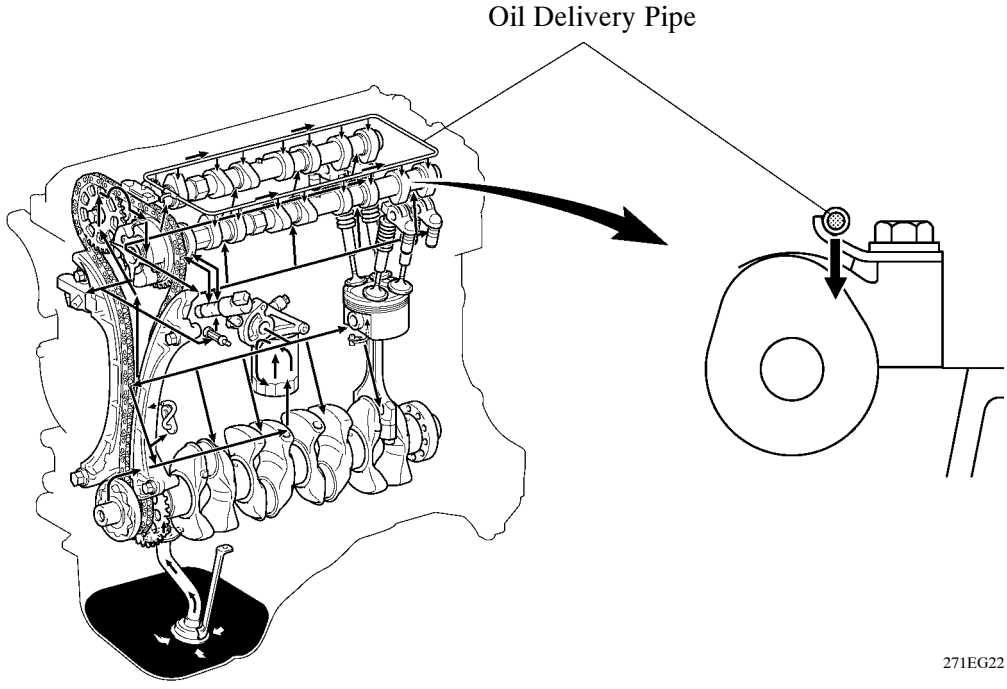
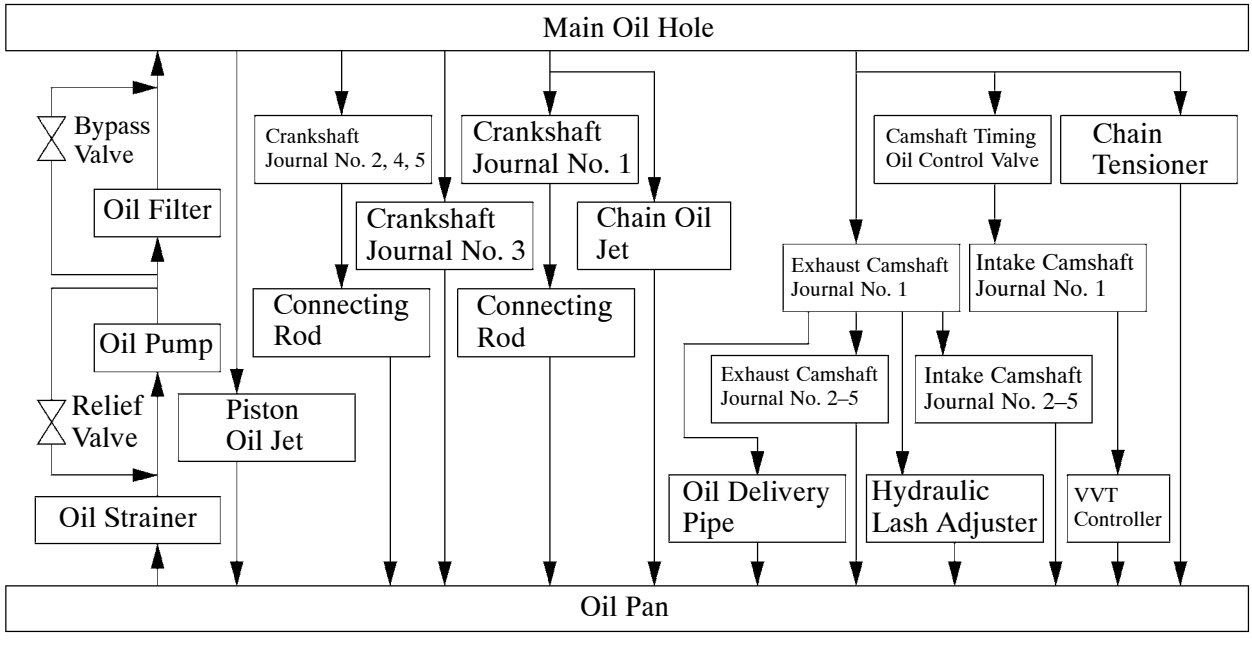
■ LUBRICATION SYSTEM

1. General

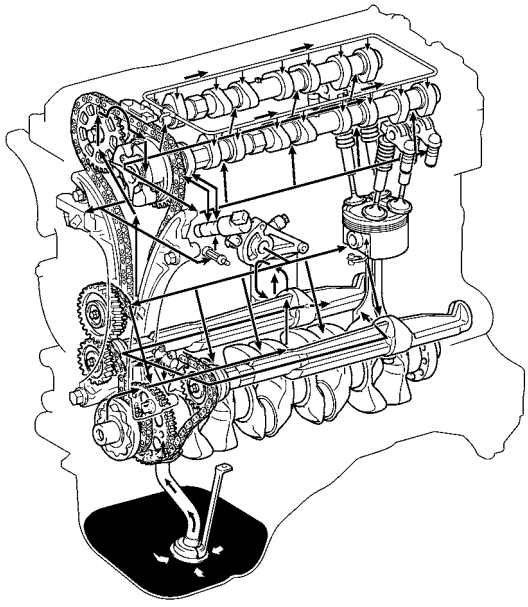
- The lubrication circuit is fully pressurized and all oil passes through an oil filter.
- The trochoid gear type oil pump is driven directly by the timing chain.
- The chamber for the oil pump rotor has been placed in the timing chain cover to achieve a simpler construction and a compact engine.
- Piston oil jets to lubricate and cool the pistons and a timing chain oil jet to lubricate the timing chain 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.

▶ 1TR-FE Engine ◀

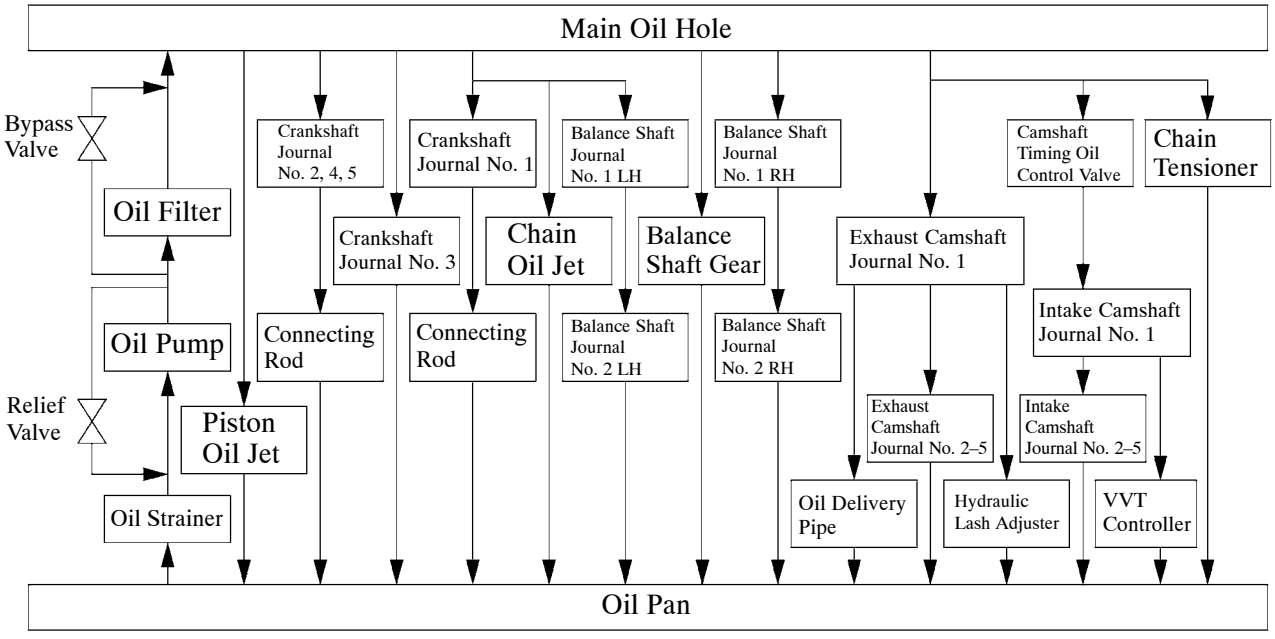




▶ 2TR-FE Engine ◀



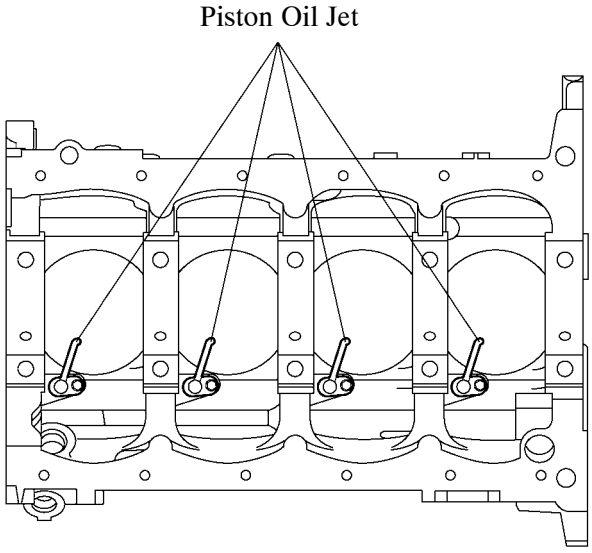
271EG66



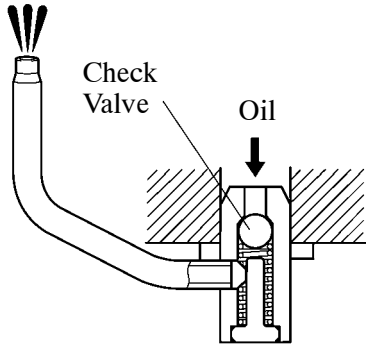
271EG96

2. Piston Oil Jet

- Piston oil jets for cooling and lubricating the pistons have been provided 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.



Cylinder Block Back Side View



Piston Oil Jet Cross Section

271EG94