# 2005-CURRENT MUSTANG AXLE BRACE

**V8 (8.8) PART # CHE9L**

## APPLICATIONS:

2005-2014 Ford Mustang  
Body Style: All

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<td>M12 Flange Nuts</td>
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**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:** Photos show installation on a V8 GT with the 8.8 rear differential. Installation for the V6 with the 7.5 rear differential is identical.
Step 1. Raise and Support the Vehicle
Raise the vehicle up as high as safely possible, and ensure that it is properly supported. It will simplify installation if both the front and rear of the vehicle is raised.

Step 2. Remove Damper Weights
If present, remove the damper weights located on the inboard side of the control arm mounts on the rear axle. These weights are typically only found on V6 and Shelby GT500 models. The dampers will not be re-used.

Step 3. Install Cover Studs

**Important!!** Only remove and install one cover bolt at a time to prevent oil leaks.

Remove the lower 5 differential cover bolts and replace with supplied studs and flange nuts working on one bolt at a time. The stud should be fully threaded into the differential case using an allen wrench. Torque the flange nuts to 25 lb-ft.

If installing an aftermarket Aluminum Cap Support Cover with the axle brace, follow the instructions included with the Support Cover but leave the cap support load bolts loose until the installation of the axle brace has been completed.

If an aftermarket or the Ford finned aluminum GT500 cover is already in place please note that the spacers included with the install kit will need to be installed between the axle brace and the cover flange in step 8.
Step 4. Remove Anti-Squat Bracket Bolt

Important: If installing CHE Lower Control Arm Anti-Squat Brackets or brackets from another manufacturer, they should be installed prior to proceeding with installation of axle brace. Please print a copy of our supplemental installation instructions for Bolt-On Relocation brackets from other manufacturers from the Installation/Tech section of our website for detailed instructions. The CHE Brackets will not require the supplemental installation instructions.

www.cheperformance.com/instructions/CHE9L/CHE9LReloBracketPrint.pdf

Step 5. Install Axle Brace

NOTE: In certain cases, the holes in the axle housing flanges (near the pinion flange) are not present. In this case, the holes must be drilled following the instructions included with the axle brace before installation can continue.

If you do not have control arm relocation brackets installed or are using brackets that bolt inside of the control arm mount such as Metco, both of the supplied spacers should be installed on the passenger side of the vehicle between the axle brace flange and the control arm mount on the axle.

If CHE control arm brackets are installed, the spacer marked “S1” needs to be installed between the axle brace flange and the control arm mount on the inboard side only. Spacer marked “S” is not used.

If using “Bolt-On” brackets from another manufacturer, please print a copy of our supplemental installation instructions for Bolt-On Relocation brackets from other manufacturers from the Installation/Tech section of our website for detailed instructions:
www.cheperformance.com/instructions/CHE9L/CHE9LReloBracketPrint.pdf
Step 6. Install Damper Hole Bolts

Install the supplied 12mm flange bolts into the weld-nuts on the control arm mounts on both sides of the axle. Do not fully tighten these bolts at this time; the bolts should be loose enough to still allow slight final positioning of the axle brace.

Step 7. Install Housing Nuts

Install the supplied nuts onto the Axle Brace studs on the front of the axle housing. Do not fully tighten the nuts at this time; they should only be tight enough to still allow slight final positioning of the axle brace.

Step 8. Install Cover Plate

Install the cover plate over the cover plate studs and nuts on the differential housing. Install the supplied flange nuts on the studs. Torque the nuts to 25 lb-ft.
Install the supplied 1/2" flange bolts through the plate and into the weld-nuts on the axle brace. Do not fully tighten the bolts at this time; they should only be tight enough to still allow slight final positioning of the axle brace.

Step 9. Drill Driver's Side Holes

Drill two 3/8" holes in the driver's side control arm mount using the axle brace flange as a guide. Install the 2 supplied 3/8" bolts and locknuts into these holes.
Step 10. Torque Flange Hardware

Final torque the flange hardware. The 3/8” and 12mm bolts should be torqued to 35 lb-ft. The 1/2” bolt on the passenger side should be torqued to 50 lb-ft.

Step 11. Torque Housing Hardware

Final torque the ½” cover plate bolts and the front axle brace stud nuts to 50 lb-ft.

Step 12. Complete Support Cover Installation

If installing the Low-Profile Aluminum Cap Support Cover with the Axle Brace, follow steps 8 to 9 of the instructions included with the Support Cover to complete the installation.

Step 13. Inspect Installation

Inspect the installation, ensuring that all fasteners are tight and that there is sufficient clearance around the Axle Brace. If the installation is appropriate, safely lower the vehicle and perform a road test.

Technical Support/Contact Information

e-mail: support@cheperformance.com
Website: www.cheperformance.com