



**2001-04 C5 Corvette – 5.7L V8, 304SS, 1-3/4” Shorty Headers
70301313-RHKR**

**Installation Instructions
C.A.R.B. EO# D-115-27**



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 /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
599R94	2	Blackheart Decal – 2” x 4”
505R53	6	10mm x 1.5 x 50mm Bolt
539R25	6	10mm Serrated Flange Nut
505R91	1	M10 x 35mm Flange bolt
540R35	1	½ “ Dipstick Spacer
217R4	6	Cable Tie
199R11361	1	Instruction Sheet

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 Shorty Header
1 - Right Shorty Header
1 - Accessory Pack

TOOLS NEEDED:			
3/8 Drive Metric Socket Set	Spray Lube (WD-40®)	15mm Deep Socket	
12” 3/8 Drive Extension	5/8 Spark Plug Socket	13mm Deep Socket	
3” 3/8 Drive Extension	Anti-Seize	10mm Deep Socket	
3/8 Drive Universal	O2 Sensor Socket or Wrench		

Recommended Parts: Exhaust Manifold Gasket (G.M. P/N 12617944) and A.I.R. Gasket (G.M. P/N 219-594).

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 at the manifold flanges to the down pipes with penetrating oil or WD-40®.

REMOVAL OF OEM EXHAUST MANIFOLDS:

1. Remove the (x6) 15mm nuts at the flanges on the exhaust manifold flanges that connect the down pipes to the catalytic converters.
2. Unplug the left and right O2 sensors in the manifolds only. It is not necessary to unplug the post catalyst O2 sensors.
3. Remove the (x2) 15mm bolts at the H-pipe hanger bracket on the transmission.
4. Remove the decorative engine cover on both sides of the engine.
5. Remove the (x8) spark plug wires and spark plugs.
6. Remove the ignition coil bracket hold-down bolts and lay the coil pack assemblies on to the intake manifold.
7. 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. Be careful not to damage the gaskets as you will be reusing them later.
8. Remove the accessory drive belt and remove the alternator.
9. Remove the 15mm bolt securing the dipstick tube. Remove the dipstick.
10. 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 70301313-RHKR SHORTY 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. Replace the gasket (if necessary) with an OEM exhaust manifold gasket **P/N GM-12617944**. **Repair any damaged threads or broken bolts.**
2. Remove the factory doughnut seal at the 3 bolt flange from the factory manifold and install it into the new Blackheart shorty header.

NOTE: Expand the locking tabs on the metal ring of seal (if necessary) to keep the seal from falling out during installation.

3. Place a small amount of anti-seize on the threads of the O2 sensors and install the sensors into the Blackheart headers.
4. Install (x3) supplied M10 x 50mm bolts into each header flange from the top.
5. Install the LEFT (driver's side) 70301313-RHKR shorty header from the top of the engine bay past the steering column and into position. Position the factory manifold gasket and install the supplied (x6) 8mm x 1.25 x 25mm header bolts. Hand tighten all the bolts evenly so that the header is flush against the cylinder head, but can still be moved slightly. Tighten the bolts from the center out towards the ends of the manifolds evenly and in steps to 25-28 ft./lbs. Repeat as needed.
6. Install the RIGHT (passenger's side) 70301313-RHKR shorty header from the top of the engine bay into position. Position the factory manifold gasket and install the supplied (x6) 8mm x 1.25 x 25mm header bolts. Hand tighten all the bolts evenly so that the header is flush against the cylinder head but can still be moved slightly. Tighten the bolts from the center out towards the ends of the manifolds evenly and in steps to 25-28 ft./lbs. Repeat as needed.
7. Inspect the O-ring on the dipstick tube (replace, if necessary). Install the dipstick tube. Be sure the dipstick is fully seated into the block, install the supplied dipstick spacer between the cylinder head and dipstick mounting flange with the supplied M10 x35mm flange bolt.
8. Install the spark plugs. Install the coil packs on the valve covers.
9. Use a single edge razor blade and carefully remove the gasket from each air injection manifold flange. Replace with a factory GM gasket (if necessary – **G.M. P/N 219-594**). Install the left and right air injection manifolds and connect the supply hoses on the driver's side.
10. Install the alternator and accessory drive belt.
11. Install the spark plug wires.

12. Install the flanges from the catalytic converters on to the M10 x 50mm bolts at the manifold flanges (re-check that the Doughnut seal is fully seated into the flange of the header). Install the M10 flange nuts on to the bolts and tighten evenly on all three bolts.
13. Plug in the O2 sensors and be sure the harnesses are away from the header tubes. Use the supplied cable ties as necessary.
14. Install the (x2) 15mm bolts at the H-pipe hanger on the transmission.
15. Recheck you work. Verify all connections, exhaust alignment, and clearances. Verify all hardware is properly installed and tight.
16. Remove the jack stands and lower the car.
17. Connect the battery, start the engine, and check for leaks. Re-check your work before lowering the car.
18. Install the decorative engine cover
19. After 150 miles recheck all connections and clamps.

Enjoy your new Blackheart Exhaust!

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

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