

DOUG THORLEY **HEADERS**

A DIVISION OF SUMMIT INDUSTRIES, INC.

THY-184Y1-L-C LONG TUBE TRI-Y HEADERS

2013-2016 DODGE RAM, 2WD ONLY 5.7L HEMI (FOR OFF-ROAD RACING USE ONLY)



LEGALITY NOTE

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.

WARRANTY NOTES *The utmost care is taken at Doug Thorley Headers to maintain the highest standards of quality. However, Doug Thorley Headers cannot control the installation of the product. For this reason, the Doug Thorley Headers warranty covers only the replacement of the components, not the labor for the installation.*

- 1. The use of any type of "header wrapping" 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 metal and the subsequent failure of the headers.*
- 2. Any chrome plating applied to DTH header components is a high-nickel chrome finish applied to retard corrosion. This is known as 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.*
- 3. Retain all paperwork pertaining to the purchase of your Doug Thorley Headers product. Save your receipt, your limited life time warranty is not valid without the original proof of purchase.*

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PARTS INCLUDED

- Driver Side Header Assembly (1)
- Passenger Side Header Assembly (1)
- Driver Side Connector Pipe Assembly (1)
- Passenger Side Connector Pipe Assembly (1)
- Header Flange Gasket Kit (set of 2) (1)
- Exhaust Clamp, 2-1/2" (1)
- Exhaust Clamp, 3" (1)
- Dip Stick Spacer 5/8" O.D X 0.83" Wall X 1.00" L (1)
- M8-1.25x25mm Hex Flange Head Bolt (17)
- 3/8"-16X2 1/4" Hex Bolts(4)
- 3/8"-16 Nuts (4)
- 3/8" Flat Washers (4)
- 24" O2 Harness Extensions (2)
- 12" O2 Harness Extension (1)

TOOLS REQUIRED

- 3/8" Drive Ratchet and Extensions
- 7/8" Box wrench or O2 Sensor Socket
- 9/16" Box Wrench and Socket
- 8mm, 10mm, 12mm, 14mm Sockets
- 8mm, 10mm, 12mm, 14mm Wrenches
- Metric Allen Wrench Set
- WD40 or equivalent

INSTALLATION NOTES

1. It is important that you read the entire instruction sheet before initiating any installation.
2. Thorley headers are designed to fit only factory installed engine and transmission combinations. We cannot guarantee that Thorley headers will fit in the case of "engine swaps" or "transmission swaps".
3. 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 insure that the distances and placement are reasonable and logical, especially with regard to electrical, fuel, and brake components.
4. Because of the requirement to raise the engine to facilitate header installation, the engine mounts should be carefully inspected at that point of the installation. It is highly recommended that questionable or deteriorated engine mounts be replaced during the installation of the headers. In some cases, the engine mounts need to be loosened and repositioned to provide optimum header clearance from some components.
5. Because of car-to-car variations, Thorley Headers strongly recommends that these headers be installed by a competent exhaust shop that has welding and fabrication capabilities. **A welder is needed to complete this install.**

INSTALLATION PROCEDURE NOTES

WARNING! – DO NOT RELY ON BUMPER JACKS OR CHASSIS JACKS FOR SUPPORT DURNING HEADER INSTALLATION. THE VEHICLE SHOULD BE RAISED AND SUPPORTED WITH JACKING EQUIPMENT AND JACKSTANDS OR RAMPS INTENEDED FOR UNDERCARRIAGE AUTO MAINTENANCE. IT IS EXTREMELY DANGEROUS TO WORK UNDER ANY IMPROPERLY RAISED AND/OR SUPPORTED VEHICLE.

WARNING! – MAKE CERTAIN THERE IS AMPLE CLEARANCE AROUND CLEARANCE AROUND COMPONENTS SUCH AS BRAKE LINES, BRAKE PROPORTIUNONG VALVES, FUEL LINES, HOSES AND PUMPS, AND ELECTRICAL COMPANENETS AND WIRES. IN SOME CASES IT MAY BE NECESSARY TO RELOCATE ITEMS THAT MAY BE ADVERSELY AFFECTED BY EXHAUST SYSTEM HEAT.

Installation of these headers WILL trigger a check engine light. This can be corrected with either a custom performance tune or aftermarket tuner, and/or an O2 sensor simulator.

UNLESS OTHERWISE NOTED, THESE HEADERS ARE DESIGNED TO FIT THE VEHICLE AS IT CAME FROM THE MANUFACTURER. THIS INCLUDES COMPNENTS LIKE CYLINDER HEADS, CHASIS, STEERING, MOTOR MOUNTS, BODY MOUNTS AND BUSHINGS, ETC. IF YOUR CEHICLE IS USING AFTERMARKET COMPONENTS, PARTS FROM OTHER APPLICATIONS, OR CUSTOM ALTERED PARTS, THEN IT IS THE INSTALLER'S RESPONSIBILITY TO VERIFY FITMENT.

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INSTALLATION PROCEDURES (**NOTE:** THESE PROCEDURES ARE DOCUMENTED ON FACOTRY STANDARD-EQUIPPED VEHICLES WITH ORIGINAL CONFIGURATION COMPLIANCE. **ANY** MODIFICATION OF THE SUBJECT VEHICLE MAY DICTATE MODIFICATION TO INSTALLATION PROCEEDURES.)

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 exhaust system. **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.

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, loosely secure the header to the motor. Do not fully tighten bolts at this time. **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 remaining M8-1.25x25mm Hex Flange Head Bolts and the Passenger Side Header Gasket, loosely secure the header to the motor. Do not install the bolt that will also be used to secure the dipstick tube to the header flange. Also, do not fully tighten bolts at this time.
3. Work the dip stick tube into place in the motor. Using the provided Dipstick Tube Spacer, secure the dipstick tube to the header flange. Do not fully tighten at this time.
4. Work the driver and passenger Connector Pipes into place between the headers and exhaust system. Loosely secure to the headers using the 3/8" hardware, and secure to the exhaust system using the supplied clamp.
5. 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.
6. Fully tighten the exhaust clamp at the center of the connector and the clamp at the rear of the connector pipe.
7. Install the driver side O2 sensor to the header and connect the harness.
8. Install the passenger side O2 sensor the header and connect the harness.
9. Install the rear O2 sensors to the connector pipes and connect to the harnesses.
10. Reconnect battery terminals.
11. 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.
12. Start engine and check for any leaks.
13. It will be necessary to re-torque nuts and bolts once the engine has reached operating temperature, and has cooled back down.

Enjoy your new headers and thank you for your purchase!

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RETURN POLICY

Returns to Doug Thorley Headers (DTH) will only be accepted from direct sell customers within 30 days of the original invoice date. All returns will require a Return Merchandise Authorization (RMA) number provided by Doug Thorley Headers. Customers are responsible for all shipping charges unless other arrangements with Doug Thorley Headers have been made. Doug Thorley Headers reserves the right to refuse any package returned to our facility without prior authorization. Returned products can be subject to a 20% restocking fee.

Doug Thorley Headers does suggest that when shipping an item back to us, carriers such as UPS and FEDEX, or any providers that offers a signature requirement and insurance coverage be used. Doug Thorley Headers is not responsible for any lost or damaged packages along with the customer will be responsible for all shipping charges and risk of loss during the return shipment.

Doug Thorley Headers does not accept a return of an item that is damaged, used/installed, or special ordered parts. If you receive an item that has been damaged, please inform Doug Thorley Headers within 72 hours of delivery in order for Doug Thorley Headers to begin a claim.

Please keep the original packaging and contents as FEDEX and UPS may require an inspection of the item. If this inspection is required then the carrier in which your item was handled through may contact you to set up a time and date. All claims to sub-component shortages or missing parts must be made within 10 days of delivery.

If any you have any questions about returning or missing an item, please contact us at **951-739-5900** or email at **info@doughthorleyheaders.com**

WARRANTY COVERAGE

Unless otherwise specified, Doug Thorley Headers header products are warranted against defective materials and workmanship for as long as the original consumer purchaser owns said header product. Doug Thorley Headers exhaust products defined as any component “downstream” of a Doug Thorley Header product or OE factory exhaust manifold, are warranted against defective material and workmanship for a period of five (5) years from the original consumer purchase date. These limited warranties are offered solely to the original purchaser and are non-transferable. Proof of purchase is required for all warranty claims.

These warranties shall be limited to the repair, adjustment, and/or replacement of defective parts at the discretion of Doug Thorley Headers. Authorized product return will be repaired or replaced at the discretion of Doug Thorley Headers. All warranties become void if any product shows evidence of any modification done without the express consent of Doug Thorley Headers and includes mishandling, bending, welding, mutilation of parts, and insulating wrap products. Doug Thorley Headers 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 and/or shipping cost to or from Doug Thorley Headers. Doug Thorley Headers is not responsible for any damages, whether consequential, special, contingent or otherwise, expenses or injury that may arise from the use of Doug Thorley Headers products.

The bluing and discoloration of chrome exhaust products is considered normal, as is the dulling of ceramic coated products, and as such, coating are not covered under the terms of the warranty. Environmental exposure and rust apparent during the extended life of products is also considered normal and excluded from the warranty. Any Doug Thorley Headers product that has been discontinued from new sales for a period of five (5) years or longer will no longer be eligible for replacement under the terms of 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 thirty (30) calendar days of receipt, and will be subject to a 20% restocking/repackaging fee.