



## 2005-13 C6/Z06 Corvette RACE ONLY 3" Exhaust System w/ X-pipe 70501366-RHKR – w/ Dual Mode Mufflers & 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.**

**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.**

**IMPORTANT NOTE:** This Dual Mode exhaust system is intended to be used on vehicles originally equipped with the NPP (dual mode) exhaust option from the factory (muffler has valves Figure 3) and is NOT intended to convert a non-NPP equipped vehicle to dual mode.

#### **INCLUDED HARDWARE:**

Accessory Pack Contents:		
P/N	Qty.	Description
556R23	4	76mm Band Clamps
199R10995	1	Instruction Sheet
505R73	2	1/4-20 x 3/4 SS Bolts
552R234	2	6" Length 7/32 Hose
539R23	2	1/4-20 Lock Nuts
599R94	2	Blackheart Decals
517R80	1	Hooker Logo Plate
271R1125A	2	24" O2 Extension Harnesses
556R27	4	3" Torca Coupler

Parts List:	
Qty.	Description
1	Accessory Pack
1	Left Over-Axle Pipe
1	Right Over-Axle Pipe
1	Left Muffler Assembly
1	Right Muffler Assembly
1	X-Pipe Assembly
1	Left Link Pipe w/ Cat
1	Right Link Pipe w/ Cat

Tools Needed:
Spray Lube (WD40®)
3/8 Socket set
12" 3/8 Drive Extension
13mm & 15mm Deep Socket
8mm & 13mm Wrench
3/8 Universal
8mm, 15mm, & 18mm Socket
15mm Box Wrench
Round File or Dremel Tool
18mm Deep Socket
7/16 wrench

#### **INSTALLATION:**

**NOTE:** Your Hooker Blackheart Race exhaust system is designed to be used with Hooker Blackheart headers P/N **70101327-RHKR**/P/N **70101323-RHKR (Z06)** or P/N **70101317-RHKR (C6)** and is not designed to be used with the factory manifolds or catalytic converters.

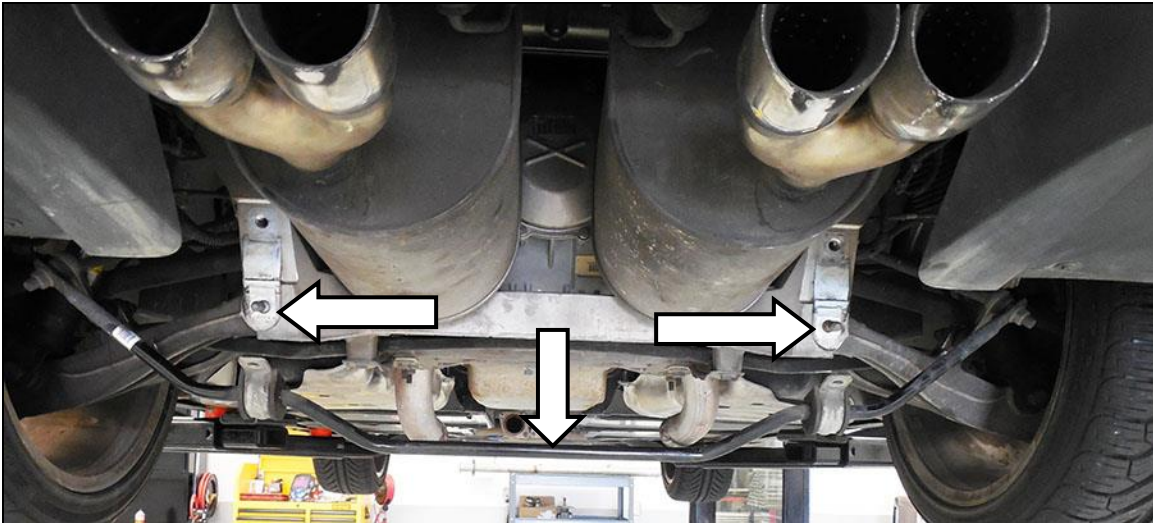
**IMPORTANT: Inspect your accessory pack: BEFORE YOU START!**

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. Spray the muffler isolators, muffler clamp bolts, and the H-pipe flange nuts with WD-40® or equivalent.
2. 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 mufflers. See **Figure 1**.



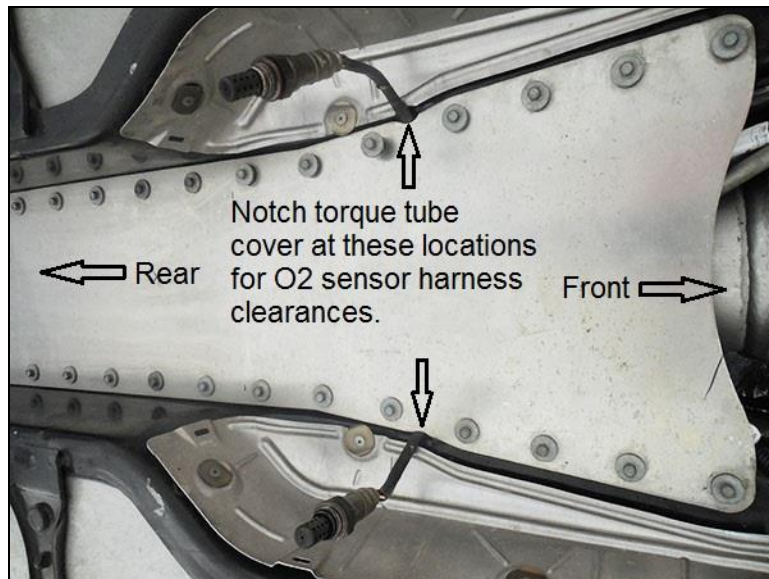
**Figure 1**

3. Loosen the clamps at the end of the X-pipe where it connects to the muffler inlet pipes.
4. Remove the (x4) nuts at the X-pipe where it connects to the catalytic converter down pipes. Remove the (x2) nuts at the center spring hangers. Slide the flanges off of the studs and remove the X-pipe from the muffler inlet pipes.
5. Remove the (x2) bolts from the muffler hangers on each muffler. Remove the **Left** side muffler first.
6. (FOR Z06) Remove the heat shield above the mufflers and remove the **Right** side muffler (read note below).
 

**Z06 NOTE:** Remove the 7mm screws securing the inner fender well to the lower edge of the rear valance on the passenger's side. Remove the vacuum ball inside the rear valance. This will allow the valance to be pushed up providing extra room to rotate the right muffler assembly when removing it from the car. Be patient when removing the Right muffler assembly. Finding the right combination of rotation and working the muffler out over the transaxle will take a few minutes. Resist the temptation to pry on the muffler against the trunk floor or against the rear valance.
7. **Follow installation instructions for Hooker Blackheart Headers P/N 70101327-RHKR / 70101323-RHKR (Z06) or 70101317-RHKR (C6) for header installation.**

## INSTALLATION OF YOUR HOOKER BLACKHEART RACE EXHAUST:

1. Inspect the exhaust hanger isolators and any OEM hardware to be reused. Replace, if necessary.
2. Mark the torque tube tunnel cover at the locations shown in **Figure 2** (outlining a penny or dime for reference works well).
3. Remove the tunnel cover and notch at the locations marked. Be sure and check for accuracy before you begin. The notch should be centered over the opening in the frame rail under the cover.
4. Re-install the cover and leave the last 7 forward bolts out on each side of the cover for now.



**Figure 2**

5. Install (x2) **3" Torca couplers** onto the header collector (bolt to the **inside** and nut facing down).
6. Install the post catalyst O2 sensors into the Blackheart cats and plug the extension harness into the sensor.
7. Pull the tunnel cover down slightly and slide the left O2 sensor harness between the cover and the frame rail stopping at the notch. Install the catalyst on to the header collector with the coupler and tighten the coupler to allow adjustment. Push the excess harness up through the notch in the cover and adjust for slack at the sensor to allow for exhaust movement. Repeat the process for the right side catalyst and O2 sensor harness.
8. Install the remaining cover bolts and tighten the bolts from the rear forward. Check the O2 sensor harness for movement as the bolts are tightened to be sure the harness is not pinched between the cover and the frame rail. Recheck the harnesses for free movement after the bolts are tight.
9. Route the O2 sensor harness away from the exhaust pipe and connect to the factory harness. Re-mount the harness plug to the holders at the firewall if they were removed previously.
10. Install a 76 mm band clamp on to the outlet of each catalyst (bolt to the **outside** and nut facing down).
11. Install a 76mm band clamp on each muffler inlet pipe with the bolts on the outside of the pipe and nut facing down. Tighten the clamp just enough to hold the clamp. **DO NOT** compress the tube.
12. Install the muffler isolators on to the Hooker Blackheart muffler hanger rods in the same direction they were removed from the O.E.M mufflers. See **Figure 3**.
13. Remove the rubber end from the left and right exhaust valve actuator control line, attach the (x2) supplied 6" section of 7/32 vacuum line to the actuator control lines coming from the car.
14. Install the **Right** muffler into the car with the inlet pipe clear of the parking brake cable. Connect the vacuum hose to the exhaust valve actuator on the muffler assembly.
15. Align the isolator assemblies as shown in **Figure 3**. Install the isolator bolts.
16. Install the **Left** muffler into the car with the inlet pipe clear of the parking brake cable. Connect the vacuum hose to the exhaust valve actuator on the muffler assembly.
17. Align the isolator assemblies as shown in **Figure 3**. Install the isolator bolts.
18. Install the HOOKER logo plate between the mufflers and install the supplied hardware. Tighten to allow for adjustment.
19. Install the **Left** side over-axle pipe into the muffler. Leave the clamp loose for now.
20. Install the **Right** side over-axle pipe into the muffler. Leave the clamp loose for now.
21. Install the X-pipe onto the catalyst with the spring hanger facing up.
22. Install the spring hangers and nuts.



Figure 3



Figure 4

23. Tighten the clamps at the catalyst outlet to allow for adjustment.
24. Install a Torca coupler to each X-pipe outlet with the bolts to the inside and the nuts facing down.
25. Align the over-axle pipes with the X-pipe and slide the couplers from the X-pipe on to the over-axle pipe and adjust for a 50/50 split on each pipe. Position the couplers with good clearance at the transmission. Tighten the nuts to allow for adjustment.
26. Install the sway bar. Torque the fasteners to the recommended specifications.
27. Check all the hardware and the connection points for proper installation and clearance.
28. Adjust all components for proper alignment and tighten all clamps and hardware starting at the front and working towards the tailpipes.
29. Align the Hooker Logo plate, square the tips, and tighten the supplied hardware.
30. Remove the jack stands and lower the car. Connect the battery and remove the wheel blocks.
31. Start the vehicle and check for leaks and loose hardware.
32. Check all hardware again after the first 150 miles of driving.

**NOTE: This exhaust system is for RACING USE ONLY. The use of a tuner is recommended to prevent the check engine light from illuminating and to take full advantage of the performance potential of this exhaust system. We recommend 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.

HOKKER™ 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. HOKKER™ 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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