



**2005 - 2013 C6 Corvette 6.0L - 6.2L - V8, Manual / Automatic  
Transmission 304SS, 1 7/8" Long Tube Headers 70101317-  
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:**

Your vehicle must be raised a minimum of 18 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 and understand these instructions and disclaimer 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:**

Accessory Pack Contents:		
P/N	Qty.	Description
271R1124A	2	O2 Sensor Extension Harnesses
505R21	12	8mm x 1.25 x 25mm Header Bolts
557R7	1	Insulated Clamp
599R94	2	Blackheart Decals
199R10876	1	Instruction Sheet
Parts List:		
	1	Left Header Assembly
	1	Right Header Assembly
	1	Accessory Pack

Tools Needed:	
3/8 socket wrench	10mm socket
12" Extension or equivalent	5/8" Spark Plug Socket
3/8 Drive Universal	O2 sensor socket or wrench
15mm Deep Socket	Long flat blade screwdriver
15mm Socket	13mm ratcheting wrench
15mm Combination Wrench	Spray Lube (WD-40®)
5/8" Spark Plug Socket	18mm Socket
13mm Socket	Utility knife

**IMPORTANT! Please read and understand instructions before attempting installation.**

**PRE-INSTALLATION:**

1. Place vehicle on flat solid surface set parking brake and block front wheels.
2. **Disconnect the negative terminal of the battery.**
3. Lift the vehicle and support with jack stands.

4. Soak studs on catalytic converters with penetrating oil or WD-40®.

**NOTE:** Hooker Blackheart Long Tube headers WILL NOT connect to the factory H-PIPE or X-PIPE. The following components are available to connect your Hooker Blackheart Headers to the factory mufflers.

- 2005-08 – PN: 70801301-RHKR – X-PIPE with CATS to OEM mufflers.
- 2005-08 – PN: 70801302-RHKR – X-PIPE with no CATS to OEM mufflers.
- 2009-13 – PN: 70801303-RHKR – X-PIPE with CATS to OEM mufflers.
- 2009-13 – PN: 70801304-RHKR – X-PIPE with no CATS to OEM mufflers.

## **REMOVAL OF OEM EXHAUST MANIFOLDS & CATALYTIC CONVERTERS:**

1. Remove the decorative engine cover.
2. Unplug the left and right pre-catalyst O2 sensors.
3. Remove the (x8) spark plug wires and (x8) spark plugs.
4. Remove the bolt securing the dipstick tube to the cylinder head (15mm socket). Remove the dipstick.

**NOTE:** Take a good mental picture of how the tube is routed, it will make re-installation a lot easier.

5. Loosen the 15mm nuts securing the flanges that connect the exhaust system to the catalytic converters and slide the flanges off the studs.
6. Remove the 15mm nuts securing the catalytic converters to the exhaust manifolds, using a 12” long extension and universal from under the car with a good quality deep well socket.
7. Unplug the post-catalyst O2 sensors. Disconnecting the plug from the retainer on the firewall will allow the catalyst to drop an additional 3-4 inches for better access to the post catalyst O2 sensor connector latch. Take care not to damage the locks on the connectors. Remove the catalytic converters.
8. Remove the (x6) bolts (13mm socket) that attach **EACH** exhaust manifold to the cylinder head. Carefully remove the manifold out from the bottom. Be careful not to damage the coolant temperature sensor on the driver’s side.
9. Remove the left and right O2 sensors from the exhaust manifolds

## **INSTALLATION OF 70101317-RHKR LONG TUBE HEADERS:**

1. Clean the exhaust port sealing surface to remove any dirt or gasket material that may affect the sealing performance of the gasket and cause leaks. **Repair any damaged threads or broken bolts.**

**\*The factory exhaust manifold gasket will be re-used, inspect the gasket for damage and replace if necessary.**

2. Install the O2 sensor into the left and right header collector and connect the provided 18” O2 sensor extension harnesses to the O2 sensor.

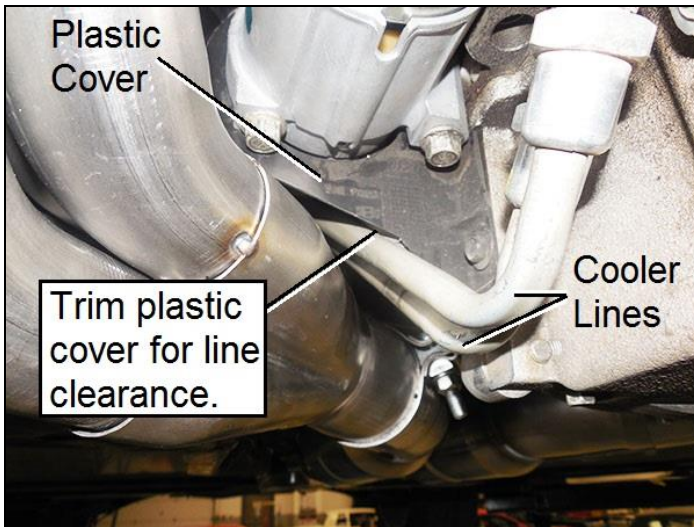
### **IMPORTANT!**

- Automatic transmission installations – follow steps 1-18
- Manual transmission installations – skip steps 3-9

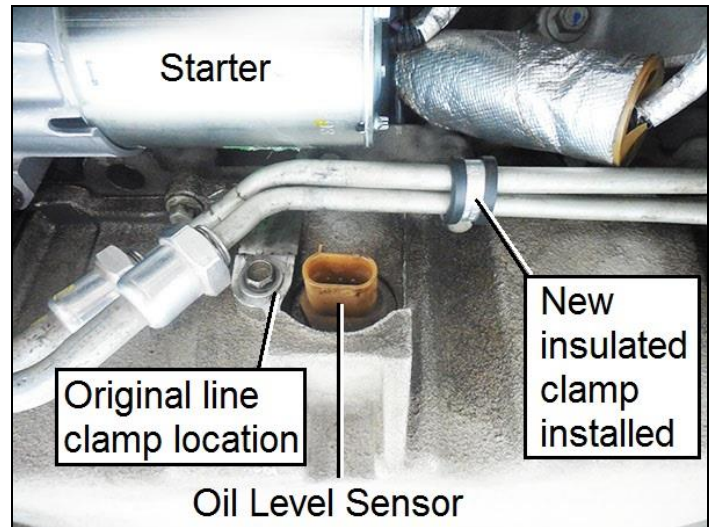
**NOTE:** Moving the transmission cooler lines is necessary for Automatic transmission installations only. This is a relatively simple procedure of bending the lines for better collector clearance, moving the line clamp on the oil pan and trimming the plastic cover at the bell housing around the starter. Please read all the steps listed for this modification before proceeding with the installation.

3. Remove the line clamp at the oil pan below the starter and next to the oil level sensor (**Figure 2**).
4. Unplug the oil level sensor (**Figure 2**).
5. Trim the plastic cover using a utility knife to allow the cooler lines to hug the bell housing and oil pan (**Figure 1**).

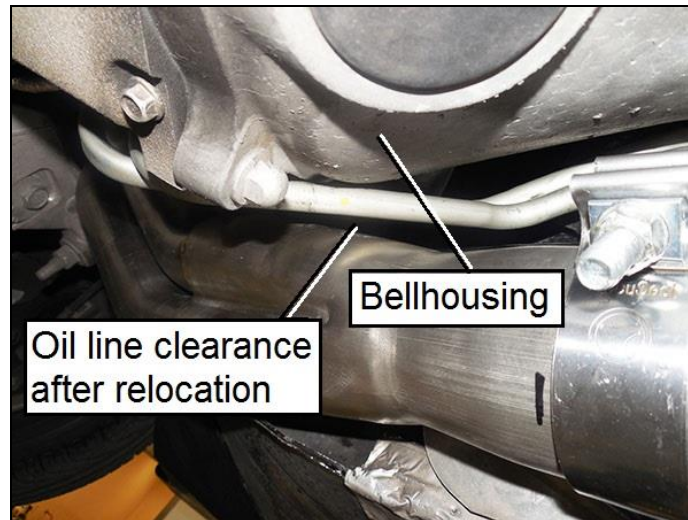
6. CAREFULLY bend the lines so that they rest up against the bell housing (**Figure 3**).
7. Install the insulated clamp around the cooler lines and attach the clamp to the oil pan bolt (**Figure 2**).
8. Adjust the lines after the clamp is installed for clearance at the starter and the bell housing (**Figures 2 & 3**).
9. Reconnect the oil level sensor.



**Figure 1**



**Figure 2**



**Figure 3**

10. Install the right (passenger's side) 70101317-RHKR header into position. Route the O2 sensor extension harness away from the header tubes and up the back of the engine to the fuel rail. Position the gasket with the correct bolt orientation and install the (x6) header bolts provided. Check the clearance at the collector and cooler lines and make adjustments if needed (automatic only). Torque the header bolts to 20-25 ft./lbs. and recheck after the first 150 miles.
11. Install the left (driver's side) 70101317-RHKR header past the steering column and into position. Route the O2 sensor wire away from the header tubes and up the back of the engine to the fuel rail. Position the gasket with the correct bolt orientation and install the (x6) header bolts provided. Check the clearance at the collector and trim the plastic cover on the bell housing if necessary. Torque the header bolts to 20-25 ft./lbs. and recheck after the first 150 miles.
12. Route the O2 sensor harnesses along the fuel rail, plug in the connectors and install the locks. Make sure the harnesses are clear of any exhaust pipe and secure.
13. Install the dipstick tube after checking the condition of the O-ring (replace, if necessary).
14. Install the spark plugs and spark plug wires.
15. Recheck your work. Verify all connections and hardware are properly installed and tight.

16. Connect the battery, start the engine, and check for leaks. Re-check your work before lowering the car.

17. Install the decorative engine covers.

18. After 150 miles recheck all connections, clamps, and hardware.

Hooker Blackheart Headers are intended for **Racing Use Only** and will cause the check engine light to illuminate. The use of a tuner is recommended to prevent this condition and to realize the full performance potential of your Hooker Blackheart Headers.

**NOTE: It is normal for your new Blackheart exhaust system to emit smoke for the first few minutes of operation.**