



Installation Instructions and Warranty Information

2005-2006 Nissan Frontier 4.0L V6



Part Number 1410S

Read all instructions carefully before attempting installation.

Rev. 07/06

Installation instructions for **JBA Cat4ward® Headers P/N 1410S** **2005-2006 Nissan Frontier 4.0L V6**

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.

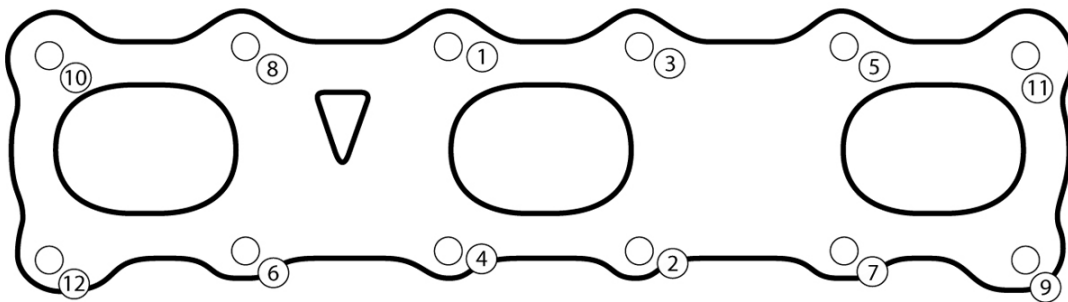
The Purchaser is responsible for following all installation instructions and safety guidelines supplied with JBA Performance Exhaust products.

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. Remove battery cable.
2. From underneath, remove the four nuts connecting the exhaust to the catalytic converters. Remove the two 12mm headed bolts from the front exhaust hanger. Push the exhaust system back as far as it will go (about 1 ").

DRIVERS SIDE

3. Remove the three bolts attaching the heat shield to the exhaust manifold. Wiggle the heat shield off to the side to get access to the upper stud on the cat. converter.
4. Disconnect the O2 sensor plug. Remove from the bracket.
5. Remove the three 14mm nuts attaching the converter to the manifold. Remove the converter from the vehicle.
6. Remove the heat shield.
7. Carefully remove the six nuts attaching the manifold to the cylinder head.
(NOTE: The nuts are butter soft and will easily round off. A flank drive type of socket is recommended.)
8. Remove the manifold.
9. Remove the carbon build up from the cylinder. head, being careful not to gouge the head surface.
10. Install header using the factory gasket with the original nuts.

PASSENGER SIDE

This side is easiest to access through the wheel well.

11. Raise right side, support on jack stand. Don't rely on the jack alone. Remove wheel, and inner fender well.
12. Remove three 10mm headed bolts attaching the heat shield to the manifold.
13. Remove the O2 sensor from the Cat Converter.
14. Remove the three nuts attaching the cat. to the manifold. Remove the cat.
15. Reaching over the upper control arm with a 12" extension and a 18mm socket, remove the two bolts attaching the motor mount to the frame.
16. Raise engine about 1".
17. Reposition heat shield to allow access to the manifold bolts.
18. Remove the six nuts attaching manifold to head.
19. Remove the manifold and heat shield. Remove the carbon build up from the cylinder head, being careful not to gouge the head surface.
20. Slip header into place from underneath.
21. Install header reusing the factory gasket with the original nuts.
22. Lower engine. Secure motor mount.

EXHAUST-

23. Reinstall both converter assemblies using factory hardware and supplied bolts with lock washers and nuts. Reconnect O2 sensors.

24. Reconnect exhaust to the converters using factory hardware. Reconnect exhaust hanger.
25. Recheck everything to ensure adequate clearance on brake lines, fuel lines, coolant hoses, etc.
26. Start engine, check for leaks.
27. Re-install inner fender-well, and tire.
28. Re-torque.

Parts List:

- (1) Driver side header assembly
- (1) Passenger side header assembly
- (2) 10mm – 1.25 x 35 Bolts with nuts and lock washers

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

Other Recommended Parts:

For even more power and an aggressive sound add a new JBA Performance exhaust system.

JBA's exhaust system is tuned for maximum performance with your new JBA Cat4ward®headers.

Features

- Stainless steel construction
- High flow y-pipe
- JBA stainless steel muffler
- Polished/chrome plated stainless tip



JBA Exhaust System P/N 40-1410

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 Instructions

Installation Instructions



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