



PERFORMANCE EXHAUST

A PerTronix Performance Brand ~ www.pertronixbrands.com ~ 909 599-5955

Installation Instructions & Warranty Information

1647S ~ 98-01 Ranger 3.0 V6 (with EGR)

1647S-1 ~ 02-08 Ranger 3.0 V6 (without EGR)

Cat4Ward® Headers



1

PERTRONIX PERFORMANCE BRANDS EMISSIONS CODES

This product has been granted a California Air Resources Board (CARB) Executive Order (EO Number) Exemption. It is 50 State Legal when installed on the Specified vehicle per the Manufacturer's Current Application Guide, the CARB EO, and Installation Instructions.

REV 3/2022

⚠ WARNING:

This product can expose you to chemicals including Lead, Nickel, Cadmium and Chromium which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

PLEASE READ BEFORE PROCEEDING

PerTronix® thanks you for choosing a JBA Performance Exhaust Product. To realize the potential of JBA's engineering and excellent fit, Please Read and Understand these instructions completely prior to starting the installation.

Check that you received all the parts listed on the parts list, if you have any concerns, please contact PerTronix before continuing. Headers will have the part number stamped in the flange.

Work Smart – Work Safe! Most Header and Exhaust Installation are best performed on a lift. If a lift is not available, raise the vehicle and support on quality Jack Stands on level ground. Do not rely on a jack!

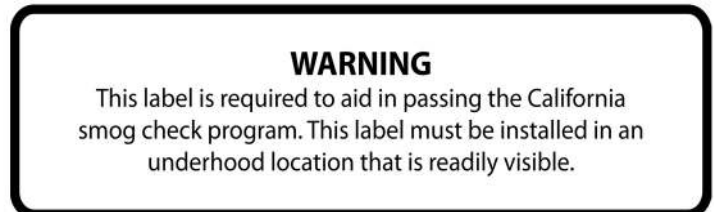
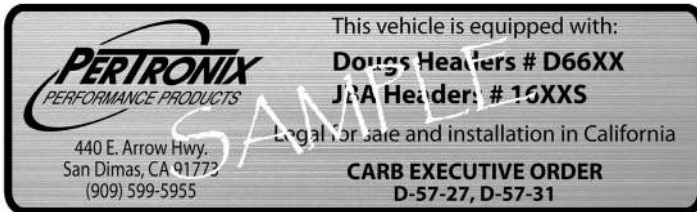
We use sealing beads on all our headers. The raised bead creates a better seal virtually eliminating leaks if installed properly. It is important to install all header bolts lightly snug and then tighten to factory torque specs starting in the center and working outward.

Before starting, allow the vehicle to cool, disconnect the battery, and spray a penetrating oil on all hardware and fittings that will need to be removed. Once you remove your manifold, clean the sealing surface on the head of any old gasket debris or carbon build up.

1. From underneath the vehicle, loosen the bolts connecting the exhaust system to the exhaust manifolds. Move the exhaust system back about 1/2 "to gain work space.
2. From above loosen the air tube at the front of the driver side manifold.
3. Remove the fasteners attaching the Driver's side manifold to the head and remove the manifold.
4. The dipstick must now be removed. It has a separate mounting bolt on the head and uses an O-ring seal at the bottom. Use care to protect the O-ring.
5. Remove the fasteners attaching the Passenger's side manifold to the head and remove the manifold.
8. Remove the gaskets and any gasket material or any carbon deposits that remain on the head surface. The use of a gasket removal agent will ease the removal of any gasket material. Use care not to get debris into ports or spark plug holes. Clean excess carbon deposits from the Exhaust system mating flange.
9. Slip the dipstick into the driver's side header and guide it into the block as you maneuver the header into place. On 98-01 models, Start the EGR tube before bolting the header to the head. Apply anti-seize to the header bolts if installing on aluminum heads. Bolt the Driver's side header to the engine using the supplied gaskets, bolts, and lock washers. Tighten the bolts evenly starting from the center out.
10. Install the passenger side header through the wheel well. Apply anti-seize to the header bolts if installing on aluminum heads. Bolt the header to the engine using the supplied gaskets, bolts, and lock washers. Tighten the bolts evenly working from the center out.
11. Apply a thin coat of High Temperature, Sensor Safe Silicone on the header collector domes and re-connect the exhaust system to the headers using the hardware provided.
12. Check that all bolts are tight. Make sure that all wiring, fuel lines, transmissions lines, brake lines etc are clear of the headers and the exhaust and relocate as necessary.
13. Reconnect the battery.
14. Start the engine, check for leaks and test drive. Then let engine cool and then re-torque the header bolts.
15. Periodically check and retighten the header bolts.

Parts List:

- | | |
|-----------------------------------|--------------------------------------|
| (1) Driver's Side Header Assembly | (1) Passenger's Side Header Assembly |
| (2) Header flange gaskets | (12) 8mm-1.25 x 25mm Header Bolts |
| (12) 8mm Internal Lock Washers | (4) 7/16 x 2 1/4" Collector bolts |
| (4) 7/16" Hex Nuts | (4) 7/16 Lock Washers |
| (4) 7/16 Flat Washers | (1) CARB EO sticker |



JBA LIMITED WARRANTY

All JBA Headers and Exhaust products are guaranteed, to the original purchaser, to be free of defects in materials and workmanship for one year. This warranty covers the replacement or repair of the product only and does not cover the cost of removal and installation, customer applied aftermarket coatings or any discoloration or corrosion of finished surfaces.

Damage or product failure resulting from collision, improper installation, off-road use, road hazards, the use of exhaust insulating wrap or like products or rust occurring after installation, is not covered by the warranty. The warranty extends only to the original purchaser.

Should a part become defective it should be returned to the original selling retailer and must be accompanied with the sales receipt. If there is no retailer in your area, call the factory for a return authorization and return your part prepaid to the factory for inspection. PerTronix reserves the rights to replace or repair the alleged defective part and return the part freight collect.