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Engine Flywheel Removal

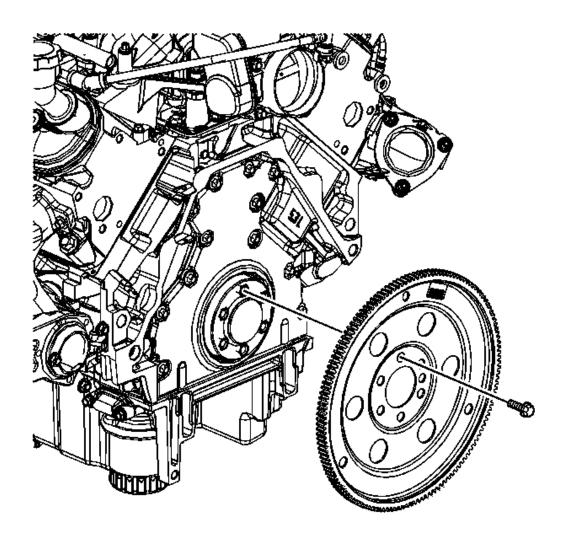


Fig. 332: Identifying Flywheel Courtesy of GENERAL MOTORS CORP.

IMPORTANT: The flex plate does not use a locating pin for alignment and will not initially seat against the crankshaft flange, but will be pulled onto the crankshaft by the engine flex plate bolts. This procedure requires a 3 stage tightening process.

- 1. Remove the engine flex plate bolts.
- 2. Remove the flex plate.

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Oil Level Indicator and Tube Removal

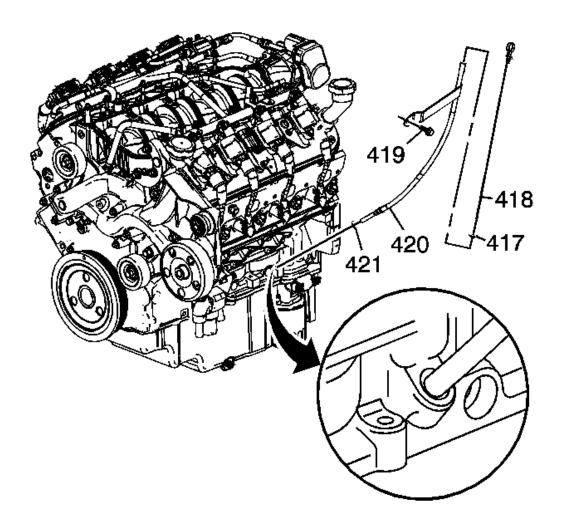


Fig. 333: View Of Oil Level Indicator & Tube Courtesy of GENERAL MOTORS CORP.

- 1. Remove the oil level indicator (418) from the tube.
- 2. Remove the oil level indicator tube bolt (419).
- 3. Remove the oil level indicator tube (420).

IMPORTANT: Inspect the O-ring for cuts or damage. The O-ring may be used again if it is not cut or damaged.

4. Remove the O-ring (421) from the tube, as required.

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Exhaust Manifold Removal - Left Side

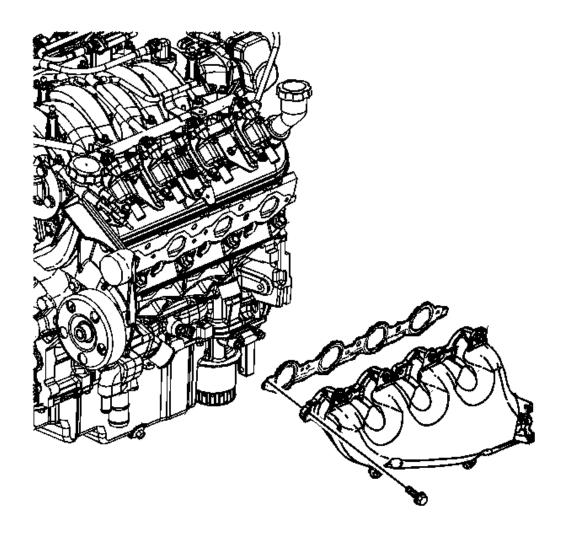


Fig. 334: Exhaust Manifold Courtesy of GENERAL MOTORS CORP.

- 1. Remove the spark plug wires from the spark plugs.
- 2. Remove the exhaust manifold, bolts, and gasket.
- 3. Discard the gasket.

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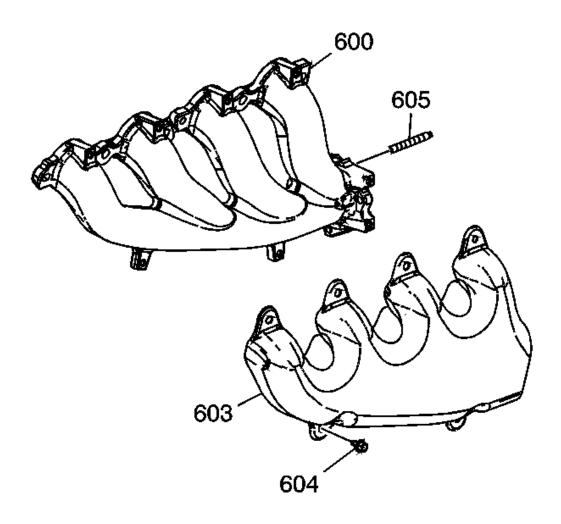


Fig. 335: Heat Shield & Bolts Courtesy of GENERAL MOTORS CORP.

- 4. Remove the heat shield (603) and bolts (604) from the manifold (600), as required.
- 5. Remove the studs (605), as required.

Exhaust Manifold Removal - Right Side

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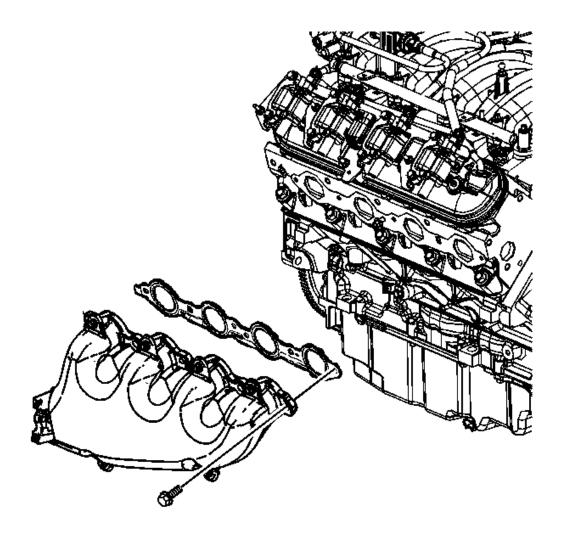


Fig. 336: Exhaust Manifold Courtesy of GENERAL MOTORS CORP.

- 1. Remove the spark plug wires from the spark plugs.
- 2. Remove the exhaust manifold, bolts, and gasket.
- 3. Discard the gasket.

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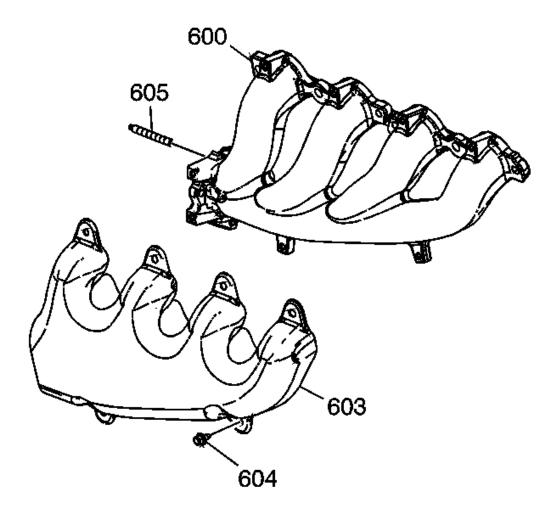


Fig. 337: Heat Shield & Bolts Courtesy of GENERAL MOTORS CORP.

- 4. Remove the heat shield (603) and bolts (604) from the manifold (600), as required.
- 5. Remove the studs (605), as required.

Water Pump Removal

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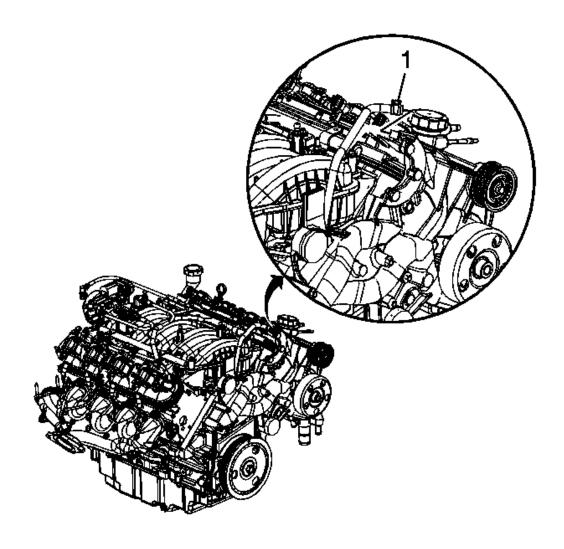


Fig. 338: Engine Coolant Air Bleed Hose And Clamp Courtesy of GENERAL MOTORS CORP.

1. Disconnect the engine coolant air bleed hose and clamp (1).

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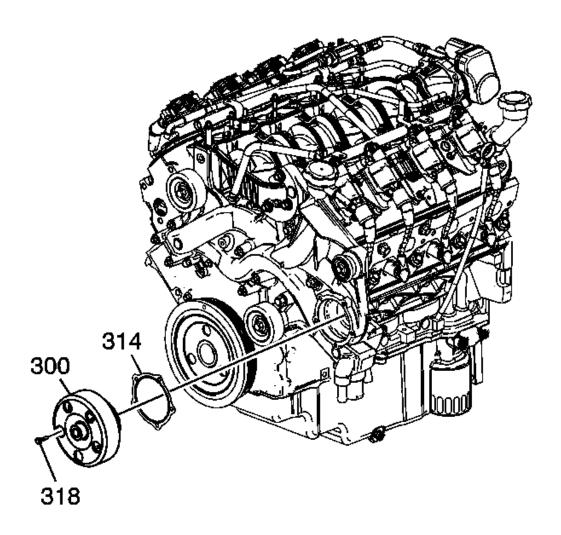


Fig. 339: Water Pump, Bolts & Gasket Courtesy of GENERAL MOTORS CORP.

2. Remove the water pump (300), bolts (318), and gasket (314).

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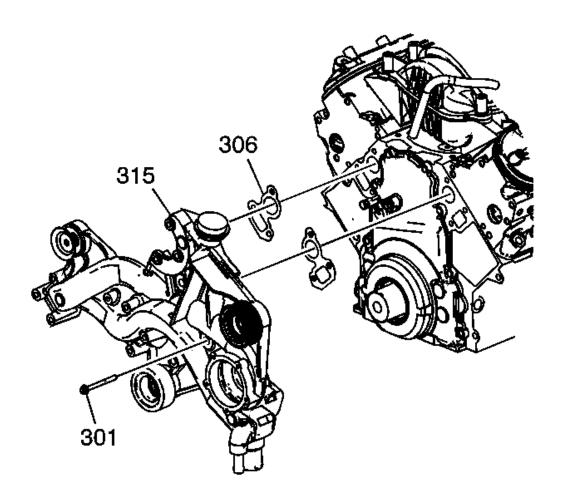


Fig. 340: Water Manifold, Bolts & Gaskets Courtesy of GENERAL MOTORS CORP.

3. Remove the water manifold (315), bolts (301), and gaskets (306).

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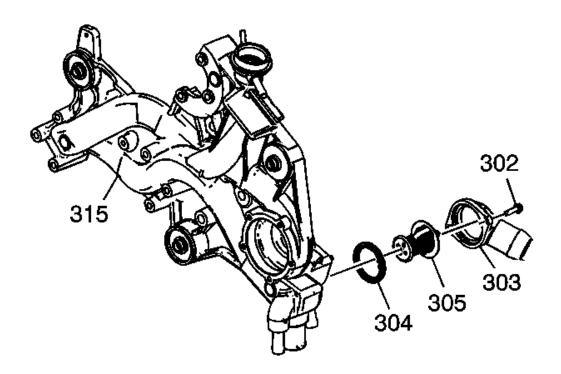


Fig. 341: View Of Thermostat Housing, Bolts, Thermostat, & O-Ring Courtesy of GENERAL MOTORS CORP.

- 4. Remove the water inlet housing (303), bolts (302), thermostat (305), and O-ring (304), as required.
- 5. Discard the gaskets.

Throttle Body Removal

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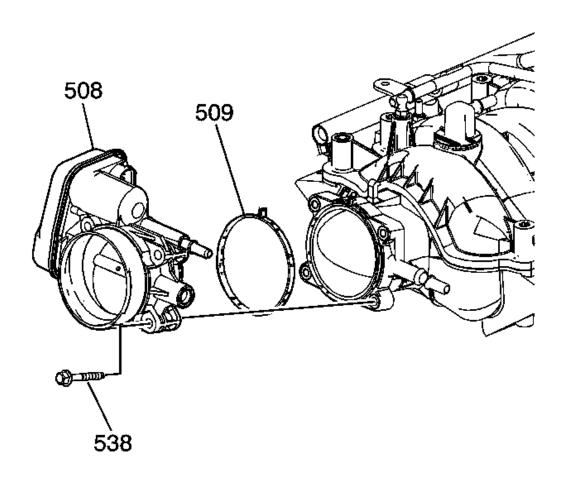


Fig. 342: Throttle Body Assembly Courtesy of GENERAL MOTORS CORP.

IMPORTANT: The intake manifold, throttle body, fuel injection rail, and fuel injectors may be removed as an assembly. If not servicing the individual components, remove the manifold as a complete assembly.

- 1. Remove the electrical wire harness connectors from the throttle body.
- 2. Remove the throttle body bolts (538).
- 3. Remove the throttle body (508).
- 4. Remove the throttle body gasket (509).
- 5. Discard the gasket.