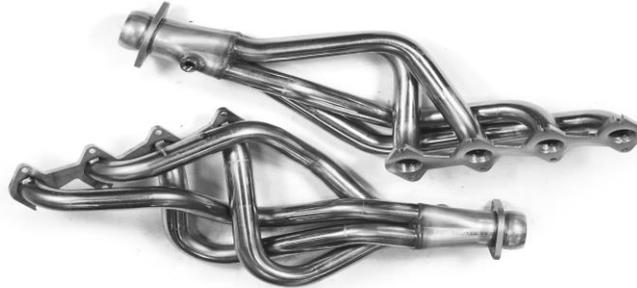




2005-2010 3V Mustang GT Header Installation Instructions



Do not attempt this installation if proper safety equipment isn't available to you.
Seek the assistance of a professional installer.

Read and understand all instructions before beginning.

Kooks Mustang headers install from beneath the vehicle.

A lift is highly recommended in the installation process of these components. If a vehicle lift is not accessible to you, a jack and four jack stands may be substituted. It is recommended to refer to your owner's manual before raising and supporting any vehicle. Also you will need a safe way to raise and support the engine. We recommend the use of an engine cradle. A basic understanding of general hand tools and vehicle mechanics is also recommended.

Although it is **NOT REQUIRED**, the removal of the factory K-Member is **RECOMMENDED** to ease the installation process.

To install this system the following tools are suggested:

- Vehicle Lift or Jack and 4 Jack Stands
- Ratchet Set ($\frac{1}{4}$ " & $\frac{3}{8}$ " Drive)
- Metric Socket Set ($\frac{1}{4}$ " & $\frac{3}{8}$ " Drive)
- Extensions ($\frac{1}{4}$ " & $\frac{3}{8}$ " Drive)
- Pry Bar Set
- $\frac{7}{8}$ " O² Socket ($\frac{7}{8}$ " Wrench)
- Gasket Scraper
- Metric Wrench Set
- Standard Screwdriver Set
- Safety Glasses
- Paint Pen or Marker
- Vehicle Service Manual
- Thread Locker
- WD-40 (Penetrating Oil)
- Anti-seize
- Zip Ties

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STOCK MANIFOLD AND CATALYTIC CONVERTER REMOVAL PROCESS

It is a good idea to spray WD-40 on the rusted hardware before you start to help loosen them. While the lube is doing its job, you can start the install.

STEP 1. Battery

- Disconnect the negative and positive battery terminals.
- Remove battery hold down and remove the battery.
- Remove the bolt(s) holding the battery tray in location and remove the battery tray.

STEP 2. Air Box

- Disconnect the MAF harness from the sensor.
- Loosen clamp located at air box and closest to the throttle body.
- Remove fresh air line from intake tube.
- Remove entire air box assembly.

STEP 3. Raise and support vehicle

STEP 4. O2 Sensors

- Mark the location of all O2 sensors
- Remove the O2 sensors

STEP 5. Factory manifolds and mid pipe

- Remove the mid pipe from the manifolds to the rear of the X-Pipe.
- Remove the 13mm nuts and studs from the factory manifolds but leave the center stud for last so it can support the manifold.
- Remove center stud and lower the manifold from below.

STEP 6. Support and lift engine

- Carefully secure and support the engine.
- Loosen and remove the engine mount bolts from both sides.
- Raise the engine and remove the dipstick tube. Make note of the tube location for reinstallation purposes.
- Remove the motor mounts

STEP 7. Starter

- Remove the 13mm bolts holding the starter to the engine.

STEP 8. Steering Shaft

- Ensure the steering wheel is locked in position.
- Mark the location of the bolts and alignment of the steering shaft for reinstallation later.
- Remove the 13mm bolts from the steering shaft, one is under the dash.

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KOOKS HEADER AND CONNECTION PIPE INSTALLATION PROCESS

****All hardware should be tightened to factory specifications****

STEP 1. O2 Extensions (Please note that the locator tab may need to be removed for proper fitment)

- Install the front passenger O2 extension.
- (Automatic only) Install the rear O2 sensors.

STEP 2. Head Prep

- Carefully scrape and clean the exhaust port surfaces to ensure a proper seal with the gasket.

STEP 3. Headers

- Starting with the driver side place the header and gasket up against the cylinder head (Please note the gasket is a crush gasket and does not go on a certain way).
- Using the new supplied hardware tighten down the header.
- Install the passenger side header the exact same way as the driver side.

STEP 4. Reassembly

- Reinstall the engine mounts.
- Starter must be reinstalled at this time.
- Reinstall the dipstick.
- Reinstall the steering shaft.
- Engine may now be placed back onto the engine mounts and secured in place. Ensure that the headers have proper clearance all the way around.

STEP 5. X-Pipe/H-Pipe

- Install the X or H pipe using the supplied clamps and hardware but do not tighten yet. . (Please note the bend in the X or H pipe points down).
- Starting from the rear of the vehicle align and adjust the exhaust tightening as you move forward.

STEP 9. O2 Sensors

- Reinstall all O2 sensors and connect the harness.

STEP 10. Air Box

- Reinstall the air box assembly.
- Reconnect fresh air tube.
- Tighten clamps located at air box and closest to the throttle body.
- Reconnect MAF sensor harness.

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STEP 11. Battery

- Reinstall battery tray.
- Reinstall battery and tighten down the battery hold down.
- Reconnect the positive and negative terminals in that order.

STEP 12. Inspection

- Start Engine and check for any Exhaust Leaks.
- Allow Vehicle to complete one heat cycle (Heat to temp and allow for cooling).
- Re-torque Header Bolts and Header Hardware.

**If additional assistance is needed, please contact Kooks Custom headers
Toll free at 1 866 586 KOOK or contact your dealer.**

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