



GP309S-C CERAMIC COATED HEADER

DODGE RAM TRUCK 4.7L 2/4WD

GIBSON HEADERS ARE 50 STATE SMOG LEGAL

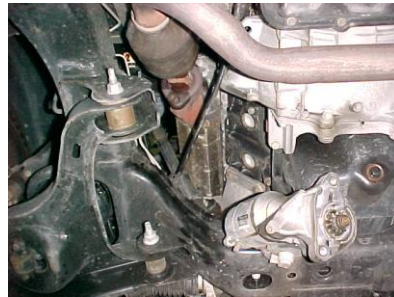
*Thank you very much for purchasing our Gibson header
for your vehicle.*

INSTALLATION INSTRUCTIONS

GP309S SHORTY HEADERS

NOTE: Installation of these headers requires an adequate workspace, general mechanic's tools general mechanical "know how". You should carefully read these instructions before attempting to install these headers. This part is legal on Emission Controlled Vehicles.

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. 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. Use safety glasses.
2. Spray WD-40 on all accessible fasteners and fittings before attempting to remove them.
3. From underneath the vehicle disconnect the Y-pipe from the exhaust manifolds.

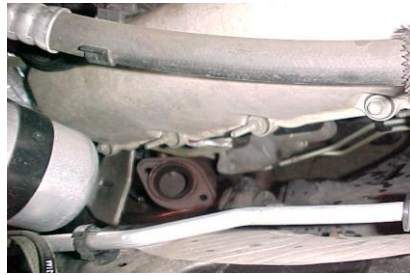


4. To remove the driver's side manifold. First remove the starter. Remove the driver's side manifold, studs and heat shields from the engine, through the top.



5. Using a scraper, remove all carbon deposits and high spots from head surface. Apply a high temperature gasket sealer to exhaust pipe flare in order to avoid problems due to lack of space later in the installation.
6. Recommended to remove steering shaft for easier installation of header. **Note:** Mark alignment of shaft. Install driver's side header using new head gasket + bolts. Use a high temp gasket sealer (O2 sensor safe) on head gasket. Install header through the top of engine compartment. You might have to move hoses, wires and steering shaft out of the way for easier installation. Starting from the center bolts in and working your way out. Torque all fasteners to 30 to 35 pounds. Then, after installation of header is done, wrap steering shaft with supplied heat-wrap and wire strips on vehicle. As shown in the picture.
7. Remove the air cleaner assembly. Remove the passenger side manifold. Then remove heat shield studs and manifold from the engine through the top.





8. Using a scraper, remove all carbon deposits on head surface. At this time apply a high temperature sealer (O2 sensor safe) to exhaust pipe flare in order to avoid problems due to lack of space later on in the installation.
9. Installing passenger side header through the top. Using new head gasket + bolts. Use a high temp gasket sealer (O2 sensor safe) on head gasket. NOTE: Last top bolt use 3/8" or 1/4" extension & socket to install hardware for easier installation. Torque all fasteners 30 to 35 pounds. Tighten all bolts starting from the center and working your way out. After passenger side header is installed use 2nd supplied heat-wrap and wire strips to wrap heater hose. Then use supplied zip ties to tie away from header.



10. Reconnect the exhaust system to the header using the hardware provided.
11. Check to make sure there is adequate clearance on battery cables, wire looms, brake lines, etc.
12. Re-connect the battery cables.
13. Recheck and tighten everything!
14. 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.

YOU MUST RE-TORQUE ALL HEADER BOLTS AFTER 100 MILES AND THEN PERIODICALLY CHECK.

NOTE: IT IS NOT UNUSUAL WHEN INSTALLING HEADERS TO GET A BURNING SMELL. THIS IS NORMAL AND IT WILL GO AWAY!

PART LIST:

<u>Part #</u>	<u>Qty.</u>	<u>Description</u>
HE-309SD	1	DRIVERSIDE HEAD FLANGE
HE-309SP	1	PASSENGERSIDE HEAD FLANGE
9683	1	PASSENGERSIDE GASKET
14030	2	4" X 8" HEAT WRAP
14031	8	6" STAINLESS WIRE STRAPS
3529	16	8" X 1.25" HEADER BOLTS
225	16	5/16" STAR WASHERS
BO-1014	1	BOLT KIT
9689	1	DRIVERSIDE GASKET
ZIP TIES	4	ZIP TIES