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Oil Filter Adapter and Bypass Valve Assembly Replacement

Tools Required

- J 45059 Torque Angle Meter. See Special Tools.
- J 41712 Oil Pressure Switch Socket. See Special Tools.

Removal Procedure

1. Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> in General Information.

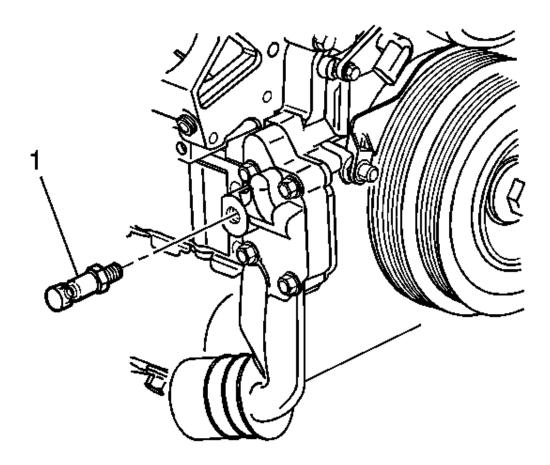


Fig. 74: Removing/Installing Engine Oil Pressure Switch Courtesy of GENERAL MOTORS CORP.

2. Disconnect the electrical connector from the engine oil pressure switch (1).

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3. Remove the engine oil pressure switch (1) from the oil filter adapter using the **J 41712** . See **Special Tools**.

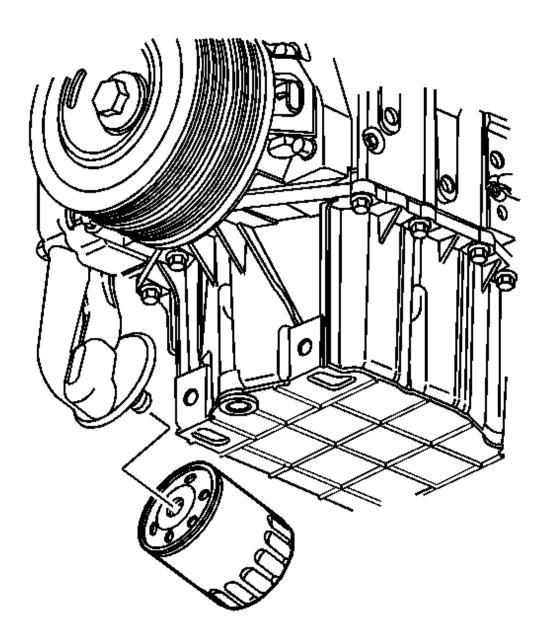


Fig. 75: Identifying Oil Filter Location Courtesy of GENERAL MOTORS CORP.

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4. Remove the oil filter.

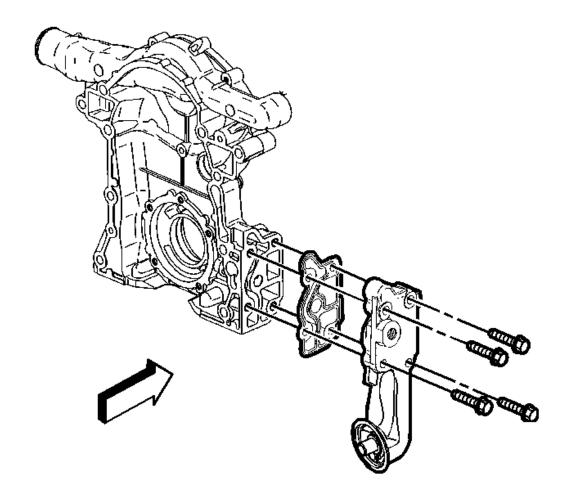


Fig. 76: Removing/Installing Oil Filter Adapter Bolts Courtesy of GENERAL MOTORS CORP.

- 5. Remove the 3 oil filter adapter bolts from the engine front cover.
- 6. Remove the following components:
 - 1. The oil filter adapter.
 - 2. The oil filter adapter gasket.
 - 3. The oil pressure relief valve.
 - 4. The oil pressure relief valve spring.
- 7. Clean all parts in a suitable solvent and allow to dry.
- 8. Inspect the following components:

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- Oil pressure valve for burrs
- Valve bore for burrs
- Valve spring for loss of tension

Installation Procedure

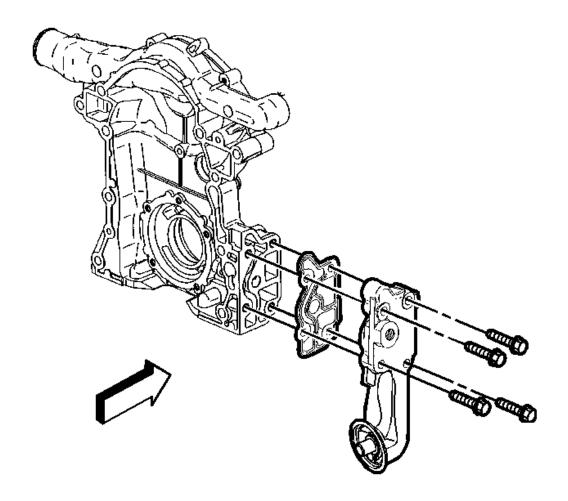


Fig. 77: Removing/Installing Oil Filter Adapter Bolts Courtesy of GENERAL MOTORS CORP.

- 1. Install the spring into the engine front cover.
- 2. Install the oil pressure valve into the engine front cover.
- 3. Install a new oil filter adapter gasket.
- 4. Install the oil filter adapter.

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5. Install the oil filter adapter bolts.

Tighten: Tighten the oil filter adapter bolts to 15 N.m (11 lb ft). Use the **J 45059** to tighten the oil filter adapter bolts an additional 50 degrees. See **Special Tools**.

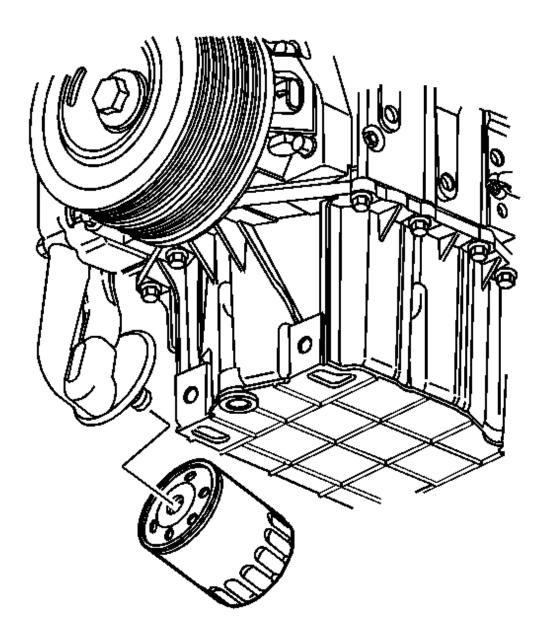


Fig. 78: Identifying Oil Filter Location

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Courtesy of GENERAL MOTORS CORP.

- 6. Lightly oil the replacement oil filter gasket with clean oil.
- 7. Install the new oil filter.

Tighten: Tighten the new oil filter to 3/4 to 1 full turn, after the oil filter gasket contacts the oil filter mounting surface.

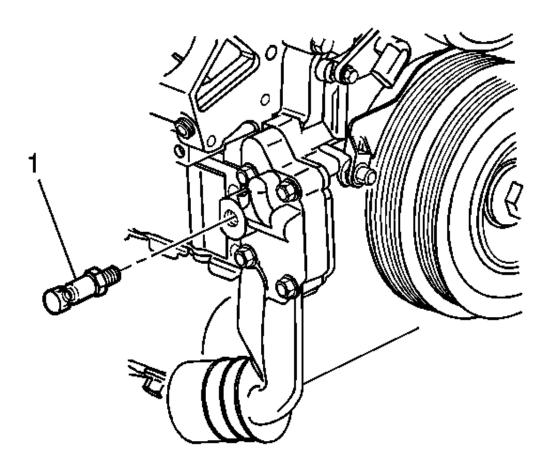


Fig. 79: Removing/Installing Engine Oil Pressure Switch Courtesy of GENERAL MOTORS CORP.

8. Install the engine oil pressure switch (1) to the oil filter adapter using the J 41712 . See Special Tools.

Tighten: Tighten the engine oil pressure switch to 16 N.m (12 lb ft).