



**2008-2015 Challenger / Charger / 300
6.1L-6.4L V8, 304SS, 1 7/8" Shorty
Headers 70302302-RHKR
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 and patience. 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 24 inches. A floor hoist is ideal and recommended. 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.** This installation requires a moderate amount of mechanical ability and a good selection of hand tools to make installation less difficult. If you are not confident in your mechanical ability or lack the tools listed below please allow a professional to perform the installation of your BLACKHEART headers.

CAUTION! WORK ONLY ON A LEVEL SURFACE. USE JACKS /JACKSTANDS 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:			Tools Needed:	
P/N	Qty.	Description		
505R21	16	8mm x 1.25 x 25mm Bolts	3/8" Drive Metric Socket Set	16mm Deep Well Socket
599R94	2	Blackheart Decal	*13mm Compact Swivel Socket*	15mm Deep Well Socket
199R10850	1	Instruction Sheet	*10mm Compact Swivel Socket*	14mm Deep Well Socket
Parts List:	1	Left Side Shorty Header	*24" Long 3/8 Drive Extension*	13mm Deep Well Socket
	1	Right Side Shorty Header	1" long 3/8 Drive Extension	Metric box wrench set
	1	Accessory Pack	3" long 3/8 Drive Extension	Penetrating Oil / WD40®
			3/8" Drive Universal	10mm ratcheting wrench

* OEM Dodge Manifold Gaskets recommended: 6.1L-6.4L = 5038098AA / 5038099AA (2008-2015)

PRE-INSTALLATION:

IMPORTANT! Please read and understand instructions before attempting installation.

NOTE: Presoak the studs to the catalytic converters and Manifold Bolts with WD-40® or equivalent prior to starting installation.

1. Place the vehicle on a flat solid surface, set the parking brake, and block the front wheels.
2. **Disconnect the negative terminal of the battery.** Lift the vehicle a minimum of 24 inches and support with jack stands.

3. Remove both front wheels (NOT NECESSARY BUT HELPFUL).
4. Remove the (X4) bolts securing the engine service cover under car.

EXHAUST MANIFOLD REMOVAL:

1. Unplug the (x2) pre catalyst O2 sensors and (x2) post catalyst O2 sensors. Mark the pre catalyst plugs with tape or a paint pen. Remove the catalytic converters and down pipes from the manifolds and exhaust system.
2. Remove the starter and heat shield.
3. Remove the left and right knock sensors.
4. Remove the manifold bolt securing the oil dipstick. Remove the dipstick.
5. Remove the air filter housing and piping.
6. Remove the (x8) bolts securing each manifold to the engine.
7. Take your time and find the best access and correct tool for each bolt. Use the 24" extension and the 10mm compact swivel socket where possible. Use the ratcheting 10mm wrench for the bottom center bolts over the engine mounts. The top center bolts are the most difficult to access. It may be necessary to remove the bolts securing the power distribution box on the passenger's fender well and moving it out of the way for better access to the bolts.

INSTALLATION OF 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. **Repair any damaged threads or broken bolts.**
2. Reinstall the dipstick tube after checking the condition of the O-ring (replace if necessary). **VERIFY THE TUBE IS IN THE ENGINE BLOCK!**
3. Install the purchased new Dodge exhaust manifold gasket with the supplied 8mm x 1.25 flange bolts in the (x2) bottom row holes. Install bolts just a few threads.
4. Hang the **RIGHT** 70302302-RHKR header assembly on to the bolts and loosely install the (x6) remaining bolts. Be sure to mount the dipstick tube when installing the bolts.
5. Access to most of the header bolts can be done with the 24" extension and a 13mm swivel socket through the primary tubes. Use a 13mm box wrench or ratcheting wrench to tighten any bolts not accessible with the extension and swivel socket. Tighten the bolts evenly in steps from the center out until all bolts are tight. Repeat this process several times.
6. Install the purchased new Dodge exhaust manifold gasket with the supplied 8mm x 1.25 Flange bolts in the (x2) bottom row holes. Install bolts just a few threads.
7. Hang the **LEFT** 70302302-RHKR header assembly on to the bolts and install the (x6) remaining bolts. Be sure to mount the dipstick tube when installing the bolts.
8. Access to most of the header bolts can be done with the 24" extension and a 13mm swivel socket through the primary tubes. Use a 13mm box wrench or ratcheting wrench to tighten any bolts not accessible with the extension and swivel socket. Tighten the bolts evenly in steps from the center out until all bolts are tight. Repeat this process several times.
9. Install the left and right knock sensors and covers.
10. Install the starter and connections. Install the starter heat shield.
11. Install the left and right catalytic converters and down pipes. Check the condition of the seal ring on the catalytic converter flange and replace if necessary. Plug in the O2 sensor harnesses. Be sure the pre-catalyst O2 sensor is connected to the previously marked connector.
12. Install the air box and piping. Install the power distribution box, if moved.
13. Recheck all connections and hardware to be sure all work is complete.
14. Install the engine service cover.
15. Check for proper clearance on all wiring harnesses, hoses, and lines around the headers to prevent damage from hot exhaust pipes.

16. Remove the jack stands and lower the car.

17. Start the vehicle and check for leaks.

18. **After the first 50 miles**, re-check all connections and clamps. Re-torque the header collector bolts to the catalytic converters.

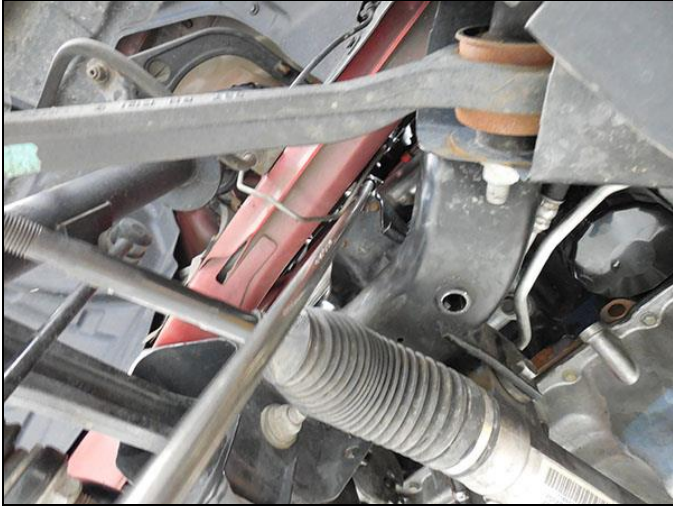


Figure 1 – Access to top bolts passenger's side



Figure 2 – Access to top bolts driver's side

NOTE: It is normal for your new Blackheart exhaust system to emit smoke for the first few minutes of operation.