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78620DJ INSTALLATION INSTRUCTIONS

10-19-2021 REV.D

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

1. ICON UPPER CONTROL ARMS ALLOW FOR ADDITIONAL DROOP TRAVEL WHEN PAIRED WITH ICON'S EXTENDED TRAVEL COILOVERS (PN: 71606, 71656, OR 71656C).

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.

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.

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. Remove the ABS line bracket from the upper control arm (UCA) using a 10mm. **[FIGURE 1]**

FIG.1

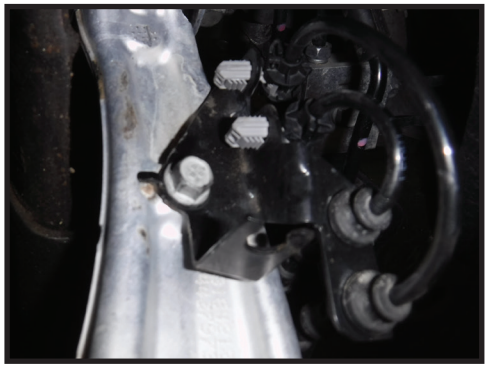


FIG.2

3. 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]**

4. 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

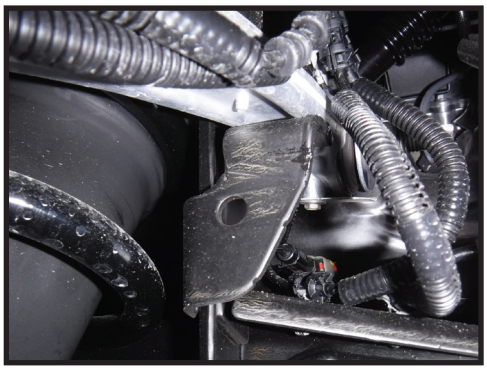
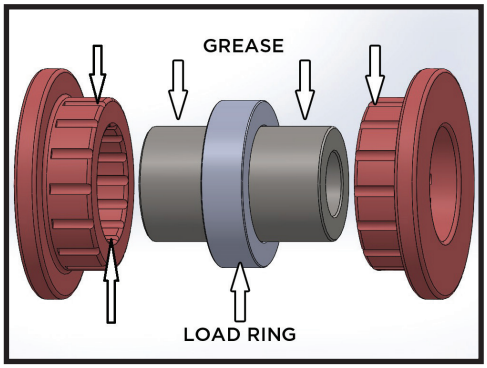


FIG.4

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]**

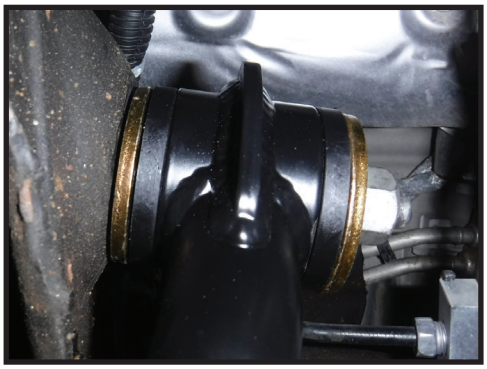
FIG.5



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]

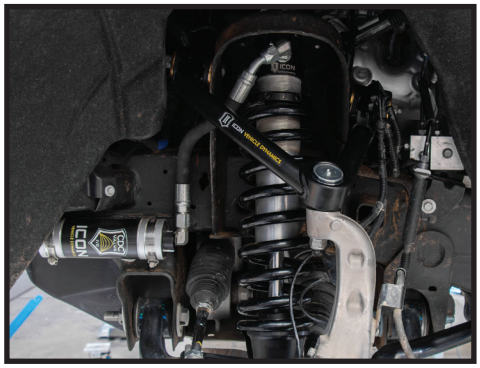
13. Reinstall the outer tie rod end. [Torque to factory spec]

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

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.

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