



# Installation Instructions and Warranty Information

For '96-04 Mustang GT 4.6L and  
'99-'04 Cobra 4.6L dohc V-8



Part#	Description
6622S	'96-'04 Mustang GT 4.6L sohc 1-3/8" long tube
6632S	'96-'04 Mustang GT 4.6L sohc 1-5/8" long tube
6625S	'99-'04 Cobra 4.6L dohc V-8 1-3/4" long tube
6635S	'99-'04 Cobra 4.6L dohc V-8 1-5/8" long tube

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

## **Installation instructions for P/N 6620 Series JBA Mid-Length Headers For '99-'04 Ford Mustang and Cobra with 4.6L V-8**

**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.) This part is certified for use on Emission Controlled Vehicles.

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.

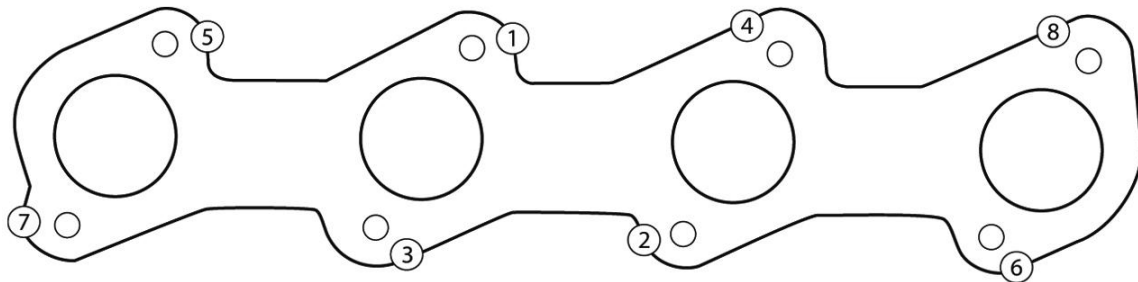
JBA Performance Exhaust assumes no responsibility for damages resulting from improper operation, misuse, abuse, or lack of responsible care, or any problems resulting from incompatibility with other manufacturer's products.

Included with your installation instructions is a copy of the product warranty. Please read it carefully before you begin any work on your vehicle. Should you have any questions about the warranty policy or installation, please give JBA a call at 619 229-7797.

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, 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. Below is the proper torque sequence for your particular set 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. Spray WD-40 or some type of penetrating oil on all accessible fasteners and fittings before attempting to remove them.
3. Disconnect the exhaust system from the catalytic converter assembly. Unplug O2 sensors and remove the converter assembly from the vehicle.
4. Unbolt the starter from the bell housing and let it hang out of the way.
5. Loosen the EGR tube located at the rear of the driver side manifold.
6. Remove the motor mount nut under the passenger side manifold.

7. Now raise the passenger side of the engine by placing a wood block under the oil pan and jacking it up approximately 1".
8. With the engine raised, unbolt the passenger side manifold and remove the manifold studs.
9. Install the passenger side header using the supplied hardware and gasket. Apply a small amount of anti-seize to all header bolts before threading. Torque to 13 lbs./in. Reconnect the air fitting if equipped.
10. With the passenger side header installed, lower the engine onto the motor mount and tighten the motor mount nut.
11. Reinstall the starter.
12. Disconnect the steering shaft from the steering rack and swing it out of the way.
13. Disconnect the EGR tube from the driver side manifold and remove the driver side manifold and dipstick tube. Make sure to remove all of the manifold studs. (For easier access remove the oil filter)
14. From underneath the vehicle, slip the new header into place. Then, from the top, slide the dipstick tube through the header between the second and third tube, and the head flange. Guide the tube under the motor mount and into its hole. (Start on top and finish underneath.)
15. Loosely attach the EGR tube to the new header. Then install the header using the supplied hardware and gasket. Remember to prepare the header bolts with anti-seize and torque to 13 lbs./in. Reconnect the air fitting if equipped.
16. Tighten the EGR tube. Now reconnect the steering shaft to the steering rack. Attach the dipstick tube to the head using the supplied spacer and original bolt. (Don't forget to reinstall the oil filter.)
17. Install JBA h-pipe (part number 6625H or 6625HC) or custom intermediate exhaust after the headers. Connect h-pipes to the exhaust system.

**NOTE:** Apply a small bead of high temperature silicone around the dome on the passenger side header for added leak protection.

18. Reconnect the battery cable.
19. Re-check everything for adequate clearance on A/C lines, steering shaft, brake lines, etc.
20. 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.
21. 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)
- (1) Base flange gasket
- (18) 8mm x 1.25 Header bolts w/lock washers (Torque to 13 lbs./in on aluminum heads)
- (2) 3/8" x 1-1/2" Collector bolts w/washers -(2 flat washers and 1 lock washer per)
- (2) 3/8" x 1/2" Collector bolts w/washers -(2 flat washers and 1 lock washer per)
- (2) 8mm flat washers
- (1) 8mm x 1.25 nut

**Other recommended parts:**

- P/N 6625H JBA 3" High Flow H-pipe
- P/N 6625HC JBA 3 " High flow H-pipe with cats
- P/N 40-2626 JBA EvoI™ Exhaust System 3" Stainless Steel

For more information about this and other JBA products visit [www.jbaheaders.com](http://www.jbaheaders.com)

# LIMITED LIFETIME WARRANTY

All products manufactured by JBA are guaranteed to be free from defects in materials and workmanship at the time of sale. All products are guaranteed to fit the intended application, provided the vehicle has not suffered structural damage or other modification\*. Claims for damage occurring during shipment must be made to the carrier. JBA, at its option, will repair or replace any product found to be defective in materials or workmanship.

Failure of any JBA product while on the originally installed vehicle, will entitle the original purchaser to repair, replacement, or pro rata credit according to the following chart:

Up to 2 years from the date of purchase	JBA will repair or replace at its option
After 2 years	JBA will allow credit of 50% of the current price

Certain uses or occurrences listed below will void this warranty.

**PURCHASER ASSUMES RESPONSIBILITY:** JBA expressly disclaims, and the purchaser expressly assumes, responsibility for all labor related costs and any incidental or consequential damages arising from any JBA product installation or failure. JBA's liability is limited to the purchase price of the product. JBA, at its option, may refund the amount of the purchase to end a warranty claim. Labor charges incurred to install or remove the product are not covered. Damage resulting from incorrect timing, fuel system problems, clogged catalytic converters or backfire is not covered. Charges for the loss of use of vehicle, car rentals, and towing are the responsibility of the customer and are not covered. Cost of customer-applied coatings is not covered. As sound preference is subjective, sound is not warranted. Other than the warranty described herein, JBA products are sold "AS IS". No warranty terms are implied. The terms of this warranty are severable. Any provision voided by state or other applicable law shall not act to enlarge other provisions of this warranty except as expressly required by law. Catalytic converters and other products sold but not manufactured by JBA are subject to the product manufacturer's warranty only and are not warranted by JBA.

**THE FOLLOWING WILL VOID THIS WARRANTY:** Use of "heat-wrap" products and/or the use of fuels other than gasoline will void this warranty. Damage caused by improper installation is not covered under this warranty. Damage caused by collision, road hazards, or failure of other components is not covered. Any repair or alteration to a JBA product not performed by JBA or its authorized agents will void this warranty.

**NO FREIGHT WARRANTY:** JBA does not warrant freight. The purchaser will be responsible for freight to and from JBA. Contact JBA to make a warranty claim and to receive a return authorization number. Return the product freight prepaid **along with a copy of the original purchase invoice** and a written description of the problem including the return authorization number to the address below. JBA does not accept freight-collect shipments. A product found to be defective or otherwise covered under this warranty will be repaired or replaced per the above policy and returned freight-collect.

JBA cannot assume responsibility for compliance with local law and regulations regarding smog and noise standards. Headers described as "smog legal" are warranted to be C.A.R.B. (California Air Resources Board) exempt or pending exemption approval. This warranty is extended solely to the original purchaser and for the original vehicle on which the product was installed.

JBA reserves the right to change the design, material, or specifications of any product without notice.

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\* Note that certain custom headers may require different engine mounts or brackets for proper fit.

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For more information about this and other JBA products visit [www.jbaheaders.com](http://www.jbaheaders.com)