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## Installation Instructions and Warranty Information

### 2010S 2000-04 Toyota Tundra/Sequoia 4.7



This Product has been granted a California Air Resources Board (CARB) "E.O" (Executive Order) Exemption, or is considered a Direct Replacement or Consolidated Replacement part. It is 50 State Legal when installed on the appropriate vehicle per the Manufacturer Application guide and Installation Instructions.

Read all instructions carefully before attempting installation.

Rev. 5 2-10-15 DSL

PerTronix© thanks you for choosing JBA HEADERS, the best fitting, highest quality header on the market. In order to realize the full potential of our good fit, please read and understand these instructions completely prior to starting work.

Check to make sure you received the proper parts for your application. The header number will be stamped on the engine flange. If you are unsure you have received the proper parts call before you start work.

Be sure to work safe! Whenever you work under the vehicle be sure that it is located on level, solid ground and is supported by adequate safety stands! Remember: Hot asphalt will not support most jack stands!

Many factors affect the installation of headers, some of which are broken or aftermarket motor mounts, accidents that impact the configuration of the frame, and/or the installation of different engines or aftermarket cylinder heads.

Attention Customers breaking in new engines: Due to the extreme heat generated during the break-in process, the appearance of the ceramic coating may be altered in certain areas. The protection characteristics and thermal barrier properties of the coating is never compromised. It is recommended that a cast iron manifold or old set of headers be used for this process.

Notice: The coating of these headers can be marred or scratched during installation. If the header needs to be returned and is damaged, you will be charged for recoat.

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 normal for the flange to be raised off the cylinder head the thickness of the sealing bead. It is important when installing the header, to install all bolts loosely, then tighten evenly to ensure the flat installation of the flange. 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, alternating from top to bottom 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.

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. From underneath the vehicle disconnect the exhaust system from the exhaust manifolds by unbolting the (3) bolts at the collectors. Then unbolt the driver side catalytic converter from the exhaust assembly and temporarily remove it from the vehicle.

#### PASSENGER SIDE

4. On the passenger side remove the (4) bolts attaching the heat shields to the factory manifold.

5. Next, carefully unplug the O2 sensor from its harness.


6. Now remove the nuts attaching the factory manifold to the cylinder head. With the manifold out of the way remove the mounting studs from the cylinder head.
7. Using a small wire brush or similar instrument, clean any carbon deposits left on the head surface. Be careful not to gouge the aluminum head.
8. Transfer the O<sub>2</sub> sensor from the factory manifold to the new passenger side header. Apply a small amount of anti seize to the threads for the sensor before installing it in the new header. Use caution not to drop or damage the sensor, they are fragile.
9. Now you are going to install the new JBA Header, but first there is some preparation of the hardware required. Apply anti seize to the threads of the new fasteners. Install the new JBA Header using the supplied gasket and fasteners. Torque to 23 ft./lbs.

#### DRIVER'S SIDE

10. Just like you did in step (4) remove the (4) bolts attaching the heat shields to the driver side factory manifold.
11. Next, carefully unplug the O<sub>2</sub> sensor from its harness. Unbolt the dipstick bracket from the head and remove the dipstick tube.
12. Remove the nuts attaching the factory manifold to the cylinder head. With the manifold out of the way remove the mounting studs from the cylinder head.
13. Using a small wire brush or similar instrument, clean any carbon deposits left on the head surface. Be careful not to gouge the aluminum head.
14. Transfer the O<sub>2</sub> sensor from the factory manifold to the new driver side header. Apply a small amount of anti seize to the threads for the sensor before installing it in the new header. Use caution not to drop or damage the sensor, they are fragile.
15. As you did on the passenger side, prepare the hardware before installing the driver side header. Apply anti seize to the threads of the new fasteners. Install the new JBA Header using the supplied gasket and fasteners. Torque to 23 ft./lbs. Re-install the dipstick tube.
16. Install the driver side catalytic converter.
17. Connect the exhaust system to the new headers using hardware and gaskets supplied. Reconnect O<sub>2</sub> sensors.
18. Check to insure adequate clearance between header and shifter cable (small cable that runs from firewall, to brace on fender well, to transmission). More clearance can be gained by adjusting (bending) brace on fender well.
19. Recheck everything!
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. All tubular headers require maintenance including periodically checking and retightening of the header bolts.

Parts List:

- (1) Driver Side Header Assembly
- (1) Passenger Side Header Assembly
- (16) 8mm -1.25 x 25mm header bolts & lock washers
- (2) Header gaskets (Header to Head flange)
- (6) 3/8 "x 2 1/2 "Collector Bolts, Nuts & Washers.
- (2) Exhaust pipe gaskets (rings)
- (1) CARB EO Sticker

 440 E. Arrow Hwy. San Dimas, CA 91773 (909) 599-5955	This vehicle is equipped with: <b>JBA Headers # 14XXS, 20XXS</b>
	Legal for sale and installation in California <b>CARB EXECUTIVE ORDER</b> <b>D-57-30</b>

**WARNING**

This label is required to aid in passing the California smog check program. This label must be installed in an underhood location that is readily visible.

**LIMITED ONE YEAR WARRANTY**

All JBA HEADERS and exhaust products are guaranteed, to the original purchaser, to be free of defects in materials and workmanship for one year. This warranty covers the replacement or repair of the product only and does not cover the cost of removal and installation, customer applied aftermarket coatings or any discoloration or corrosion of finished surfaces.

Damage or product failure resulting from collision, improper installation, off-road use, road hazards, the use of exhaust insulating wrap or like products or rust occurring after installation, is not covered by the warranty. The warranty extends only to the original purchaser.

Should a part become defective it should be returned to the original selling retailer and must be accompanied with the sales receipt. If there is no retailer in your area, call the factory for a return authorization and return your part prepaid to the factory for inspection. PerTronix reserves the rights to replace or repair the alleged defective part and return the part freight collect.



