ICON Vehicle Dynamics K22012 Installation Instructions

2.5-Inch Stage 2 Suspension System for Jeep Wrangler JL (2018-2022)

Part number: K22012

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22026 INSTALLATION INSTRUCTIONS

4-02-2018 REV.A

PART #	DESCRIPTION
22026	18-UP JEEP JL 2.5" LIFT REAR DUAL RATE SPRING KIT

COMPONENTS INCLUDED

(2) 124059 SWAY BAR LINK 10.250 OFFSET (2) 128001 18-UP JL REAR BUMP STOP SPACER (1) 128006 18-UP JL .25" REAR COIL SHIM	(2) 128513 18-UP JL 2.5" REAR COIL SPRING (1) 22026H 18-UP JL 2.5" REAR HARDWARE KIT

HARDWARE INCLUDED

22026H HARDWARE KIT

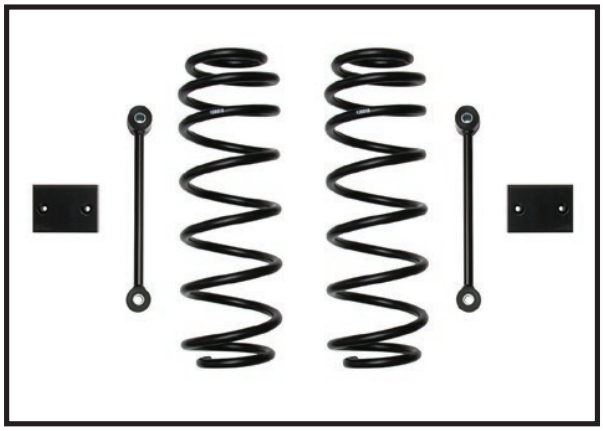
(4) 605075 5/16-18 X 1.500 FLATHEAD SCREW (4) 605076 5/16-18 C-LOCK NUT (3) 605016 5/16 FLAT WASHER (8) 297024 HAT BUSHING 1.005 X .620 X .755	(4) 139001 SLEEVE .625 X .508 X 1.625 (2) 605854 M12-1.75 X 70MM CAP SCREW (2) 605838 M12-1.75 FLANGED NYLOCK NUT

TOOLS REQUIRED

JACK JACK STANDS PLIERS FLATHEAD SCREW DRIVER TORQUE WRENCH	5/32" ALLEN WRENCH 1/2" SOCKET / WRENCH 16MM SOCKET / WRENCH 18MM SOCKET / WRENCH

TECH NOTES

1. THE SUPPLIED COIL SHIM IS USED TO ACCOUNT FOR THE DIFFERENCE IN HEIGHTS FROM SIDE TO SIDE AND CORRECT A PASSENGER SIDE LEAN.



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.*

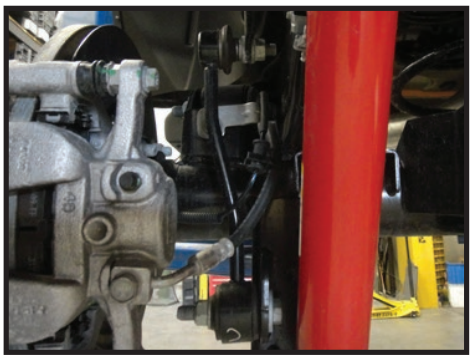
*** ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLATION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.*

INSTALLATION

1. Using a properly rated jack, raise the rear 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 rear wheels.

2. Remove the sway bar links from the axle using (2) 18mm. Remove the sway bar links from the sway bar using a 6mm allen wrench and an 18mm. Set the links aside as they will be reused in the front. **[FIGURE 1]**

FIG.1



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3. Remove the parking brake cable from the brake drum link using pliers. Remove the parking brake cable front the axle housing using a flathead screw driver, push the spring catch inward to release it from the mount. **[FIGURE 2 & 3]**

FIG.2



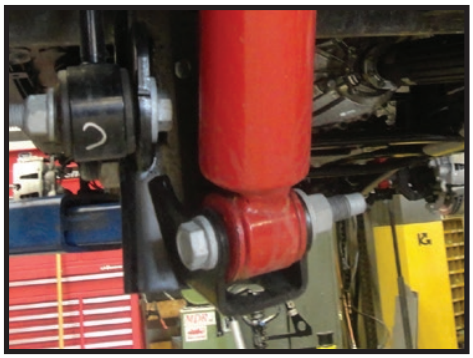


FIG.3

4. **RUBICON ONLY*** Disconnect the rear locker plug on the rear differential.

5. Loosen the lower shock mount bolt using an 18mm socket/wrench. **[FIGURE 4]**

FIG.4



6. Using a floor jack, lift the axle enough to remove the tension from the lower mount, then remove the shock bolts. Slowly lower the axle taking care to not overextend or damage any lines. Lower the axle enough to remove the tension from the coil springs.

7. Remove the coil springs and remove the upper spring isolator from the coil spring. **[FIGURE 5 & 6]**

FIG.5





FIG.6

8. Place the upper spring isolators on the supplied (128513) spring and install. Install the coil spring with the part number right side up to ensure that the spring is not installed upside down. Check to make sure the end of the pigtail is seated properly on the isolator. Install the supplied coil spring shim on the passenger side, on top of the isolator.

9. Lift the axle while locating the pin on the upper spring isolator into the hole in the spring seat. Also, make sure the center of the isolator catches and centers on the cone in the spring seat. If installed incorrectly, the spring isolator will not be centered on the cone of the spring seat and may result in damage as well as lift height variance. **[FIGURE 7]**

FIG.7





FIG.8

10. Mount the ICON shocks using the supplied hardware and two 18mm socket/wrenches. [Torque to factory spec] **[FIGURE 8]**

11. Fasten the bump stop spacers to the bump stop striker pads using the supplied 5/16" hardware. Use a 5/32" allen and a 1/2" open end wrench. [Torque to 17 ft-lbs]

12. Grease the rear sway bar link bushings and sleeves then assemble the rear sway bar links. Mount the sway bar links using the supplied hardware with a 16mm and 18mm socket/wrench. Ensure that the head of the bolt is facing towards the wheel. [Torque to 65 ft-lbs]. Use the factory lower bolt to mount the sway bar link to the axle. [Torque to factory spec] **[FIGURE 9 & 10]**

FIG.9





FIG.10

13. **RUBICON ONLY*** Plug in the rear locker connector on the rear differential.

14. Connect the parking brake cable to the axle mount and the brake drum link. **[FIGURE 11]**

FIG.11



15. Install the wheels and lower the vehicle to the ground. [Torque lugs 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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ICON VEHICLE DYNAMICS LIMITED LIFETIME WARRANTY

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.

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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.

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