



# Installation Instructions and Warranty Information

## JBA Headers for 2005-2007 Mustang GT 4.6L 3v



**Part # 6675S**

**Long tube headers with 2-1/2" collectors**

**Part # 6673S**

**Long tube headers with 3" collectors**

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

Rev. 12/06

## Installation instructions for JBA Cat4ward® Headers 05-07 Ford Mustang 4.6L 3v V-8 P/N 6675S and 6673S

**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.

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.

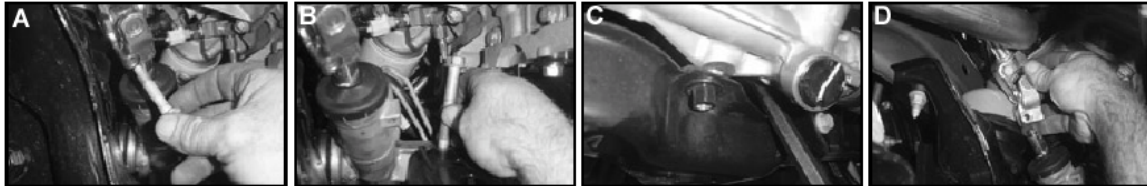
For refinement, both Ford V-8 engines are installed using hydro mount bushings on either side of the block. These liquid-filled engine mounts are tuned to quell specific unwanted vibration. Under extreme driving conditions these mounts allow excessive engine movement. We recommend replacing these motor mounts with performance mounts available from Steeda PN# 555-4005.

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. Loosen the clamps connecting the H-pipe to the exhaust system. Disconnect the exhaust system from the H-pipe assembly. Unplug the O2 sensors and remove the converter assembly from the vehicle.

### Driver side:

4. Remove the nut on the driver side motor mount to allow the engine to be raised.
5. Remove the nuts attaching the manifold to the cylinder head.

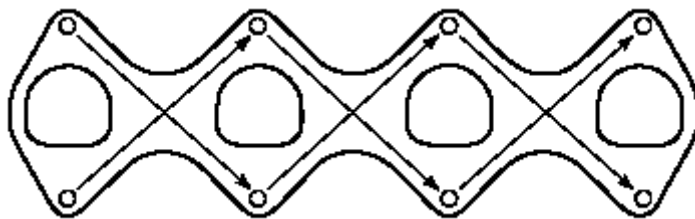
6. Raise the engine approximately 1", remove the manifold. With the manifold out - lower the engine.
7. Remove the two lower rear exhaust studs, and the three rear top studs. Remove the dipstick.
8. **(A)** Remove the lower bolt from the steering shaft coupler at the power steering rack. **(B)** Remove the bolt attaching the steering rack to the frame on the driver's side. Loosen the same bolt on the passenger side. **(C)** Slide the power steering rack forward on the driver's side approx. 1". **(D)** Remove steering shaft coupler from the rack. **(See images)**



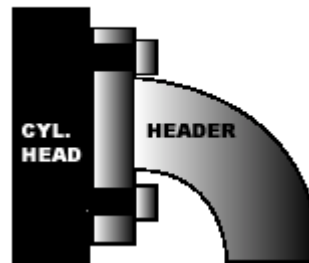
9. Reinstall one of the factory gaskets on the remaining studs.
10. Raise engine about 1" and install the new JBA Header. Install the supplied bolts w/ lock washers where you removed the studs. Re-install the dipstick. You will have to space the top mount away from the head with the spacer provided. Reconnect the steering coupler, move the Rack back into place. Replace the mounting bolt and tight both bolts securely. Lower engine, replace mount nut.

**Note:** To ensure a tight seal - use an alternating torque sequence to snug the header to the head working both top and bottom bolts in evenly. Failure to do this will result in leaks.

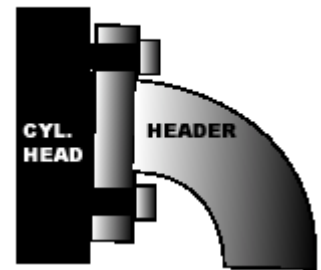
**Torque Sequence - Alternate top to bottom**



**CORRECT**



**WRONG (LEAK)**



### **Passenger Side:**

11. Remove the passenger side motor mount nut to allow the engine to be raised. Remove the three bolts from the starter. Let it rest on the frame for now. Raise the engine approximately 1" - then unbolt and remove the manifold.
12. Leave the top forward stud in place, remove the other seven. Reinstall the the remaining factory gasket.
13. Slip the new header into place. (With the engine raised, slip the header past the starter boss till the boss is between the 3<sup>rd</sup> and 4<sup>th</sup> tubes. Then lower the engine until the header will slip over the starter boss. Then raise the engine up to finish the placement of



the header. You will have to lower it to finish the installation). Replace the motor mount nut, and tighten securely.

14. Replace the starter. Install the O2 sensors into the headers. You will need to extend the O2 sensor wires - for best results use JBA extender cables part no.- 6680W.

15. For 6675S headers complete with JBA H-pipe p/n 6675SH (no cats) or 6675SHC (with cats) or for 6673S headers use p/n 6673SH (no cats). Re-connect the exhaust.

Reconnect the battery cable. Recheck everything for adequate clearance on A/C lines, steering shaft, brake lines, etc.

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. Periodically check and retighten the header bolts

#### **Parts List:**

- (1) Driver's Side Header Assembly
- (1) Passenger's Side Header Assembly
- (16) 8mm Header fasteners w/ lock washers
- (1) Dipstick tube spacer (3/8" Nut)

**\*This product is designed to re-use the original manufacturer's gaskets'**

#### **Other recommended parts:**

##### **For 6675S headers with 2-1/2" collectors**

JBA 2.5" High flow H-pipe - p/n 6675SHC

JBA Axle-Back Exhaust System 2.5" - 40-2627

##### **For 6673S headers with 3" collectors**

JBA 3" High flow H-pipe 6673SH (no cats)

JBA 3" Dual exhaust system 40-2633

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.

## Installation Notes

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