



## 2015-16 Challenger 5.7L R/T Header-Back 3" Race Exhaust System 70502331-RHKR w/ Muffler (no tips) & 70502332-RHKR w/o Muffler (no tips)



### INSTALLATION INSTRUCTIONS

**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.

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
556R27	2	3" Torca Couplers
556R23	8	3" Band Clamps
199R11186	1	Instruction Sheet

Parts List	
Qty.	Description
1	H-Pipe Assembly
2	Muffler Assembly or Muffler Delete Pipe
1	Left - Tailpipe Assembly
1	Right - Tailpipe Assembly
2	OEM Tip Adapters
1	Left Header Link Pipe
1	Right Header Link Pipe

Tools Needed:	
Description	
3/8 Drive Metric Socket Set	
10" 3/8 Drive Extension	
15mm Deep Socket	
Spray Lube (WD-40®)	
13mm Wrench	
Rotary File or Saw	

#### **INSTALLATION:**

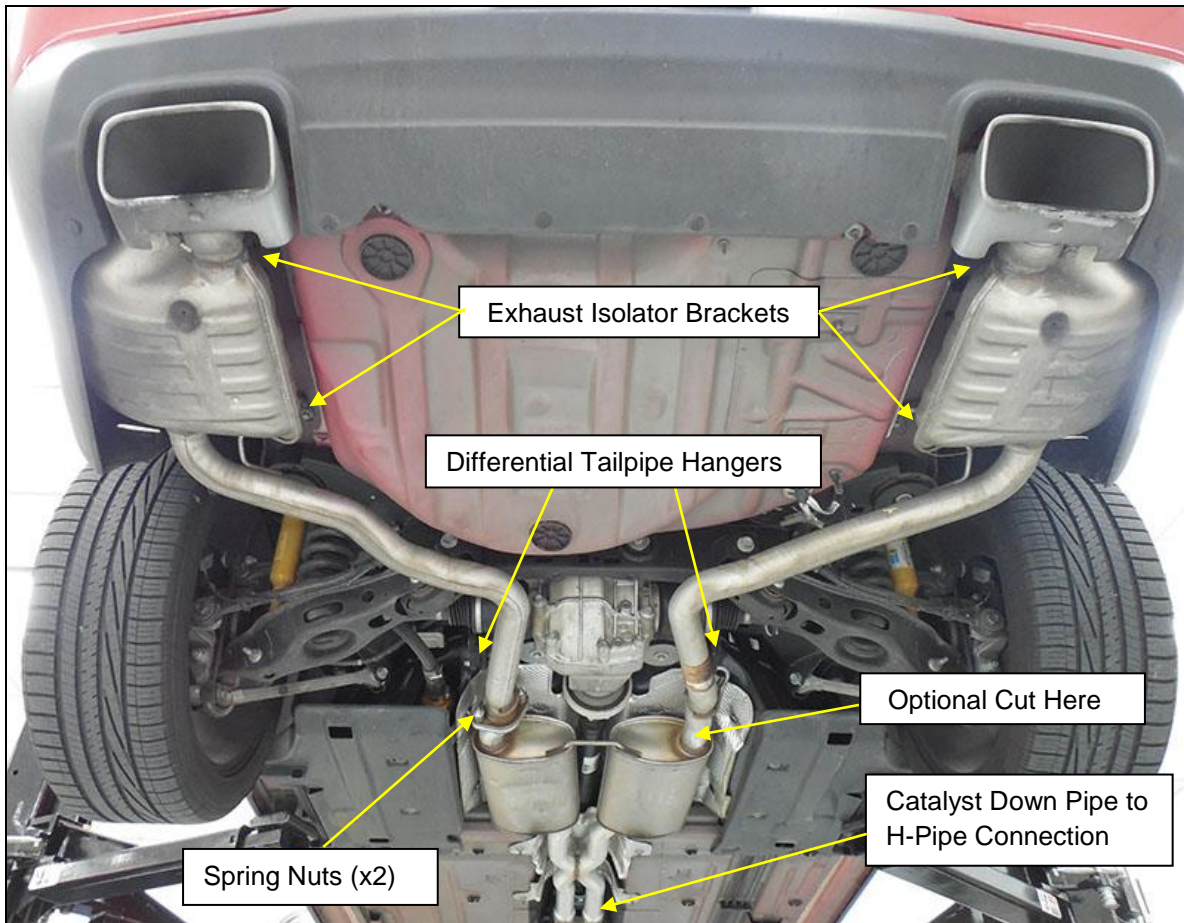
**Inspect your accessory pack: BEFORE YOU START!**

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.

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

## REMOVING THE OEM EXHAUST:

1. Support the exhaust at both ends.
2. Support the left and right muffler assembly. Remove the bolts at the isolator brackets on the left and right tailpipes (x2 each side). See **Figure 1**. Remove isolator at the differential tailpipe hanger from the tailpipe and leave the isolator on the factory hanger attached to the car.



**Figure 1**

3. Separate the left tailpipe from the resonators by removing the spring nuts at the flange (**Figure 1**). Lower and remove the tailpipe and muffler assembly from under the car.
  4. Loosen the clamps on the H-pipe where it connects to the catalytic converter down pipes and spray the connection with WD-40® (**Figure 1**).
  5. Lower the right muffler to clear the bumper. Remove the H-pipe and right side exhaust from the catalyst down pipes.
- NOTE:** Cutting the right tailpipe at the resonator will make removal much less difficult, but is not necessary (**Figure 1**).
6. Take a picture of the tailpipe isolator assemblies before they are removed from the tailpipes for reference later. Remove the isolator assemblies from the factory exhaust. Keep the isolator assemblies separated (left and right) as they are different.
  7. Loosen the clamp at the exhaust tip and remove the exhaust tip from the muffler.
  8. Remove the clamp that attaches the tip to the muffler, you will be reusing it with the new exhaust. Cut or grind the spot weld at the clamp and remove the clamp from the muffler (**Figure 8**).

## INSTALLATION OF YOUR HOOKER BLACKHEART HEADER-BACK EXHAUST:

**NOTE:** This exhaust kit is designed to be used with Blackheart long tube headers P/N 70102301-RHKR or 70102302-RHKR and these instructions assume that the headers have already been installed.

1. Inspect the exhaust hanger isolators and any OEM hardware to be reused. Replace, if necessary.

2. Install the 3" Torca couplers on to each header collector. Position the couplers with the bolts on the outside of the collector and the nuts facing down (**Figure 9**).
3. Install the header link pipes with the long leg to the header collector. Position the coupler for a 50/50 split between the collector and the link pipe. Tighten the coupler to allow for adjustment of the link pipe. Position the link pipes with the short end evenly aligned inside the transmission tunnel (**Figure 2**).
4. Install a 3" band clamp over each link pipe and position the clamp with the bolt at the bottom of the pipe and the nut facing the outside of the car (**Figure 2**). Install the **H-pipe** expanded end on to the link pipes. Spray the pipes with WD-40® to ease installation. Align the clamps as shown in **Figure 2**. Tighten the clamps to allow for adjustment. Support the H-pipe to prevent damage to the catalytic converter down pipes.
5. Install a supplied 3" band clamp over each leg of the H-pipe outlet (bolt outside and nut down). See **Figure 3**.
6. Install the **mufflers or muffler delete pipes** (depending on the kit you have) on to the H-pipe. Be sure the muffler is fully seated on to the H-pipe. Align and tighten the clamps to allow for adjustment (**Figure 3**).
7. Install a supplied 3" band clamp over each muffler or muffler delete outlet tube (bolt inside and nut down). See **Figure 4**.
8. Spray the right isolators with WD-40® and install the isolators on the hangers at the back of the tailpipe. Refer to pictures for proper orientation of the isolator assemblies before installation. Install the **right side tailpipe** completely into the muffler or muffler delete pipe. Rotate the tailpipe up and install the hanger into the differential isolator. Install the bolts for the tailpipe hangers and tighten to specification (**Figure 5**). Tighten the clamps at the muffler to allow for adjustment (**Figure 4**).
9. Spray the Left isolators with WD-40® and install the isolators on the hangers at the back of the tailpipe. Refer to pictures for proper orientation of the isolator assemblies before installation. Install the **left side tailpipe** completely into the muffler or muffler delete pipe. Rotate the tailpipe up and install the hanger into the differential isolator. Install the bolts for the tailpipe hangers and tighten to specification (**Figure 6**). Tighten the clamps at the muffler to allow for adjustment (**Figure 4**).
10. Install a supplied 3" band clamp over each tailpipe (bolt outside nut down). See **Figure 7**.
11. Install the supplied adapter to the OEM tip and tighten the clamp to allow for adjustment. Install the **Left and Right O.E. tip** assembly and clamp on to the tailpipe. Position the clamps. Align tips and tighten the clamps (**Figure 7**).
12. Check all the hardware and the connection points for proper installation. Adjust and tighten all clamps starting at the front and working towards the tailpipes.
13. Remove the jack stands and lower the car. Connect the battery and remove the wheel blocks.
14. Start the vehicle and check for leaks and loose hardware.
15. Check all hardware again after the first 150 miles of driving.

**NOTE: It is normal for the Blackheart Header-Back Exhaust System to emit smoke for the first few minutes during break-in period.**

**Enjoy your Blackheart Exhaust!**



**Figure 2**



**Figure 3**



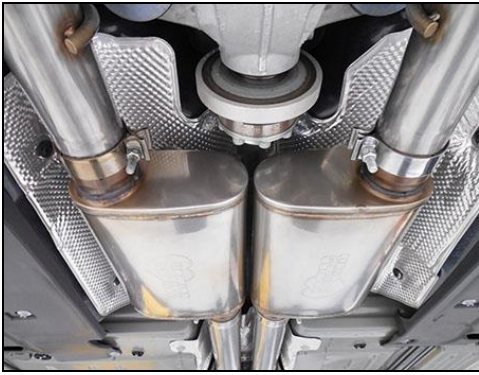


Figure 4

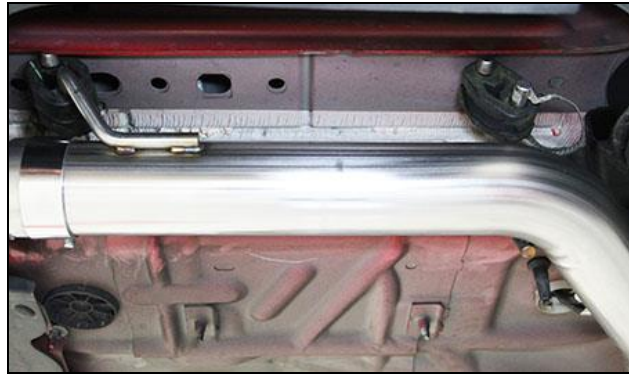


Figure 5



Figure 6

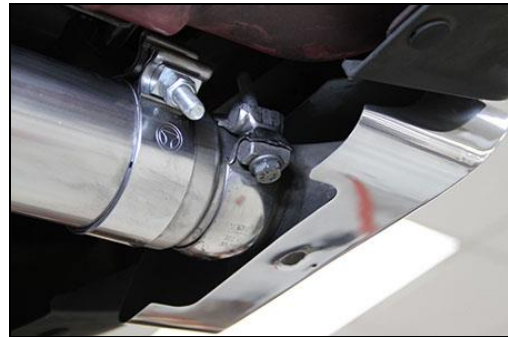


Figure 7



Figure 8



Figure 9



Technical Support: 1-866-464-6553