



## PARTS INCLUDED

Ref.	Description	Qty
1)	Header	1
2)	Header gasket	1
3)	2 1/4" Conical Gasket	1
4)	1 1/2" Hot Air Pick-up	1
5)	Intake Mounting Bracket	1
6)	8X1.25X30mm Flange Bolt	1
7)	8X1.25X20mm Flange Bolt	2
8)	8X1.25mm Flange Nut	1

## TOOLS REQUIRED

Ref.	Description
1)	12mm and 14mm Open End Wrenches
2)	10mm, 12mm and 14mm Sockets
3)	Ratchet and Extensions

THY-716Y-SS

1992-98 Suzuki Samurai, Sidekick  
Geo Tracker, 1.6L 16V, 4WD

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## 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) 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. **The Executive Order ("E.O.") number for this part number is D-540-3.**

## 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.

## INSTALLATION PROCEDURES

**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.

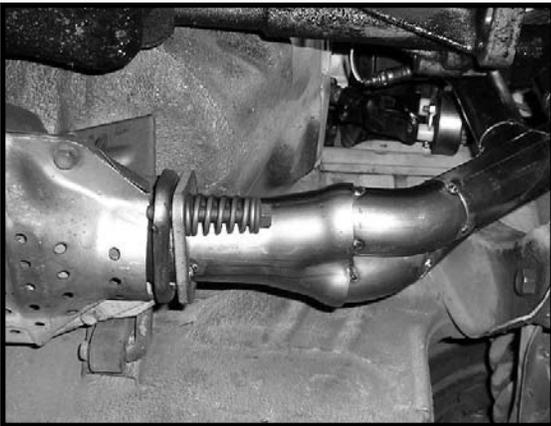
**WARNING!** - Make certain there is ample clearance around components such as brake lines, brake proportioning valves, fuel lines, hoses and pumps, and electrical components and wires. In some cases it may be necessary to relocate items that may be adversely affected by exhaust system heat.

**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) Disconnect the exhaust pipe from the catalytic converter and the manifold. Remove the exhaust manifold and tubing. Retain the stock exhaust manifold nuts for re-use.
- 3) Clean all traces of carbon deposits from the cylinder head exhaust port surfaces.
- 4) Carefully disconnect the oxygen sensor.
- 5) Place the header and supplied header gasket into position from the top of the engine compartment, and attach it using the stock studs and nuts.
- 6) Attach the intake mounting bracket using the the two rear studs for the bottom mounting and the supplied bolts for the top portion.  
*(Shown to the Right)*



- 7) Torque the stock nuts to factory specs.
- 8) Re-install throttle cable bracket to the intake manifold with the supplied 5/16" hardware
- 9) Reconnect the oxygen sensor to the oxygen sensor fitting on the header.
- 10) Attach the header to the stock system using the supplied conical gasket and the stock hardware. (**Shown Below**)



- 11) Double check that everything is connected and make sure there are no wires or hoses resting on the header.
- 12) Reconnect the battery.
- 13) Start the engine and check for leaks.
- 14) Because the header bolts will initially stretch when hot, we recommend adhering to the following steps:
  - a) Retighten the header bolts to factory specs after twenty minutes of operation. (Note: Remember the engine will be hot at this time. Protect yourself accordingly.)
  - b) Retorque the header bolts to factory specs after the first month of operation.