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## **Installation Instructions and Warranty Information**

### **1991-1999 Jeep Wrangler 4.0L**



## **Part # 1526S & 1527S**

These headers retain all O.E.M. emissions equipment and are covered under the C.A.R.B. E.O. #D-216-24 Included in this kit you will find a label that is required to aid in passing the California smog check program. This label must be installed in an underhood location that is readily visible.

**Read all instructions carefully before attempting installation.**

**PerTronix© thanks you for choosing JBA Headers, the best fitting, highest quality header on the market. In order to realize the full potential of our good fit, please read and understand these instructions completely prior to starting work.**

Check to make sure you received the proper parts for your application. The header number will be stamped on the engine flange. If you are unsure you have received the proper parts call before you start work.

NOTE: Installation of this product requires an adequate workspace, general mechanic's tools, general mechanical "know-how" and a reasonable degree of experience. Most auto enthusiasts with these resources will have little difficulty installing these headers. However, you should carefully read these instructions before attempting to install these headers. If in doubt, consult a professional mechanic. (Better to do it now than to get stuck halfway through the installation.)

By installing your JBA Performance Exhaust product, you indicate that you have read this document and agree with the following terms. The Purchaser is responsible for following all installation instructions and safety guidelines supplied with JBA Performance Exhaust products.

PerTronix© assumes no responsibility for damages resulting from improper operation, misuse, abuse, or lack of responsible care, or any problems resulting from incompatibility with other manufacturer's products.

Included with your installation instructions is a copy of the product warranty. Please read it carefully before you begin any work on your vehicle.

Be sure to work safe! Whenever you work under the vehicle be sure that it is located on level, solid ground and is supported by adequate safety stands! Remember: Hot asphalt will not support most jack stands!

Many factors affect the installation of headers, some of which are broken or aftermarket motor mounts, accidents that impact the configuration of the frame, and/or the installation of different engines or aftermarket cylinder heads.

Customers breaking in new engines: Due to the extreme heat generated during the break-in process, the appearance of the ceramic coating may be altered in certain areas. The protection characteristics and thermal barrier properties of the coating is never compromised. It is recommended that a cast iron manifold or old set of headers be used for this process.

Notice: The coating of these headers can be marred or scratched during installation. If the header needs to be returned and is damaged, you will be charged for recoat.

JBA uses sealing beads on all its headers. We have found that when installed correctly, the raised bead around each port increases the pressure exerted on the gasket directly adjacent to the port and effectively prevents leaking gaskets. It is important when installing the header, to install all bolts loosely, then tighten evenly to ensure the flat installation of the flange. It is normal for the flange to be raised off the cylinder head the thickness of the sealing bead.

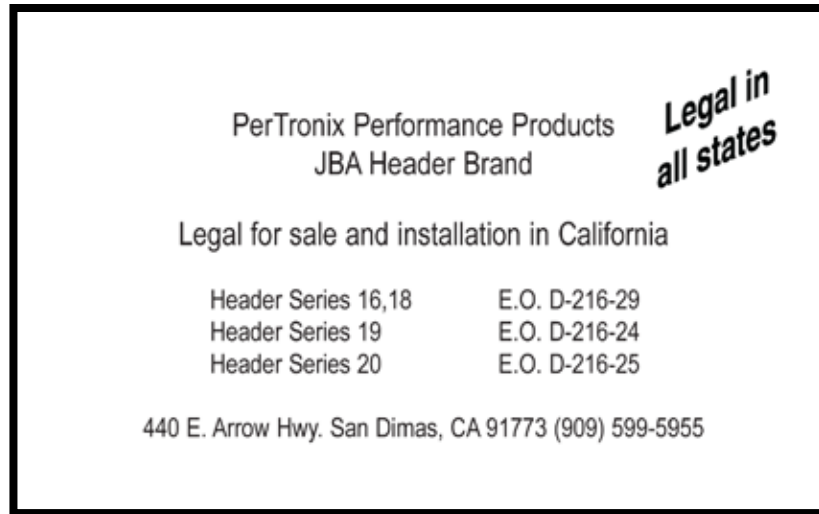
To prevent leakage, it is important to tighten the flanges on any set of JBA headers carefully by using the proper procedure. The torque sequence from one flange to another will vary, but generally every bolt on a header should be first fit snug, starting from the inside of the flange working out, alternating from top to bottom so that the bolt connects the flange to the manifold to the point where they barely touch. Second, using the same inside-out pattern, tighten each bolt until finished. This method will help prevent leakage and will give the user the best possible performance out of their pair of headers.

## INSTALLATION INSTRUCTIONS

1. Place vehicle in a location where the floor is solid and flat, with adequate lighting. Do not attempt to work on a hot engine. Heat causes metal to expand and makes removal of fasteners difficult at best. Before continuing allow enough time for fuel pressure to bleed down.
  2. Disconnect the negative battery cable from the battery.
  3. If a lift is not available, raise the front of the vehicle to obtain adequate access to the bottom exhaust manifold flanges. Use large-base jack stands to support the vehicle. Do not rely on the jack! Block the tires to prevent the vehicle from rolling off the jack stands.
  4. Apply penetrating oil on all accessible fasteners and fittings before attempting to remove them.
  5. From below disconnect the exhaust system from the exhaust manifold.
  6. Remove the air cleaner assembly.
  7. Remove the serpentine belt.
  8. Unbolt the power steering pump from intake manifold.
  9. Unplug wire harness from fuel injectors.
  10. Disconnect the various electrical connectors, O2 sensor, TPS, temp sender, etc. Unbolt the wire harness trough and swing out of the way.
  11. Disconnect vacuum lines on intake manifold.
  12. Unbolt the fuel line bracket from side of intake manifold.
- NOTE: Working with raw fuel is hazardous. Use appropriate caution.
13. Using the proper tool, disconnect the fuel line from fuel rail. Cover the end of fuel line to insure against contamination, and minimize leakage.
  14. Remove bolts attaching intake manifold to cylinder head. Remove manifold.
  15. Remove two nuts, and one bolt attaching exhaust manifold to head. Remove exhaust manifold.
  16. 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.
  17. Place the supplied gasket over exhaust studs and dowel pins.
  18. Install header using factory nuts, and bolt.
  19. Pre-install the two lower center bolts. Leave the bolts loose enough to slip the intake manifold under the washers, and over the dowel pins.
  20. Install the remaining intake bolts. Tighten the intake manifold bolts to factory specs, using proper torque sequence.
  21. Reconnect all electrical connectors, vacuum lines, and re-attach wire trough.
  22. Reconnect the fuel line. Push and pull a couple of times to insure proper engagement. Reattach fuel line bracket.
  23. Reconnect the power steering pump and serpentine belt.
  24. Reinstall the air cleaner assembly.
  25. Reconnect the exhaust system to the header using the supplied hardware.
  26. Reconnect the battery cable. Energize the ignition switch several times without starting the engine, and check for fuel leaks.
  27. 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.
  28. Start the engine and let it warm up. Check for leaks. Shut engine off and let it cool down. Check to make sure all fasteners are tight

**Parts List:**

- (1) JBA Headers**
- (1) Head flange gasket**
- (2) Collector bolts with nuts and lock washers**



This sticker is required to aid in passing the California Smog Check Program. This sticker must be installed in an underhood location that is readily visible.

### **LIMITED ONE YEAR 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.

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