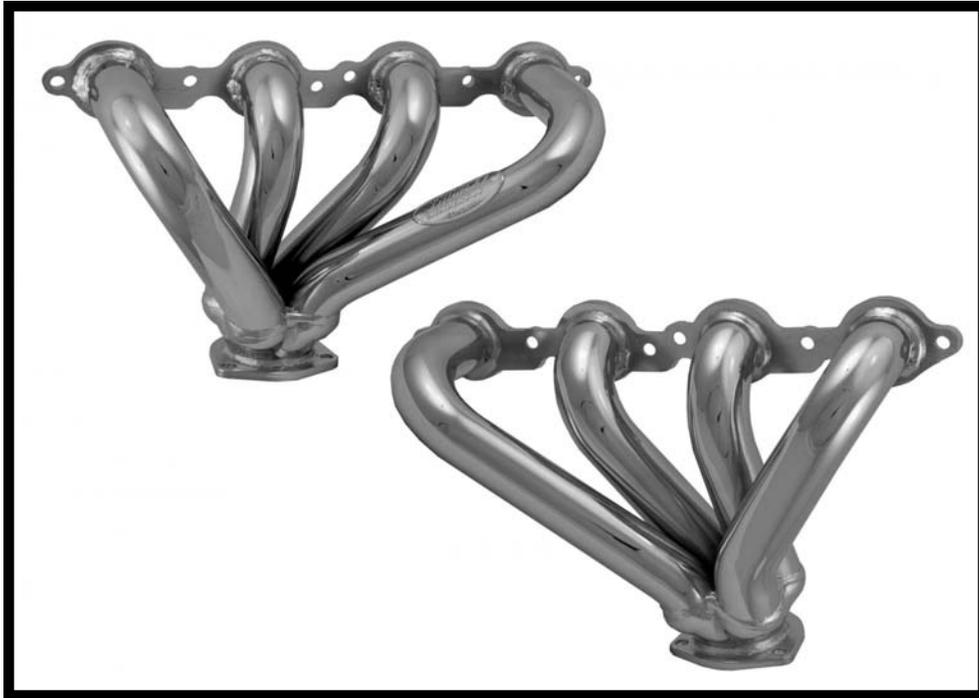


**CHEVROLET LS1
SAND CAR APPLICATIONS
(BLOCK HUGGER, CENTER DUMP)**



PARTS INCLUDED

1)	Right side header	1
2)	Left side header	1
3)	Adapters	2
4)	Header gaskets	2
5)	Collector gaskets	2

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HARDWARE INCLUDED

1)	M8 x 1.25 x 25mm Hex flange bolts	12
2)	3/8" Star lock washers	12
3)	3/8"-16 x 1-1/2" Hex head bolts	6
4)	3/8"-16 Hex nuts	6
5)	3/8" Flat washers	6

TOOLS REQUIRED

1)	3/8", 7/16", 9/16", 1/2", 3/4", 7/8" Wrenches	7)	Ratchet and extensions
2)	10mm, 13mm Wrenches	8)	Pliers
3)	5/16", 7/16", 1/2", 9/16" Sockets	9)	Crescent wrench
4)	3/8", 7/16" Deep sockets	10)	Torque wrench
5)	15mm Deep socket	11)	Rust penetrant
6)	5/8" Spark plug socket		

WARRANTY NOTES

- 1) The utmost care is taken at Thorley Headers to maintain the highest standards of quality. However, Thorley Headers cannot control the installation of the product. For this reason, the Thorley Headers warranty covers only the replacement of the components - not the labor for the installation.
- 2) 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.
- 3) The chrome plating applied to all Thorley headers is a high-nickel chrome finish applied to retard corrosion. This is a "heat" chrome to preserve the metal. This finish is not "show chrome" intended for the sake of appearance. This high-nickel chrome turns colors and approaches black as it cooks into the metal. The 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.

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WARRANTY NOTES

- 4) Retain all paperwork pertaining to the purchase of your Thorley product. Save your receipt!
Your limited warranty is not valid without a receipt of purchase.

LEGALITY NOTE

The installation of headers onto any vehicle must be performed in accordance with all governmental regulations that might pertain to the particular vehicle receiving the headers. Please call your Thorley Headers distributor if there are any questions regarding the legality of the installation. This part number is considered a "OFF-ROAD ONLY" header. As a result, **this part number does not have an Executive Order ("E.O.") number.**

INSTALLATION NOTES

- 1) It is important that you read the entire instruction sheet before initiating 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 insure 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, Thorley Headers strongly recommends that these headers be installed by a competent exhaust shop that has welding and fabrication capabilities.

WARNING! - Do not rely on bumper jacks or chassis jacks for support during header installation. The subject vehicle should be raised and supported with jacking equipment and jackstands or ramps intended for undercarriage auto maintenance. It is extremely dangerous to work under an improperly raised and/or supported vehicle.

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INSTALLATION PROCEDURES

WARNING! - Make certain there is ample clearance around components such as brake lines, brake proportioning valves, fuel lines, hoses and pumps, and electrical components and wires. In some cases it may be necessary to relocate items that may be adversely affected by exhaust system heat.

NOTE: These procedures are documented on factory standard-equipped vehicles with original configuration compliance. Any modification of the subject vehicle may dictate modification to these procedures.

- 1) Disconnect the battery.
- 2) If applicable, disconnect the stock head pipes from the stock exhaust manifolds and push them aside.
- 3) Remove the stock exhaust manifolds.
- 4) Clean all traces of carbon deposits from the cylinder head exhaust port surfaces.
- 5) Install the headers and supplied header gaskets using the supplied M8 x 1.25 x 25mm header bolts. Starting from the center of the header flanges and working toward the ends, torque all header bolts to 20-25 ft/lbs.
- 6) Attach the supplied adapters to the header collectors using the supplied collector gaskets, 3/8"-16 x 1-1/2" hex head bolts, nuts, and washers. The adapters intended to be welded to a custom exhaust system.
- 7) Reconnect the battery. Start the engine and check for leaks.
- 8) Because the header bolts will initially stretch when hot, we recommend adhering to the following steps:
 - a) Retighten the header bolts to 20-25 ft/lbs after approximately 20 minutes of operation. (Note: Remember the engine will be hot at this time. Protect yourself accordingly.)
 - b) Check and retighten the header bolts to 20-25 ft/lbs after the first month of operation.