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PART #	DESCRIPTION
71704EP	20 GM HD 0-3" FRONT 3.0" RR CDEV

COMPONENTS INCLUDED	
(1) 174977RED 20 GM HD 3.0 RR CDEV DRVR (1) 174977REP 20 GM HD 3.0 RR CDEV PASS (2) 170100 2011 GM HD RESI MOUNT 7.5"	(2) 605934 #12 (3/4) ADEL CLAMP (1) 91257H FRONT HD SHOCK HARDWARE KIT (1) 611051 #36 STAINLESS STEEL HOSE CLAMP KIT
HARDWARE INCLUDED	
91257H HARDWARE KIT	
(4) 605330 1/2" SAE FLAT WASHER (4) 605302 1/2-13 X 1.500 HHCS GR8	(4) 605322 1/2-13 C-LOCK NUT GR8
TOOLS REQUIRED	
JACK JACK STANDS TORQUE WRENCH 3/4" SOCKET / WRENCH 3/8" SOCKET / WRENCH 5/8" SOCKET / WRENCH 7/8" SOCKET / WRENCH 9/16" SOCKET / WRENCH	13/16" SOCKET / WRENCH 7/64" ALLEN 10MM SOCKET / WRENCH 13MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 24MM SOCKET / WRENCH
TECH NOTES	
<p>1. YOUR ICON SHOCK ASSEMBLIES COME FACTORY CHARGED TO 180 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. ESTIMATED INSTALL TIME: 2-3 HOURS.</p>	



WARNING!
<p><b>** 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!</b></p> <p><b>** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.</b></p> <p><b>** 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.</b></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 21mm socket/wrench, loosen torsion bar preload bolt and release tension. [FIGURE 1]

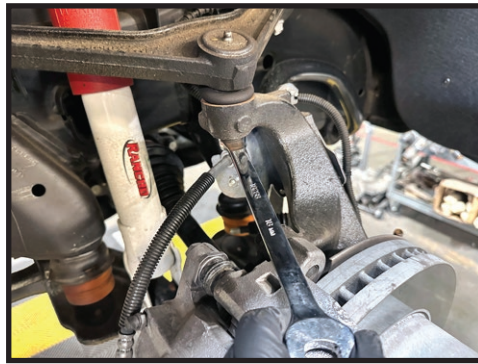
FIG.1



- Using a jack, slightly lift the lower control arm to prevent the suspension from being at full droop.

**4.** Loosen the ball joint nut using an 18mm. [FIGURE 2]

**FIG.2**



**5.** Support the spindle so that it does not overextend the CV joints when detached.

**6.** Using a jack, slightly lift the lower control arm to prevent the suspension from being at full droop.

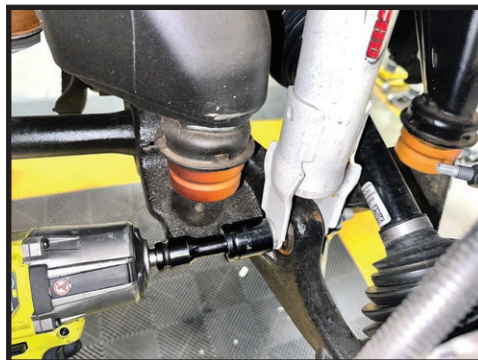
**7.** Loosen the OEM bar pin nuts on the top shock mount using a 21mm wrench. The fender well can be folded back for easier access to the top of the bolt heads. [FIGURE 3]

**FIG.3**



**8.** Use a 21mm socket/wrench to loosen the lower shock mount. [FIGURE 4]

**FIG.4**



**9.** Once the lower shock mount is removed, the shock can carefully be slid out from under the upper control arm.

**10.** Place the driver shock into position making sure the resi hose goes under the UCA. [FIGURE 5]

**FIG.5**



**11.** Install 170100 resi mounts on top of the shock mount (you may have to move the large wiring loom to fit it in to position). [FIGURE 6 & 7]

FIG.6



FIG.7

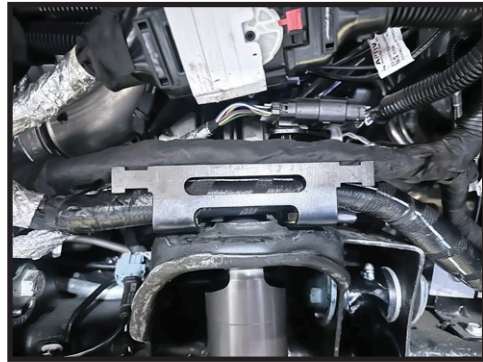


**12.** Using the supplied 1/2" bolts nuts and washer install the upper bar pin. Then put the wiring loom on the back of the resi mount. [FIGURE 8 & 9]

FIG.8

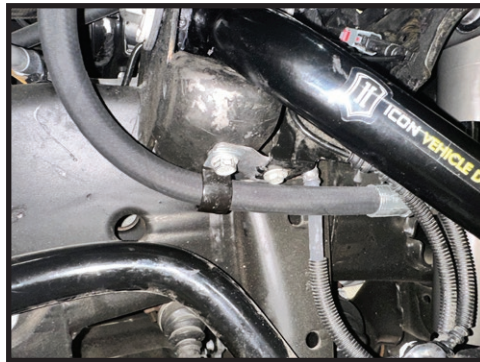


FIG.9



**13.** Using the supplied adel clamps install it on to the resi hose the remove the brake hose mount using a 10mm wrench and place the adel clamp on to the bolt and reinstall. [FIGURE 10]

FIG.10



**14.** Install the heat shrink on to the hose clamp then use them to mount the remote resi. [FIGURE 11]

FIG.11



**15.** Attach the shock to the lower shock mount. Fasten using the factory hardware and 21mm socket/wrench. [Torque to factory spec] [FIGURE 12]

**FIG.12**



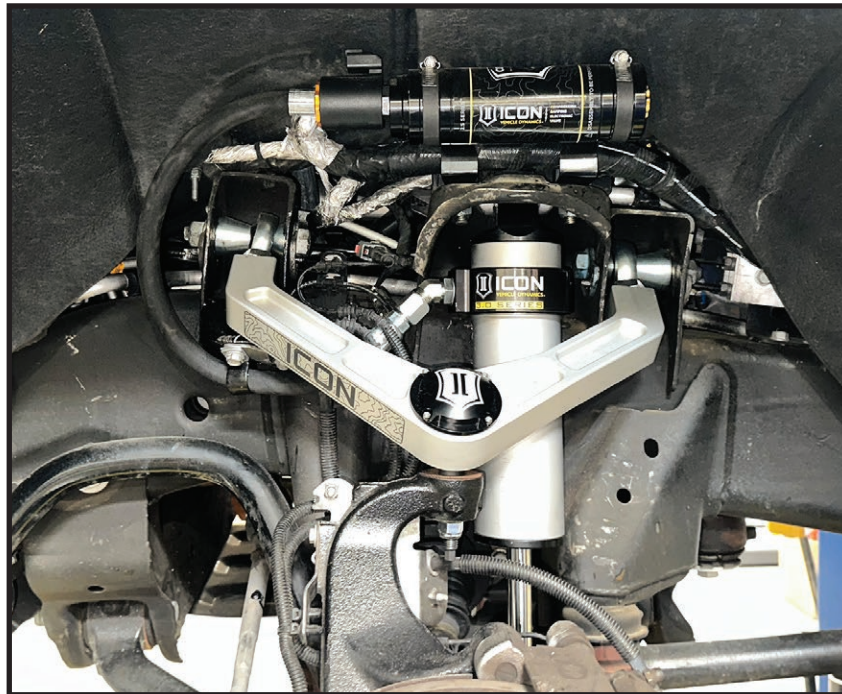
**16.** With the shock mounted on the lower control arm, upper mount tightened to the shock bucket, slowly lower the jack

**17.** Reinstall the UCA to the knuckle and torque to factory spec.

**18.** Repeat steps on the opposite side.

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

**20.** 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:**

- 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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