

HEADER INSTALLATION INSTRUCTIONS

PART NUMBER: D522

Application

1968-72 Pontiac GTO/LeMans

400-455 HO/SD



WARNING: These headers are legal for Off Highway use (except in California or states that have adopted California emission standards) or Racing use (which may never be used on a Highway), or for use on pre emission controlled motor vehicles/motor vehicle engines (pre 1966 domestic vehicles certified to California standards, pre 1968 domestic vehicles certified to Federal standards and all pre 1968 Foreign vehicles) **Only**.

NOTE: These headers will **ONLY** work with Ram Air II/IV, Super Duty, HO, and Edelbrock Performer RPM Heads.

NOTE: Will NOT work with Air Conditioning.

PerTronix® thanks you for choosing **DOUG'S 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.

DISASSEMBLY

1. Disconnect the negative battery cable from the battery.
2. If a car lift is not available, raise the vehicle 3 feet or higher and support with adequate safety stands. Make sure the vehicle is on a flat solid surface and is stable.
3. Remove spark plug wires and spark plugs.
4. Disconnect the headpipes from the manifolds and move them out of the way.
5. Remove the 6 manifold bolts from each manifold, remove the manifolds from the car.

6. Remove the gaskets and any gasket material or any carbon deposits that remain on the head surface. The use of a gasket removal agent will ease the removal of any gasket material. Use care not to get debris into ports or spark plug holes.
7. Remove the Starter Motor, Clutch Linkage, Transmission/Key Interlock, Oil Filter and Oil Filter housing.

INSTALLATION

1. Place a jack under the oil pan, with a block of wood to prevent damage to the pan. Loosen the rear transmission mount bolts. Remove the Passenger side motor mount bolt and nut. Raise the motor approximately 1". Check that the motor mount to cross member bolts are installed with the bolt heads on top and the nuts underneath, if not they will need to be reversed.
2. Starting from below, slide the passenger side header into position.
3. Lower the motor and replace the motor mount bolt and tighten.
4. Slip the gasket between the header and the head and start all of the supplied header bolts and special lock washers starting with the 4th one from the front as it has restricted clearance. Do NOT tighten.
5. With the header loose, install the oil filter housing and the oil filter.
6. Tighten the header bolts starting with the 4th bolt, drawing the header up to the head and then tightening the remainder of the bolts.
7. Check the motor mount to cross member bolts on the driver's side and make sure that they are installed in the same manner as the passenger side as described above.
8. The brake junction/distribution block will end to be relocated from the inside of the frame to the top side to allow adequate clearance for the header. Make sure this is done properly to ensure not braking problems; it may require new longer brake lines.
9. Starting from below, slide the driver's side header into position.
10. With the header loose in the chassis, reinstall the starter motor.
11. Slip the gasket between the header and the head, install the rear center port bolt (4th bolt hole from the front) a couple of threads into the cylinder head. Slip the Slotted bolt hole in the header over that bolt, slide the header backwards and start all of the supplied header bolts and special lock washers starting with the 4th one from the front as it has restricted clearance.
12. Reinstall the Clutch linkage and Transmission/Key interlock.
13. Tighten the header bolts starting with the 4th bolt, drawing the header up to the head and then tightening the remainder of the bolts.
14. Install the supplied reducers using the gaskets and hardware.
15. Cut the headpipes to match the reducers if the original exhaust is to be used.
16. Reinstall the sparkplugs and plug wires.
17. Connect the negative battery cable.

IMPORTANT CHECK LIST

- Be sure that all brake lines and fuel lines are clear of headers and/or connector pipes.
- All spark plug wires, battery & starter cables, or other electrical components should be clear of headers and/or connector pipes.
- Check Oil Level
- Double-check the tightness of all bolts including brackets and accessories.

STARTING THE ENGINE

Start the engine and allow it to warm up to operating temperature. Check for any unusual noises or exhaust leaks. If every thing is OK, stop the engine and tighten all bolts while the engine is still warm.

NOTE: Check the bolts periodically to make sure they have not loosened. Re-tighten after the first 500 miles and then again at 1000 miles.

PARTS LIST

Qty	Description
1	Left Side Header
1	Right Side Header
2	Header Gaskets
2	3 ½" Reducers
2	3 ½" Reducer Gaskets
12	3/8-16 X 1", Header Bolts
6	3/8-16 X 1 1/4" Collector Hex Head Bolts
6	3/8-16 Hex Nuts
18	3/8" Internal Lock Washers
2	Doug's Stickers