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PART #	DESCRIPTION
57807CP	98-07 LAND CRUISER 100 SERIES 0-3" FRONT 2.5 VS RR CDCV

COMPONENTS INCLUDED	
(2) 98-07 LAND CRUISER 100 SERIES 0-3" FRONT 2.5 RR CDCV UPKG REV B (2) 250006 7.5 UNIVERSAL 90 DEGREE RESI MT	(4) 611006 9/16 HD STEM BUSHING KIT (1) 611051 #36 1.188-2.750 STAINLESS HOSE CLAMP KIT (4)
HARDWARE INCLUDED	
(2) 605131 3/8" SPLIT LOCK WASHER (2) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT	(2) 605807 M8-1.25 X 16MM HHCS
611006 HARDWARE KIT	
(1) 250200 BUSHING RETAINER 1.900 X .572 X .134 (1) 250201 BUSHING RETAINER 1.900 X .510 X .134 (1) 255200 STEM BUSHING 9/16	(1) 605809 M12-1.25 JAM NUT THIN (1) 605810 M12-1.25 NUT 19MM W X 10MM
TOOLS REQUIRED	
JACK JACK STANDS 8MM NUT DRIVER DRILL 11/32" METAL DRILL BIT TORQUE WRENCH	14MM SOCKET / WRENCH 19MM SOCKET / WRENCH 21MM SOCKET / WRENCH 30MM SOCKET / WRENCH 9/16" SOCKET / WRENCH
TECH NOTES	
1. YOUR ICON SHOCK ASSEMBLIES COME FACTORY CHARGED TO 250 PSI. RELEASING NITROGEN PRESSURE MAY LEAD TO SHOCK MALFUNCTION AND REDUCED RIDE QUALITY. FAILURE CAUSED BY LOW NITROGEN PRESSURE IS NOT COVERED UNDER ICON'S WARRANTY POLICY.	
2. INSTALL STEM BUSHINGS AND HARDWARE AS SHOWN IN THE DIAGRAM. FAILURE CAUSED BY INCORRECT INSTALLATION OF STEM BUSHINGS AND HARDWARE IS NOT COVERED UNDER ICON'S WARRANTY POLICY.	

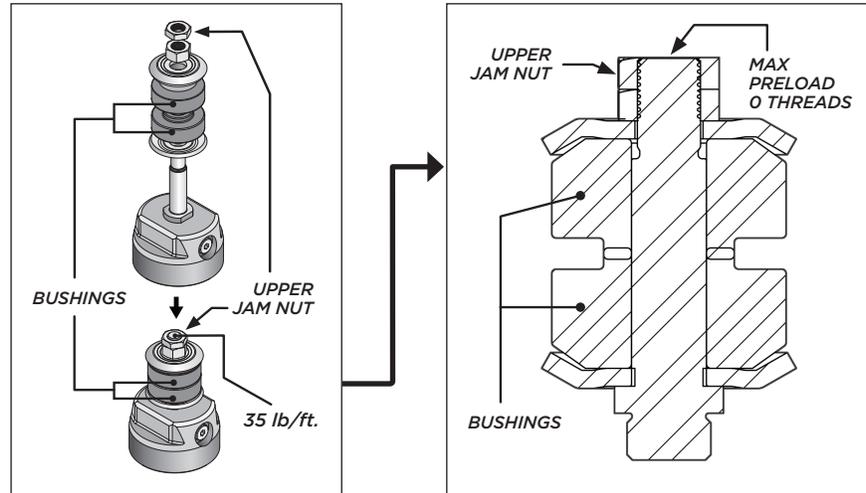


WARNING!
** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!
** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER 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. ENSURE TRUCK IS IN GEAR OR IN PARK, SET PARKING BRAKE, TURN OFF ENGINE AND CHOCK REAR TIRES!
2. Jack up the front of the truck and support with jack stands under the frame rail and remove the wheels. NEVER WORK UNDER AN UNSUPPORTED VEHICLE.
3. To prevent over extension of the suspension while working on it remove the torsion bar tension at the rear torsion bar adjuster. Measure the length of the bolt protruding from the adjuster on both sides and record this measurement to reset ride height later. Loosen the bolts too fully to remove tension, 30mm socket.
4. Remove the nuts from the upper shock mount stem.
5. Loosen and remove the lower shock mounts bolt and remove the OEM shock.
6. Install the shock stem washer and bushing onto the top of the shock assemblies as follow: Washer (cupped up) then Bushing. Install the shock up through the OEM shock mount (Reservoir manifold/hose fitting should be oriented to the front of the vehicle)
7. Install the lower shock eye in the arm: there are two spacers in the lower eye, the short one goes toward the front of the vehicle. Secure with factory hardware.

8. Make sure the upper stem is centered in its hole and jack up on the lower A-arm slightly until the shock just starts to compress, this will help preload the upper stem bushing. Install the remaining bushing and washer (cupped down) on the stem followed by the large stem nut. Tighten the nut until 4-5 threads are showing through the nut. Install the jam nut and tighten to 35 lb/ft. (See diagram)



HEAVY DUTY STEM BUSHING DIAGRAM & ASSEMBLY

9. On the passenger's side there is a 8mm threaded hole near the front upper control arm pocket that will be used to secure the reservoir mounting bracket. The drivers side does not have this hole. Using the passenger's side as a reference mark the corresponding location on the driver side and drill an 11/32" hole.

10. Place the bracket on the frame so that it goes around the front of the A-arm mount and install through the lower of the 2 holes using the supplied 8mm bolt and washer on the passenger's side and the 3/8" self-tapping bolt on the driver's side. Leave slightly loose.

11. Fasten the reservoir to the bracket with the provided hose clamps such that the band of the clamp locates in the notches on the bracket and in the grooves on either end of the reservoir cylinder. [FIGURES 1 & 2]

FIG.1



FIG.2



12. Rotate the reservoir and bracket so that the reservoir is just over the top of the frame rail and tighten both the clamps and the bracket mount bolt.

13. Reset the torsion bar adjusters back to their original preload setting.

14. Reinstall wheels and carefully place vehicle back on the ground.

VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.

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

2.5 VS SERIES SHOCK & COILOVER TECHNICAL INFORMATION

MAINTENANCE

ICON shock absorbers are a high quality rebuildable race style shock absorber designed for optimal performance. With a unit of this caliber on your vehicle, routine maintenance is required to keep them looking and operating in like new condition. Residual oil and assembly lube may be present at all seal paths from the factory out of the box and is considered normal. Pooling of oil however is not acceptable at any time and one should contact the ICON dealer where purchased.

BELOW ARE GUIDELINES BASED ON HOW YOU USE YOUR VEHICLE BUT YOUR MILEAGE MAY VARY:

STREET USE:

- Send in for factory servicing every 40,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Remove any buildup of road salt, mud, or debris from shocks and coil springs anytime accrued
- Clean with mild soap and water with each oil change or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure yearly. (252004 charge needle assembly available at any ICON distributor)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

STREET/DIRT:

- Send in for factory servicing every 15,000 miles or if a leak develops, ride quality decreases, or they begin to make excessive noise.
- Clean with mild soap and water with each oil change, offroad trip, or anytime you notice build up.
- Wax the cylinders yearly with automotive wax to prevent corrosion.
- Check nitrogen pressure each dirt outing. (252004 charge needle assembly available at any ICON distributor)
- Check bearings for excessive wear yearly.
- DO NOT apply any type of lube to the upper and lower bearings.

DIRT USE:

- Send in for factory servicing every 1,000 miles.
- Check nitrogen pressure each outing. (252004 charge needle assembly available at any ICON distributor)
- Remove any buildup of mud or debris from shocks and coil springs after every outing.

SELF-SERVICE:

- Contact ICON for service kits & tools at (951) 689-4266.

PRODUCT REGISTRATION

Please visit: <http://www.iconvehicledynamics.com/tech-support/registration/> to register your product.

ICON VEHICLE DYNAMICS SHOCK ABSORBER WARRANTY

This shock absorber has a 1 year warranty against any manufacturer's defects. If a shock fails within the initial year of ownership, the shock must be shipped to ICON Vehicle Dynamics for inspection and service. If a shock is inspected and it has been determined the shock failed due to neglect, damage caused by improper installation or any other reason besides "normal wear and tear", the owner of said shock is responsible for all service costs. This includes labor, parts, and shipping.

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.

To send a shock in for warranty please visit our website <http://www.iconvehicledynamics.com/tech-support/shock-service/>



ICON VEHICLE DYNAMICS®
PERFORMANCE SUSPENSION SYSTEMS AND SHOCK ABSORBERS

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