



Installation Instructions and Warranty Information

For '67-'70 390/427/428 Mustang



Part#	Application	Notes
6656S	67-70 Mustang 390 GT	41, 42
6655S	67-70 Mustang 390/427/428/428CJ C6/C4	39, 41, 42
6654S	67-70 Mustang 390/427/428/428CJ 5spd	39, 41, 48, 49, 50

39 Will not fit standard 390 cylinder head. Head flange is designed for 14 bolt 390 GT cylinder head only.

41 Fits most rack and pinion conversions.

42 Requires JBA power steering ram drop down bracket for use with factory power steering.

43 Not designed for 5 spd trans applications

48 Fits 5 spd w/aftermarket cross member

49 Will not fit factory power steering. Fits manual steering.

50 Fits aluminum Shelby block

Read all instructions carefully before attempting installation.

Installation instructions for P/N 6650 JBA Cat4ward® Headers 1967-1970 Mustang 390/427/428/428CJ

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.

CAUTION: If you dent the headers during the installation process they are no longer resalable, ruined and non-returnable. If you have trouble during the installation there is something wrong with your application or the JBA Header. Call 619.229.7797 x.105 for technical support. These are very critical fitment headers designed for Mustangs with original spec. chassis.

Things you will need:

- Floor jack
- Jack stands with large bases
- WD40 or equivalent penetrating oil
- Set of wrenches
- Socket set, ratchet and extensions
- Hack saw
- Screw drivers
- Two wood blocks 2x2x3 (2x4 cut)

NOTE: Typically the exhaust pipes in these early vehicles are long gone. These instructions contemplate the removal of old components and the installation of a new exhaust system by a competent exhaust shop. Thus if you are replacing conventional headers (which typically exit under the belly near the transmission) with the JBA Tri-Y's, and your exhaust pipes are in good shape, the modifications to be performed by an exhaust shop will be relatively minor. These instructions cover only the installation of the JBA headers. JBA offers a matching 2 1/2" H-pipe and 2 1/2" exhaust system for the headers.

H-pipe Part No. 6654H

Exhaust System Part No. 50-2650

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 up on to the jack stands to obtain adequate access to the bottom exhaust 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! Brush or blow any debris, which may have collected around the manifolds or spark plugs. This will help prevent foreign matter from entering the combustion chamber when the manifolds are removed. Spray WD-40 or some type of penetrating oil on all accessible fasteners and fittings before attempting to remove them.
3. From under the vehicle, unbolt the head pipes from the exhaust manifold and the exhaust system. Then remove the head pipe.

4. Unbolt the starter and set it aside.
5. Remove the clutch linkage and set it aside.
6. Remove the motor mount bolts.
7. Raise the engine up enough to put your 2x2x4 wood blocks between your engine mount and saddle where it sat. Lower the engine on to the blocks. It's now safe to disconnect the engine hoist and remove the factory manifolds on both sides.
8. Using a small wire brush or similar instrument, clean any carbon deposits left on the head.
9. Clean the debris off of the frame under the exhaust manifolds. Be sure to protect your eyes.
10. Raise the car up on the jack stands again and install the passenger side header from under the car. Only install the front and rear bolts and thread in 3 turns.
11. Install the driver side header from under the car and again only thread in the front and rear bolts about 3 turns. You may need to raise up the driver side a little higher. Be very careful.
12. From above, slide the supplied JBA gaskets between the header flange and the head on to the front and rear bolts. The gasket is notched in front and rear to allow it to drop into place. With the gasket properly in place, thread in the rest of the head flange bolts using the supplied lock washers. Thread them until they make contact with the head flange. Now using an alternating sequence (top to bottom) start tightening the bolts a half turn each until they are snug **using two bolts per port. (Some applications have more bolt holes than others.)**
13. Repeat this process on the other side.
14. If you are installing the JBA H-pipe P/N 6654H, snug the supplied collector bolts up until the rest of the exhaust system is installed. This will allow for proper alignment.

15. Double check to make sure the head flange bolts are tight to head. Now raise the engine up with the engine hoist and remove the wood blocks. Lower the engine down onto the mounts and tighten mount bolts.
16. Reinstall the spark plug wires and looms taking care not to let any wires rest against the header tubes. Reinstall the battery cable. Make sure all rubber hoses and wires are kept away from the headers. Otherwise, the heat will damage these components.
17. The installation of the headers is now complete. The adaptation of the headers to the exhaust system should be left to an exhaust shop unless you have access to tube bending and welding equipment.
18. After the exhaust modifications have been made to adapt the headers to your exhaust system, recheck everything! Make sure all bolts are tight.
19. Start the engine and let it warm up. Check for leaks. Shut engine off and let it cool down. Now re-torque all fasteners to make sure all are tight.
20. All Tubular Headers require maintenance including periodically check and retighten the header bolts.

Parts List:

- (1) Driver 's Side Header Assembly
- (1) Passenger 's Side Header Assembly
- (16) 3/8 "x 1 "header bolts & lock washers (Torque to 30 lbs./in iron heads, 23 lbs./in aluminum heads)
- (4) 3/8 -16 x 3/4 "bolts
- (6) 3/8 -16 x 2 1/2 "collector bolts with lock washers and 3/8 "nuts
- (2) Header gaskets (Header to Head flange)

Other recommended parts:

Use JBA H-pipe part no. 6654H

For more information about this and other JBA products visit 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.

Automotive Engineered Products, Inc.
dba JBA Headers and Performance Exhaust
7149 Mission Gorge Road, Suite D
San Diego, California 92120
(619) 229-7797

Copyright 2005 by Automotive Engineered Products, Inc. All rights reserved.

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

Installation Notes



For more information about this and other JBA products visit www.jbaheaders.com