



CHE PERFORMANCE PRODUCTS INSTALLATION INSTRUCTIONS

1984-1992 LINCOLN MARK VII REAR LOWER CONTROL ARMS PART # CHE1WA

Kit Contents:

4ea M12x100mm Bolts
8ea M12 Flat Washers
4ea 3/8"x1-3/4" Flange Bolts

4ea M12 Locknuts
1ea Assembly Lube
4ea 3/8" Locknuts

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 both control arms from the vehicle at the same time may cause damage to the vehicle and/or personal injury.*

Step 1. Turn Off Air Ride System



Located in the trunk on the driver's side, there is a switch to shut off the air ride. It is to the left of the trunk hinge. It may be behind some of the carpeted panels, so be sure to look carefully.

Failure to shut off the Air Ride Suspension will result in vehicle damage and/or personal injury.

Do not turn the system back on until you have lowered the car.

Step 2. Raise The Vehicle



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.

Tip: Place the jack stands slightly forward of the front control arm mounting bolt or on the mounting plate of the subframe connectors if you have them.

Step 3. Move Axle Side Swaybar Mounts



The sway bar bushings and bracket on the axle interfere with the removal of the axle side lower control arm bolt. *It is not necessary to remove the swaybar completely.* Remove the bolts for the bushing bracket on the axle housing and slide the bracket and bushing over to make room. Save the hardware for re-use.

Step 4. Air Bag Removal



Note: *It is not necessary to remove the airbag completely from vehicle*

Remove the 2 bolts retaining the air spring to the lower control arm. This will also remove the E-Brake bracket. Discard the air spring bolts and the flag nuts on the E-Brake bracket.



Release any air pressure on the air spring by rotating the air bag solenoid on the top side of the air spring counter-clockwise and pulling outward on it. **Be prepared for air to escape from the spring as it may rush out quickly.** Leave the solenoid loose until the new control arms have been installed.

NOTE: The solenoid does not need to be completely removed from the air spring nor does the wiring harness or air line. There is a second stop on the air spring solenoid to prevent it from ejecting from the spring during air release. If you would like to fully remove the solenoid from the spring (not required), rotate it further counter-clockwise after the air has been released.

Step 5. Loosen Control Arm Hardware



ONLY REMOVE ONE CONTROL ARM FROM THE VEHICLE AT A TIME. *Removal of both control arms at the same time will result in personal injury and/or vehicle damage!*

Loosen, ***but do not remove***, the 2 control arm mounting bolts. **Tip:** It may be necessary to move the mufflers to gain access to the forward mounting bolts. Loosen, ***but do not remove***, the 4 bolts that hold the rear exhaust pipes to the H-pipe, and disconnect any hangers that hold the rear exhaust to the body of the vehicle (a little WD40 or equivalent will aid in sliding the hangers off). Let the exhaust hang over the rear end, total removal from the vehicle is not needed.

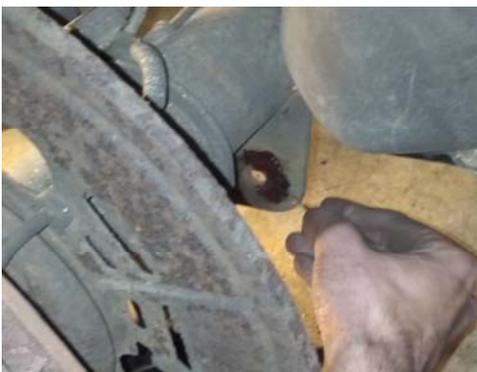
Step 6. Remove Control Arm Hardware



- a. Placing a floor jack under the rear of the control arm, carefully raise the jack just until it is supporting the arm and the tension is removed from the bolt-do not apply so much pressure that the rear end is raised. **Note: ONLY** If the air spring is able to be collapsed so that there is not pressure on the control arm, it is not necessary to support the rear of the control arm with the jack.
- b. Remove and discard the rear mounting bolt and nut.
- c. Slowly lower the jack until the rear of the control arm is lowered and there is not any pressure on it from the air spring.
- d. Remove and discard the forward mounting bolt and nut. Remove the stock control arm from the vehicle.



Step 7. Clean And Inspect Mounting Points



Fully inspect all mounting points and remove any debris. Failure to thoroughly clean mounting points may result in premature bushing wear or bushing noise. Apply a light coating of the supplied assembly lube to all surfaces that will be in contact with the bushings. At this time, also coat the outside face of the new control arm bushings with the same supplied assembly lube.

Step 8. Install Tubular Rear Control Arm



Install the new control arm following the reverse procedure of removal (forward mounting bolt first), using the new hardware provided with the control arms. Do not fully tighten the bolts at this time.

Tip: If the axle shifted during removal of the stock control arm, raise a floor jack under the pinion flange to help align the rear mounting holes.

Step 9. Torque Fasteners

Torque the front and rear mounting bolts to 70-80 lb-ft

Step 10. Install Air Spring



- Install the air spring in the tubular control arm using the supplied bolts and locknuts, remembering to install the E-Brake Bracket on the outside of the control arm. Torque the bolts to 29-37 lb-ft.
- Install the air spring solenoid in the top of the air spring, ensuring that it is properly seated by rotating it clockwise until it locks in place.

Step 11. Install Second Control Arm

Install the second control arm following steps 3-10.

Step 12. Install Swaybar Brackets and Exhaust

Install the swaybar brackets back to their stock location, re-using the hardware removed in step 3. If the exhaust was lowered, it can be placed back into its stock location now.

Step 13. Inspect Installation

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

Step 14. Lower Vehicle And Turn On Air Ride

Lower the vehicle. Once the vehicle is securely lowered, turn the air ride suspension switch back on. **Do not activate the air suspension while the vehicle is raised or personal injury and/or vehicle damage will occur!!**

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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