



**2011-14 Ford Mustang GT V8-5.0L, 304SS, Long Tube Headers  
70103302-RHKR & 70103303-RHKR  
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 70803302-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.

**CAUTION! WORK ONLY ON A LEVEL SURFACE. USE JACKS /JACKSTANDS 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
505R45	16	M10 – 1.25 x 25mm Flange Bolt
505R46	16	M10 – 1.50 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.

**INSTALLATION:**

1. Disconnect the negative cable from the vehicle battery.
2. Lift the vehicle and secure on jack stands.
3. Remove (x3) 8mm head bolts securing the oil service belly pan to the chassis.
4. Loosen the left and right side OE ball and socket connection clamps securing the X-Pipe to the catalytic converters.
5. Loosen the band clamps securing the X-Pipe to the exhaust mid pipe. Remove X-Pipe.
6. Remove the (x2) left and right side pre O2 sensors secured to the OE exhaust manifolds.
7. Remove (x4) 15mm head nuts securing the center cross brace from the chassis and remove cross brace. See **Fig. 1**.



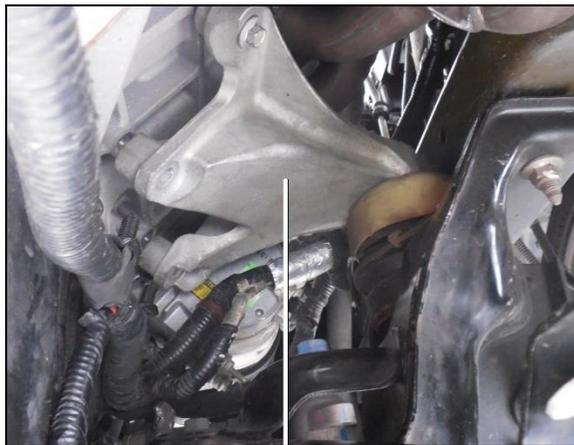
**Figure 1**

8. Remove the (x2) left and right side post O2 sensors.
9. Remove the (x4) 15mm head bolts securing the left and right side catalytic converters to the OE exhaust manifolds. Then, remove the catalytic converters.
10. Using an engine support bar to hold the engine, remove the (x3) 13mm head bolts, (x1) 13mm head nuts, and (x1) 15mm head nut supporting the left side engine mount to the motor and chassis. See **Fig. 2**.



**Figure 2**

11. Repeat step 10 on the right side by removing the (x2) 13mm head bolts, (x2) 13mm head nuts, and (x1) 15mm head nut supporting the right side engine mount to the motor and chassis. See **Fig. 3**.



**Figure 3**

12. Remove the steering shaft by removing (x2) 13mm head bolts at the end and (x1) 13mm head bolt at the top.
13. Remove the (x1) 10mm and (x1) 13mm head nut securing the wires to the starter. Remove (x3) 10mm head bolts securing the starter to the motor. Remove the starter.

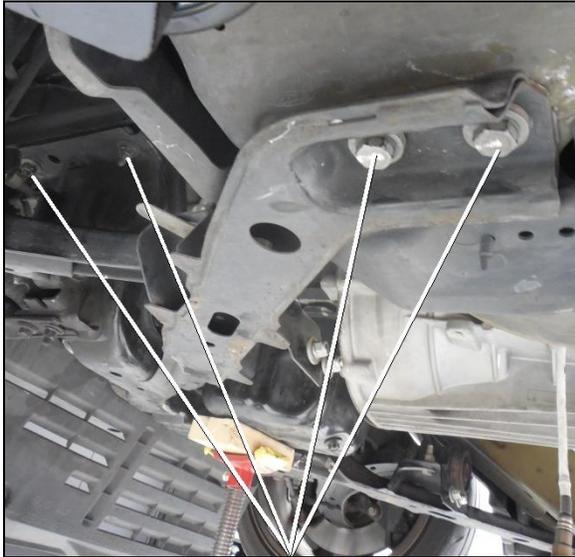
14. Remove the (x8) 15mm nuts securing the left side OE exhaust manifold to the engine. Remove the (x8) studs using an E8 torx socket and then remove OE exhaust manifold. Set the gasket aside, as it will be re-used.

**NOTE:** Some will have to be accessed from under the vehicle and some under the hood.

15. Remove the (x8) 15mm nuts securing the right side OE exhaust manifold to the engine. Remove the (x8) studs using an E8 torx socket and then remove OE exhaust manifold. Set the gasket aside, as it will be re-used.

**NOTE:** Some will have to be accessed from under the vehicle and some under the hood.

16. Loosen the (x4) 18mm head bolts and (x4) 18mm head nuts securing the k-member to the chassis. Back them out as far as possible but, **DO NOT** remove the bolts/nuts. See **Fig. 4 & 5**.



**Figure 4**



**Figure 5**

17. Ensure that the gasket removed from step 14 is not damaged and free from any dirt/debris (replace, if necessary). Install the Blackheart left side long tube header using the (x8) supplied flange bolts and then tighten starting with the middle and working out. This will require the motor to be raised and may require the k-member to be pulled down to guide the header up and past the transmission case.

**NOTE:** It is important to distinguish if your motor accepts either the M10 x 1.25 or M10 x 1.50 flange bolts. This depends on the year of the vehicle. We have included both for you to compare to the factory studs.

18. Ensuring that the gasket removed from step 15 is not damaged and free from any dirt/debris (replace, if necessary), install the Blackheart right side long tube header using the (x8) supplied flange bolts and then tighten starting with the middle and working out. This will require the motor to be raised and may require the k-member to be pulled down to guide the header up and past the transmission case.

**NOTE:** It is important to distinguish if your motor accepts either the M10 x 1.25 or M10 x 1.50 flange bolts. This depends on the year of the vehicle. We have included both for you to compare to the factory studs.

19. Now install the left and right side pre O2 sensors (the left side will have to be un-clipped off the transmission to reach the O2 bung) and tighten. The post O2 sensors will not be re-used.

20. Tighten the (x4) 18mm bolts and (x4) 18mm nuts from step 16 securing the k-member to the chassis.

21. Using the original hardware from steps 10 and 11, install the left and right side motor mounts and tighten.

22. Using the original hardware from step 13, secure the starter back onto the motor and wires back to the starter and tighten.

23. Using the original hardware from step 12, install the steering shaft and tighten.

24. Using the original hardware from step 7, secure the center cross brace back onto the chassis and tighten.

25. Using the original hardware from step 3, install the oil service belly pan back onto the chassis and tighten.

26. 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.

**IMPORTANT!** If using the OE X-pipe, it will have to be modified by a professional fabricator. The optional Blackheart X-pipe (P/N 70803302-RHKR) has been designed to specifically fit these long tube headers.

27. Connect the battery, start the engine, and check for leaks.

28. Re-check your work.

29. Remove the jack stands and lower the vehicle.

30. After 150 miles, re-check and tighten all bolts and clamps.

**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 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.

HOOKER™ 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. HOOKER™ 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.

© 2014 Hooker Headers, Inc. All rights reserved.

**199R10736**

**Revision Date: 8-12-15**