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## Installation Instructions and Warranty Information

### Part # 6676S

### 2004-10 Ford F-150 5.4L Long Tube Race Headers



This Product is **ILLEGAL** for Street or Off Highway use and is only intended for Closed Course Competition use, Except for 1965 and older US Manufactured, California Certified vehicles; 1967 and older US Manufactured, Federal Certified vehicles, or 1967 and older Foreign Manufactured vehicles , which may have this product installed as long as the vehicle still meets emissions standards for the year of the vehicle and retains any original or retrofit emissions control devices, including EGR, A.I.R and any NOx device required for the year of the vehicle.

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

#### **WARNING**

This product can expose you to chemicals 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/product](http://www.P65Warnings.ca.gov/product)

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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 a re-coat.

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.

Installation of these headers requires an adequate work space, 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 half-way through the installation.)

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. Unbolt the exhaust from the factory Y-Pipe at the two bolt collector. Loosen the clamp between the intermediate pipe and the main exhaust pipe and remove the intermediate pipe.
3. Remove the starter wires and the starter. If the truck has an A/C drain tube, bend it backwards toward the fire wall and in towards the transmission.
4. Remove the bolts that attach the heat shields to the transmission crossmember. Unbolt the Y-Pipe mounting bracket from the crossmember.
5. On 2WD trucks, Support the transmission with a jack. Remove the nuts from the transmission mount. Remove the 4 bolts holding the crossmember to the frame, and remove the crossmember. This is not usually necessary on 4WD trucks.
6. Unplug and remove all 4 O2 Sensors. Do NOT mix up the front and rear sensors, they are different
7. Remove the bolts attaching the Y-Pipe to the manifolds and remove the Y-Pipe.
8. Reinstall the transmission crossmember and bolt it to the frame, leave the crossmember to transmission mount bolts out at this point.
9. Remove the front wheels and inner fenders to access the exhaust manifold bolts.
10. Remove the oil dipstick and dipstick tube.
11. Remove the exhaust manifold nuts, on the passenger side it will probably be necessary to remove the studs to remove the manifolds. Remove both exhaust manifolds and the remainder of the exhaust manifold studs.
12. Install the headers from below using the supplied gaskets, header bolts and star washers. To install the passenger side header, you will need to push the transmission to the left and block it in place in order to get the header in place. Torque evenly to 14-18 ft lbs.
13. Unblock the transmission and install the transmission mount bolts and tighten to spec.
14. Using sensor safe anti-sieze, instal the O2 sensors in the headers and plug them in.
15. Reinstall the starter and wiring. Reinstall the oil dipstick and tube.
16. If using the JBA Y-Pipe kit, install the drivers side crossover pipe to the header, do not tighten. Slide the clamp with hanger over the pipe and insert into the factory rubber hanger. Install the right side exhaust pipe to the header, Do not tighten. Install the Y-Pipe section to the factory exhaust and the front exhaust pipes using included clamps. Align everything then tighten all clamps. Depending on the year and model it may be necessary to cut and weld the stock exhaust pipe to the Y-Pipe
17. Remove the O2 sensors from the factory Y-Pipe and install into the JBA Y-Pipe.
18. Re install any skid plates. Check all connections are tight. Reinstall the air box and inlet tube. Attach battery cable. Start truck and check for leaks, tighten if necessary.
19. After 100 miles recheck ALL header bolts as they can loosen with heat cycles. Check at least once a year thereafter.

## Parts List

- (1) Driver's Side Header Assembly
- (1) Passenger's Side Header Assembly
- (16) 10MM header bolts & lock washers
- (2) Header gaskets (Header to Head flange)
- (2) V Band Clamps
- (2) V Band reducers (not used with JBA Y-Pipe kit)
- (1) O2 Harness extension

### 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.

**JBA**  
performance**exhaust**®

