



**2014-15 C7 Corvette
Blackheart 3" 304SS Axle-Back Exhaust System w/ AFM Valves
70401321-RHKR w/ NPP Mufflers**

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.

INCLUDED HARDWARE:

Accessory Pack Contents:		
P/N	Qty.	Description
556R23	2	76mm Band Clamps
199R10956	1	Instruction Sheet
505R73	2	1/4-20 x .750 Bolts
599R94	2	Blackheart Decals

Parts List:	
Qty.	Description
1	Left Over-Axle Pipe
1	Right Over-Axle Pipe
1	Left NPP Muffler
1	Right NPP Muffler

Tools Needed:
Spray Lube (WD 40®)
3/8" Drive Metric Socket Set
12" 3/8 Drive Extension
6" 3/8 Drive Extension
15mm & 18mm Deep Sockets
1/4" Socket Set w/ 7mm Socket
Small Flat Blade Screwdriver

INSTALLATION:

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 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:

NOTE: Removal of the rear bumper fascia is necessary and will require a second person to help with the removal and re-installation.

1. Remove the side vents. Remove the reflectors and license plate to access the mounting bolts behind them. Be very careful not to break the tabs. See **Figures 1, 2, & 3.**
2. Remove the screws behind the reflectors (x2 each), license plate (x2), above the tips (x2) and bottom of the bumper cover (x5 each side – 10 total).
3. Release the clips on the fascia from the inside and pull outward and up while holding the tabs on the clips. Be careful not to break the tabs on the clips. Take your time and do one at a time. **Note:** Place a small piece of tape on the fascia at the back up camera to prevent the camera from scratching the paint on the fascia as it pulls out.
4. Remove the fascia and place out of the way.



Figure 1

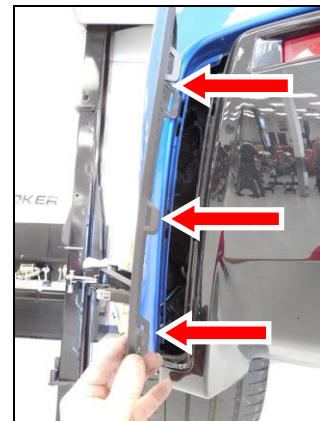


Figure 2

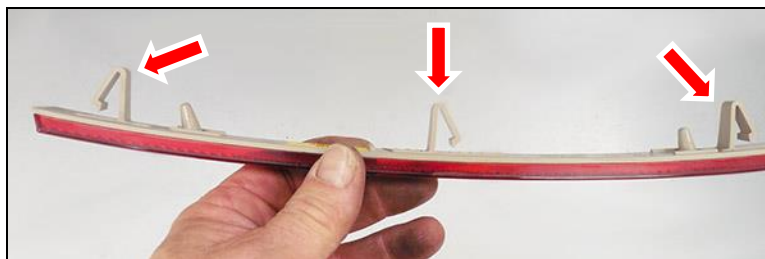


Figure 3

5. Remove the bolts on the lower skid plate and remove.
6. Support the X-pipe and remove the (x4) 15mm nuts at the flanges on the down pipes (**Figure 4**). Loosen the 15mm clamp bolts at the slip joint connecting the X-pipe to the over-axle pipes (**Figure 5**). Remove the (x2) 13mm bolts at the center support hanger on the X-pipe (**Figure 5**). Remove the X-pipe from the over-axle pipes.
7. Remove the 13mm bolts at each muffler hanger (x2 each). Remove the (x2) 13mm bolts between the mufflers.
8. Unplug the electrical connector on each AFM valve on each muffler assembly and at the tips for the NPP valve (if applicable).

NOTE: To unlock the connectors, push down on the GREY lock tab and slide the lock backwards away from the valve. Unplug the connector.

NOTE: Automatic transmissions must be placed in neutral for the driver's side over-axle pipe to clear the linkage. Following the procedure to place the vehicle in "service mode" will allow the shifter to be moved from PARK with the engine off. Be sure to shut the ignition off after the shifter is moved from park to prevent the battery from being drained.

9. Remove the left and right muffler assemblies from the vehicle.
10. Remove the AFM and NPP actuator from the OEM muffler assemblies by removing the (3) 8mm screws on each valve.

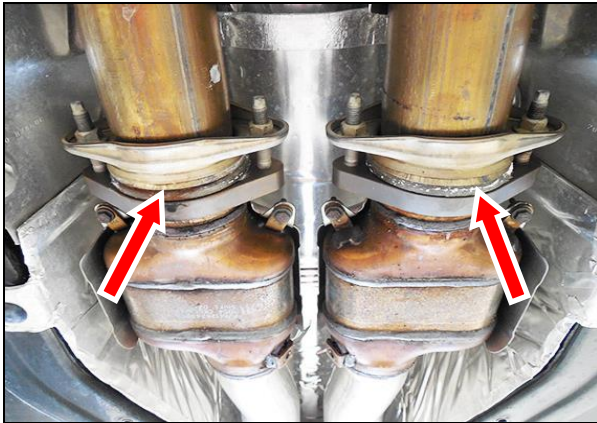


Figure 4

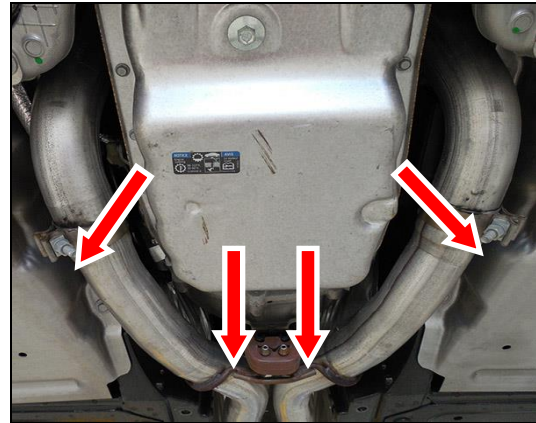


Figure 5

INSTALLATION OF THE BLACKHEART AXLE-BACK EXHAUST:

IMPORTANT: Loosen the clamp completely on the slip joint and install the left and right Blackheart over-axle pipes into the X-pipe to verify the X-pipe slip joints are opened far enough to accept the new Blackheart over-axle pipe. This will make installation in the car much easier.

1. Install the AFM valve actuator onto the new Blackheart over-axle pipes and the NPP valves on to the Blackheart NPP mufflers. Line up the actuator mounting holes and install the (x3) 8mm screws. Be sure the drive on the actuator is correctly seated into the valve coupler (**Figures 6 & 7**)
2. Install the X-pipe onto the down pipes and install the (x4) 15mm flange nuts by hand for now. Loosely install the (x2) 13 mm bolts at the X-pipe center support hanger.
3. Install the left and right over-axle pipes with the valve assembly facing in towards the transaxle. Install the small end of the over-axle pipe into the OEM X-pipe slip joint and tighten the clamps to allow for adjustment. Plug in and lock the actuator harness connector (**Figure 6**).
4. Install the 76mm band clamps onto the inlet pipes of the mufflers. Position the clamp with the bolt on the outside of the pipe and the nut facing down. Tighten the clamps just enough to hold the clamp in place during the installation of the muffler but not compress the slip joint.



Figure 6



Figure 7

5. Remove the muffler hanger isolators from the OEM mufflers and install on to the Blackheart muffler hanger rods.
6. Install the left (driver's side) muffler first on to the left over-axle pipe. Locate the muffler hangers at the bolt holes and install the (x2) 13mm bolts on the isolator assembly. Plug in and lock the actuator harness connector (**Figure 7**).

7. Install the right (passenger's side) muffler on to the right over-axle pipe. Locate the muffler hangers at the bolt holes and install the (x2) 13mm bolts on the isolator assembly. Plug in and lock the actuator harness connector (**Figure 7**).
8. Install the (x2) 1/4" x 3/4" flanged bolts into the brackets between the mufflers and install the 1/4" flange nuts at the back of the bracket, tighten the bolts to allow for adjustment.
9. Start at the front of the exhaust and tighten the flange bolts, center support bolts and clamps. Align the exhaust as you work towards the rear of the car.
10. Adjust the pipes for best clearance and tip alignment with the rear fascia removed. Use a straight edge to align the tips and tighten all hardware starting at the front and working towards the rear. Final tip alignment can be done after the rear fascia is installed if necessary.
11. Install the rear fascia in reverse order it was removed.

NOTE: Be sure the two locator tabs on either side of the backup camera go into the slots in the bumper cover and not under them. It will be helpful to lift up on the center of the fascia through the opening in the center of the fascia pushing the tabs up into the slots and under the backup camera. Keep pressure inward as the remainder of the locking tabs are aligned and pressed into place.

12. Install the hardware, reflectors, side vent grates, and license plate.
13. If additional alignment is necessary, loosen the clamps at the X-pipe and the mufflers. Adjust the depth and alignment of the tips by rotating the pipes and moving the mufflers in or out on the tubes as necessary. Tighten the clamps on the X-pipe and muffler.
14. Re-check all hardware, clearances and electrical connections.
15. Install the skid plate. Do not over tighten the bolts it is easy to damage the threads.
16. Remove the jack stands and lower the car. Connect the battery and remove the wheel blocks.
17. Start the vehicle and check for leaks and loose hardware. Check all hardware again after the first 150 miles of driving.

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.

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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.

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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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