



HEADER INSTALLATION INSTRUCTIONS

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Part #H8097 Cast Manifolds, GM LS Engines



This Product is **ILLEGAL** for Street or Off Highway use and is only intended for Closed Course Competition use, Except for 1965 and older US Manufactured, California Certified vehicles; 1967 and older US Manufactured, Federal Certified vehicles, or 1967 and older Foreign Manufactured vehicles, which may have this product installed as long as the vehicle still meets emissions standards for the year of the vehicle and retains any original or retrofit emissions control devices, including EGR, A.I.R. and any NOx device required for the year of the vehicle.

PerTronix® thanks you for choosing **Patriot Exhaust Products**, the best value for the dollar of any brand in the industry. **Please read and understand these instructions completely prior to starting work.**

Check to make sure you received the proper parts for your application. 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 these manifolds, 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 an old cast iron manifold or old set of headers be used for this process. Warranty will be void if coating is damaged during break in.

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.

NOTE:

Patriot Cast Manifolds are a universal product that can fit a Wide Variety of Original Engine installations and Engine Swaps. These are designed to fit close to the engine to allow for the most possible clearance on many different vehicles, but are not guaranteed to fit any particular application.

DISASSEMBLY

1. Disconnect the negative battery cable from the battery.
2. Remove Spark Plug wires and Spark Plugs.
3. Remove engine oil Dipstick.
4. If there is no existing exhaust, skip to Installation.
5. Remove any existing Exhaust that is connected to the manifolds or headers
6. Remove the existing Exhaust manifolds or Headers.

INSTALLATION

1. Clean any existing gasket material and carbon buildup from the cylinder head surface where the manifolds attach.
2. Install the Patriot Manifolds to the cylinder heads using New GM Factory gaskets and supplied manifold bolts.
3. Bolt the supplied Reducers to the manifolds using the supplied flanges and Bolts. We recommend using High Temp, Sensor Safe, Exhaust Rated Silicone on the ball socket. The ball socket will allow for slight angle adjustments while still sealing.
4. Fabricate and Weld your exhaust system to the Patriot Reducer keeping in mind location of the O2 sensors.

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 cables, or other electrical components should be clear of headers and/or connector pipes.
- If dipstick tube was removed, make sure it is installed properly and that the dipstick has been replaced.
- 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 manifold
1	Right side manifold
12	Manifold bolts, M8 1.25 X 30mm
4	Collector Flange Bolts, 3/8-16 X 1.5"
4	3/8 Lock washers
2	Collector Flanges
2	Reducers with O2 sensor bungs



WARNING:

This product can expose you to chemicals including Lead, Nickel, Cadmium and Chromium which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov