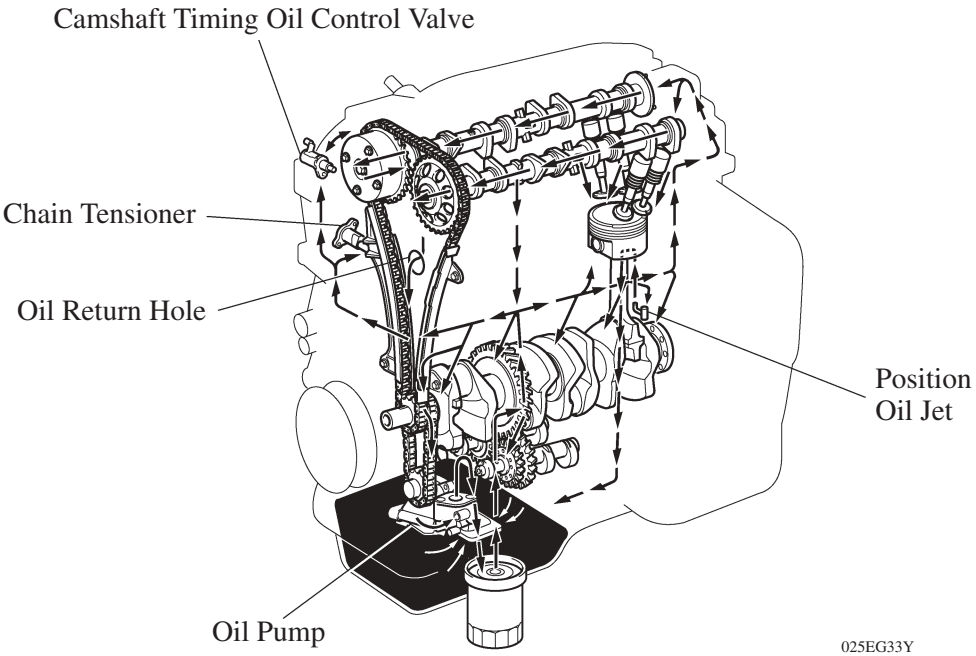
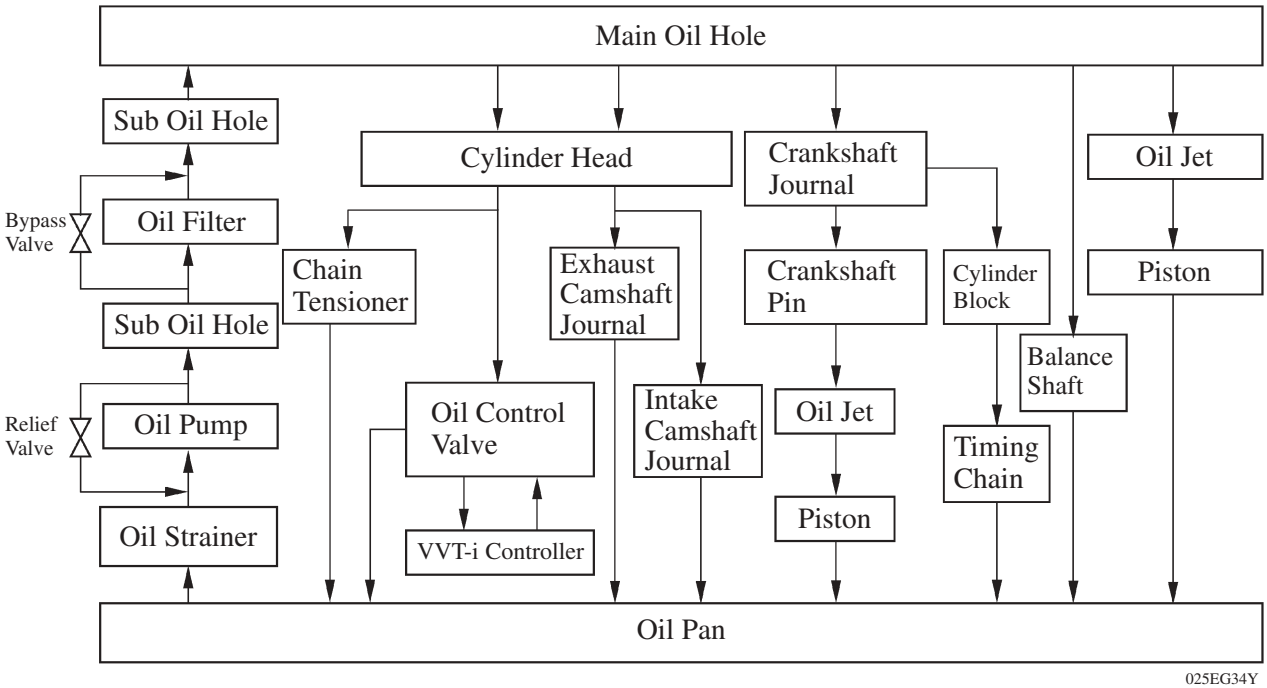
■LUBRICATION SYSTEM

1. General

- The lubrication circuit is fully pressurized and oil passes through an oil filter.
- The trochoidal type oil pump is chain-driven by the crankshaft.
- The oil filter is attached downward from the crankcase to improve serviceability.
- Along with the adoption of the VVT-i system, the cylinder head is provided with a VVT-i controller and a camshaft timing oil control valve. This system operates using the engine oil.
- A water-cooled oil cooler has been installed between the crank case and the oil filter.



▶ Oil Circuit ◀

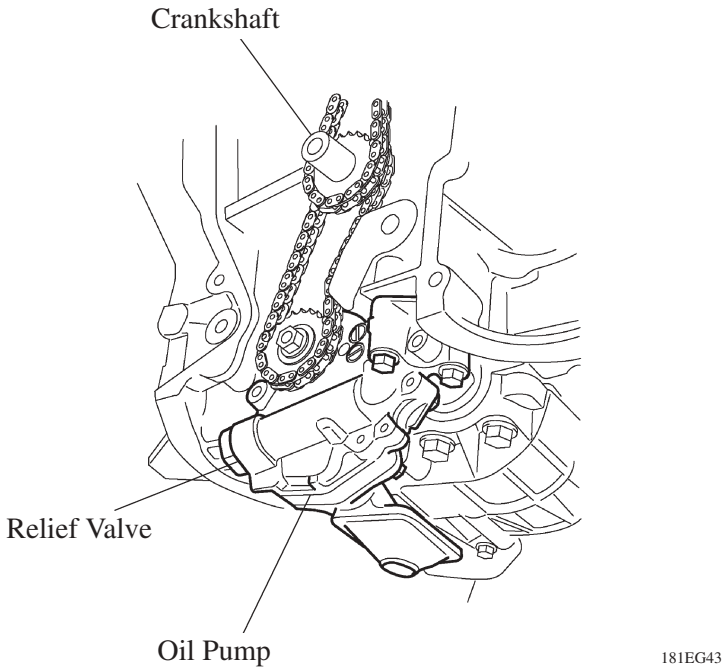


▶ Specifications ◀

Oil Capacity	Dry	liters (US qts, Imp. qts)	4.5 (4.8, 4.0)
	with Oil Filter	liters (US qts, Imp. qts)	3.8 (4.0, 3.3)
	without Oil Filter	liters (US qts, Imp. qts)	3.6 (3.8, 3.2)

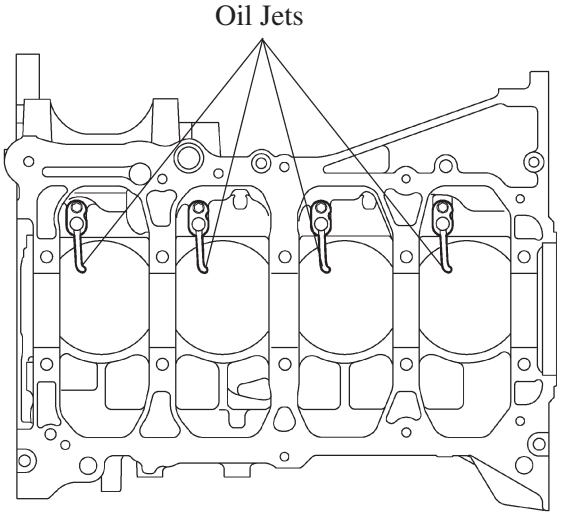
2. Oil Pump

- The trochoidal type oil pump is chain-driven by the crankshaft, and fits compactly inside the oil pan.
- Friction has been reduced by means of 2 relief holes in the internal relief system.

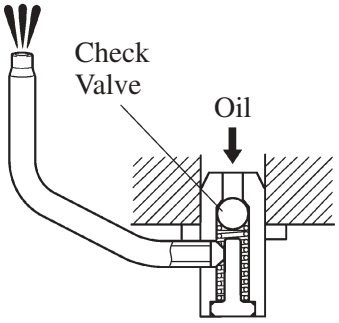


3. Piston Oil Jet

Piston oil jets for cooling and lubricating the pistons are used in the cylinder block.
These oil jets contain a check valve to prevent oil from being fed when the oil pressure is low. This prevents the overall oil pressure in the engine from dropping.



Bottom Side View



Oil Jet Cross Section

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