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PART #	DESCRIPTION
52750	2008-UP LC 200 SERIES REAR 1.75" DUAL RATE SPRING KIT

COMPONENTS INCLUDED	
(2) 158513 08+ LC 200 REAR DUAL RATE COIL	(1) 155109 10MM COIL SPACER
HARDWARE INCLUDED	
N/A	
TOOLS REQUIRED	
JACK JACK STANDS TAPE MEASURE TORQUE WRENCH 4.5MM ALLEN WRENCH	12MM SOCKET / WRENCH 17MM SOCKET / WRENCH 19MM SOCKET / WRENCH 21MM SOCKET / WRENCH 24MM SOCKET / WRENCH
TECH NOTES	
<p>1. FAILURE TO CLOSE KDSS BYPASS VALVES AFTER INSTALL WILL CAUSE STABILITY CONTROL ISSUES AND DASH LIGHTS TO ACTIVATE.</p> <p>2. ADVERTISED LIFT HEIGHT IS BASED OFF OF A STOCK 200 SERIES LAND CRUISER, LIFT HEIGHTS MAY VARY DEPENDING ON SETUP.</p> <p>3. THE SUPPLIED 10MM SHIM CAN BE USED TO OFFSET ANY SIDE LEAN ISSUES AFTER INSTALL.</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

1. Deactivate the KDSS: On the inside of the left frame rail (driver side) you will find a hydraulic valve block that the KDSS lines go to. On the bottom there are 2 set screws that are normally in the closed position. Using a 4.5mm allen wrench, loosen both set screws 2 turns each. This will allow the suspension to extend equally without the sway bars fighting its movement while work is performed. [FIGURE 1]

FIG.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.
- Using a jack, support the rear axle then disconnect the sway bar links (12mm, 19mm) and shocks from the axle (17mm). Disconnect the ride height sensor linkage connected to the driver side of the sway bar (10mm). Remove the clips that hold the ABS wires and brake lines to the axle. This is necessary to create enough room to install the new springs.
- Remove the track bar bolt at the axle to allow the rear end to cycle to full extension (19mm).
- Remove the factory springs. Due to rubber bushing stiffness you may need to pull down on the suspension. If it is still too stiff to remove the spring then you may loosen the bolts on the control arms (19mm, 21mm, 24mm).
- Slowly lower the axle, the coils will unload from the mounts so that they can be removed. Remove the rubber isolator/bump stop from the factory coil and install it on the new coils.
- Install the ICON springs with the pig tail in the same orientation as the factory springs, make sure the springs are seated properly.

8. Reinstall the brake lines and ABS wires into their clips. Reinstall the sway bar links (12mm, 19mm) shocks (17mm), and track bar (19mm). Reconnect the ride height sensor of the driver side sway bar (10mm). [FIGURE 2]

FIG.2



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

10. If you loosened the control arm bolts, retighten them when the vehicle is sitting on the ground and at ride height (19mm, 21mm, 24mm). [Torque to factory spec]

11. Close the KDSS bypass valve: With the vehicle sitting on the ground and level, screw both set screws in until they bottom (4.5mm allen). [FIGURE 3]

FIG.3



NOTE: If vehicle has a side-lean, install the 10mm spacer supplied in kit. In our experience, the driver side is most often the low side.

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

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.



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