

INSTALLATION INSTRUCTIONS



ROCK RIPPER™ TOY HEADER

79-84, 186053-1-K
85-95, 186063-1-K

KIT CONTENTS

1 ct.

Header Tube



1 ct.

Intermediate Tube



2 ct.

Flanges



2 ct.

Header Flange Gaskets



2 ct.

Exhaust Clamps



1 ct.

5 ft. 16g Wire



2 ct.

Wire Connectors



1 ct.

Header Gasket



2 ct.

Air Injection Tube Gaskets



4 ct.

3/8"-16 Top Lock Nuts



4 ct.

3/8"-16 Gr5 Bolts



8 ct.

3/8" Flat Washers



2 ct.

M8-1.25 Flange Nuts



2 ct.

M8x1.25 Studs



1 ct.

0² Sensor Gasket





RECOMMENDED TOOLS

| | Wrenches | Sockets |
|-----------------------|-----------------|----------------|
| Hammer | | |
| Jack | 12mm | 12mm |
| Jack Stands | 14mm | 14mm |
| 3/8" Drive Ratchet | 9/16" | 17mm |
| Torque Wrench | | 9/16" |
| Chop Saw/Cutoff Wheel | | 3" Extension |
| Electrical Crimpers | | 10" Extension |
| Tape Measure | | |

CAUTION

1. Read all instructions completely and carefully before you begin.
2. Check to make sure the kit is complete and that no parts are missing (refer to the Kit Contents List on the first page of these instructions). If anything is missing, please contact Trail-Gear at 559.252.4950.
3. Park vehicle on a clean, dry, flat, level surface and block the tires so the vehicle can not roll in either direction.

INSTALLATION INSTRUCTIONS



STEP 1 - INSTALLATION PREP

Jack up the vehicle and secure it on jack stands.

STEP 2 - REMOVE AIR CLEANER

Remove the air cleaner system. Ensure all wires and/or hoses are disconnected before removing.



STEP 3 - REMOVE HEAT SHIELD

Remove the heat shield covering the stock header.



STEP 4 - DISCONNECT O² SENSOR

Disconnect the O² sensor.



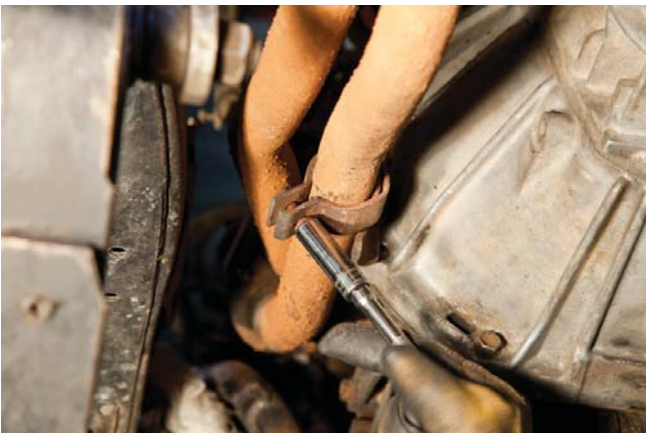
STEP 5 - REMOVE O² SENSOR

Remove the O² sensor from the header.



STEP 6 - REMOVE CLAMP

Remove the clamp securing the intermediate header tube.



STEP 7 - REMOVE INTERMEDIATE HEADER TUBE

Unbolt and remove the intermediate header tube connecting the exhaust manifold to the catalytic convertor.



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STEP 8 - REMOVE INTERMEDIATE TUBE

Unbolt the intermediate tube from the catalytic convertor.



STEP 9 - REMOVE INTERMEDIATE TUBE

Remove the intermediate tube.



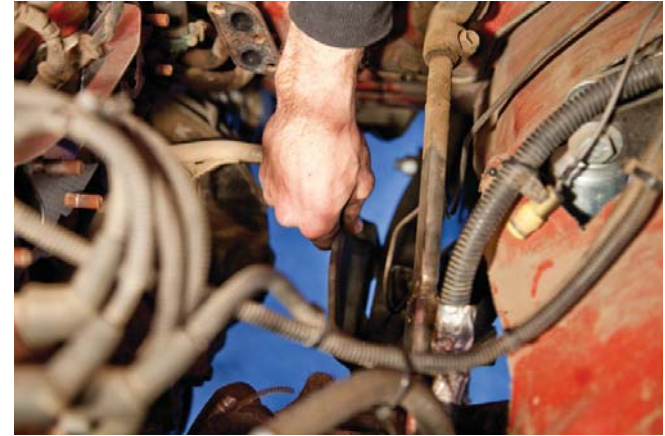
STEP 10 - REMOVE BRACKET

Remove the old intermediate tube bracket.



STEP 11 - REMOVE HEAT SHIELD

Remove secondary heatshield from the frame.



STEP 12 - DETACH AIR INJECTION TUBE

Remove the nuts that attach the header to the air injection crossover tube. Remove the two bolts attached to the air injection crossover tube located on the underside of the front passenger side of the truck. Follow the air injection crossover tube to the bracket that attaches the tube to the header to find these two bolts.



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STEP 13 - REMOVE TUBE

Pry the air injection crossover tube off of the studs on the air injection tubes.



STEP 14 - REMOVE EXHAUST MANIFOLD

Use penetrating oil on all bolts and take extra care not to break the heads off. Unbolt and remove the exhaust manifold.



STEP 15 - REMOVE AIR INJECTION TUBES

Remove the air injection tubes from the stock header. This step is optional. If you are installing this header in a non-smog certified vehicle, you should skip this step, but remove the air injection crossover tube, and cap off any open holes. Exhaust blockoff plate available.



STEP 16 - REMOVE GASKET

Remove the old gasket and clean gasket surface. Install new gasket supplied in kit.



STEP 17 - INSTALL HEADER

Slide header into place and over the studs, ensuring you have replaced the gasket.



STEP 18 - APPLY LUBRICANT

Apply anti-seize lubricant to the studs.



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STEP 19 - INSTALL GASKETS

Install the two new gaskets onto the studs over the header.



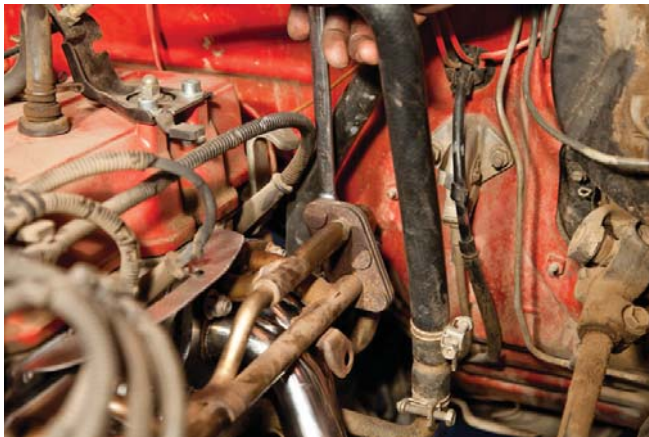
STEP 20 - INSTALL AIR INJECTION TUBES

Install the air injection tubes onto the new header. This step is optional. If you are installing this header in a non-smog certified vehicle, you should skip this step, but remove the air injection crossover tube, and cap off any open holes.



STEP 21 - REATTACH CROSSOVER TUBE

Slide the air injection crossover tube over the studs on the air injection tubes and tighten nuts. Remember to reinstall the nuts on the underside as well.



STEP 22 - CUT INTERMEDIATE TUBE

After connecting the flanges, mark the intermediate tube on each side just before the flange tube tapers. Cut the intermediate tube to the marked length.



STEP 23 - INSTALL FLANGE GASKET

Slide the intermediate tube into place and insert the flange gasket between the intermediate tube and the catalytic converter.



STEP 24 - TIGHTEN BOLTS

Insert and tighten bolts at the front and back of the intermediate tube.



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STEP 25 - INSTALL CLAMPS

Install and tighten clamps onto the front and back of the intermediate tube. If possible you may TIG weld these instead.



STEP 26 - LENGTHEN WIRE

Lengthen the wire connecting to the O² sensor as required.



STEP 27 - INSTALL STUDS

Install O² sensor studs into the header tube as shown.



STEP 28 - INSTALL O² SENSOR

Install O² sensor with new gasket over the studs in the header tube and tighten nuts.



STEP 29 - OPTIONAL

Due to different manufacturing tolerances for the O² sensor, the slight tapping of a hammer with a socket may be necessary to install the sensor. Alternatively, some slight dremeling of the outside of the holes may be required.



STEP 30 - REATTACH O² SENSOR

Plug in O² sensor.



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STEP 31 - CLEAN TUBES

Before starting your truck, wipe down all polished surfaces of the header and intermediate tube with alcohol.

STEP 32 - REINSTALL AIR CLEANER

Reinstall air cleaner back onto truck, ensuring that any hoses and wires are reconnected.

