

PART #	DESCRIPTION
71656	2019-UP GM 1500 2.5 RR COILOVER KIT (EXTENDED TRAVEL)

COMPONENTS INCLUDED	
(1) 174956RD 19-UP GM 1500 2.5 EXTENDED TRAVEL VS RR CO (DRVR)	(2) 250002O 7.5" OFFSET RESI MOUNT
(1) 174956RP 19-UP GM 1500 2.5 EXTENDED TRAVEL VS RR CO (PASS)	(1) 611019 COILOVER HARDWARE KIT
	(1) 611051 HOSE CLAMP KIT
HARDWARE INCLUDED	
(2) 605131 3/8 SPLIT LOCK WASHER	(2) 605144 3/8-12 X .75 FLANGED SELF TAP
611019 HARDWARE KIT	
(6) 605101 3/8-16 X 1.000 BOLT	(6) 605131 3/8 SPLIT LOCK WASHER
TOOLS REQUIRED	
JACK JACK STANDS DRILL 11/32" DRILL BIT TORQUE WRENCH	5/16" NUT DRIVER 9/16" SOCKET / WRENCH 8MM SOCKET / WRENCH 15MM SOCKET / WRENCH 18MM SOCKET / WRENCH
TECH NOTES	
<p>1. YOUR ICON COILOVER 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. YOUR ICON COILOVER ASSEMBLIES COME SHIPPED AT ICON'S RECOMMENDED RIDE HEIGHT. REDUCING DROOP TRAVEL WILL REDUCE RIDE QUALITY. DO NOT PRELOAD THE COIL BEYOND 1.125" OF EXPOSED THREADS BETWEEN THE BOTTOM OF THE TOP CAP AND THE TOP OF THE COIL ADJUSTER NUT. ADJUSTING PRELOAD BEYOND THIS SETTING WILL CAUSE THE COIL TO BIND AND DAMAGE WILL OCCUR TO COILOVER AND/OR VEHICLE.</p> <p>3. EXTENDED TRAVEL COILOVER KIT MUST BE USED IN CONJUNCTION WITH ICON UPPER CONTROL ARMS (PN: 78620DJ OR PN: 78720DJ) TO AVOID DAMAGE.</p> <p>4. THERE IS A SMALL FLANGE BELOW THE BACK SIDE OF THE UCA THAT WILL NEED TO BE CUT TO ALLOW FOR THE EXTENDED TRAVEL OF THE ICON UCA. REFER TO UCA INSTRUCTIONS.</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 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.</p>

## INSTALLATION

- Using a properly rated jack, raise the front 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 front wheels.
- Using a floor jack, support the lower control arm (LCA) to prevent the suspension from being at full extension.
- Remove the wiring harness mounts from the studs of the factory coilovers. A long flathead screwdriver helps to remove the harness on the passenger side.
- Remove the nuts from the studs using an 18mm. [FIGURE 1]

FIG.1



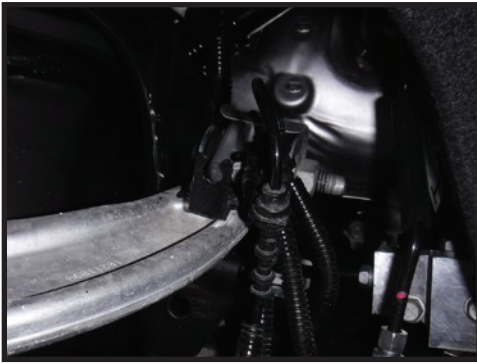
FIG.2



- Remove the bolts from the bar pin using a 15mm. [FIGURE 2]

**6.** Disconnect the brake line brackets from the upper control arm (UCA) using a 10mm. [FIGURE 3]

**FIG.3**



**FIG.4**

**7.** Disconnect the UCA from the steering knuckle using an 18mm. Take care to not overextend the CV joints. Support the steering knuckle using heavy duty zip ties, safety wire, tie downs, or bungee cords. [FIGURE 4]

**8.** Lower the LCA enough to rotate and remove the coilover assembly.

**9.** Refer to ICON UCA instructions.

**10.** Mount the ICON coilover to the coil bucket using the supplied 3/8" coilover hardware and a 9/16". [Torque to 35 ft-lbs]

**11.** Mount the bar pin to the LCA using the factory bolts and a 15mm. [Torque to factory spec]

**12.** Connect the spindle to the UCA using the factory nut and an 18mm. [Torque to factory spec]

**13.** Using an 11/32" drill bit, drill out the hole in the frame as shown. [FIGURE 5 & 6]

**FIG.5**



**FIG.6**



**14.** Use the supplied self-tapping 3/8" screw to tap the drilled hole.

**15.** Mount the reservoir bracket to the frame using the self-tapping screw and a 9/16". The bracket should be offset forward moving the reservoir further from the coilover.

**16.** Mount the reservoir to the bracket using the supplied hose clamps. Fasten using a 5/16" but do not overtighten. [FIGURE 7]

**FIG.7**



**17.** Mount the brake line to the UCA using the factory hardware and a 10mm. [Torque to factory spec]

**18.** Reinstall wheels and lower vehicle to the ground. [Torque lugs to factory spec]

**19.** 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.**

## 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:**