



# Installation Instructions and Warranty Information

For 2004-05 Nissan Titan 5.6L



Part#1400S

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

Rev. 10/05

## **Installation instructions for JBA Cat4ward® Headers Part#1400S 2004-05 Nissan Titan 5.6L**

**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.

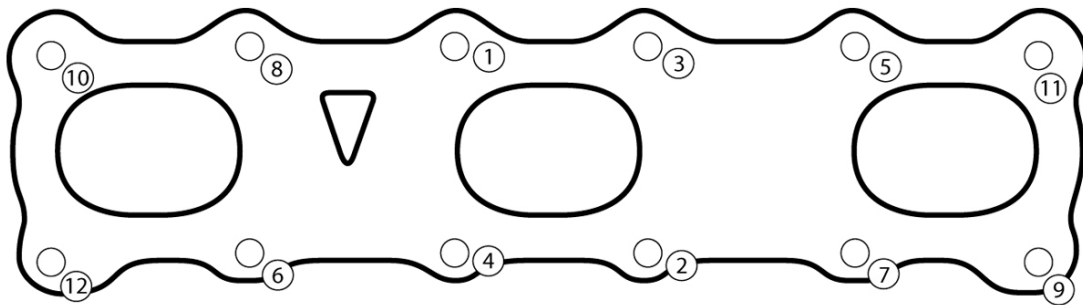
JBA Performance Exhaust assumes no responsibility for damages resulting from improper operation, misuse, abuse, or lack of responsible care, or any problems resulting from incompatibility with other manufacturer's products.

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.

**Note:** Installation of these headers requires welding.

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. Start by unbolting the factory exhaust from the catalytic converter assemblies and move it back a few inches.

Driver side:

4. Next, support the engine. Use caution when doing this as you are going to remove the motor mount and need to make sure the engine will not shift.

5. With the engine properly supported, unbolt the two bolts attaching the mount to the frame and 4 bolts attaching it to the engine block. Now lift the engine approx. 1 ”.
6. With the engine raised, loosen the (4)screws attaching the heat shield to the factory manifold.
7. Now remove the O 2 sensor from the factory manifold. (Cuss liberally)
8. With the O 2 sensor out of the way, remove the heat shield. It will not come out easily. Extreme force may be required.
9. Next, remove the nuts attaching the factory manifold to the cyl. head. Be careful, the nuts round off easily.
10. Remove the manifold/cat assembly from the truck.
11. You now need to mark where you are going to cut the manifold from the cat. assembly. Make a mark 3/16 of an inch above the weld. See image at right. Now carefully make your cut.
12. Now temporarily install your new JBA Header (3 nut will do). Lower the engine and reinstall the motor mount.
13. Assemble the driver side cat with the exhaust system and move the exhaust system forward into place. Reconnect the passenger side manifold/cat assembly to the exhaust. Now align the driver side header collector with the catalytic converter with the cat slipping into the collector. With it properly aligned and in place, tack-weld the two together.
14. With the new header and cat. tacked together, raise the engine up again, remove the motor mount, and then remove the header/cat assembly.
15. Finish welding the header and catalytic convert together. Make sure there are no pinhole leaks.

**16.** Install the header/cat assembly on the driver side using the supplied gasket. You may also reuse the factory gasket if it is in good condition. Lower the engine and reinstall the motor mount securely.

**17.** Reinstall the O2 sensor.

Passenger Side:

**18.** Begin on the driver side by removing the engine oil dipstick tube by unbolting from the engine and then pulling and wiggling the tube out of the boss.

**19.** Now repeat steps 4 through 17 to install the passenger side header. Before finally lowering the engine you will need to reinstall the oil dipstick tube and bolt it to the engine.

**20.** Recheck everything. Make sure there is adequate clearance on all lines (brake, A/C, fuel, coolant)

**21.** Start the engine, check for leaks and test drive. Then let the engine cool and then re-torque the header bolts.

**22.** Periodically check and retighten the header bolts.

**Parts List:**

- (1) Driver Side Header Assembly
- (1) Passenger Side Header Assembly
- (2) Header gaskets (Header to Head flange)

# 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



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