DISASSEMBLY AND ASSEMBLY (Continued)

- Oil pump
- Oil pressure relief valve
- Pump drive intermediate shaft

Oil Pump

Disassembly

- 1. If necessary, remove oil filter.
- Remove oil pump cover retaining bolts and remove cover.
- 3. Lift pump gears off pocket in front cover.
- 4. Remove cover seal and discard.

Pump Cover Flatness

- Remove all traces of seal material from pump cover.
- Place a straightedge across mounting surface of pump cover and measure for wear or warpage using a feeler gauge.
- If surface is out of flat by more than 0.04mm (0.0016 inch) replace cover.

Assembly

- 1. If necessary, remove pump gears from cover.
- Lightly pack gear pocket with petroleum jelly or coat all gear surfaces with Engine Assembly Lubricant D9AZ-19579-D (ESR-M99C80-A) or equivalent. Do not use chassis lubricants.
 - CAUTION: Failure to properly coat the oil pump gears may result in failure of the pump to prime when engine is started.
- 3. Install gears in cover pocket. Ensure petroleum jelly fills all voids between gears and pocket.
- 4. Position cover seal and install pump cover.
- Tighten pump cover retaining bolts to 25-30 N·m (18-22 lb-ft).

Pressure Relief Valve

Removal

 After drilling a hole through valve plug, remove plug with a slide hammer or by prying. 2. Remove spring and valve from bore.

Inspection

- Thoroughly clean valve bore and valve to remove any metal chips which may have entered bore as a result of drilling operation.
- Inspect valve and valve bore for wear, scoring or galling. If inspection determines part(s) to be unserviceable replace valve and/or cover.
- Check clearance between valve and bore. The valve should slip into bore without side play or binding.
- 4. Check spring for signs of fatigue or collapse.

Installation

- Lubricate relief valve with XO-10W30-QSP (ESE-M2C153-E) or equivalent engine oil and install in bore. The end with smaller diameter goes in first.
- 2. Position spring in bore.
- Install a new plug. The plug can be tapped into bore using a plastic tipped hammer. Ensure plug is 0-0.25mm (0-0.010 inch) below machined surface.

Intermediate Shaft

Removal

- 1. Remove distributor assembly.
- 2. Separate intermediate shaft from distribution.

Installation

- 1. Push lock ring end of shaft into distributor shaft.
- Install distributor / shaft assembly, ensuring that end of intermediate shaft is seated in oil pump drive gear.