ICON Vehicle Dynamics K40012T Installation Instructions

HOSS 2.0 Stage 2 Suspension System, Tubular, Ford Bronco

Part number: K40012T

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48400DJ INSTALLATION INSTRUCTIONS

4-22-2022 REV.A

PART #	DESCRIPTION
48400DJ	21-UP BRONCO TUBULAR UCA DJ PRO KIT

COMPONENTS INCLUDED

(1) 144000 21-UP BRONCO DRIVER UCA (1) 144001 21-UP BRONCO PASSENGER UCA (2) 297166 DELTA PRO TUBULAR UCA DUST COVER	(2) 290023 UCA CAP 3M DBL STICK 2.6 X 2.2 X 5 MIL

HARDWARE INCLUDED

(4) 147014 21 BRONCO UCA 1.375 X .563 X 2.830 SLEEVE (8) 297034 HAT BUSHING 1.625 X 1.000 X .850	(4) 297042 POLY RING 1.590 X 1.005 X .250 BLK (4) 605903 1/4-28 X 90 DEG STEEL ZERK FITTING

TOOLS REQUIRED

JACK STANDS JACKS RATCHETS EXTENSIONS PHILLIPS SCREWDRIVER BODY CLIP REMOVAL TOOL TORQUE WRENCH	3/8 12-PT 8MM SOCKET / WRENCH 10MM SOCKET / WRENCH 18MM SOCKET / WRENCH 21MM SOCKET / WRENCH 24MM SOCKET / WRENCH

TECH NOTES

1. 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.

2. 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. Lift vehicle and securely place heavy duty jack stands under the manufacturer recommended lifting locations for the front of the vehicle. Take care when lifting the vehicle, and allow 3-4" of ground clearance from the tire. Remove front tires. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the wheels.

2. Remove fender line for easier access to bolts. (UCA removal and installation can be done without removing the fender liner) Four 7mm screws holding the liner to the fender. 14 phillips push pins spread through the rest of the liner. Apply pressure behind the pin while unscrewing the plastic screw. Once the screw is out, pull the rest of the pin assembly out. **[FIGURE 1]**

FIG.1



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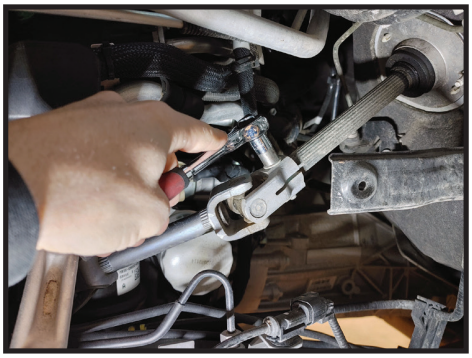
3. On Driver side only, disconnect the steering shaft coupler. Remove the 10mm bolt and push the black grooved shaft into the body. Before removal, make sure the steering wheel is straight. Do not turn steering while disconnected.

4. On passenger side of 4-cylinder models, remove the heat shield using an 8mm. **[FIGURE 2 & 3]**

FIG.2



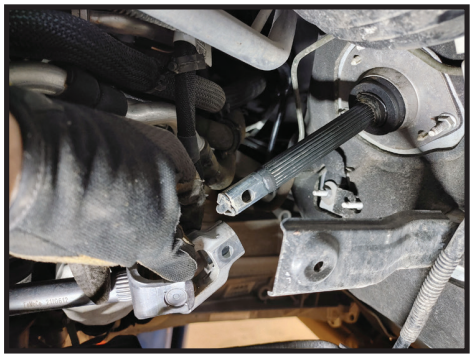


FIG.3

5. Remove balljoint from the spindle using an 18mm, leave the nut on loosely. To free the taper from the spindle, a hammer or balljoint separator can be used. **[FIGURE 4]**

FIG.4



6. Support the spindle so the CV joints do not overextend and remove the balljoint nut.

7. Loosen and remove the UCA pivot bolt from the frame, using a 21 and 24 mm. remove the UCA.

8. Before installing the ICON tube UCA, the bushings need to be greased and assembled with high grade moly or wheel bearing grease.

9. Install the supplied 90* grease zerks into the bushings housings, making sure the zerks point out, towards the tire.

10. Install the UCA now using factory pivot bolt and torque to factory spec.

11. Install the delta joint into the spindle using the supplied nut and 21mm. [Torque to 75 ft-lbs]

12. Reconnect steering shaft and torque pinch bolt to factory spec. Using a small amount of blue thread locker.

13. Reinstall heat shield on passenger side.

14. Reinstall fender liner if removed.

15. Reinstall wheels and tires, lower to ground and get 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 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.

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.

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