



# CHE PERFORMANCE PRODUCTS INSTALLATION INSTRUCTIONS

## 2005-CURRENT MUSTANG AXLE BRACE

V8 (8.8) PART # CHE9L

V6 (7.5) PART # CHE9N

### APPLICATIONS:

2005-Current Ford Mustang  
Body Style: All

### KIT CONTENTS:

1ea Axle Brace	1ea Cover Flange	1ea Spacer	2ea M12x25 Bolts
2ea 1/2" Flange Nuts	3ea 1/2" x 1-1/4" Flange Bolts	1ea 1/2" Locknut	2ea 3/8" Locknuts
2ea 3/8" Flange Bolts	10ea 5/16 Flange Nuts	5ea Cover Studs	

***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 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 the Low-Profile Aluminum Cap Support Cover with the axle brace, follow steps 1 to 5 on the instructions included with the Support Cover.

## Step 4. Remove Anti-Squat Bracket Bolt



**Important:** If installing the CHE Performance Products Lower Control Arm Anti-Squat Brackets, they should be installed prior to proceeding with installation of axle brace.

If installed, remove the rear mounting nut & bolt retaining the CHE Performance Anti-Squat Brackets to the passenger side control arm mount of the axle.

## Step 5. Install Axle Brace



Install the Axle Brace on the vehicle.

If the CHE Performance Products Rear Control Arm Anti-Squat Brackets are not installed on the vehicle, the supplied spacer should be installed on the passenger side of the vehicle between the axle brace flange and the backside of the control arm mount on the axle.

If needed, the axle housing holes on the front of the housing should be enlarged to allow clearance for the axle brace studs.



**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.

## 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 only be tight enough to still allow slight final positioning of the axle brace.

**Note:** Vehicles manufactured prior to 01/2005 may not have these damper holes in the control arm mount and a 1/2" hole will need to be drilled. Locally sourced 1/2" x 1" bolts will need to be installed in place of the supplied 12mm bolts. Please contact CHE prior to installation for assistance in this case.

## 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.

To ease installation, remove the oil fill plug from the housing (optional). After installation is complete, replace any oil that may have leaked with clean gear oil of the proper grade.

## 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.

If installing the Bearing Cap Support Cover, follow step 6 on the instructions included with the support cover.

## 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 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

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