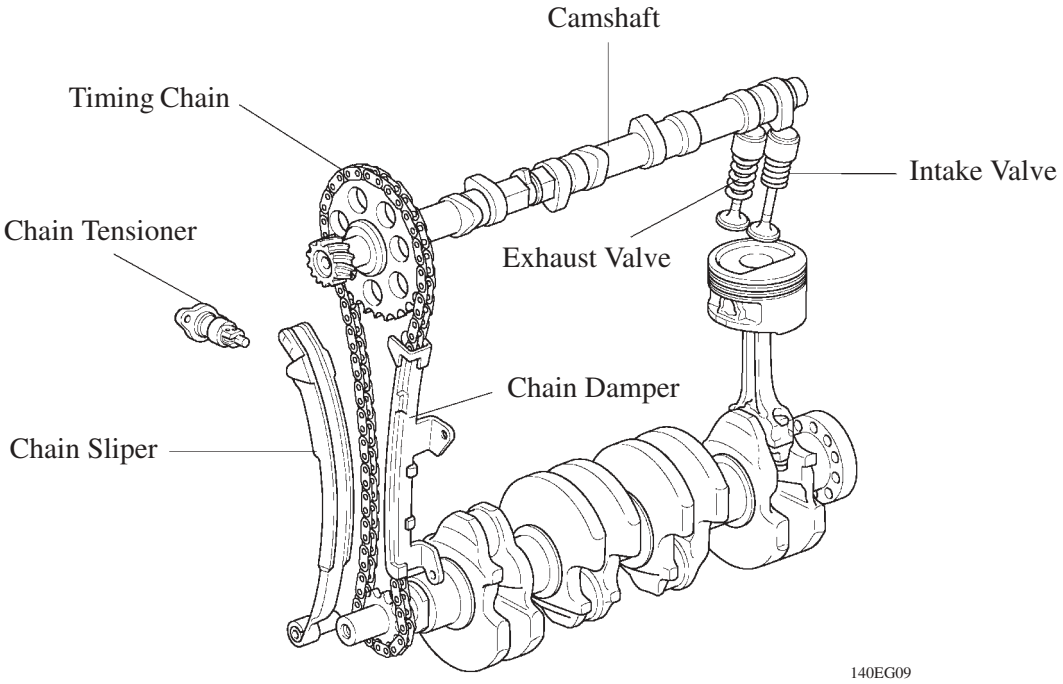
■ VALVE MECHANISM

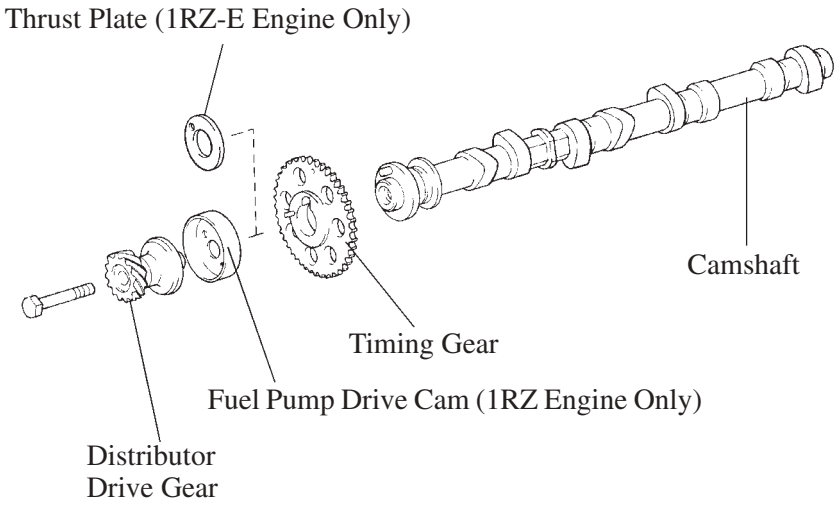
1. General

- A direct drive OHC is used for valve drive mechanism.
- The camshaft is driven by the timing chain.



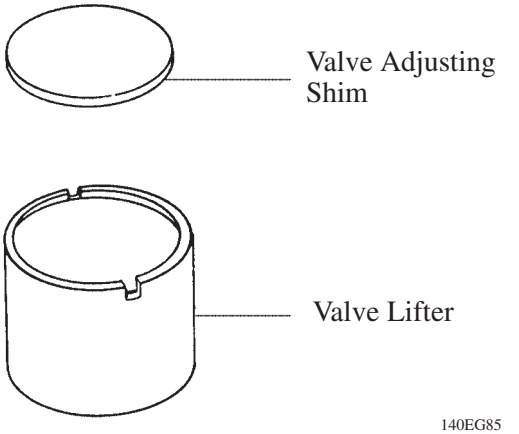
2. Camshaft

- A direct drive OHC is used.
- To drive the fuel pump, the 1RZ engine provides a cam in front of the timing gear.



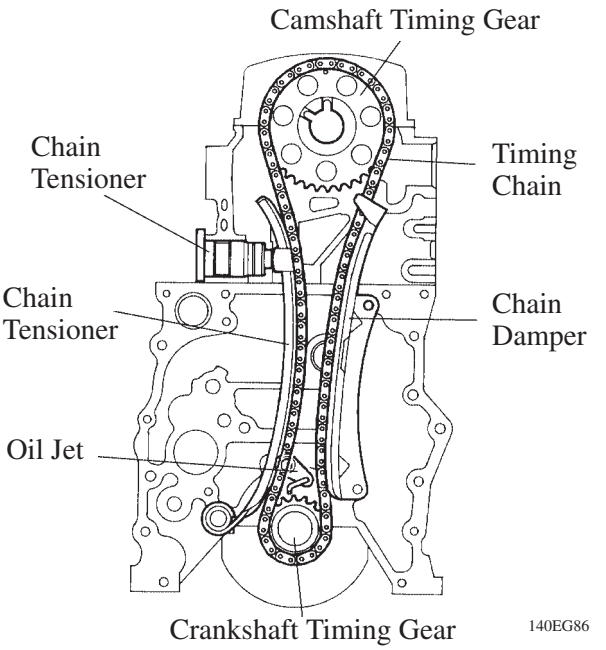
3. Valve Lifter and Valve Adjusting Shim

Outer shim type valve adjusting shims located in the top of the valve lifters are used to improve serviceability.



4. Timing Chain

- A material which has excellent wear resistance has been selected for the timing chain to improve reliability.
- The timing chain is lubricated by an oil jet mounted in the cylinder block.



5. Chain Tensioner

- The chain tensioner uses a spring and oil pressure to maintain proper chain tension at all times.
  The chain tensioner suppresses noise generated by the chain.
- A ratchet type non-return mechanism is also used.

