



## 1996-2004 Ford Mustang GT V8-4.6L 2V, 304SS, Long Tube Headers 70103309-RHKR (1-5/8") & 70103310-RHKR (1-3/4") Installation Instructions



Thank you for making HOOKER HEADERS your choice in a high-performance exhaust system. Extensive dyno/track testing has enabled HOOKER to offer the most advanced design in exhaust systems. The installation, while not complex, will take a certain amount of time. However, the additional horsepower and improved performance will more than justify your efforts. Proper installation and maintenance will ensure long life and maximum performance from your HOOKER HEADER exhaust system.

### **BEFORE STARTING:**

**IMPORTANT!** If using the OE X-pipe, it will have to be modified by a professional fabricator. The optional Blackheart X-pipe (P/N 70803305-RHKR & 70803306-RHKR) has been designed to specifically fit these long tube headers.

Your vehicle must be raised a minimum of 36 inches. A floor hoist is ideal. If no hoist is available, we strongly urge the use of axle stands as a safety measure. Please read these instructions in their entirety before attempting installation. We recommend installing new motor mounts at the time of install of the headers.

**CAUTION! WORK ONLY ON A LEVEL SURFACE. USE JACKS /JACK STANDS OF SUFFICIENT CAPACITY TO LIFT AND SUPPORT YOUR VEHICLE. NEVER WORK UNDER A VEHICLE SUPPORTED BY A FLOOR OR BUMPER JACK.**

### **INCLUDED HARDWARE:**

P/N	Qty.	Description
271R1151	2	O2 Extension Harness
505R79	16	M8 – 1.25 x 25mm Flange Bolt

Check the hardware package. If anything is missing, please contact Technical Service at 1-866-464-6553 or 270-781-9741.

### **REMOVAL OF MANIFOLDS:**

1. Disconnect the negative cable from the vehicle battery.
2. Lift the vehicle and secure on jack stands.
3. Remove (x2) bolts securing the K-member brace (**Figure 1**).



Figure 1

4. Remove starter by unhooking the electrical connection and the (x3) bolts.
5. Loosen the (x4) left and right side nuts holding the factory mid pipe to the OEM manifolds.
6. Unplug and remove the (x4) left and right side O2 sensors secured to the OEM mid pipe.
7. Remove (x4) bolts that attach the mid pipe to the OEM muffler attachment ball and socket.
8. Slide the rubber isolators off the hanger rods on the OEM mid pipe and remove the OEM mid pipe.
9. Starting on the driver's side, disconnect the steering shaft (making sure not to let the steering wheel rotate) by removing the bolt at the steering rack and sliding the shaft towards the steering wheel (**Figure 2**).



Figure 2

10. Using a wrench, loosen the EGR fitting from the OEM manifold.
11. Remove the (x8) nuts holding the driver's side manifold to the head, and remove the OEM manifold.
12. Remove the studs from the cylinder heads and remove the gasket. (The OEM gasket can be reused, however we suggest getting a new OEM gasket for a leak free installation of your Hooker Blackheart Headers.)
13. Move to the passenger's side, and remove the (x8) nuts holding the OEM manifold to the cylinder head and remove the manifold. It may be helpful to lift the motor on the passenger's side to gain clearance to the manifold bolts.
14. Remove the studs and gasket from the passenger's side. (The OEM gasket can be reused, however we suggest getting a new OEM gasket for a leak free installation of your Hooker Blackheart Headers.)

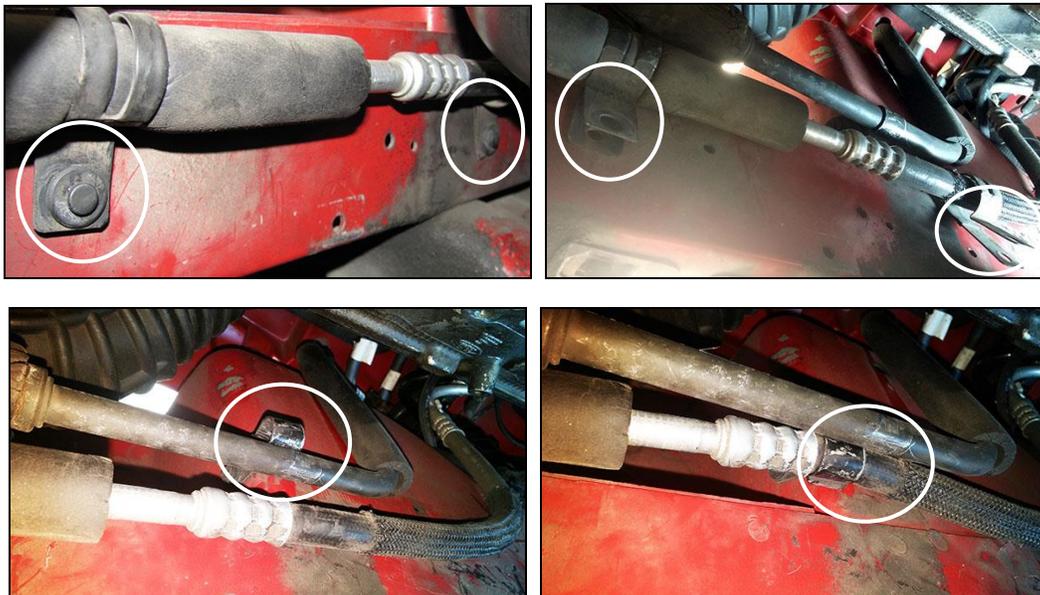
## **INSTALLATION OF THE BLACKHEART HEADERS:**

1. Clean both cylinder head surfaces to allow for a nice sealing surface to ensure a leak free installation of your new Hooker Blackheart Headers.
2. It may be necessary to trim or remove the motor mount heat shield for install of the Hooker Blackheart Long Tube headers.
3. Remove the nut on the stud of the passenger's side motor mount to that protrudes through the K-member (**Figure 3**).



**Figure 3**

4. Using a piece of wood to distribute the weight of the engine, use a jack to raise the passenger's side of the engine upward, for enough clearance to get the Blackheart Long Tube header to slide between the engine and the K-member. (This step may not be required on installation of 70103309-RHKR.)
5. Moving of the AC lines on the frame rail is required on the passenger's side header. Remove the plastic rivets holding the two clamps on for the lower AC line. Remove the metal AC line from the hook on the shock tower. Move the metal line up above the bracket, and place the rubber AC line in the metal bracket. This will hold the AC lines out of the way of the headers (**Figure 4**).



**Figure 4**

6. Slide the passenger's side header in from the bottom. Once the header is in place, place the gasket between the header and the cylinder head. Using the supplied header bolts, loosely tighten them to hold the header in place.
7. Once all bolts are started, tighten them completely torquing them to 22-26 ft lbs (starting from the center of the header moving outward).
8. Lower the engine back into location and tighten the motor mount stud nut to 95 ft lbs.

9. Replace the starter using the (x3) bolts.
10. Slide the driver's side header in the car from the bottom, making sure the split flange goes around the dipstick.
11. Place the gasket between the header and the cylinder head. Using the supplied header bolts, loosely tighten them to hold the header in place.
12. Once all bolts are started, tighten the bolts completely torquing them to 22-26 ft lbs (starting from the center of the header moving outward).
13. Slide the steering shaft back on the steering rack and tighten the bolt.
14. Using the front O2 sensors removed from the OEM mid pipe, screw them in the Hooker Blackheart Headers. Using the supplied O2 Extension harnesses, connect the O2 sensors to the harness routing the wires away from the headers.
15. Install the X-pipe using the 3" SST Torca couplers (supplied with the full Race Exhaust or X-Pipe) to the headers and the OE mid pipe and tighten.

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16. Reinstall the K-member brace.
17. Connect the battery, start the engine, and check for leaks.
18. Re-check your work.
19. Remove the jack stands and lower the vehicle.
20. After 150 miles, re-check and tighten all bolts and clamps.

**Enjoy your Blackheart Exhaust!**

**NOTE:** It is normal for the Blackheart Long Tube Headers to emit smoke for the first few minutes during break-in period.

**RECOMMENDED:** The Blackheart long tube headers WILL emit a check engine light. We recommend using a tuner to turn off the CEL (98-04) or MIL Eliminators on (96-04) and for optimum performance.

**LIMITATION OF LIABILITY – DISCLAIMER:**

The regulation of emissions production, noise levels, and safety standards is undertaken by the federal government, each of the fifty state legislatures, and by many local municipalities, towns, and counties.

HOKKER™ makes no warranties of merchantability, of fitness for particular purpose, or that its products are approved for general use, or that its products comply with laws, regulations, or ordinances in the state where they may be sold to the ultimate purchaser, the consumer.

Unless expressly stated to the contrary in the catalog, instruction sheet; or price list, the entire risk as to the conformity of any company product in any such state and as to repair should the product prove to be defective or non-conforming, is on the retail purchaser, the buyer, the ultimate consumer, of such product and it is not upon the seller, distributor, or manufacturer.

In this connection, the retail purchaser, the buyer, the ultimate consumer assumes the burden of the entire cost of any and all necessary service, alterations, or repair.

**THE FOREGOING STATEMENT LIMITS THE LIABILITY OF THE MANUFACTURER.**

California vehicle code, sections 27156 and 38391, prohibits the advertising, offering for sale, or installation of any device, which modifies a vehicle's emission control system, unless exempted, unless otherwise noted. HOKKER™ Headers that have not received an Executive Order (E.O.) exemption from these code sections are not legal for sale or use in California on vehicles originally equipped with catalytic converters, except for racing vehicles, which may never be driven upon a highway. Check with your local authorities to determine if these headers are legal for use in your particular area.

**Technical Support: 1-866-464-6553**

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