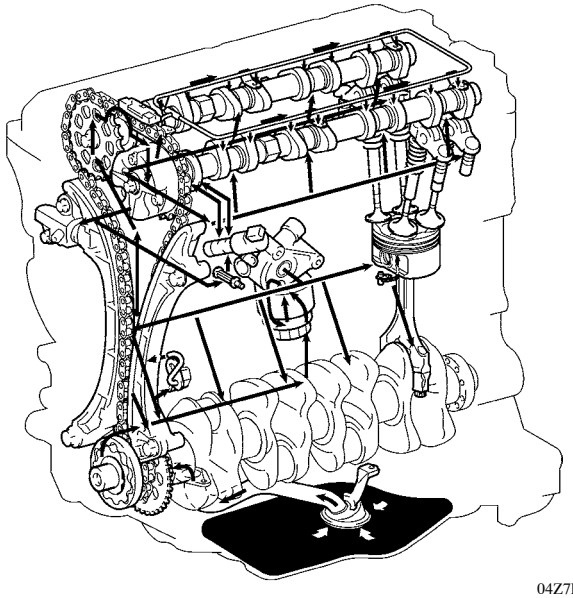
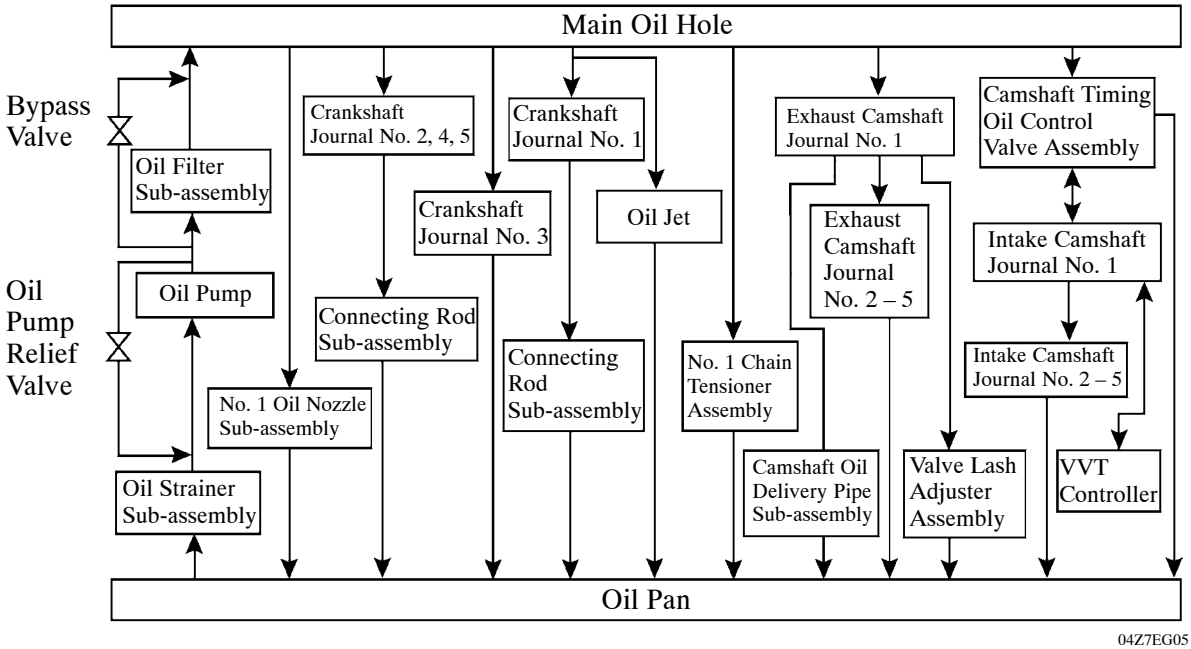
■ LUBRICATION SYSTEM

1. General

- The lubrication circuit is fully pressurized and all oil passes through an oil filter sub-assembly.
- The trochoid gear type oil pump is driven directly by the chain sub-assembly.
- The chamber for the oil pump rotor has been placed in the timing chain or belt cover sub-assembly to achieve a simpler construction and a compact engine.
- Piston oil jets to lubricate and cool the pistons and a timing chain oil jet to lubricate the chain sub-assembly have been provided.
- An oil delivery pipe has been provided to deliver engine oil to the cams and roller rocker arms in order to ensure the lubrication of the sliding areas.



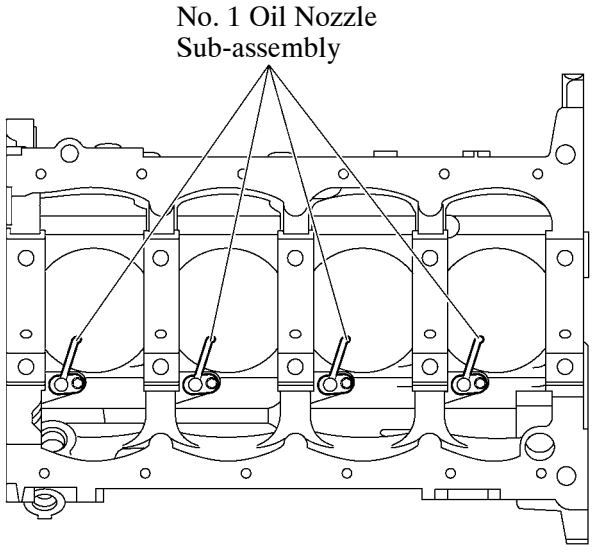
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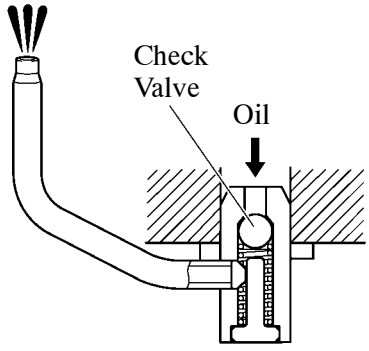
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2. Piston Oil Jet

- Piston oil jets for cooling and lubricating the pistons have been provided in the cylinder block sub-assembly.
- 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.



Back Side View



Oil Jet Cross Section

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