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PART #	DESCRIPTION
214201	14-UP RAM 2500 4.5" FRONT DUAL RATE SPRING KIT

COMPONENTS INCLUDED	
(1) 218410D 14+ RAM HD FRONT 4.5" DUAL RATE COIL (DRVR) (1) 218410P 14+ RAM HD FRONT 4.5" DUAL RATE COIL (PASS) (2) 605108 3/8-16 X 1.250 BOLT (1) 611068 14-UP RAM HD E-BRAKE RELOCATION KIT	(2) 214008 03+ RAM HD BUMP STOP RETAINER (1) 214108 14+ RAM HD BRAKE BRACKET (DRVR) (1) 214109 14+ RAM HD BRAKE BRACKET (PASS) (2) 217124 14+ RAM 2500 2.13" FRONT BUMP-STOP SPACER
HARDWARE INCLUDED	
611068 E-BRAKE RELOCATION KIT	
(1) 210002 14-UP RAM HD E-BRAKE BRACKET (1) 605101 3/8-16 X 1.000 HHCS (1) 605121 3/8-16 NYLOCK NUT	(2) 605133 3/8 FLAT WASHER (1) 605839 M10-1.5 X 20MM BHCS
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH 6MM ALLEN WRENCH 9/16" SOCKET / WRENCH	8MM SOCKET / WRENCH 10MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 27MM SOCKET / WRENCH
TECH NOTES	
<p>1. FAILURE TO INSTALL (214108, 214109) BRACKETS & USE OF LARGER SHOCKS MAY LEAD TO BRAKE LINE COLLISION CAUSING FAILURE.</p> <p>2. ICON 4.5" SPRING KIT (214201) REQUIRES USE OF ICON 4.5" BOX KIT (214205).</p> <p>3. THIS SPRING KIT INCLUDES A SWAY BAR DROP BRACKET KIT AND EMERGENCY BRAKE CABLE RELOCATION KIT. THESE ITEMS MUST BE USED TO ALLOW FOR THE INSTALLATION OF ICON'S LONGER REAR SHOCK ABSORBERS.</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 INSTALLTION 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. Open the hood and disconnect both negative battery terminals using an 8mm socket/wrench.
2. Remove the sway bar links from the sway bar using an 8mm and 18mm socket/wrench. Leave the links connected to the differential. [FIGURE 1]

FIG.1



FIG.2



3. Remove the upper track bar bolt from the frame using a 27mm socket/wrench. Use caution as the truck may shift when the bolt is removed. [FIGURE 2]
4. Using a properly rated jack (or properly rated vehicle lift), raise 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.

5. Support the axle housing with a heavy duty jack. With the axle supported, remove the lower shock bolt using a 21mm socket/wrench. The differential is extremely heavy and is limited by the shocks, so make SURE that the differential is securely supported by the jack. [FIGURE 3]

FIG.3



6. Slowly lower the jack until the coil springs become loose enough to slide out. Be careful not to damage any brake lines, ABS wires or differential locker wires (Power Wagon only).

7. Slowly lower the axle enough to install the new coil springs.

8. Slide the new springs into place. Make sure the coil marked "D" goes on the DRIVER side, and the coil marked "P" goes on the PASSENGER side. This is critical for proper coil fitment. Be sure the coil isolator is installed on the top of the coil with the locator nipple in the frame hole. [FIGURE 4]

FIG.4



9. Slowly raise the axle just before the springs start to compress. Make sure the springs are properly seated before compressing them.

10. Lift the front axle enough to allow for the installation of the front shocks.

11. Install the supplied brake line tab on the brake line and mount the brake line to the differential using a 10mm socket/wrench. [Torque to factory spec] [FIGURE 5]

FIG.5



12. Pull or pry the stock bump stop out of its pocket.

13. Slide the bump stop retainer plate (214008) up and backwards. It should lock into place and catch the original retaining tabs. [FIGURE 6 & 7]

FIG.6



FIG.7



14. Mount the bump stop spacer (217124) to the frame threading it into the retainer plate using the supplied 3/8" hardware, tighten using a 9/16" socket/wrench. [Torque to 30 ft-lbs] Lightly grease and press the bump stop into the pocket. [FIGURE 8 & 9]

FIG.8



FIG.9



15. Connect the sway bar to the stock sway bar links using an 8mm and 18mm socket/wrench. [Torque to factory spec]

16. Remove the factory emergency brake bracket from the top of the rear differential using a 14mm. Mount the supplied emergency brake cable relocation bracket to the differential using the factory bolt and the supplied (605839) bolt. Tighten using a 14mm and 6mm allen wrench. [FIGURE 10]

FIG.10



17. Install front wheels and lower vehicle back to the ground. [Torque to factory spec]

18. 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.

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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