# ICON Vehicle Dynamics K22011 Installation Instructions

2.5-Inch Stage 1 Suspension System for Jeep Wrangler JL (2018-2022)

Part number: K22011

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# 22025 INSTALLATION INSTRUCTIONS

*9-17-2019 REV.B*

| PART # | DESCRIPTION |
|---|---|
| 22025 | 18-UP JL/20-UP JT 2.5" LIFT FRONT DUAL RATE SPRING KIT |

## COMPONENTS INCLUDED

| | |
|---|---|
| (2) 128503 JL/JT FRONT DUAL RATE SPRING<br>(1) 128005 JL/JT .375" FRONT COIL SHIM | (1) 22025H JL/JT FRONT COIL HARDWARE KIT |

## HARDWARE INCLUDED

22025H HARDWARE KIT

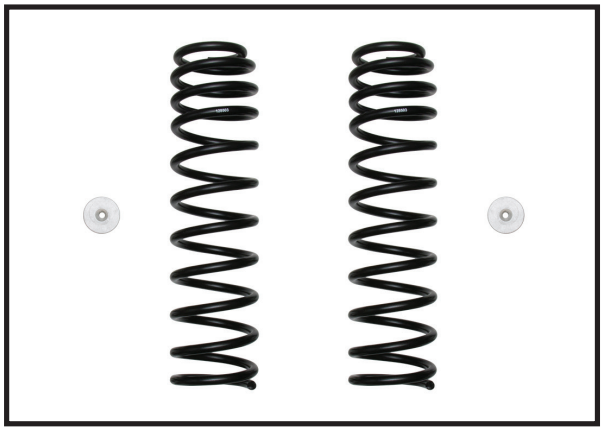
| | |
|---|---|
| (2) 127200 JL/JT FRONT BUMPSTOP SPACER 1"<br>(2) 605111 3/8-16 X 1.750 FLATHEAD SCREW<br>(2) 605122 3/8-16 C-LOCK NUT | (2) 605133 3/8 FLAT WASHER<br>(2) 605971 BLACK CABLE TIE W/ OVAL TREE |

## TOOLS REQUIRED

| | |
|---|---|
| JACK<br>JACK STANDS<br>TORQUE WRENCH<br>6MM ALLEN WRENCH | 5/32" ALLEN WRENCH<br>9/16" SOCKET / WRENCH<br>15MM SOCKET / WRENCH<br>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 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.

***2***. Remove the sway bar links from the axle using (2) 18mm wrenches. Remove the front sway bar links from the sway bar using a 6mm allen wrench and an 18mm. **[FIGURE 1]**

**FIG.1**



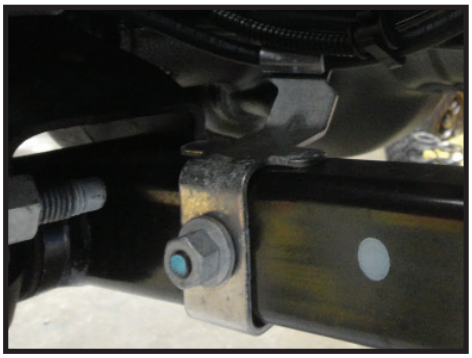


**FIG.2**

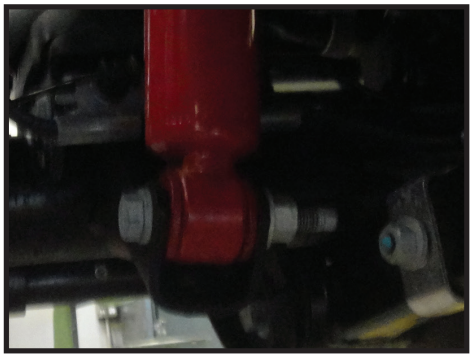
***3***. Remove the nut from the brake line bracket, then slide the bracket off of the stud on the lower link using a 15mm. Slide the brake line in the bracket to gain some extra slack. **[FIGURE 2]**



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***4***. Remove the nut from the front lower shock mount using an 18mm. **[FIGURE 3]**

FIG.3



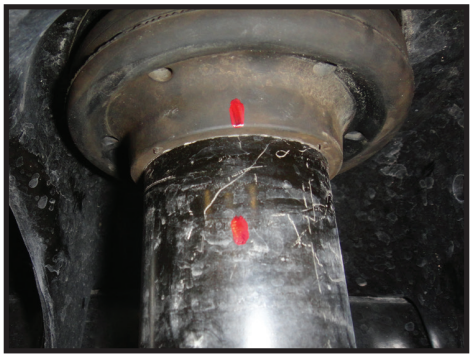


FIG.4

***5***. Support the axle with a jack to remove the tension from the lower shock mount and remove the factory shock bolt. **RUBICON ONLY*** Disconnect the front locker plug from the differential and remove the clip from the upper link arm.

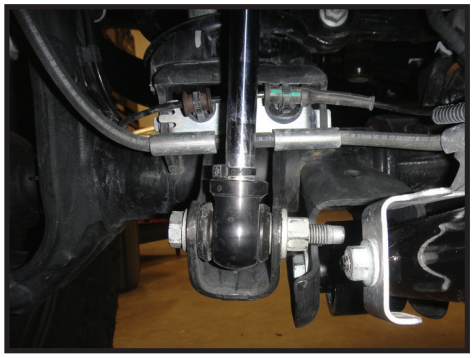
***6***. With a marker, make a line on the coil isolator and coil bucket to indicate isolator clocking. Carefully lower the front axle until the coil springs can be removed. Use caution to not overextend any brake or ABS lines when lowering the axle. **[FIGURE 4]**

***7***. Remove the front coil springs. Make sure the upper and lower coil isolators are still in place with locating prongs in holes on driver's side. Remove locating pins from passenger side isolator to install supplied shim. Install the supplied (128005) coil shim between the upper isolator and coil bucket on the passenger side. Remove tip from the factory coil isolator so that the shim can be installed.

***8***. Install the (128503) coil springs, taking care to seat the coil properly in the upper and lower isolators as well as align the mark made in step 6 on passenger side. It will be necessary to lower the front axle further to install the new coils. Be careful to not damage any lines when lowering the axle. Verify that the coil springs are properly oriented.

***9***. With the new coil springs installed, lift the axle enough to install the longer shocks using the factory hardware and an 18mm. [Torque to factory spec] **[FIGURE 5]**

FIG.5



***10***. Slide the brake line in the steel bracket to gain extra slack with the suspension fully extended. Connect the brake line bracket to the front lower link using the factory nut and a 15mm. [Torque to factory spec]

***11***. Slide the bump stop spacer through the coil spring. Make sure that the spacer is centered on the striker pad. Fasten the bump stop spacer to the striker pad using the supplied 3/8" hardware. On the passenger side, the nut is hard to reach. It is helpful to remove the brake line bracket from the back side of the coil spring mount using a 10mm. [Torque to 30 ft-lbs] **[FIGURE 6]**

FIG.6



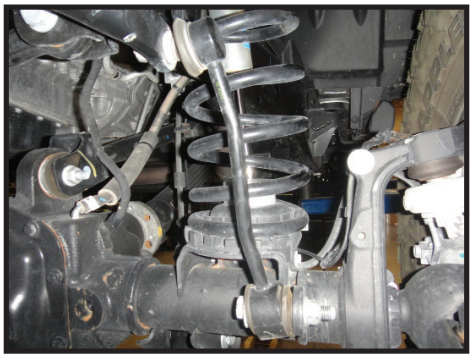


FIG.7

***12***. ***WRANGLER JL ONLY*** Mount the factory rear sway bar links (to the front axle housing) using factory hardware and a 6mm allen wrench and an 18mm. [Torque to factory spec] **[FIGURE 7] RUBICON ONLY*** Use the supplied oval tree cable ties to allow extra slack for the front differential locker wiring harness at full suspension extension.

**NOTE:** ***WRANGLER JL ONLY*** ICON supplies longer rear sway bar links with the rear coil spring kit (22026).

***13***. Install the wheels and lower the vehicle back 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.***

## *ICON VEHICLE DYNAMICS LIMITED LIFETIME WARRANTY*

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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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