



## 1997-2004 C5 Corvette Race Only – 3” 304ss Header Back Exhaust System

**705013148RHKR - X-Pipe w/o Mufflers & w/ Cats**  
**705013149RHKR - X-Pipe w/o /Mufflers & w/o Cats**  
**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 BLACKHEART 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.**

**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.

**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
556R27	4	3” Couplers
556R23	2	3” Band Clamps
580R31	2	Gaskets
505R88	4	M10 x 50mm Allen bolts
339R25	4	M10 Flange Nut
505R57	4	5mm x 14mm Bolts
546R12	4	5mm Lock Washer
539R23	4	5mm Nut
517R71	1	Hooker Logo Plate
199R11343	1	Instruction Sheet
599R94	2	Blackheart Decals

Parts List:	
Qty.	Description
1	Accessory Pack
1	X-Pipe Assembly
1	LT Link w/ cat or w/o cat
1	RT Link w/ cat or w/o cat
1	LT Over-Axle Pipe
1	RT Over-Axle Pipe
1	LT Muffler Delete
1	RT Muffler Delete

Tools Needed:
3/8 Metric Socket Set
12” 3/8 Drive Extension
13mm & 15mm Deep Socket
7/8” Wrench
3/8 Universal
8mm Allen Wrench
8MM Box Wrench (x2)
Spray Lube (WD40®)

## INSTALLATION:

**NOTE:** Your Hooker Blackheart Race exhaust system is designed to be used with Hooker Blackheart Headers **70101353-RHKR**, **70101354-RHKR**, and **70101355-RHKR** and is not designed to be used with the factory manifolds or catalytic converters. The following installation instructions assume the Headers have already been installed.

**IMPORTANT: Inspect your accessory pack: BEFORE YOU START!**

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

**WARNING! Never support a vehicle with a floor or bumper jack.**

### REMOVING THE OEM EXHAUST:

1. Un-plug the left and right post catalyst O2 sensors, remove the O2 harnesses from the retainers along the transmission tunnel.
2. Remove the (x2) 15mm bolts at the H-pipe hanger bracket on the transmission.
3. Remove the (x4) bolts at the flanges connecting the OEM mufflers to the H-pipe (**Figure 1**).
4. Support the H-pipe, remove the (x2) 13mm bolts at the spring hangers and remove the OEM H-pipe and catalytic converters
5. Remove the O2 sensors from the OEM H-pipe, but keep them separated (left and right).
6. Remove the (x2) nuts and (x2) bolts from the rear sway bar center mounting bushings. Do not remove the lower control arm bolt. Allow the sway bar assembly to swing down and away from the exhaust pipes (**Figure 1**).
7. Remove the (x2) 13mm bolts at each muffler isolator assembly (**Figure 1**).
8. Remove the OEM muffler assemblies.

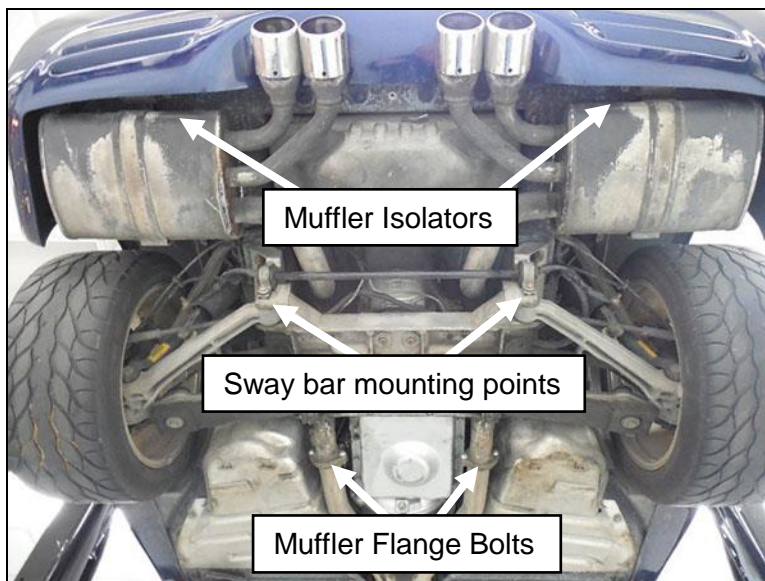


Figure 1

### INSTALLATION OF YOUR HOOKER BLACKHEART RACE ONLY EXHAUST SYSTEM:

1. Install the supplied 3" exhaust coupler over each header collector with the bolts to the inside and the nuts facing down.
2. Apply a small amount of anti-seize to the threads of each O2 sensor. Install the left and right O2 sensors into the catalyst pipes.

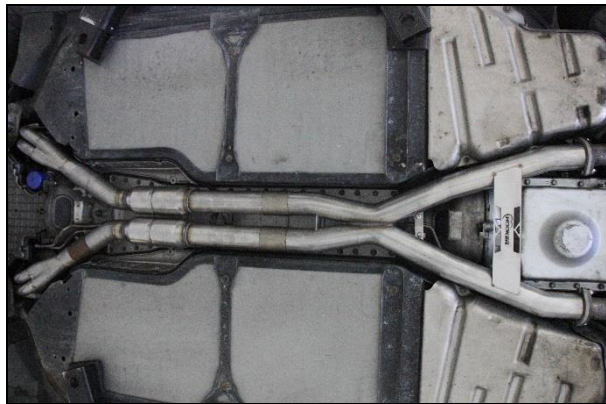
**NOTE:** The O2 sensors will be facing in towards the center of the car and cross from left to right the same way the OEM sensors were installed. If the sensors are pointing outward the link pipes are installed incorrectly (**Figure 2**).



**Figure 2**

3. Install the right and left catalyst or catalyst delete pipes on to the header collector. Slide the coupler onto the pipe with a 50-50 split between the header collector and the catalyst or catalyst delete pipe and tighten the coupler to allow for adjustment.
4. Run the O2 sensor wire along the transmission tunnel and install into the retainers away from the exhaust. Connect the left and right O2 harness.
5. Install a supplied 3" exhaust coupler on to the outlet of each catalyst or catalyst delete pipe with the bolts at the top of the pipe and the nuts facing in towards the center of the tunnel.
6. Install the X-pipe into the car with the spring hanger facing up and the Hooker logo-plate facing down.
7. Install the (2x) 13mm bolts at the spring hanger in the center of the X-pipe.
8. Slide the coupler from the catalyst or catalyst delete pipe on to the X-pipe inlet and align with a 50-50 split between the catalyst or catalyst delete pipe and the x-pipe inlet pipe. Tighten the couplers to allow for adjustment (**Figure 3**).

**NOTE:** The couplers should be installed with the bolts at the top of the pipes to reduce the chance of the couplers being damaged on the road. Access to the bolts on the couplers can be accomplished with a 3/8 drive ratchet and a shallow 15mm socket between the tubes when installing the coupler bolts at the top of the tube.



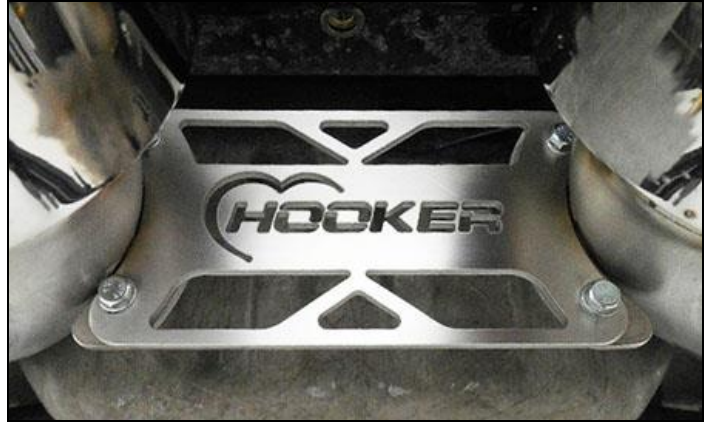
**Figure 3**

9. Inspect the exhaust hanger isolators and any OEM hardware to be reused. Replace, if necessary.
10. Install the sway bar.
11. Install the left and right over-axle pipes from the front side of the rear sub-frame over the axle and towards the rear of the car.
12. Install the supplied gasket between the flanges of the over-axle pipe and the X-pipe. Install the supplied 10mm Allen bolts and flange nuts. Tighten the bolts to allow for adjustment using an 8mm Allen wrench.
13. Install a supplied 3" band clamp over the expanded end of the left and right link pipes (marked **L – R**). Install the link pipes on to the over-axle pipes and tighten the clamp to allow for adjustment (**Figure 4**).
14. Install a supplied 3" band clamp over the expanded end of each muffler. Install the muffler isolator on to the hanger bracket and install the muffler or muffler delete assemblies. Install the (x2) 13mm nuts at the isolators and tighten. Tighten the band clamps to allow for adjustment.

15. Install the Hooker logo bracket between the tail pipes and install the 5mm hardware and tighten to allow for adjustments. Make the necessary adjustments to align the tips and muffler assemblies. Tighten the logo plate hardware followed by the band clamps (**Figure 5**).



**Figure 4**



**Figure 5**

16. Adjust the system for best alignment and tighten the couplers and hardware starting at the front and working back.
17. Check all the hardware and the connection points for proper installation and clearance.
18. Remove the jack stands and lower the car. Connect the battery and remove the wheel blocks.
19. Start the vehicle and check for leaks and loose hardware.
20. Check all hardware again after the first 150 miles of driving.

**NOTE:** Your HOOKER Blackheart RACE exhaust is equipped with cats for emissions reductions purposes only and may still result in a check engine light. The use of a tuner is recommended to correct this condition and take full advantage of the performance potential of this exhaust system. Holley recommends a DiabloSport tuner.

**Enjoy your Blackheart Exhaust!**

**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**

© 2017 Hooker Headers, Inc. All rights reserved

**199R11343**  
**Date: 6-21-17**