

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

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

### COMPONENTS INCLUDED

(1) 174956CD 19-UP GM 1500 2.5 EXTENDED TRAVEL VS RR CDCV CO (DRVR)	(2) 250002O 7.5" OFFSET RESI MOUNT
(1) 174956CP 19-UP GM 1500 2.5 EXTENDED TRAVEL VS RR CDCV 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
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### TECH NOTES

1. YOUR ICON COILOVER ASSEMBLIES COME FACTORY CHARGED TO 150 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. 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.
3. EXTENDED TRAVEL COILOVER KIT MUST BE USED IN CONJUNCTION WITH ICON UPPER CONTROL ARMS (PN: 78620DJ OR PN: 78720DJ) TO AVOID DAMAGE.
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.



### 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. 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.
2. Using a floor jack, support the lower control arm (LCA) to prevent the suspension from being at full extension.
3. 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.
4. Remove the nuts from the studs using an 18mm. [FIGURE 1]

FIG.1



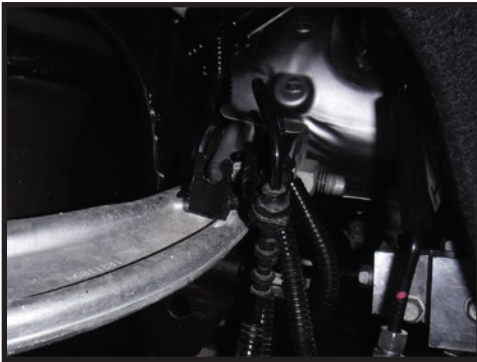
FIG.2



5. 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]

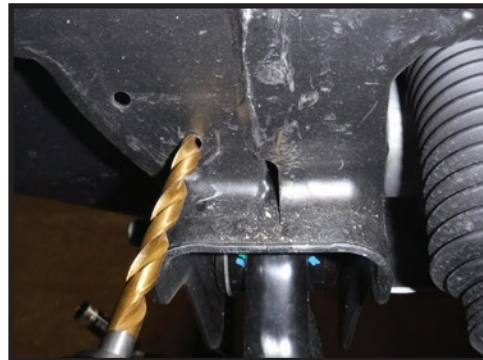
**12.** Connect the spindle to the UCA using the factory nut and an 18mm. [Torque to factory spec]

**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 the wheels and lower the 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.**

## ICON VEHICLE DYNAMICS LIABILITY DISCLAIMER

ICON does not make any representations or warranties regarding the fitness of any ICON product for a particular installation or conformance of any ICON product with a particular vehicle application. Installation of any ICON suspension system is at the sole discretion of the end user and in making a purchase of any ICON suspension system, the purchaser assumes the responsibility and liability for any and all damage or injury, of any kind or nature whatsoever, caused by, resulting from, arising out of, or occurring in connection with the use or installation of any ICON suspension system. ICON is not liable for and specifically disavows any installation that is not in conformance with original equipment manufacturer's recommendations or instructions. Purchaser agrees that in the event of any claim or lawsuit arising out of the installation or use of an ICON suspension system, purchaser shall indemnify and hold harmless ICON, its agents, employees, officers and owners from and against any and all loss, expense, damage or injury that ICON may sustain as the result of such claim. [If applicable, ICON defers to and recommends recalibration of any/all vehicle stability systems after suspension installation.]

## 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.

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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/>

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PART #	DESCRIPTION
77703CP	2019-UP GM 1500 REAR 2.5 VS PB CDCV PAIR

COMPONENTS INCLUDED	
(2) 174957C 19-UP GM 1500 REAR 2.5 PB CDCV	
HARDWARE INCLUDED	
N/A	
TOOLS REQUIRED	
JACK JACK STANDS BARREL SANDER	TORQUE WRENCH 21MM SOCKET / WRENCH
TECH NOTES	
<p>1. YOUR ICON SHOCK ASSEMBLIES COME FACTORY CHARGED TO 150 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. ICON RECOMMENDS MOUNTING THE SHOCKS WITH THE SHAFT FACING UPWARD. MOUNTING THEM THIS WAY REDUCES THE AMOUNT OF SANDING THAT NEEDS TO BE DONE ON THE SHOCK MOUNTS.</p>	



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**INSTALLATION**

- 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.
- Remove the OEM rear shocks using a 21mm. [FIGURE 1 & 2]

FIG.1



FIG.2



3. Slightly sand the lower passenger shock mount for adequate top cap clearance. Approximately 1/16" inch is all that is necessary. Install the upper bolt first with the wide spacer to the inside, spacing the shock out towards the frame using a 21mm. [Torque to factory spec] [FIGURE 3 & 4]

FIG.3



FIG.4



4. Install the lower shock bolt using a 21mm. It helps to have the suspension fully extended for this step. [Torque to factory spec]

5. Check to make sure that the reservoir has adequate clearance.

6. On the driver side, the shock reservoir should be oriented between the exhaust (for dual exhaust) and brake line. [FIGURE 5 & 6]

FIG.5



FIG.6

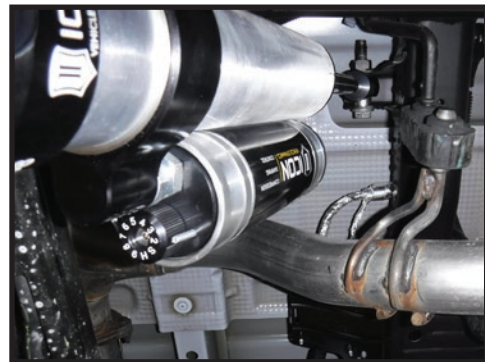


7. On the passenger side, the shock reservoir should be between the exhaust hanger and the brake line protector on the front of the differential tube. [FIGURE 7 & 8]

FIG.7



FIG.8



8. Install the wheels and lower vehicle to the ground. [Torque lugs to factory spec]

**VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.**

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

### **ICON VEHICLE DYNAMICS LIABILITY DISCLAIMER**

ICON does not make any representations or warranties regarding the fitness of any ICON product for a particular installation or conformance of any ICON product with a particular vehicle application. Installation of any ICON suspension system is at the sole discretion of the end user and in making a purchase of any ICON suspension system, the purchaser assumes the responsibility and liability for any and all damage or injury, of any kind or nature whatsoever, caused by, resulting from, arising out of, or occurring in connection with the use or installation of any ICON suspension system. ICON is not liable for and specifically disavows any installation that is not in conformance with original equipment manufacturer's recommendations or instructions. Purchaser agrees that in the event of any claim or lawsuit arising out of the installation or use of an ICON suspension system, purchaser shall indemnify and hold harmless ICON, its agents, employees, officers and owners from and against any and all loss, expense, damage or injury that ICON may sustain as the result of such claim. [If applicable, ICON defers to and recommends recalibration of any/all vehicle stability systems after suspension installation.]

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### MAINTENANCE

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**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

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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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PART #	DESCRIPTION
78620DJ	2019-UP GM 1500 TUBULAR UCA KIT

COMPONENTS INCLUDED	
(1) 174602 19-UP GM 1500 UCA (DRVR) (1) 174603 19-UP GM 1500 UCA (PASS) (4) 179106 SLEEVE 1.00 X .563 X 2.130 (8) 297034 HAT BUSHING 1.625 X 1.000 X .850	(4) 297042 POLYURETHANE SUPPORT RING (4) 605903 1/4-28 90 DEG ZERK FITTING (2) 605950 SPIRAL RETAINING RING (8) 150025 WASHER 2.125 X .565 X .188 YZINC
HARDWARE INCLUDED	
(4) 605053 1/4 FLAT WASHER (2) 605800 M6-1.0 FLANGE NUT	(2) 605862 M6-1.0 X 25MM SHSS
TOOLS REQUIRED	
JACK JACK STANDS GRINDER W/ CUT-OFF WHEEL TORQUE WRENCH	7/16" SOCKET / WRENCH 10MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH
TECH NOTES	
<p>1. ICON UPPER CONTROL ARMS ALLOW FOR ADDITIONAL DROOP TRAVEL WHEN PAIRED WITH ICON'S EXTENDED TRAVEL COILOVERS (PN: 71606, 71656, OR 71656C).</p> <p>2. ALL ICON UPPER CONTROL ARMS HAVE BEEN ENGINEERED TO ALLOW FOR THE MOST POSSIBLE CASTER, WHILE STILL ALLOWING THE VEHICLE TO BE PROPERLY ALIGNED. NOTIFY YOUR PROFESSIONAL ALIGNMENT SHOP OF THIS INFORMATION SO THAT MAXIMUM RIDE QUALITY CAN BE ACHIEVED.</p> <p>3. ICON DELTA JOINTS ARE PRE-GREASED FROM THE FACTORY. ICON RECOMMENDS GREASING THE DELTA JOINT EVERY 3,000 MILES (OR EVERY OIL CHANGE). ADD NEW GREASE UNTIL ALL OF THE OLD GREASE IS EXPELLED FROM THE BOTTOM OF THE DELTA JOINT ASSEMBLY, WIPE AWAY EXCESS WITH A RAG OR SHOP TOWEL.</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.
- Remove the ABS line bracket from the upper control arm (UCA) using a 10mm. [FIGURE 1]

FIG.1



FIG.2



- Loosen the taper on the upper ball joint and the tie rod end using an 18mm socket/wrench. Use a hammer to separate the upper ball joint taper and tie rod end. Take care not to damage the threads. Support the spindle (using safety wire, tie down, etc) so that it does not overextend the CV joints when detached. [FIGURE 2]
- With the UCA detached from the spindle, begin to loosen the UCA from its mounts in the frame using a 21mm wrench and socket. Once completed, remove the factory UCA's from the vehicle.

5. Cut the factory droop stop off of the side of the coil bucket. Paint the bare metal to prevent corrosion. [FIGURE 3 & 4]

FIG.3

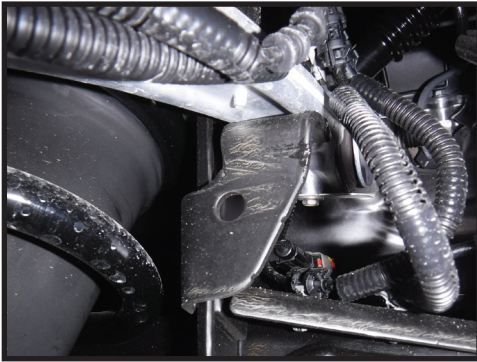
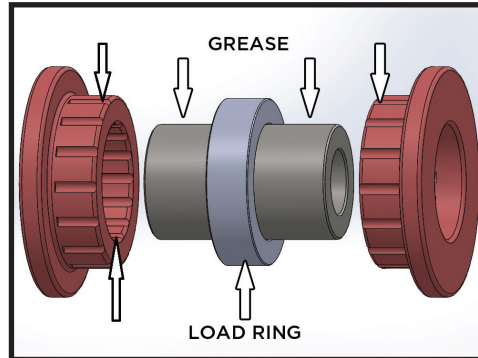


FIG.4



6. Before installing the new ICON upper control arms, care must be taken to liberally grease the bushings prior to assembly. Failure to grease properly will cause premature bushing wear and increased noise. [FIGURE 5]

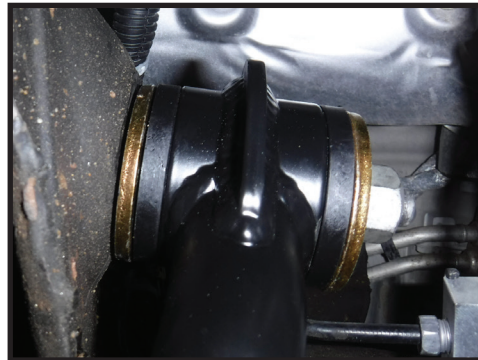
FIG.5



7. Each UCA is clearly labeled which side and direction it should be installed.

8. With greased bushings installed, place the driver side UCA into the arm mounts on the chassis. Use the supplied washers on the outside of the hat bushings as shown. [FIGURE 6]

FIG.6



9. Hand tighten OEM hardware using (2) 21mm. [Torque to factory spec]

10. Install the supplied set screw into the weld nut of the UCA. Torque to 7 ft-lbs using a 3mm allen.

11. Connect the ABS line bracket to the UCA using the supplied M6 nylock nut. Torque to 6 ft-lbs using a 10mm.

12. Take care when inserting tapered pin into the spindle to not damage the threads. Hand tighten the ball joint nut onto the tapered pin to align and seat it properly. [Torque to 75 ft-lbs]

13. Reinstall the outer tie rod end. [Torque to factory spec]

14. Repeat steps on passenger side.

15. Install wheels and lower vehicle to the ground. [Torque lugs to factory spec]

16. Have the vehicle professionally aligned.

FIG.7



**VERIFY ALL FASTENERS ARE PROPERLY TORQUED BEFORE DRIVING VEHICLE.  
RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 100 MILES AND PERIODICALLY THEREAFTER.**

### **ICON VEHICLE DYNAMICS LIMITED LIFETIME WARRANTY**

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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.

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