

7929 Lincoln Ave. Riverside, CA 92504
 Phone: 951.689.ICON | Fax: 951.689.1016

PART #	DESCRIPTION
IVD2122	21-UP RAM TRX LEVELING KIT

COMPONENTS INCLUDED	
(2) 217521 21-UP TRX C/O SPACER (2) 217522 21-UP TRX COIL SPRING SPACER	(1) IVD2122H HARDWARE KIT
HARDWARE INCLUDED	
IVD2122H HARDWARE KIT	
(6) 605221 7/16-20 NYLOCK NUT (6) 605230 7/16 FLAT WASHER	(6) 605234 7/16-20 X 1.75 PRESS IN STUD (1) 605968 BLUE THREAD LOCKER 2ML BULLET
TOOLS REQUIRED	
JACK JACK STANDS CUTTING WHEEL TORQUE WRENCH DRILL HAMMER PUNCH SPRING COMPRESSOR	10MM SOCKET / WRENCH 13MM SOCKET / WRENCH 16MM SOCKET / WRENCH 20MM SOCKET / WRENCH 21MM SOCKET / WRENCH 30MM SOCKET / WRENCH 5/8" SOCKET / WRENCH DRILL BIT: 29/64"
TECH NOTES	
<p>1. FOR 2.125" LIFT INSTALL BOTH 217521 & 217522. 1.5" LIFT INSTALL JUST 217522 AND SKIP STEPS 10, 12, 13 AND 18. 5/8" OF LIFT INSTALL 217522 AND SKIP STEPS 14, 15 AND 16</p> <p>2. PLEASE REFER TO "RIDE HEIGHT ADJUSTMENT OPTIONS" ON PAGE 5.</p>	



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. Lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the front of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the wheels.

2. Remove front skid plate using a 16mm socket [FIGURE 1]



FIG.1

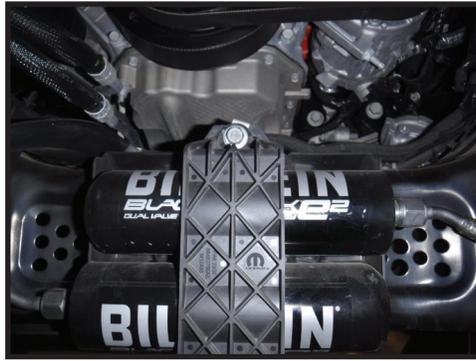
3. Remove front coil over electrical connection [FIGURE 2]



FIG.2

4. Using a 13mm socket loosen the bolt that holds the reservoirs cover in place take care to make sure they do not fall once removed. [FIGURE 3]

FIG.3



5. Remove the sway bar link from the sway bar using a 21mm and 10mm wrench. [FIGURE 4]

FIG.4



6. Loosen the taper on the upper ball joint and the tie rod end using an 21mm socket/wrench. Use a hammer to separate the upper ball joint taper and tie rod end. Take care not to damage the threads. Support the spindle so that it does not over extend the CV joints when detached. [FIGURE 5]

FIG.5



7. Using a 10 mm wrench remove the ball off of the side of the control arm [FIGURE 6]

FIG.6



8. Using a 16 mm wrench remove the top three nuts that secure the coilover in place. Once completed remove the lower coilover bolt using a 30mm sock/wrench. The coil over can be completely removed at this point. [FIGURE 7 & 8]

FIG.7



FIG.8



9. With the factory coil over removed mark the upper and lower mount on the coilover. This will aid in reassembly and installation of coil over later [FIGURE 9 & 10]

FIG.9



FIG.10



10. Compress the spring using a spring compressor and remove the upper coil over mount using a 20mm socket. [FIGURE 11]

FIG.11



11. Remove upper mount from the coilover. Take off the boot and factory rubber isolator. Once the boot is removed knock the three 10mm studs out with a hammer. [FIGURE 12]

FIG.11



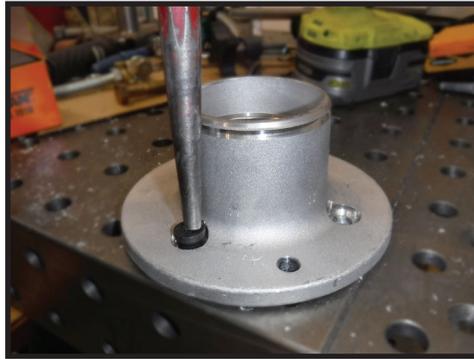
12. With studs removed use a 29/64th drill bit and drill out the existing three holes. [FIGURE 13]

FIG.13



13. Once all three holes are drilled install 605234 studs into the top mount using a hammer and punch. Make sure studs are pressed in all the way and are flat against the machined surface. [FIGURE 14]

FIG.14



14. Take the boot that was previously removed and trim off edge. [FIGURE 15 & 16]

FIG.15



FIG.16



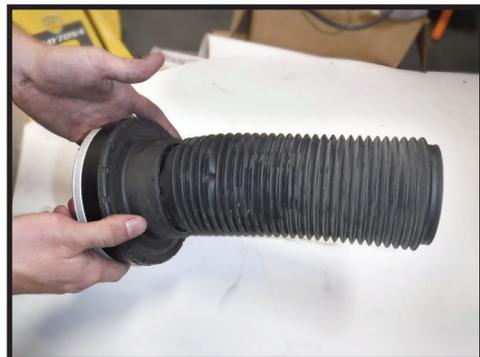
15. Taking a cut off wheel remove pin from factory rubber isolator.

16. Install 217522 and the factory rubber isolator on to the coilover upper mount once complete install the factory shock boot. [FIGURE 17 & 18]

FIG.17

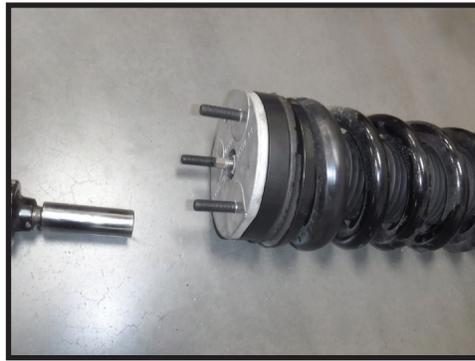


FIG.18



17. Reinstall upper coilover mount assembly on to the coilover using the marks that were made during disassembly. [FIGURE 19]

FIG.19



18. Install 217521 on to the top of the coilover over the three studs.

19. When reinstalling the coilover put the top in to the holes in the upper frame mount and loosely install the 7/16-20 nuts (609221) and washers (605230) provided then install the lower bolt leaving it hand tight. Once lower bolt is installed torque 7/16-20 nut to 80 ft-lbs.

20. Reinstall upper ball joint and tie rod and using a 21mm wrench. [Torque to factory spec]

21. Reinstall ball stud on to the UCA using a 10mm wrench

22. Reinstall the electrical connection and the coil over reservoir on to the mount.

23. Repeat steps for passenger side.

24. Once both sides are complete reinstall the swaybar links using a 21mm and 10mm wrench. [Torque to factory spec]

25. Reinstall reservoir mount using a 13mm socket wrench.

26. Reinstall lower skid plate using 16mm socket wrench.

27. Re-install wheels and tighten lug nuts torque to factory spec.

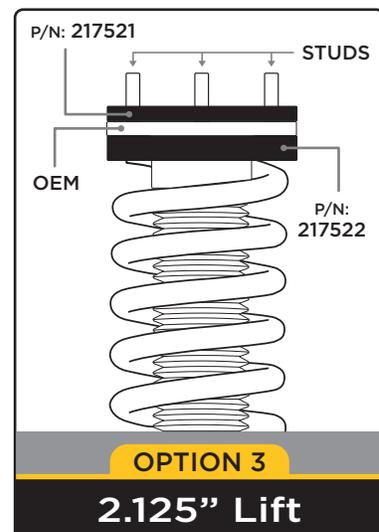
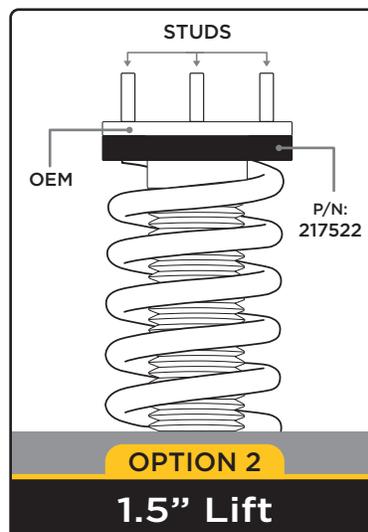
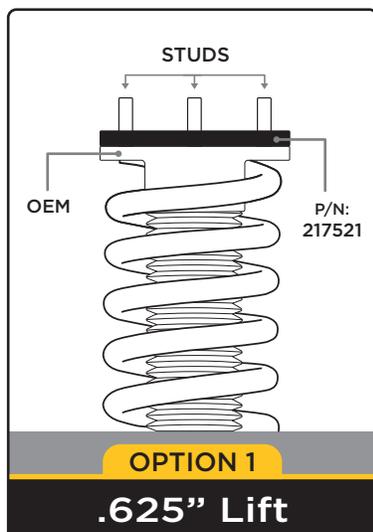
28. Set truck down and tighten the lower coilover bolt and torque to factory spec.

29. Have the truck professionally aligned.

VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.

RIDE HEIGHT ADJUSTMENT OPTIONS



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.



ICON VEHICLE DYNAMICS®
PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

7929 Lincoln Ave. Riverside, CA 92504 Phone: 951.689.ICON Fax: 951.689.1016
www.iconvehicledynamics.com



FOLLOW US ON FACEBOOK!

