ICON Vehicle Dynamics 91836E Installation Instructions

Lowered Rear 2.5 VS RR CDEV Coilover Kit, F-150 Lightning

Part number: 91836E

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91836E INSTALLATION INSTRUCTIONS

6-7-2023 REV.A

PART #	DESCRIPTION
91836E	22 LIGHTNING LOWERED REAR C/O 2.5 VS CDEV

COMPONENTS INCLUDED

(2) 194813E 22 LIGHTNING LOWERED REAR C/O 2.5 VS CDEV	(4) 611051 #36 1.188-2.750 STAINLESS HOSE CLAMP KIT

HARDWARE INCLUDED

(2) 250003 10.00 UNIVERSAL RESI MT PLATE	(2) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT
611019 HARDWARE KIT	
(6) 605101 3/8"-16 X 1.00" HHCS	(6) 605131 3/8" SPLIT LOCK WASHER
ADDITIONAL COMPONENTS	
(1) 255604-20 20-FT WIRE	(1) 255604-26 26-FT WIRE

TOOLS REQUIRED

JACK JACK STANDS TORQUE WRENCH DRILL 11/32" DRILL BIT 10MM SOCKET / WRENCH	15MM SOCKET / WRENCH 27MM SOCKET / WRENCH 30MM SOCKET / WRENCH 5/16" SOCKET / WRENCH 9/16" SOCKET / WRENCH

TECH NOTES

1. YOUR ICON COILOVER ASSEMBLIES COME FACTORY CHARGED TO 150 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. THE SHOCKS SHIP AT ICON'S RECOMMENDED RIDE HEIGHT. ADJUSTING BELOW 1.0" OF THREAD SHOWING WILL REDUCE RIDE QUALITY. DO NOT EXCEED 3.0" OF EXPOSED THREADS.



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 WARRAN TY POLICY.*

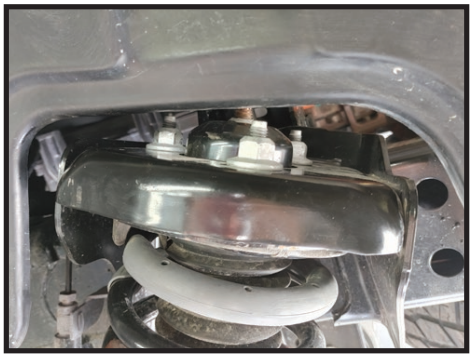
INSTALLATION

1. Using a properly rated jack, raise the front 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. Remove the front wheels/tires.

2. To remove the factory strut it may be necessary to loosen the 2 main suspension arm bolts to relieve bushing bind and allow the suspension to droop. If you are also installing the castor correction cam kit you will need to let the arm out of the frame pivot pockets also (Refer to instruction 95002 at this time).

3. Remove the (3) upper nuts securing the factory strut (DO NOT loosen the center nut. Damage or injury can occur). Remove the large lower bolt with 27mm or 30mm socket and remove the strut assembly. **[FIGURE 1 & 2]**

FIG.1



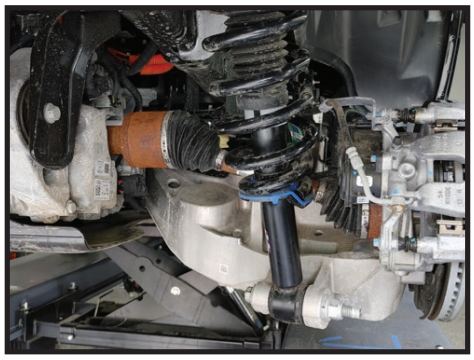


FIG.2

4. Install the coil over assembly into the upper frame bucket with the reservoir hose towards the rear of the vehicle. Secure with (3) 3/8" bolts and washers.

5. The lower eyelet bearing of the new coil over is very stiff when new. You may need to align it with the holes in the lower suspension arm. Use a large pry bar to pivot the bearing into alignment. There is a press in collar in the lower arm that is designed to collapse when tightened. you may need to pry it back out a small amount to fit the lower bearing.

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6. Secure the lower eyelet to the arm with the factory bolt. [Tighten to factory spec]

7. Temporarily attach the reservoir mounting bracket to the reservoir with the supplied hose clamps. Position the reservoir up on the side of the frame and mark the frame through the mounting hole. Drill a 11/32" hole for the self tapping mount bolt. **[FIGURE 3]**

FIG.3



8. Remove the bracket and hose clamps from the reservoir and secure to frame with the hose clamps under the bracket. Secure the reservoir to the bracket.

9. At this point please refer to the installation instructions for the IIC install kit for routing and wiring of the CDEV control cable.

NOTE: If you loosened the suspension arm pivots or installed a cam kit at the beginning of these instructions you will need to re-tighten them. This is best done at ride height and will also need to be adjusted for alignment.

10. Reinstall the wheels lower to the ground and torque lug nuts.



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®
PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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