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PART #	DESCRIPTION
71660	21 GM SUV REAR 2.5 VS RR COILOVER KIT

COMPONENTS INCLUDED	
(1)174960RD 21-23 GM SUV REAR 2.5-3.5" CO 2.5 VS RR DRV R (1)174960RP 21-23 GM SUV REAR 2.5-3.5" CO 2.5 VS RR PASS	(1) 611019 COILOVER HARDWARE KIT (1) 611051 #36 1.188-2.750 STAINLESS HOSE CLAMP KIT (4)
HARDWARE INCLUDED	
(2) 250014 8.5 FACE OFF SET RESI MOUNT (2) 605144 3/8-12 X .750 FLANGED SELF TAP BOLT CZINC (6) 605101 3/8-16 X 1.000 HHCS GR8 YZINC	(8) 605131 3/8 SPLIT LOCK WAS GR8 YZINC (6) 605133 3/8 SAE FLAT WASHER GR8 YZINC
TOOLS REQUIRED	
FLOOR JACK JACK STANDS SHARPIE DRILL 11/32 DRILL BIT	T15 TORX 9/16 SOCKET/WRENCH 5/16 NUT DRIVER 13, 18, 24MM SOCKET/WRENCH TORQUE WRENCH
TECH NOTES	
<p>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.</p> <p>2. 71020 TOE LINK REQUIRED FOR PROPER SUSPENSION CLEARANCE AND GEOMETRY.</p> <p>3. INSTALL TIME: 3-4 HOURS.</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**

- Place the truck on a flat surface with the parking brake engaged, chock the rear tires.
- Use a suitable floor jack in the manufacturer designated spot on the frame to lift the rear of the truck, then place a suitable jack stand under the frame and set the truck down securely on the jack stand. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the rear wheels and tires.
- Begin by removing the rear portion of the fender liner using a T15 torx bit. The rear portion will fold out of the way to access the top of the coilover hardware. [FIGURE 1]

FIG.1



4. Support the lower control arm. Remove the upper coilover nuts using an 18mm. [FIGURE 2]

FIG.2



5. Remove the lower arm pivot bolt at the knuckle using a 24mm. [FIGURE 3]

FIG.3



6. Remove the brake line tabs from the lower control arm using a 13mm. [FIGURE 4]

FIG.4



7. Remove the lower control arm bolt and nut using an 18mm. Remove the coilover from the vehicle and set aside. [FIGURE 5 & 6]

FIG.5



FIG.6



**8.** Grab the ICON coilover assembly now and install the upper mount into the coil bucket using the supplied 3/8 bolts, flat washer and split lock washer. The split lock washer goes on the bolt before the flat washer. Torque to 35 ft-lbs. [FIGURE 7 & 8]

FIG.7



FIG.8



**9.** Install the lower coilover hardware using the OEM bolt and nut. Torque to 100 ft-lbs. [FIGURE 9]

FIG.9



**10.** Reinstall the brake line bracket and lower control arm pivot bolt. Torque the pivot bolt to 180 ft-lbs.

**11.** Use a pliers to bend the brake line bracket up to relieve some tension on the brake line from the added droop travel. [FIGURE 10 & 11]

FIG.10



FIG.11



**12.** Install the remote reservoir now using the supplied bracket, hose clamp and self-tapping 3/8 bolt and 3/8 split locker washer. Hold the reservoir and bracket up to position and mark the hole for drilling with the 11/32 drill bit. Once drilled, install the bracket with hose clamps installed, then attach the reservoir. (Some models may have an exhaust on the driver side. The reservoir will need to be mounted a little higher on the frame to clear.) [FIGURE 12 & 13]

FIG.12

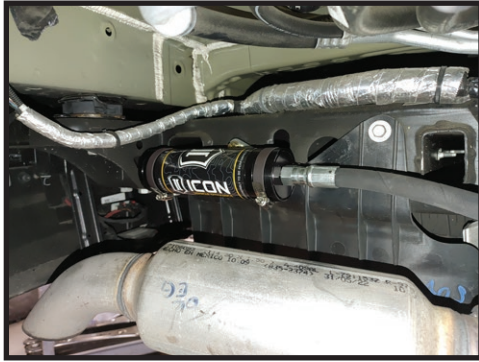


FIG.13

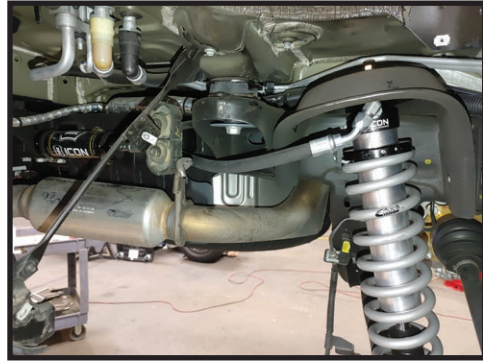


**13.** Reinstall the fender liner now.

**14.** Repeat on passenger side. Passenger side reservoir location is similar but needs to clear the plastic splash guard and exhaust. [FIGURE 14 & 15]



**FIG.14**



**FIG.15**

***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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