



**1997-2004 C5 CORVETTE 5.7L-V8, Manual / Automatic Transmission
304SS Long Tube Headers**

**1-3/4" Primary – 3" Collector 70101353-RHKR
1-7/8" Primary – 3" Collector 70101354-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.

WARNING: This product is not street legal and may only be used on Racing Vehicles. Racing Vehicles must be used exclusively for racing or other forms of competition. Racing vehicles must not be registered and must never be used on the street. It is illegal to install this product on a registered vehicle and use it on the street.

NOTE: Hooker Blackheart Long Tube headers WILL NOT connect to the factory H-PIPE.

70101353-RHKR and 70101354-RHKR are not equipped with air injection manifolds and will require the use of a tuner to prevent the check engine light from illuminating, and the air injection pump be disabled.

70101355-RHKR and 70101357-RHKR headers are equipped with air injection provisions and the OEM Air Injection system can be used.

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 /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:

Accessory Pack Contents:		
P/N	Qty.	Description
505R21	12	8mm x 1.25 x 25mm Header Bolts
217R4	6	Cable Ties
540R35	1	Spacer
505R91	1	M10 x 35mm Flange Bolt
599R94	2	Decal
199R11344	1	Installation Instructions

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

PARTS LIST:
1 - Left Header Assembly
1 - Right Header Assembly
1 - Accessory Kit

TOOLS NEEDED:		
3/8 Drive Metric Socket Set	O2 Sensor Socket or Wrench	10mm Deep Socket
3" 3/8 Drive Extension	Utility Knife	18mm Socket
12" 3/8 Drive Extension	Spray Lube (WD-40®)	5/8" Spark Plug Socket
3/8 Drive Universal	Anti-Seize	

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®.

Please visit the Holley website @ www.holley.com for a full line of Hooker Blackheart Exhaust products available for the C5 Corvette.

REMOVAL OF OEM EXHAUST MANIFOLDS & CATALYTIC CONVERTERS:

1. Remove the (x6) 15mm nuts on the exhaust manifold flanges that connect the down pipes to the catalytic converters on the OEM H-pipe.
2. Un-plug the left and right pre catalyst and post catalyst O2 sensors.
3. Remove the (x2) 15mm bolts at the H-pipe hanger bracket on the transmission.
4. Remove the (x4) bolts at the flanges connecting the OEM mufflers to the H-Pipe.
5. Support the H-pipe, remove the (x2) 13mm bolts at the spring hangers and remove the OEM H-Pipe and catalytic converters.
6. Remove the decorative engine cover on both side of the engine.
7. Remove the (x8) spark plug wires and spark plugs.
8. Remove the ignition coil bracket hold down bolts and lay the coil pack assemblies on to the intake manifold.
9. Remove the air injection tubes from the Left and Right exhaust manifold and disconnect the air supply hoses on the driver's side air injection tube.
10. Remove the accessory drive belt and remove the alternator.
11. Remove the 10mm bolt securing the dipstick tube to the right side manifold (97-2000 models) 15 mm bolt at the cylinder head on (2001-04 models) remove the dipstick.
12. Remove the (x6) bolts that attach **EACH** exhaust manifold to the cylinder head. Carefully remove the manifold out from the top of the engine bay. Be careful not to damage the coolant temperature sensor on the driver's side.

INSTALLATION OF 70101353-RHKR or 70101354-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.**

NOTE: The factory exhaust manifold gasket will be re-used, inspect the gasket for damage and replace if necessary with P/N GM-12617944.

2. Remove the O2 sensors from the exhaust manifolds and apply a small amount of anti-seize to the threads of each **pre-catalyst** O2 sensor.
3. Install the Left O2 sensor into the Left header collector and tighten. Be sure to use the O2 sensors that were installed in the OEM manifolds.

4. Remove the 2 lower engine mount nuts at the location shown in **Figure 2**. Raise the engine approximately 1 to 1.5 inches or until the engine mount studs are flush with the bottom of the K-member. Do not force the engine up into the engine compartment, as it should lift off the mounts easily. **STOP LIFTING WHEN YOU FEEL RESISTANCE!!**
Be extremely careful not to lift the vehicle off the Jack stands or lift pads

IMPORTANT! Use a large block of wood to spread the load on the oil pan when lifting the engine (Figure 1).

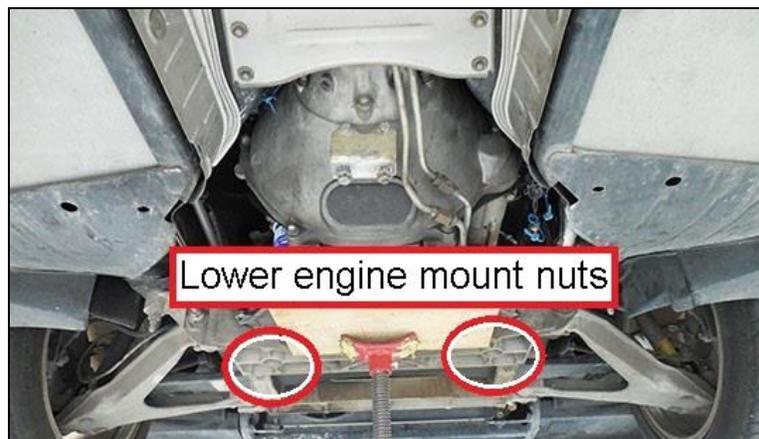


Figure 1

5. Remove the 15mm bolt on the driver's side of the engine connecting the ground wires to rear of the block (**Figure 2**).

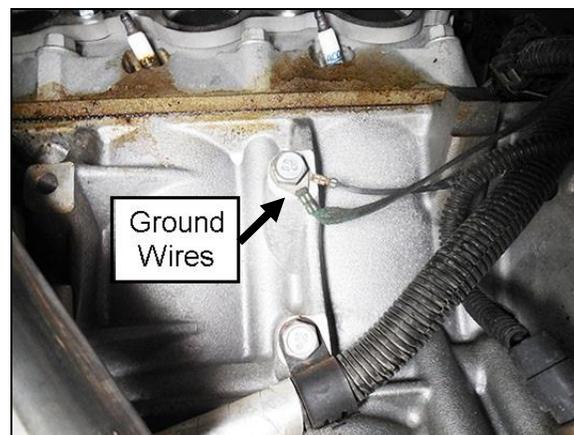


Figure 2

6. Install the left side header into the vehicle from the bottom. Take care not to damage the wiring harnesses at the firewall as the header flange passes through. Re-connect the ground wires before the header is bolted to the engine.
7. Position the OEM gasket with the correct bolt orientation and install the (x6) header bolts provided. Tighten the bolts from the center out towards the ends of the flange to 25-28 ft./lbs. Repeat the sequence several times.
8. Lower the engine on to the mounts and re-install the lower engine mount nuts. (**see note below for Automatic transmission vehicles**)
9. Re-connect the Left O2 sensor to the factory harness.
10. Remove the starter (**see note below for Automatic transmission vehicles**).
11. Install the Right (passenger's) side header into position from the top of the engine bay. Push the AIR injection pipe out of the way and work the header past the A/C lines and valve cover. Take care not to damage the A/C lines as the flange passes by.

NOTE: Automatic vehicles ONLY will accept the Right side header from under the vehicle when the engine is raised to install the Left side header. It is NOT necessary to remove the starter when installing Right side header from under the vehicle.

12. Install the starter battery cable and starter solenoid wire before the header is bolted to the engine.

13. Align the header flange to the cylinder head and position the OEM gasket with the correct bolt orientation and install the (x6) header bolts provided. Tighten the bolts from the center out towards the ends of the flange to 25-28 ft./lbs. Repeat the sequence several times.
14. Install the right O2 sensor into the header collector and tighten.
15. Connect the O2 sensors to the vehicle harness.
16. Install the battery cables into their body clips if they were removed previously.
17. Use the supplied cable ties to secure any wires away from the headers to prevent them from being damaged by hot exhaust pipes.
18. Install the spark plugs.
19. Install the coil packs and spark plug wires.
20. Inspect the O-ring on the dipstick tube and replace if necessary. Install the dipstick tube making sure the O-ring is fully seated into the engine block and install the 10 mm bolt in to the bracket (97-2000 Model). Some adjustment of the bracket may be necessary. Install the dipstick. **NOTE:** On 2001-2004 vehicles, use the provided spacer and an M10 x 35mm bolt to install the dipstick tube in its original location.
21. Install the alternator and accessory drive belt.
22. Refer to the installation instructions for the Blackheart header-back exhaust system.
23. Recheck your work. Verify all connections and hardware are properly installed and tight.
24. Connect the battery, start the engine, and check for leaks. Re-check your work before lowering the car.
25. Install the decorative engine covers.
26. 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. Diablosport Tuners are recommended.

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

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.

Technical Support: 1-866-464-6553

199R11344

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