



CHE PERFORMANCE PRODUCTS INSTALLATION INSTRUCTIONS

TUBULAR REAR UPPER AND LOWER CONTROL ARM SET PART # CHE3U

**2003-2004 Mercury Marauder
2003-Present Ford Crown Victoria**

Kit Contents:

2ea. Rear Lower Control Arms
2ea. Rear Upper Control Arms
2ea. Assembly Lube Vial
1ea. Applicator Brush

WARNING!!: If you lack the necessary skill, tools, or equipment to safely complete this installation, have the component installed by a mechanic with the proper equipment and expertise.

Thoroughly read and understand these installation instructions before beginning the installation. If there is any doubt regarding the procedure, please contact CHE Performance prior to attempting installation

NOTE: Only remove one control arm at a time. Removing more than one control arm from the vehicle at the same time may cause damage to the vehicle and/or personal injury.

Step 1. Raise the Vehicle

WARNING: The electrical power to the air suspension system must be turned off prior to hoisting, jacking or towing an air suspension vehicle. Failure to do so can result in unexpected inflation or deflation of the air springs, which can result in shifting of the vehicle during these operations. Turn the air suspension service switch off

With the front wheels properly blocked; raise the rear end of the vehicle as high as safely possible. Place jack stands on a solid area under the frame of the car, not the rear end. Remove the wheels at this time.

Step 2. Raise Rear Axle

Using a floor jack under the center section of the rear end, raise the rear axle of the vehicle until it is near ride height. Do not raise the rear axle of the vehicle so high that the vehicle is no longer supported by the jackstands on the frame of the car.

Step 3. Support Rear Axle

Place jack stands securely under the axle for support.

Step 4. Remove Lower Control Arm



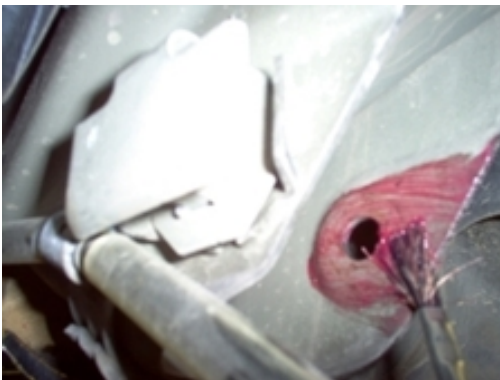
Take caution that the control arm does not swing down causing vehicle damage or bodily injury when the bolts are loosened.

REMOVE THE CONTROL ARM FROM ONE SIDE OF THE VEHICLE ONLY!

- A. Using an 18mm wrench or socket, remove the chassis side bolt from the lower control arm. Retain the bolt and flag nut for re-use with the new control arms.
- B. Using an 18mm wrench or socket for the bolt and a 21mm wrench or socket for the nut, remove the axle side control arm bolt. Retain the nut and bolt for re-use.



Step 5. Clean & inspect mounting points



Fully inspect all mounting points and remove any debris. Apply a light coating of the supplied synthetic grease to all surfaces that will be in contact with the bushings. At this time, also coat the outside of the bushings themselves with the same supplied grease

7a. Clean, inspect, and Lube mounting points



7b. Lubricate Bushing Faces

Step 6. Install Lower Control Arm



Install the new lower control arm on the vehicle. Install the bolt and flag nut in the chassis side first, followed by the nut and bolt in the axle side. Because the axle may have shifted slightly during removal of the control arm, the axle may need to be repositioned. A jack placed under the pinion flange of the rear axle may be used to properly align the bolt holes.

Step 7. Torque Lower Control Arm Bolts

Unlike the factory bushings, the bushings in the new control arms are free to rotate around the mounting bolt, allowing the bolts to be fully torqued without the vehicle at ride height.

Torque the front and rear lower control arm mounting bolts to 111 lb-ft.

Step 8. Remove Upper Control Arm



Take caution that the control arm does not swing down or that the flag nut does not rotate causing vehicle damage or bodily injury when the bolts are loosened.

REMOVE THE CONTROL ARM FROM ONE SIDE OF THE VEHICLE ONLY!

- B. Using an 18mm wrench or socket, remove the chassis side bolt from the upper control arm. Retain the bolt and flag nut for re-use with the new control arms.
- C. Using a 15mm wrench or socket, remove the axle side bolt from the upper control arm. Retain the bolt and flag nut for re-use with the new control arms.



Step 9. Install Upper Control Arm



A. Lubricate the bushing faces and mounting points of the upper control arm following instructions in step 5.

B. Install the new upper control arm on the vehicle. Install the bolt and flag nut in the chassis side first (larger diameter bolt), followed by the bolt and flag nut in the axle side (smaller diameter bolt). Because the axle may have shifted slightly during removal of the control arm, the axle may need to be repositioned. A jack placed under the pinion flange of the rear axle may be used to properly align the bolt holes.

Step 10. Torque Upper Control Arm Bolts

Unlike the factory bushings, the bushings in the new control arms are free to rotate around the mounting bolt, allowing the bolts to be fully torqued without the vehicle at ride height.

Torque the larger chassis side upper control arm mounting bolt to 111 lb-ft.

Torque the smaller axle side upper control arm mounting bolt to 69 lb-ft.

Step 11. Install remaining control arms



Install the lower and upper control arms on the second side of the vehicle following steps 4 through 10.

Step 12. Inspect Installation

Fully inspect the installation ensuring that the suspension is free to travel and that all fasteners have been properly installed and torqued.

Step 13. Lower vehicle

Lower the vehicle and perform a road test.

Questions, Comments, Suggestions?

If you have any questions, comments, or suggestions regarding these instructions or product, please do not hesitate to contact us immediately. Thank you, and enjoy your new CHE Performance Product.

Technical Support/Contact Information

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