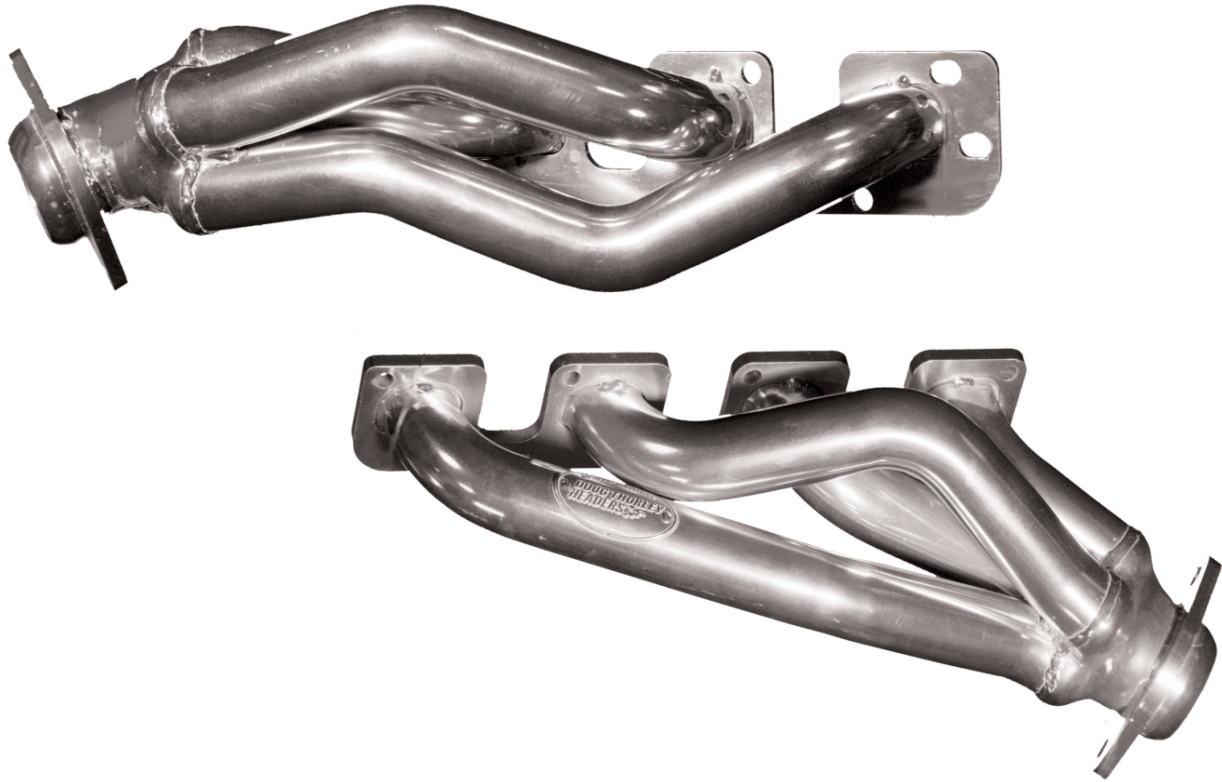


2013-16 DODGE RAM, 2/4WD
5.7L HEMI



LEGALITY NOTES

These exhaust headers **DO NOT** comply with California Air Resource Board regulations and are **NOT LEGAL** for sale or use on pollution controlled vehicles in the state of California. These headers are intended for use on vehicles that are involved in closed course racing applications only. They will be referred to as “RACE USE ONLY” in any other location in this instruction sheet, or any marketing information.

The installation of exhaust headers onto any vehicle must be performed in accordance with all governmental regulations that pertain to the particular vehicle receiving the headers. Please call your Doug Thorley Headers distributor if there are any questions regarding the legality of the installation.

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SHORTY HEADERS

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PARTS INCLUDED

1)	Driver Side Header Assembly	1
2)	Passenger Side Header Assembly	1
3)	Header Flange Gasket Kit (set of 2)	1
4)	Dip Stick Spacer 5/8"O.D X 0.83" Wall X 1.00" L	1
5)	Weld On Adapters	2
6)	M8-1.25x25mm Hex Flange Head Bolt	17
7)	3/8"-16X2 1/2" Hex Bolts	4
8)	3/8"-16 Nuts	4
9)	3/8" Flat Washers	4

TOOLS REQUIRED

Ref.	Description	Ref.	Description
1)	3/8" Drive Ratchet and Extensions	5)	8mm, 10mm, 12mm, 14mm Wrenches
2)	7/8" Box wrench or O2 Sensor Socket	6)	Metric Allen Wrench Set
3)	9/16" Box Wrench and Socket	7)	WD40 or equivalent
4)	8mm, 10mm, 12mm, 14mm Sockets		

WARRANTY NOTES

- 1) The utmost care is taken at Doug Thorley Headers ("DTH") to maintain the highest standards of quality. However, DTH cannot control the installation of the product. For this reason the warranty covers only the replacement of the components, it does not cover labor for the installation.
- 2) The use of any type of "header wrapping" immediately voids the warranty. Using any sort of wrapping material on the headers destroys the tubing's ability to dissipate heat, causing very rapid deterioration of the composition of the metal and the subsequent failure of the headers.
- 3) Any chrome plating applied to DTH header components is a high-nickel chrome finish applied to retard corrosion. This is a commercial quality "heat" chrome designed to protect the metal from the environment only. This finish is not "show chrome" and is not intended for the sake of appearance. This high-nickel chrome will turn colors and approach black as it cooks into the metal. The initial brilliance of the chrome finish is not covered under the warranty. Contamination of the surface by foreign substances may produce other color patterns. This can be prevented by routine cleaning.
- 4) Retain all paperwork pertaining to the purchase of your DTH product. Save your receipt!
Your limited warranty is not valid without a receipt of purchase.

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SHORTY HEADERS

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INSTALLATION NOTES

- 1) It is important that you read the entire instruction sheet before beginning any installation.
- 2) Due to restricted room in the engine compartment your headers may come close to certain body and chassis components, this is normal for an installation of this type. However, a careful inspection must be completed to ensure that the distances and placement are reasonable and logical, especially with regard to electrical, fuel, and brake components.
- 3) Because of car-to-car variations, DTH strongly recommends that these headers be installed by an experienced installation shop that has welding and fabrication capabilities. **A welder is needed to complete this install.**

INSTALLATION PROCEDURE

OE MANIFOLD REMOVAL

- 1) Disconnect the battery
- 2) Unplug all O2 sensor harnesses from the original exhaust components. Make note of the O2 sensor locations and remove them from the connector.
NOTE: Do not attempt to remove O2 sensors or hardware while the engine is hot. Doing this may result in damage to the sensors.
- 3) Loosen and remove both original connector pipes located between the factory exhaust manifolds and the beginning of the exhaust system.
- 4) Remove both exhaust manifold heat shields.
- 5) Remove the oil dipstick. Remove the bolt securing the dipstick tube to the motor and remove the dipstick tube. **RETAIN THIS SPECIAL BOLT FOR REUSE.**
- 6) Remove all bolts/nuts securing the factory exhaust manifolds to the motor and remove the manifolds.
- 7) Inspect the cylinder heads for any excessive carbon buildup and clean as necessary.

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SHORTY HEADERS

**2013-16 DODGE RAM, 2/4WD
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INSTALLATION PROCEDURE

HEADER INSTALLATION

- 1) Carefully work the driver side header into place. Using supplied M8-1.25x25mm Hex Flange Head Bolts and supplied Driver Side Header Gasket, secure the header to the motor with two bolts.

NOTE: The driver and passenger side header gaskets are different, be sure to match the proper gasket up with the header flange.

- 2) Carefully work the passenger side header into place. Using the M8-1.25x25mm Hex Flange Head Bolts and the Passenger Side Header Gasket. Secure with two bolts.
- 3) Mark and cut both sides of the connector pipe 1/2" above the weld joining the catalytic converter to the connector pipe.
- 4) Work the factory Connector Pipes into place between the headers and exhaust system. Secure to the headers and adapters using the 3/8" hardware.
- 5) Tack the supplied adapters to the connector pipes.
- 6) Remove the connector pipes and finish welding around the adapters and reinstall.
- 7) install remaining hardware for headers.
- 8) When you are satisfied with the positioning of your headers and connector pipes, you may fully tighten the header flange bolts, starting with the center and working your way out. Torque header bolts to 20-25 ft. lbs..
- 9) Work the dip stick tube into place in the motor. Using the provided Dipstick Tube Spacer, secure the dipstick tube to the header flange.
- 10) Install the driver side O2 sensor to the header and connect the harness.
- 11) Install the passenger side O2 sensor the header and connect the harness.
- 12) Install the rear O2 sensors to the connector pipes and connect to the harnesses.
- 13) Reconnect battery terminals.

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SHORTY HEADERS

**2013-16 DODGE RAM, 2/4WD
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INSTALLATION PROCEDURE

- 13)** Inspect engine compartment and components around the headers for clearance issues. Wipe excess oil, grease and finger prints off of the headers with acetone or equivalent
- 14)** Start engine and check for any leaks.
- 15)** It will be necessary to re-torque nuts and bolts once the engine has reached operating temperature, and has cooled back down.



LIMITED LIFETIME WARRANTY

Unless otherwise specified, Doug Thorley Headers (hereinafter DTH) header products are warranted against defective materials and workmanship for as long as you, the original consumer purchaser, owns said header product. DTH exhaust products, defined as any component "downstream" of a DTH header product or OE factory exhaust manifolds, are warranted against defective materials and workmanship for a period of 5 years from the original consumer purchase date. These limited warranties are non-transferrable and proof of purchase is required for any warranty claims.

These warranties shall be limited to the repair, adjustment, and/or replacement of defective parts at the discretion of DTH. Authorized product(s) returned will be repaired or replaced also at the discretion of DTH. All warranties become void if any product shows evidence of any modification done without the express consent of DTH, and includes mishandling, bending, welding, mutilation of parts, and insulating wrap products. DTH is not responsible for any other expenses involved in a warranty claim, including any labor costs incurred by the customer in relation to defective parts, or shipping costs to DTH. Nor shall DTH be responsible for any damages, whether consequential, special, contingent or otherwise; or expenses or injury that may arise from the use of DTH products.

The bluing and discoloration of chrome exhaust products is considered normal, as is the dulling of ceramic coated products, and as such coatings are not covered under the terms of the warranty. Rust apparent during the extended life of products is also considered normal and excluded from the warranty. Any DTH product that has been discontinued from new sales for a period of 5 years or longer will no longer be eligible for replacement under terms of the warranty, the repair of any defective parts will be the only option. Any non-defective not-installed product may be returned for any reason within 30 calendar days of receipt, and will be subject to a 20% restocking/repackaging fee. If you believe that you have a defective product, contact the Doug Thorley Headers customer service department directly at (951) 739-5900 with any questions and/or to obtain authorization to return a product for processing. This warranty policy supersedes any other warranties offered by DTH. DTH reserves the right to modify the warranty policy at any time, and a detailed copy of sale terms, condition and warranty information is available upon request.