

# **Installation Instructions for 300131**

## **Coated Header**

**For: 1986-93 Ford Mustang 5.0L**

Please read and understand these instructions completely prior to starting work.

Check to make sure you received the proper parts for your application. If you are unsure you have received the proper parts, call before you start work.

**Be sure to work safe!** Whenever you work under the vehicle be sure that it is located on level, solid ground and is supported by adequate safety stands! **Remember: Hot asphalt will not support most jack stands!**

Many factors affect the installation of headers, some of which are broken or aftermarket motor mounts, accidents that impact the configuration of the frame, and/or the installation of different engines or aftermarket cylinder heads. Most installations require some welding. If you are uncomfortable with welding operations, we recommend that you contact a professional exhaust system specialist to install your new headers.

**Attention Customers breaking in new engines:** Due to the extreme heat generated during the break-in process, the appearance of the ceramic coating may be altered in certain areas. The protection characteristics and thermal barrier properties of the coating is never compromised. It is recommended that a cast iron manifold or old set of headers be used for this process.

**Notice:** The coating of these headers can be marred or scratched during installation. Please use the ceramic header installation kit that is included with this kit. This will reduce the possibility of getting scratches, nicks or discoloration of the headers while installing them.

### **DISASSEMBLY**

1. Disconnect the negative battery cable from the battery.
2. If a car lift is not available, raise the vehicle 2 feet or higher and support it with adequate safety stands. Make sure the vehicle is on a flat solid surface and is stable.
3. Apply penetrating oil to all nuts and bolts to be removed.
4. Unbolt head pipes from stock exhaust manifolds.
5. Remove spark plug wires, spark plugs and the stock exhaust manifolds.
6. Remove the engine oil dipstick and tube.
7. Loosen H-Pipe at the rear joint (muffler end) to ease the header installation.
8. Remove the gaskets and any gasket material or any carbon deposits that remain on the head surface. The use of a gasket removal agent or scraper will ease the removal of any gasket material. Use care not to get debris into ports or spark plug holes.

### **ASSEMBLY**

1. Starting from above, work the left side header down into place. Note: It may be necessary to raise the motor on this side to facilitate installation. If so, place a board between the jack and the oil pan and raise the motor slightly.
2. Apply anti-seize to all header bolts being used. Start all of the header bolts for this header but leave header loose.
3. Lower the engine into place and reinstall the engine mount nuts, tighten accordingly.
4. Modify the dipstick tube bracket as shown in Figure 1.
5. Re-install engine oil dipstick tube and dipstick.
6. Install 2 bolts from exhaust system to the header using the supplied 7/16" bolts and nuts and tighten them evenly.
  - a. Note: On stick shift models, it will be necessary to move the clutch cable away from the header. This can best be accomplished by bending the mounting bracket towards the fender. Be sure cable has at least 1" of clearance from the header.
7. Starting from above, work the right side header down into place.
8. Apply anti-seize to all header bolts being used. Start all of the header bolts for this header but leave header loose.



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9. Install supplied smog tube mounting bracket (in place of stock one) over R-4 tube.
10. Reinstall stock smog tube to bracket with stock screw.
  - a. Note: When moving the smog tube to its new location it will require the rubber hose connecting it to be bent and trimmed. If this cannot be accomplished without severely kinking the hose, replace it with a 90° hose such as Gates #20333 or equivalent.
11. Install 2 bolts from exhaust system to the header using the supplied 7/16" bolts and nuts and tighten them evenly.
12. Tighten H-Pipe at rear joint.
13. Tighten the header bolts evenly to a final torque of approximately 25 ft. lbs.
14. Make sure all of the other fasteners are tightened.
15. Reinstall spark plugs and plug wires.
16. Connect the negative battery cable.

### **IMPORTANT CHECK LIST**

- Be sure that all brake lines and fuel lines are clear of headers and/or connector pipes.
- **All spark plug wires, battery cables, or other electrical components should be clear of headers and/or connector pipes.**
- If removed, make sure the dipstick is installed properly and that it has been replaced.
- Double-check the tightness of all bolts including brackets and accessories.
- Perform these checks again after the first 1000 miles.
- Check clearance and tightness of front driveshaft.

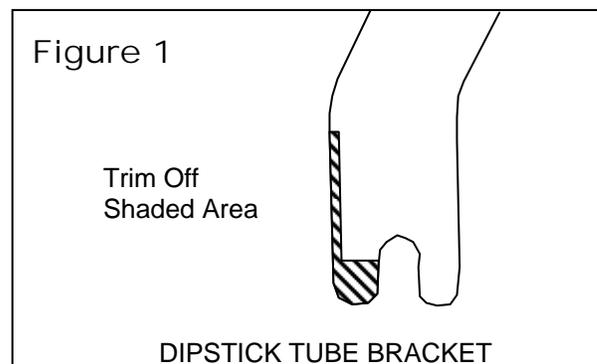
### **START THE ENGINE**

Start the engine and allow it to warm up to operating temperature.

**Caution! Hot parts!** Wear protective clothing as needed.

Check for any unusual noises or exhaust leaks. If everything is OK, stop the engine and tighten all bolts while the engine is still warm.

**NOTE:** Check the bolts periodically to make sure they have not loosened. Re-tighten after the first 500 miles and then again at 1000 miles.



### **PARTS LIST**

<b>Qty.</b>	<b>Description</b>
1	Right Side Header
1	Left Side Header
2	Header Gaskets
1	Smog Tube Mounting Bracket
16	3/8"-16 X 3/4" Header Bolts
2	3/8"-16 X 1" Header Bolts
4	7/16-14 X 2-1/2"
4	7/16-14 Hex Nuts