

AUTOMATIC TRANSMISSION FLEX PLATE REMOVAL

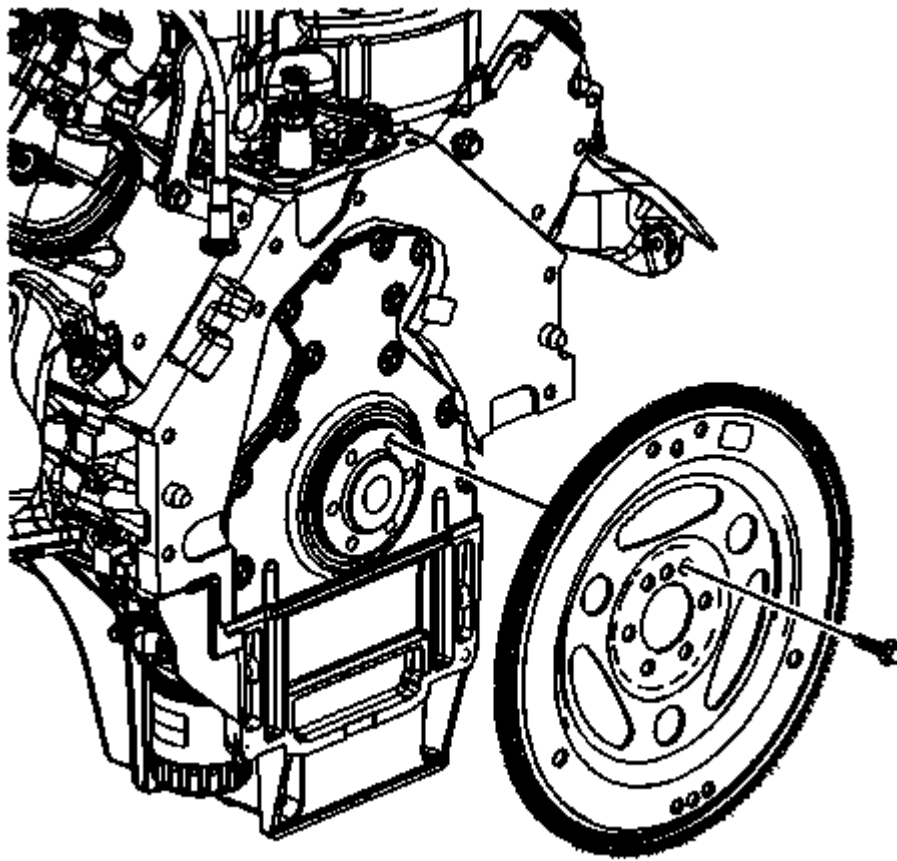


Fig. 13: View Of Flex Plate & Bolts
Courtesy of GENERAL MOTORS COMPANY

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.

CLUTCH PILOT BEARING REMOVAL

Special Tools

- J 2619-01 Slide Hammer
- J 23907 Slide Hammer with Bearing Adapter
- J 23907-1 Slide Hammer

For equivalent regional tools, refer to **Special Tools** .

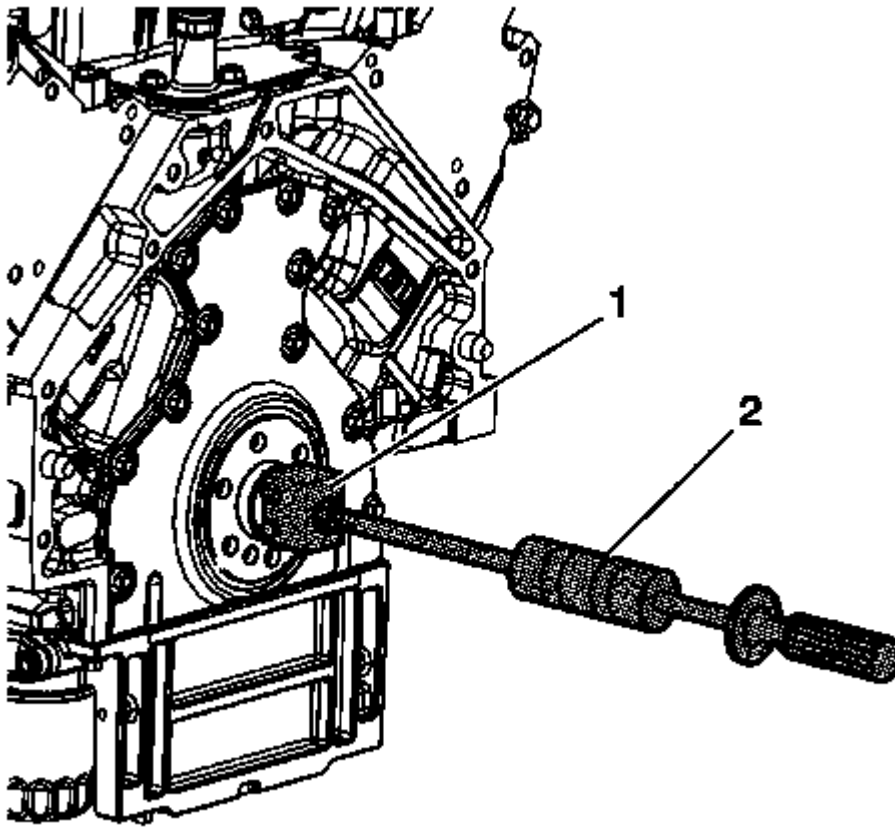


Fig. 14: Removing Clutch Pilot Bearing
Courtesy of GENERAL MOTORS COMPANY

NOTE: J 23907-1 slide hammer was part of the J 23907 slide hammer with bearing adapter set. The adapter is still available as J 23907 adapter.

1. Remove the clutch pilot bearing using the **J 23907** adapter (1) and **J 23907-1** slide hammer (2).
 1. Install the legs of the **J 23907** adapter (1) into the clutch pilot bearing.
 2. Rotate the shaft of the tool until the legs of the tool are snug and contacting the I.D. surface of the bearing.
 3. Install the **J 23907-1** slide hammer (2) to the **J 23907** adapter (1).
 4. Remove the bearing from the rear of the crankshaft.
 5. Remove the special tools from the bearing.

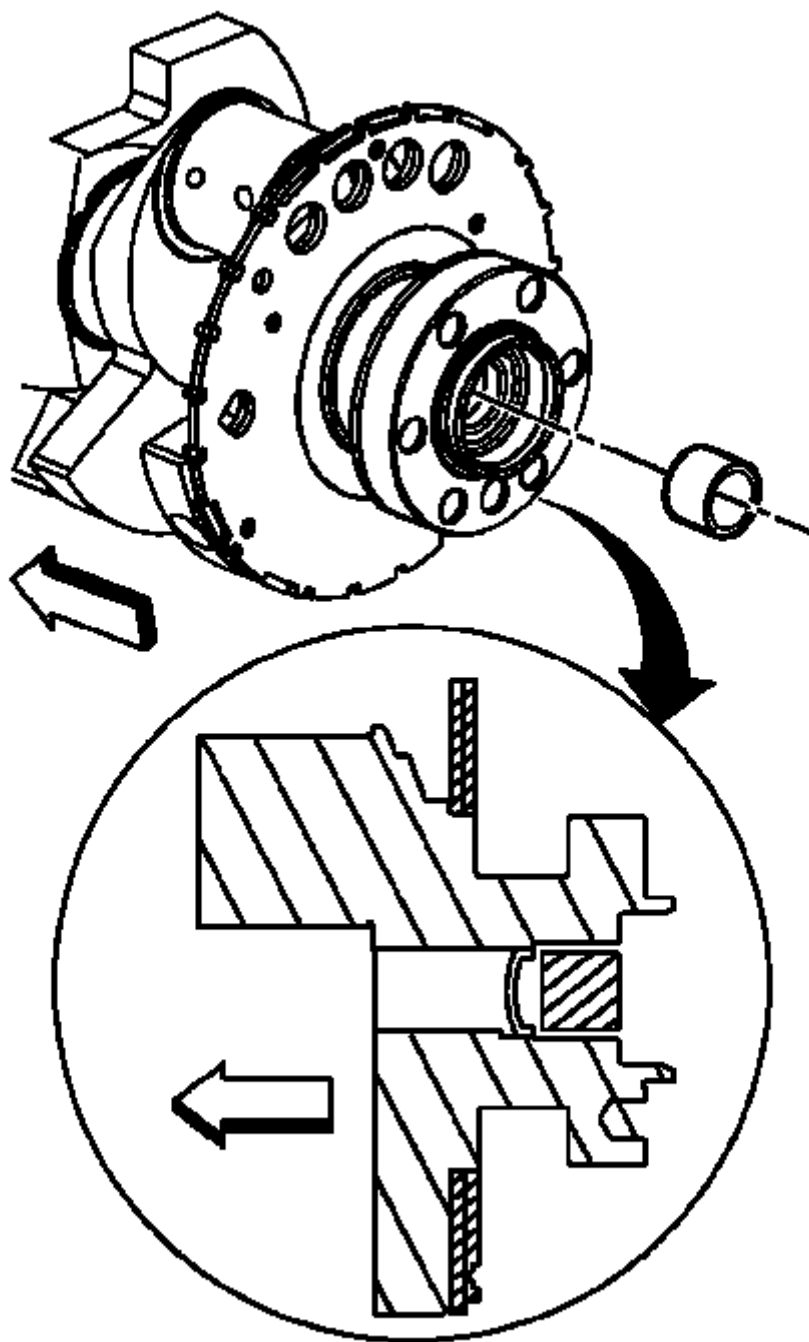


Fig. 15: Locating Clutch Pilot Bearing
Courtesy of GENERAL MOTORS COMPANY

2. Discard the bearing.

OIL LEVEL INDICATOR AND TUBE REMOVAL

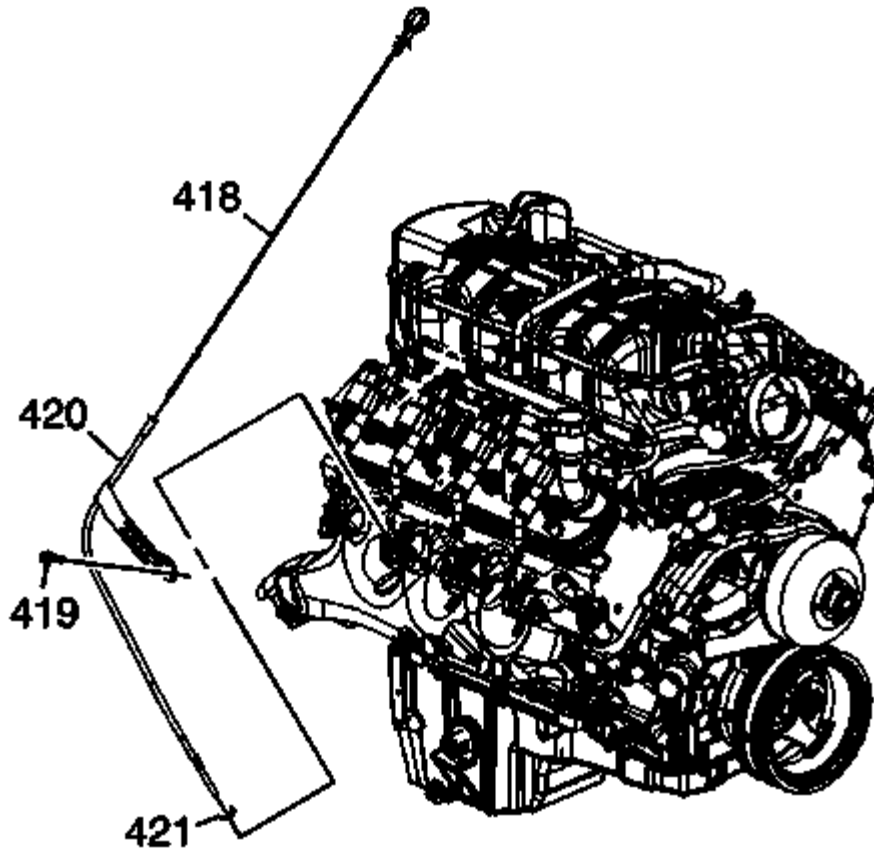


Fig. 16: View Of Oil Level Indicator, Tube Bolt, Indicator Tube & O-Ring Seal
Courtesy of GENERAL MOTORS COMPANY

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) from the engine block.

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

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

EXHAUST MANIFOLD REMOVAL - LEFT SIDE

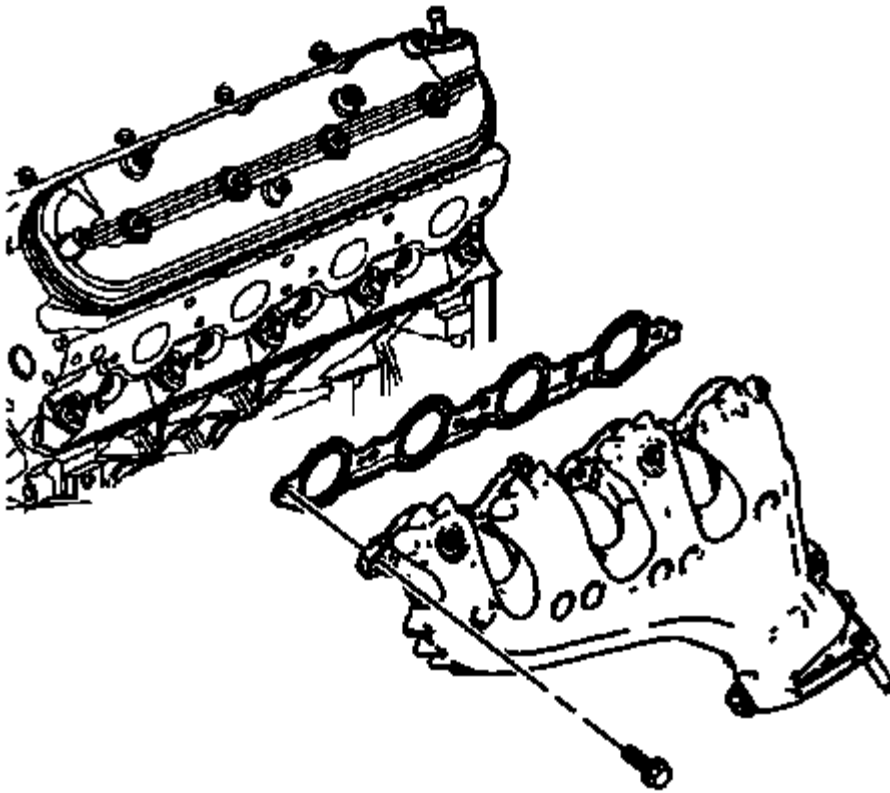


Fig. 17: Exhaust Manifold

Courtesy of GENERAL MOTORS COMPANY

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

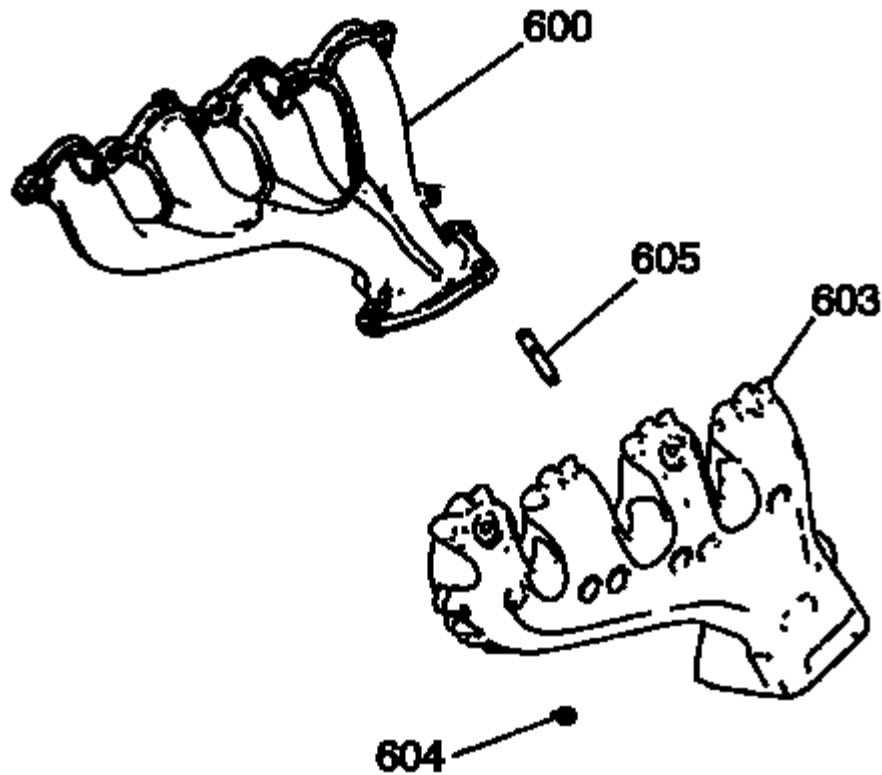


Fig. 18: Exhaust Manifold

Courtesy of GENERAL MOTORS COMPANY

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

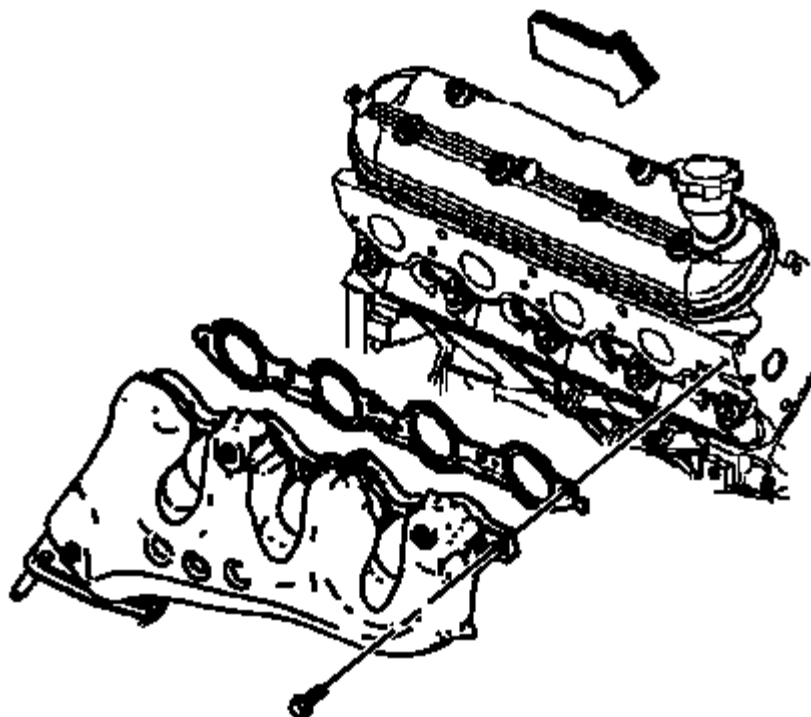


Fig. 19: Exhaust Manifold

Courtesy of GENERAL MOTORS COMPANY

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

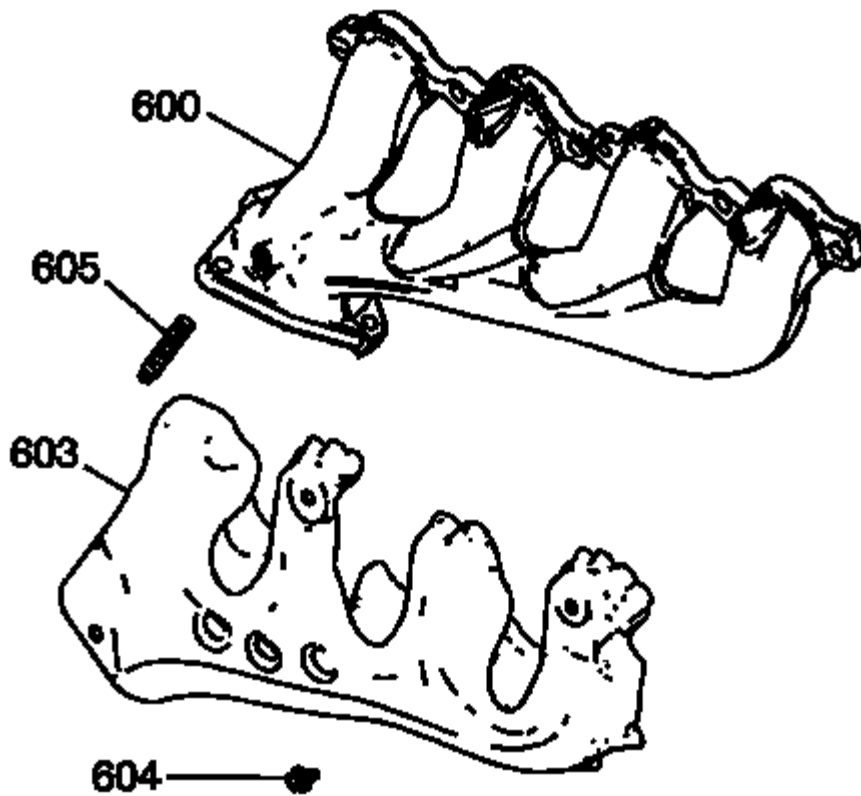


Fig. 20: Exhaust Manifold

Courtesy of GENERAL MOTORS COMPANY

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