

# JBA

## PERFORMANCE EXHAUST

A PerTronix Performance Brand ~ [www.pertronixbrands.com](http://www.pertronixbrands.com) ~ 909 599-5955

### **Installation Instructions & Warranty Information**

1410S ~ 05-19 Frontier, 05-12 Pathfinder, 05-14 Xterra  
Cat4Ward® Header, 4.0L V6



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### **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](http://www.P65Warnings.ca.gov)

REV. 10 5-10-22 DSL

## **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.

From underneath, remove the four nuts connecting the exhaust to the catalytic converters. Remove the two 12mm headed bolts from the front exhaust hanger. Push the exhaust system back as far as it will go (about 1").

### **DRIVERS SIDE**

1. Remove the three bolts attaching the heat shield to the exhaust manifold. Wiggle the heat shield off to the side to get access to the upper stud on the cat. converter.
2. Disconnect the O2 sensor plug. Remove from the bracket.
3. Remove the three 14mm nuts attaching the converter to the manifold. Remove the converter from the vehicle.
4. Remove the heat shield.
5. Carefully remove the six nuts attaching the manifold to the cyl. head. (Note: The nuts are butter soft and will easily round off. A flank drive type of socket is recommended.)
6. Remove the manifold.
8. Remove the carbon build up from the cylinder head, being careful not to gouge the head surface.
9. Install header using the factory gasket with the original nuts.

**PASSENGER SIDE ~ This side is easiest to access through the wheel well.**

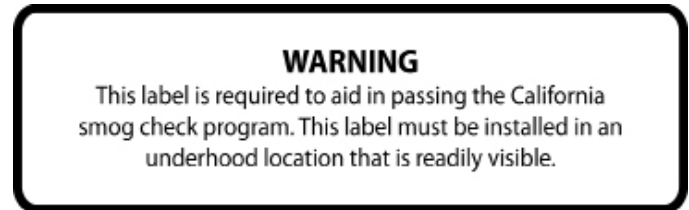
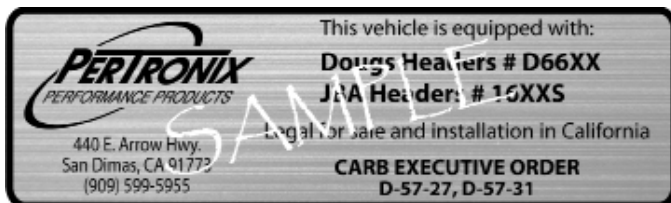
1. Raise right side, support on jack stand. Don't rely on the jack alone. Remove wheel, and inner fender well.
2. Remove three 10mm headed bolts attaching the heat shield to the manifold.
3. Remove the O2 sensor from the Cat Converter.
4. Remove the three nuts attaching the cat. to the manifold. Remove the cat.
5. Reaching over the upper control arm with a 12" extension and a 18mm socket, remove the two bolts attaching the motor mount to the frame.
6. Raise engine about 1".
7. Reposition heat shield to allow access to the manifold bolts.
8. Remove the six nuts attaching manifold to head.
9. Remove the manifold and heat shield. Remove the carbon build up from the cyl. head, being careful not to gouge the head surface.
10. Slip header into place from underneath. Bolt the header to the head using the factory gasket with the original nuts.
11. Lower engine. Secure motor mount.

## EXHAUST

1. Apply a thin bead of O2 sensor safe high temperature silicone to the factory catalytic converter gasket on the cat assemblies.
2. Reinstall both converter assemblies using factory hardware and supplied bolts with lock washers and nuts. Reconnect O2 sensors.
3. Reconnect exhaust to the converters using factory hardware. Reconnect exhaust hanger.
4. Recheck everything to ensure adequate clearance on brake lines, fuel lines, coolant hoses, etc.
5. Reconnect the battery cables. Start engine, check for leaks.
6. Re-install inner fenderwell, and tire.
7. Re-torque the header nuts after 50-100 miles.

### Parts List:

- (1) Left Side Header
- (1) Right Side Header
- (2) 10mm-1.25 x 35mm Bolts
- (2) 10mm Nuts
- (2) 10mm Lock Washers
- (1) CARB 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.