

PART #	DESCRIPTION
98501	15-UP F150 TUBULAR UCA KIT

COMPONENTS INCLUDED	
(1) 194602 04+ F150 TUBULAR UCA (DRVR)	(1) 194603 04+ F150 TUBULAR UCA (PASS)
HARDWARE INCLUDED	
(2) 177058 TAPER ADAPTER (2) 157506 BEARING CAP .500 ID (REV B) (2) 605337 1/2-20 X .875 12PT (2) 605230 7/16" FLAT WASHER	(8) 297034 HAT BUSHING 1.625 X 1.000 X .850 (4) 297043 POLY RING 1.590 X 1.005 X .450 (4) 199206 SLEEVE 1.000 X .563 X 2.440 (2) 605838 M12-1.75 FLANGED LOCK NUT GR8 (1) 605969 VIBRATITE RED 2ML BULLET
TOOLS REQUIRED	
JACK JACK STANDS BALL JOINT SEPARATOR HAMMER	1/2" 12PT SOCKET 21MM SOCKET / WRENCH TORQUE WRENCH
TECH NOTES	
<p>1. ICON RECOMMENDS OPTIONAL BILLET UNIBALL DUST COVER SET (191011) TO PREVENT DEBRIS FROM ENTERING THE UNIBALL CUP.</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>	

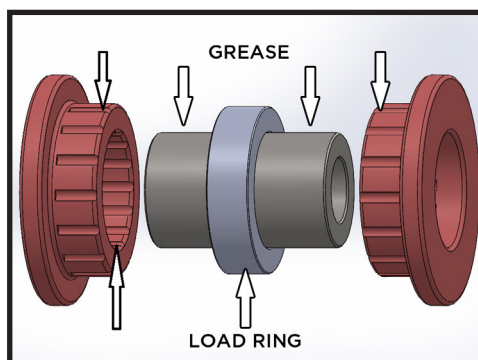


WARNING!
<p>** READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!</p> <p>** ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING 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 front wheels.
- Using a jack, slightly lift the lower control arm to prevent the arms from being at full droop.
- Turning the steering wheel to the driver side will allow easy access to the 21mm nut on the upper control arm ball joint that mates the spindle and upper control arm. Remove the safety cotter pin if present and loosen the ball joint nut.
- The spindle will need to be supported so as not to tilt over, causing over-extension of the CV's on 4WD equipped trucks or possibly damaging steering. Using a ball joint separator, split the ball joint from spindle. Repeat steps 2 and 3 on the passenger side upper control arm.
- With the upper control arm detached from the spindle begin to loosen the arm from its mounts in the frame using a 21mm socket/wrench. Once completed, remove OEM assembly.
- Before installing ICON upper control arms, care must be taken to grease the bushings (liberally) prior to installing assembly. Failure to grease properly will cause premature bushing wear and increased noise. (FIGURE 1)

FIG.1



- 7.** Install the taper pin adapter finger tight into the arm. The 12pt bolt will be left finger tight until step 11.
- 8.** Each arm is clearly labeled which side and direction it should be installed.
- 9.** With greased bushings installed, place the driver side upper control arm into the mounts on the chassis and tighten OEM hardware. [Torque to factory spec]
- 10.** Take care when inserting tapered pin into the spindle to not damage the threads. Hand tighten the supplied flange locking nut (also use supplied washer) onto the tapered pin to snug taper into seat. Once aligned and seated [Torque to 65 ft-lbs].
- 11.** Remove the 12pt bolt that was installed in step 7 to apply RED thread locker. [Torque to 90 ft-lbs]
- 12.** Install wheels and lower vehicle back to the ground. [Torque to factory spec]
- 13.** 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 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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