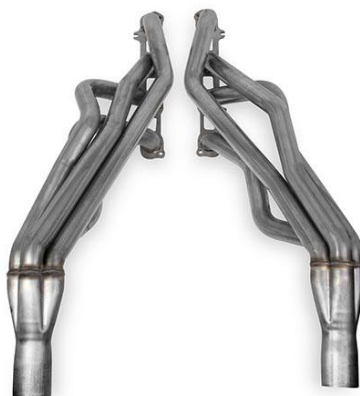




2008 – 2015 Challenger/Charger/300
70102301-RHKR – 5.7 - 6.1 - 6.4L V8, 304SS, 1 7/8" Long Tube Headers
70102302-RHKR – 5.7 - 6.1 - 6.4L V8, 304SS, 1 3/4" Long Tube Headers
Installation Instructions



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, PARTS LIST, & TOOLS NEEDED:

Accessory Pack Contents:			Tools Needed:	
P/N	Qty.	Description		
505R21	15	8mm x 1.25 x 25mm Bolts	*13mm compact swivel socket*	3/8" drive Universal
271R1120A	2	O2 Sensor Harness Extension	*10mm compact Swivel socket*	3/8" Drive Metric Socket Set
540R21	1	Dipstick Bushing	*24" long 3/8 drive Extension*	1/4" Drive Metric socket set
199R10830	1	Instruction Sheet	3" long 3/8 drive extension	10mm Ratcheting Wrench
			16mm Deep Well socket	14mm Ratcheting Wrench
Parts List:	1	Left Side Header Assembly	15mm Deep Well socket	Metric box wrench set
	1	Right Side Header Assembly	14mm Deep Well socket	Penetrating Oil / WD40
	1	Accessory Pack	1" long 3/8 drive extension	

* OEM Dodge Manifold Gaskets recommended: **5.7L** PN: 5045495AA / 5045496AA & **6.1/6.4L** PN: 5038098AA / 5038099AA

Check the hardware package. If anything is missing, please contact Technical Service at 1-866-464-6553 or 270-781-9741.

IMPORTANT! Please read and understand instructions before attempting installation

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

INSTALLATION:

1. Place vehicle on flat solid surface set parking brake and block 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
4. Remove the bolts (x4) securing the engine service cover under car

5.7L Exhaust Manifold Removal

1. Unplug the (x2) pre catalyst O2 sensors and (x2) post catalyst O2 sensors.

IMPORTANT! Mark pre catalyst o2 plug with a paint pen or tape to prevent plugging extension harness into the wrong plug after assembly.

2. Remove the catalytic converters and down pipes from the manifolds and exhaust system.
3. Remove the (x4) 10mm nuts (1 at each corner of each manifold that attaches the heat shield).
4. Remove the alternator support bracket (passenger's side).
5. Remove the dipstick tube.
6. Support the engine with a screw jack or floor jack. Only lift the engine slightly to take the weight off the engine mount and hardware.

NOTE: Do not support the engine from the oil pan.

7. Remove the **Driver's side** engine mount pedestal assembly from the block and rubber mount. This is only necessary to remove the heat shield for access to the manifold bolt. Remove the heat shield.
8. Remove the (x8) bolts securing the exhaust manifold to the cylinder head. Remove the exhaust manifold and gasket. Clean any debris from the cylinder head surface in preparation for the new gasket.
9. Re-install the Driver's side engine mount pedestal assembly.
10. Remove the entire **Passenger's side** engine mount assembly including the rubber isolator from the K-member.
11. Remove the heat shield and the (x9) bolts securing the exhaust manifold to the cylinder head. Remove the exhaust manifold. Clean any debris from the cylinder head in preparation for the new gasket.
12. Do not re-install the engine mount assembly until after the header is installed, as it blocks access to one of the top center bolts.
13. Index steering shaft to the rack and remove the bolt at the steering rack. Remove the shaft from the rack, taking care not to move the steering rack or the steering wheel while working on vehicle.

6.1L -6.4L Exhaust Manifold Removal

1. Unplug (x2) pre catalyst O2 sensors and (x2) post catalyst O2 sensors.
2. Remove the catalytic converters and down pipes from the manifolds and exhaust system.
3. Remove the decorative engine cover.
4. Remove the air filter assembly and ducting.
5. Loosen the alternator support bracket bolt at the alternator and remove the nut from the engine mount stud. The bracket does not need to be removed
6. Remove the dipstick tube and starter.
7. Remove the (x2) knock sensors.

8. Index steering shaft to the rack and remove the bolt at the steering rack. Remove the shaft from the rack, taking care not to move the steering rack or the steering wheel while working on vehicle.

9. Remove the (x8) bolts securing the manifold to the cylinder head on each side.

NOTE: Use the 24" extension and 10mm swivel socket for the outer bolts, 10mm gear wrench for the inside lower bolts, and a 1" extension with a 10mm socket from the top on the upper inside bolts.

NOTE: The 3rd bolt back on the passenger's side can be accessed through the keyhole opening in the fender well on some cars.

INSTALLATION OF HEADERS:

1. Install the supplied left and right O2 sensor extension harnesses to the factory pre catalyst O2 sensor connector previously marked. Be sure and use the correct connector, as they are keyed the same for both O2 sensors.
2. 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.**
3. Install the new Dodge exhaust manifold gasket with the supplied 8mm x 1.25 flange bolts on the bottom 4 holes. Install bolts just a few threads. Hang the **Right** 70102301-RHKR header assembly onto the bolts and install the four remaining bolts. Access to most of the header bolts can be done with the 24" extension and a 13mm swivel socket through the primary tubes. Adding an additional swivel and a 3" extension is helpful with accessing the top rearward bolt over the top of the primary tube. Tighten the bolts evenly in steps from the center out until all the bolts are tight. Repeat this process several times. Re-install the engine mount assembly and remove the support from the engine.
4. Install the new Dodge exhaust manifold gasket with the supplied 8mm x 1.25 flange bolts on the bottom 4 holes. Install bolts just a few threads. Hang the **Left** 70102301-RHKR header assembly onto the bolts and install the four remaining bolts. Access to most of the header bolts can be done with the 24" extension and a 13mm swivel socket through the primary tubes. Tighten the bolts evenly in steps from the center out until all the bolts are tight. Repeat this process several times.
5. Install the left and right pre-catalyst O2 sensors in the header collectors and connect to the O2 sensor extension harness. Make sure the harness is routed away from the exhaust pipe.
6. Install the dipstick tube after checking the condition of the O-ring (replace, if necessary). Vehicles with the dipstick tube mounted to the exhaust manifold bolt will re-use the factory stud bolt and the supplied spacer to install the dipstick in the factory location. **VERIFY THE TUBE IS IN THE ENGINE BLOCK!!!**
7. Install the alternator support bracket, if removed. Install the starter and all connections. Install the (x2) knock sensors.
8. **Connect the steering shaft. Install the bolt and torque to specification.**
9. Install the air box and ducting, install the decorative engine cover, and replace the service panel under the car.
10. Recheck all connections and hardware to be sure all work is complete.
11. Start the vehicle and check for leaks
12. Remove the jack stands and lower the car. After 150 miles recheck all connections and clamps.

Recommendation: Use HOOKER BLACKHEART Mid Pipe Kit to connect your BLACKHEART headers to the factory exhaust system.

PN: 70802301-RHKR (5.7L)

PN: 70802302-RHKR (6.1 - 6.4L)

PN: 70502305-RHKR – Long tube full exhaust system w/ mufflers / no tips (Race ONLY)

PN: 70502306-RHKR – Long tube full exhaust system w/o mufflers / no tips (Race ONLY)

NOTE: Installation of Blackheart headers will cause the check engine light to come on. The use of a tuner is recommended to correct this condition.

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

Technical Support: 1-866-464-6553

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.

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