



# PART # 68481 & 66481 INSTRUCTION SHEET 5.0-5.7L T.P.I. W/ A.I.R. 1982-91 CHEVY CAMARO, PONTIAC FIREBIRD & TA

**CAUTION!** This is a custom designed exhaust header system, designed for this particular application (s). Do not bend, bang, cut, dent, drill or heat any portion of this header! Any alteration other than those suggested in this instruction sheet will void the Hedman Lifetime Guarantee!  
To prevent leaks, install your headers using Hedman Heddere exhaust gaskets ONLY and a spray copper gasket sealant.

### BEFORE STARTING INSTALLATION:

It is necessary to raise the vehicle at least 36 inches from the ground. A floor hoist is recommended, if not available, use a hydraulic floor jack with jack stands. **DO NOT USE A BUMPER JACK!**

This tubular exhaust manifold system is designed as a system to improve the exhaust efficiency of the GM T.P.I. 5.0-5.7 V8 engine. A performance gain can be expected by the install of the system. Requires no welding for install & retains all O.E.M. emissions equipment.

#### DISASSEMBLY

1. Disconnect the negative cable from battery and remove spark plugs (Number Wires).
2. Raise the vehicle and support with jackstands.
3. Use penetrating oil on all nuts and bolts to be removed. This will prevent the possibility of broken or stripped nuts and bolts.
4. Make sure the converter is cool and remove the exhaust crossover pipe.
5. Lower vehicle to the ground.

#### DISASSEMBLY - LEFT SIDE

1. Remove fresh air duct to air cleaner.
2. Disconnect A.I.R. injection tube from exhaust manifold.
3. Remove power steering pump support bracket (If applicable).
4. Remove O2 sensor, being careful not to rupture or destroy the unit. **WARNING:** Do not clean this unit in any cleaning solvent and do not rupture wire.
5. Disconnect temperature sensor wire.
6. Remove bolts and exhaust manifold from top side.

#### DISASSEMBLY - RIGHT SIDE

1. Disconnect A.I.R. injection tube from exhaust manifold.
2. Remove bolts and exhaust manifold from top side.
3. Clean exhaust flange surfaces on cylinder head at this time.
4. On models with air tubes to catalytic converters, remove sheet metal screw from bracket on top of frame. Move tube out to clear header. Drill a new hole and replace screw.

#### INSTALLATION - LEFT SIDE

1. Install the left side header from the top side.

2. Install all but the front two bolts and washers in left side. **DO NOT TIGHTEN AT THIS TIME!**
3. Re-install rear power steering support bracket with bolts, lock washers, and spacers supplied.
4. Align all parts and tighten left side bolts and nuts at this time.
5. Re-install spark plugs and re-connect wires on left side.
6. Re-install temperature sensor wire to temperature sensor.
7. Re-install O2 sensor. Use anti-seize on threads of sensor & torque to 30 ft./lbs. Re-route O2 sensor wire from wire loom to O2 sensor making sure all wires are clear of exhaust system. (O2 sensor extension wire is included in kit.)

#### INSTALLATION - RIGHT SIDE

1. Install the right side header from the top side.
2. Install the remaining bolts, lock washers, and spacer tube from dipstick to clear exhaust flange.
3. Align all parts and tighten all right side bolts at this time.
4. Re-install spark plugs and re-connect wires.
5. Remove A.I.R. check valves from original manifolds and re-install them on header. With hose supplied in kit, re-connect all A.I.R. injection hoses at this time.
6. Raise vehicle and support with jackstands.

#### CROSSOVER PIPE ASSEMBLY

1. Carefully align & tap pipe into converter using a piece of wood.
2. Install crossover pipe on vehicle using 3/8" bolts & nuts provided.
3. Install u-clamps and tighten all nuts and bolts.
4. Start engine, test drive vehicle, allowing engine to gain normal operating temperature. Check for leaks & new or unusual noises. After test drive allow engine to cool & re-tighten all header bolts.

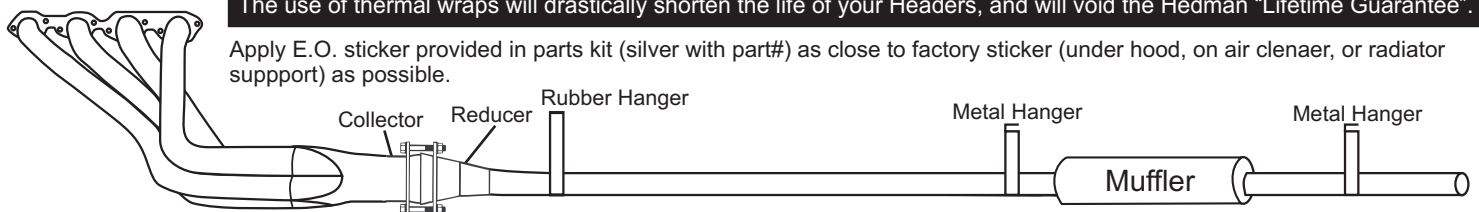
### ENJOY YOUR HEADERS WHILE COMBINING INCREASED FUEL ECONOMY WITH BETTER PERFORMANCE.

#### SPECIAL INSTRUCTIONS!

After installing your headers, it is very important that your exhaust system be suspended properly. As indicated in the drawing below, you must place hangers as close to the header collector as possible. Rubber hangers should be used to allow the front of the system to flex with the engine torque. A hanger is needed before and after the muffler (s). When your exhaust system is unbolted from the header collector, it should remain suspended all by itself. Your Headers Are Not designed to support your exhaust system. Failure to follow these instructions will most likely result in cracks around the area where your primary tubes and collector are welded together, and will nullify your "Lifetime Guarantee".

#### DO NOT WRAP YOUR NEW HEADERS!

The use of thermal wraps will drastically shorten the life of your Headers, and will void the Hedman "Lifetime Guarantee".



**WARNING:** Removal of catalytic converters and other factory air pollution control devices is illegal. We recommend you adhere to your state's local laws. Our testing indicates performance is not significantly affected by these devices.