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Installation Instructions and Warranty Information

**JBA Headers for 1997-03 Ford F-Series,
Super Duty, Expedition and Excursion
with Triton 4.6L/5.4L Engines**



1677S	97-03 Ford Truck/Expedition 4.6L
1679S	97-03 Ford Truck/Lightning/Expedition 5.4L
1679S-1	99-03 Ford Super Duty Excursion 5.4L w/EGR
1679S-2	99-03 Ford Super Duty Excursion 5.4L w/o EGR
1679S-3	99-03 Ford Truck/Lightning/Harley 5.4L SC
1679S-4	98-02 Lincoln Navigator 5.4L DOHC

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.

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.

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. Then unbolt and remove the front wheels.

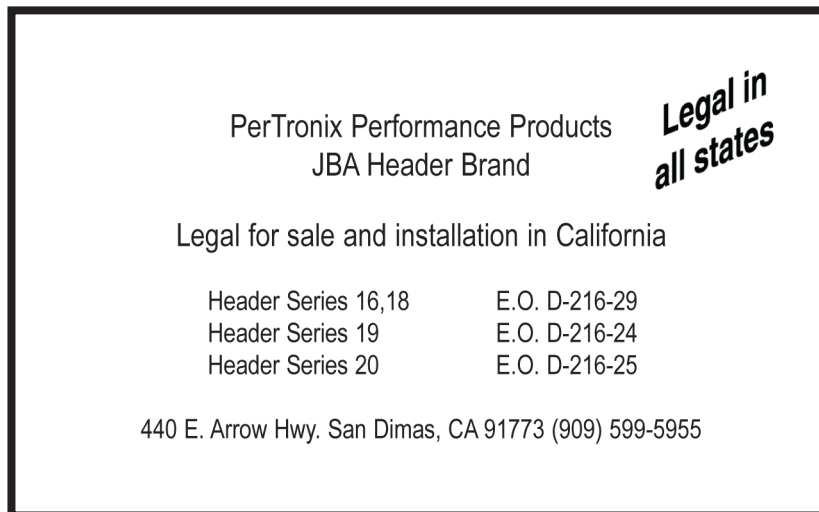
2. Spray WD-40 or some type of penetrating oil on all accessible fasteners and fittings before attempting to remove them.

3. From underneath the vehicle, loosen the bolts connecting the exhaust system to the exhaust manifolds (On 4X4 models, disconnect the front drive shaft by removing the 4 bolts on the companion flange, and let the drive shaft hang out of the way.) Pry the exhaust system back about 1/2" to gain workspace.

4. It is not necessary to remove the inner fender wells, but it makes the installation easier. To remove the fender wells simply unscrew all the sheet metal screws and fasteners attaching it to the fender and frame and the fender well will drop out.
5. Working through the wheel well, on the driver's side, loosen the EGR tube from the manifold. Then remove the nuts attaching the manifold to the head. Remove the manifold. You must also remove the manifold attaching studs from the head. The studs have a 5mm hex end on them, a 1/4" drive ratchet and a 5mm socket work well for removing the studs.
6. 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.
7. On the passenger side, again working through the wheel well, remove the nuts attaching the manifold to the head then remove the manifold. Remove the manifolds attaching studs using the tools mentioned in step 5.
8. Using a scraper remove all carbon deposits and high spots from head surface, use care not to gouge the aluminum heads.
9. Remove the EGR fitting from the factory manifold and install it on the new header.
10. Apply a small amount of Hi-temp RTV (sensor safe) to the exhaust pipe flare then install the driver side header from underneath the vehicle. Some twisting and wiggling of the header is necessary to get the header in place. Attach the header using the supplied bolts, gaskets and lock washers and torque to 23 ft/lbs. Be sure to apply a small amount of anti-seize to the threads of the bolts before tightening. The EGR tube must now be loosened at the EGR valve (from the top) and attached to the fitting on the header. Re-install the dipstick. Tighten the EGR tube.
11. Apply a small amount of Hi-temp RTV (sensor safe) to the exhaust pipe flare then install the passenger side header through the wheel well. Attach using the supplied bolts, gaskets and lock washers and torque to 23 ft/lbs. Be sure to apply a small amount of anti-seize to the threads of the bolts before tightening.
12. Re-connect the exhaust system to the new headers using the hardware provided.(Re-connect drive shaft where applicable)
13. Re-install the inner wheel wells (if removed). Check to ensure that there is adequate clearance on all brake lines, wire looms, A/C lines, etc. On 4.6L models, it is recommended that you remove the passenger side-wheel well flap.
14. Re-install the front wheels and torque to factory specs.(see owners manual)
15. Reconnect the battery.
16. Re-check everything!
17. Start the engine, check for leaks and test drive. Then let engine cool and then re-torque the header bolts.
18. Periodically check and retighten the header bolts.

Parts List:

- (1) Driver's Side Header Assembly
- (1) Passenger's Side Header Assembly
- (2) Header gaskets (Header to Head flange)
- (4) Collector Bolts & Nuts
- (16) 8mm x 25mm Bolt w/lock washers (Torque to 23 ft/lbs. with anti seize on threads)



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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