

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

PART #	DESCRIPTION
57810P	07-UP FJ/03-UP 4RNR/03-UP GX 1-3" REAR 2.5 VS RR PAIR

### COMPONENTS INCLUDED

(2) 154969R 07+ FJ/03+ 4RUNNER 0-3" REAR 2.5 RR (DRV)	(2) 611007 9/16" MED DUTY STEM BUSHING KIT
(2) 250002 7.50 UNIVERSAL RESI MT PLATE	(1) 611051 HOSE CLAMP KIT

### HARDWARE INCLUDED

(1) 605033 #14-14 X .750 #3 HWH SELF DRILL SCREW	(2) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT
(2) 605131 3/8" SPLIT LOCK WASHER	(2) 605934 #12 (3/4) ADEL CLAMP

#### 611007 HARDWARE KIT

(2) MED DUTY 9/16" ID STEM BUSHING	(1) MED DUTY 12MM ID STEM WASHER
(1) MED DUTY 9/16" ID STEM WASHER	(1) M12-1.25 LOCK NUT

#### 611051 HARDWARE KIT

(4) STAINLESS STEEL HOSE CLAMP
--------------------------------

### TOOLS REQUIRED

JACK	8MM NUT DRIVER
JACK STANDS	3/8" SOCKET (FOR IMPACT DRIVER)
DRILL	10MM SOCKET / WRENCH
CENTER PUNCH	14MM SOCKET / WRENCH
21/64 DRILL BIT	15MM SOCKET / WRENCH
LOCKING PLIERS	17MM SOCKET / WRENCH
TORQUE WRENCH	19MM 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. DRIVER AND PASSENGER SHOCKS DIFFER ONLY BY RESERVOIR STICKER ORIENTATION
3. KDSS EQUIPPED VEHICLES WILL REQUIRE THE SYSTEM TO BE DEACTIVATED BEFORE INSTALLATION, AND REACTIVATED AFTER INSTALLATION IS COMPLETE. REFER TO FACTORY SERVICE MANUAL FOR MORE INFORMATION.



### WARNING!

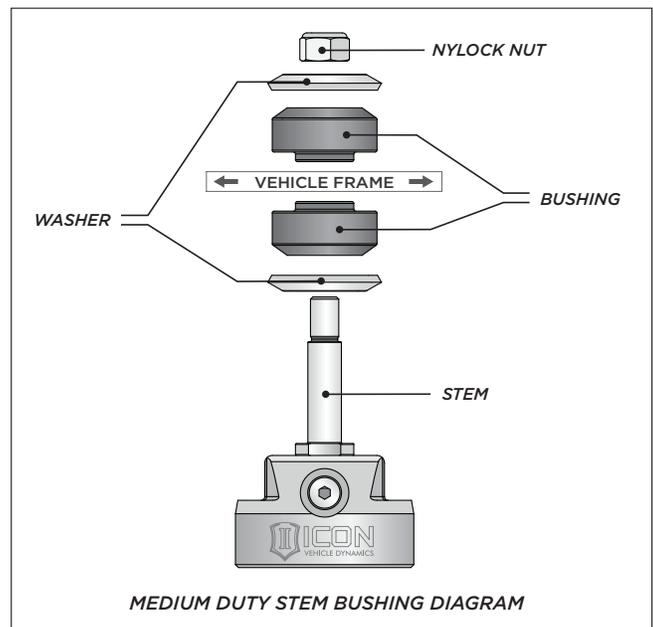
**\*\* READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!**

**\*\* 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. If your vehicle is equipped with Kinetik Dynamic Suspension System (KDSS), deactivate the system before performing ANY work to the vehicle. Refer to the factory service manual for information on how to deactivate this system. KDSS will need to be reactivated once the installation is complete.
2. 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.
3. Place a floor jack under the axle housing and slightly raise the jack to remove tension from the shock. Loosen and remove the lower shock bolt using a 17mm socket/wrench. Make sure the axle is well supported, then remove the stem bushing nut and upper stem bushings using a 17mm socket/wrench.
4. Remove the rear shock.
5. Install the lower shock mount as follows: shock spacer, shock rod end, shock spacer, shin guard (56100)\*, factory stud bolt. [Torque to factory spec] \*(56100 shin guard optional) **NOTE:** If factory shock mount has been deformed, sand slightly to allow for proper spacer fitment.
6. Use a jack to raise the axle housing far enough to guide the shock stem into position in the factory shock mount. Install stem hardware as seen in diagram. Use a 19mm socket/wrench to install the lock nut until lock is engaged. Do not overtighten bushing assembly as this can lead to premature bushing wear. Failure caused by incorrect installation of bushings is not covered under ICON's warranty policy.
7. Use a 10mm socket/wrench to remove the (4) bolts and rivet clip that holds the driver side mud flap in place. Remove mud flap.



**8.** Reservoir hose should be oriented towards the rear of the vehicle. Mount the remote reservoir to the reservoir mount plate (250002) using the provided (605931) hose clamps. Be sure to install the hose clamp to the ends of the reservoir within the machined areas on the outer surface of the remote reservoir.

**9.** Orient the reservoir mounting bracket on frame rail forward of the body mount and mark center of the hole. The remote reservoir and bracket should not come in contact with any part of the frame or frame brackets. The reservoir bracket bolt can be measured to within the following approximate dimensions: 2" up from the bottom of the frame rail and 4" forward of the body mount. [FIGURE 1]

**FIG.1**



**10.** Using the hole in the bracket as a guide, center punch and drill to 21/64".

**11.** Use a 9/16" socket/wrench to thread the supplied (605144) self tap bolt into the frame rail, minimum 2 full rotations.

**12.** Remove the (605144) self tap bolt and secure remote reservoir bracket. [Torque to 30ft-lbs]

**13.** Place reservoir in the reservoir mounting bracket with the ICON shield logo oriented up into the fender well and secure reservoir with the supplied (605931) hose clamps using an 8mm nut driver. [FIGURE 2]

**FIG.2**



**FIG.3**



**14.** Install the supplied (605934) adel clamp at the center of the remote reservoir hose in the fender well. Use a 3/8" socket to drive the #14 self drill/tap screw (605033) and secure adel clamp to the pinch weld above the frame in the wheel well. [FIGURE 3]

**15.** Use a 10mm socket/wrench to reinstall the mud flap and rivet clip.

**16.** Repeat steps 3-15 on opposite side.

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

***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

7929 Lincoln Ave. Riverside, CA 92504 Phone: 951.689.ICON Fax: 951.689.1016  
[www.iconvehicledynamics.com](http://www.iconvehicledynamics.com)



**FOLLOW US ON FACEBOOK!**

