

JBA performance**exhaust**®

Corporate Office: PerTronix Inc. 440 E. Arrow Highway, San Dimas, California 91773 * Phone 909.599.5955 • FAX 909.599.6424

Installation Instructions and Warranty Information

**1999-2008 GM Trucks and SUVs with
4.8L/5.3L/6.0L/6.2L V-8**



Part # 1850S, 1850S-1, 1850S-2, 1850S-3 & 1851S

ON VEHICLES BUILT BEFORE 12/31/2006

These headers retain all O.E.M. emissions equipment and are covered under the C.A.R.B. E.O. #D-216-29. 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.

ON VEHICLES BUILT AFTER 12/31/2006

WARNING: These headers are legal for Off Highway use (except in California or states that have adopted California emission standards) or Racing use (which may never be used on a Highway), or for use on pre emission controlled motor vehicles/motor vehicle engines (pre 1974 domestic vehicles certified to California standards, pre 1974 domestic vehicles certified to Federal standards and all pre 1974 Foreign vehicles) Only.

Read all instructions carefully before attempting installation.

Rev. 04/09

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.

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.

Attention 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 normal for the flange to be raised off the cylinder head the thickness of the sealing bead. It is important when installing the header, to install all bolts loosely, then tighten evenly to ensure the flat installation of the flange. 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.

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. Disconnect the battery cables from the battery. 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.

2. Disconnect the spark plug wires by grasping and gently twisting the spark plug wire boots. Do not pull on the wires! Spray WD-40 or some type of penetrating oil on all accessible fasteners and fittings before attempting to remove them.

3. Driver side: On air pump equipped vehicles remove the air tube from the manifold and slip it loose from the rubber hose at rear of engine.
4. Remove the thru-bolt from the steering shaft, and slip the steering shaft apart. Now unbolt the manifolds from the factory exhaust system.
5. Remove the six bolts holding the exhaust manifold to the head, then remove the manifold.
6. With the manifold out of the way, clean any carbon deposits left on the head using a small wire brush or similar instrument. Prepare the supplied header bolts by applying a small amount of anti-seize to the threads. (Use of anti-seize is recommended on aluminum heads.)
7. Install the new header using the supplied gaskets, fasteners and lock washers.
8. Reinstall the spark plug wires, reconnect steering shaft, reinstall air tube (if equipped) using gasket and fasteners provided.
9. Passenger Side: Remove the air tube (if equipped), remove plug wires and set aside. Disconnect the EGR tube from the manifold if equipped, remove the bolt attaching the dipstick tube bracket to the head then remove the dipstick tube.
10. Remove the six bolts attaching manifold to head, remove manifold.
11. Clean head surface and prepare the header bolts as in step 7. (anti-seize)
12. Install the new header using the supplied gaskets, and fasteners.
- 13 Reconnect the EGR tube if equipped using gasket and hardware supplied.
14. Reinstall dipstick tube, spark plug wires, and air tube (if equipped).
15. Using the supplied fasteners, reconnect the factory exhaust to the headers using the supplied gasket on the driver's side. We recommend that you apply a small amount of hi-temp silicone on the passenger side collector dome.
16. 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.
17. Retorque after 100 miles. Periodically check and retighten the header bolts.

Parts List:

- (1) Passenger side Header Assembly
- (1) Driver side Header Assembly
- (2) Head flange gaskets
- (1) Collector flange gasket (1 Passenger side collector gasket for PN 1850S-1 & 1850S-3)
- (13) 8mm header bolts
- (13) 8mm lock washers
- (3) 3/8-1-1/2" collector bolts (driver side)
- (3) 3/8-2" collector bolts (passenger side)
- (6) 3/8 lock washers
- (6) 3/8 nuts

For use on air injection equipped vehicles

- (4) 1/4-1" bolts
- (4) 1/4 lock washers
- (4) 1/4 nuts
- (2) Air tube gaskets

For use on EGR equipped vehicles

- (2) 5/16-1" bolts
- (2) 5/16 lock washers
- (2) 5/16 nuts
- (1) EGR tube gasket

PerTronix Performance Products JBA Header Brand		Legal in all states
Legal for sale and installation in California		
Header Series 16,18	E.O. D-216-29	
Header Series 19	E.O. D-216-24	
Header Series 20	E.O. D-216-25	
440 E. Arrow Hwy. San Dimas, CA 91773 (909) 599-5955		

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.

<h3>LIMITED ONE YEAR WARRANTY</h3> <p>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.</p> <p>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.</p> <p>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.</p>

