOVER ASSEMBLIES COME CHARGED WITH THE CORRECT AMOUNT OF NITROGEN. DO NOT RELEASE PRESSURE FROM THE CHARGE PORT, AS THIS CAN CAUSE THE SHOCK TO MALFUNCTION.</p>	



WARNING!
<p>** 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!</p> <p>** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.</p> <p>** 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.</p>

INSTALLATION

- Using a properly rated jack, raise the back of the vehicle and support the frame rails or trailer hitch crossmember with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE.
- Remove the (3) nuts for the upper coilover mount using a 14mm. [FIGURE 1]

FIG.1



FIG.2



- Carefully disconnect the wire loom from the lower control arm. [FIGURE 2]
- Remove the nut from the lower shock bolt using a 24mm and 30mm.
- Remove the bolt connecting the lower control arm to the frame using a 27mm. Carefully rotate the arm down out of the frame mount while holding the coilover. Once the control arm is loose from its mount, the coilover can be removed from the control arm by removing the lower bolt.

6. Mount the coilover to the frame using the supplied 3/8" hardware and a 9/16". [Torque to 35 ft-lbs] [FIGURE 3]

FIG.3



7. Lift the new coilover up and lower into the control arm. Use the supplied (197012) aluminum spacers on the inside and outside of the lower control arm. Slide the bolt in from the back side of the control arm. [FIGURE 4]

FIG.4



FIG.5



8. Using a floor jack, lift and guide the lower control arm into the frame pocket. Carefully install the bolt without damaging the threads. Leave the nut loose for now. [FIGURE 5]

9. Tighten the lower shock bolt to using a 15/16". [Torque to 150 ft-lbs]

10. Hold the reservoir up against the frame rail along with the reservoir mount plate. Mark the mounting hole position. Drill a 11/32" hole where you marked. Using the self tapping 3/8" hardware and a 9/16", thread the hole. Remove the self tapping bolt and mount the reservoir mount using the same bolt. [Torque to 12 ft-lbs] [FIGURE 6]

FIG.6



FIG.7



11. Mount the reservoir to its mount using the supplied hose clamps and a 5/16". [FIGURE 7]

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

13. Drive forward and backward a few feet (3-4 times) to allow the suspension to settle.

14. Tighten the bolt connecting the lower control arm to the frame using a 27mm. [Torque to factory spec]

15. 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.

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

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