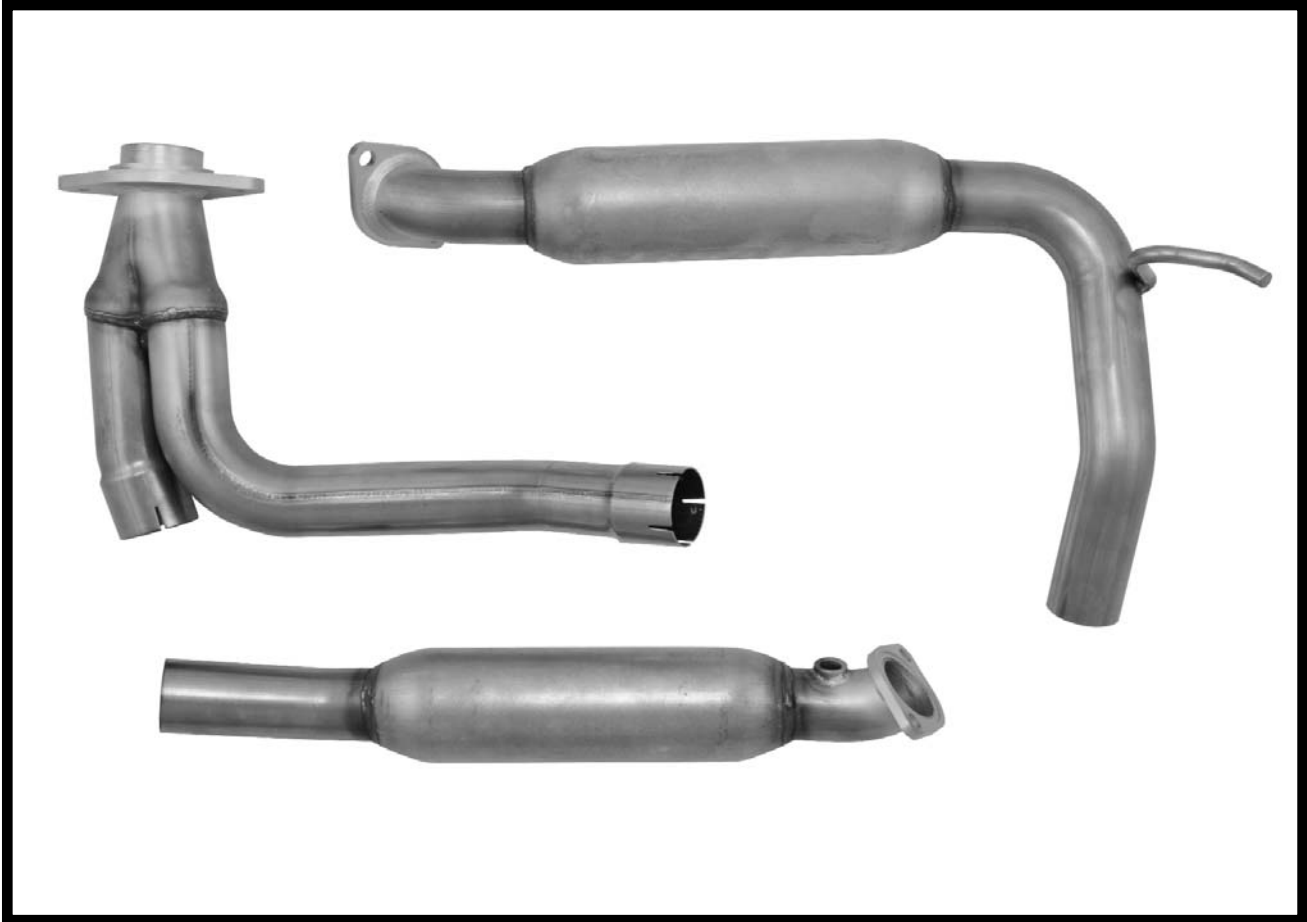


TOYOTA 4RUNNER, LEXUS GX-470, 4.7L
2005-09

PARTS INCLUDED

Ref		
1)	Main Y-pipe Assembly	1
2)	Driver side Y-pipe #1 Assembly	1
3)	Band Clamp, 2-1/4"	2

This y-pipe **DOES NOT** comply with California Air Resource Board regulations and is **NOT LEGAL** for sale or use on pollution controlled vehicles in the state of California. This y-pipe is intended for use on vehicles that are involved in closed course racing applications only. It will be referred to as "RACE USE ONLY" in any other location in this instruction sheet, or any marketing information.

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

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"RACE USE ONLY" Y-PIPE ASSEMBLY

TOYOTA 4RUNNER, LEXUS GX-470, 4.7L
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TOOLS REQUIRED

Ref.	Description	Ref.	Description
1)	3/8" Drive Ratchet	5)	14mm Socket
2)	Assorted Extensions	6)	Crescent Wrench
3)	12mm Socket	7)	WD40 or Equivlant
4)	10mm Wrench		

INSTALLATION INSTRUCTIONS

BEFORE STARTING:

- 1) Gather all appropriate tools and secure a clean work space.
- 2) Read instruction sheet completely. If you have any questions, call our tech. department at (951)739-5900.
- 3) Do not cut or modify parts unless instructed to do so.
- 4) Always disconnect the battery when working on your vehicle to avoid any potential problems.
- 5) Your vehicle should be raised to ease installation. A hoist is ideal, however, installation can be accomplished using a floor jack and jack stands. **CAUTION:** Never work on a vehicle that is supported by a bumper jack only.

REMOVAL / ASSEMBLY:

- 1) Starting at the rear of exhaust, spray WD40 or equivalent lubricant on the rubber hangers to allow easy removal of all hanger rods.
- 2) Unbolt the flange from behind catalytic converter. Slide the exhaust system back and out of the way.
- 3) Unbolt the flanged connection just to the right of the transmission.
- 4) Remove the bracket from the transmission cross member on the Driver side.
- 5) Unplug both O2 sensors from the wiring harness.

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"RACE USE ONLY" Y-PIPE ASSEMBLY

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- 6) Unbolt and remove the connector pipes from the manifolds/headers. Save all hardware and gaskets as they will be reused in the new system.
- 7) Carefully remove the O2 sensors from the factory headpipes.
- 8) Then carefully thread the O2 sensors into the Y-pipe.
- 9) Install the Y-pipe assembly up into the vehicle, then slide the driver side assembly into the rubber hanger and into main assembly.
- 10) Loosely bolt the full assembly to the manifolds using the stock hardware and crush gaskets.
NOTE: If your crush gaskets are worn, they should be replaced and are a stocked item at most Toyota dealerships.
- 11) Using the factory hardware and donut gasket, attach the Y-pipe to the stock exhaust system. Leave the connection loose at this time.
- 12) Once you are satisfied with the positioning, tighten the connections at manifold first then tighten the hardware at the exhaust system.
- 13) Tighten down the supplied band clamp where the two assemblies connect.
- 14) Plug both O2 sensors back into the wiring harness. (*Note: The harnesses may have to be unclipped from the brackets*)
- 15) Reinstall the bracket to the transmission cross member.
- 16) Reconnect battery and start vehicle, checking for any exhaust leaks or rattles - adjust system as necessary. After several days driving time, recheck all bolts tightness.