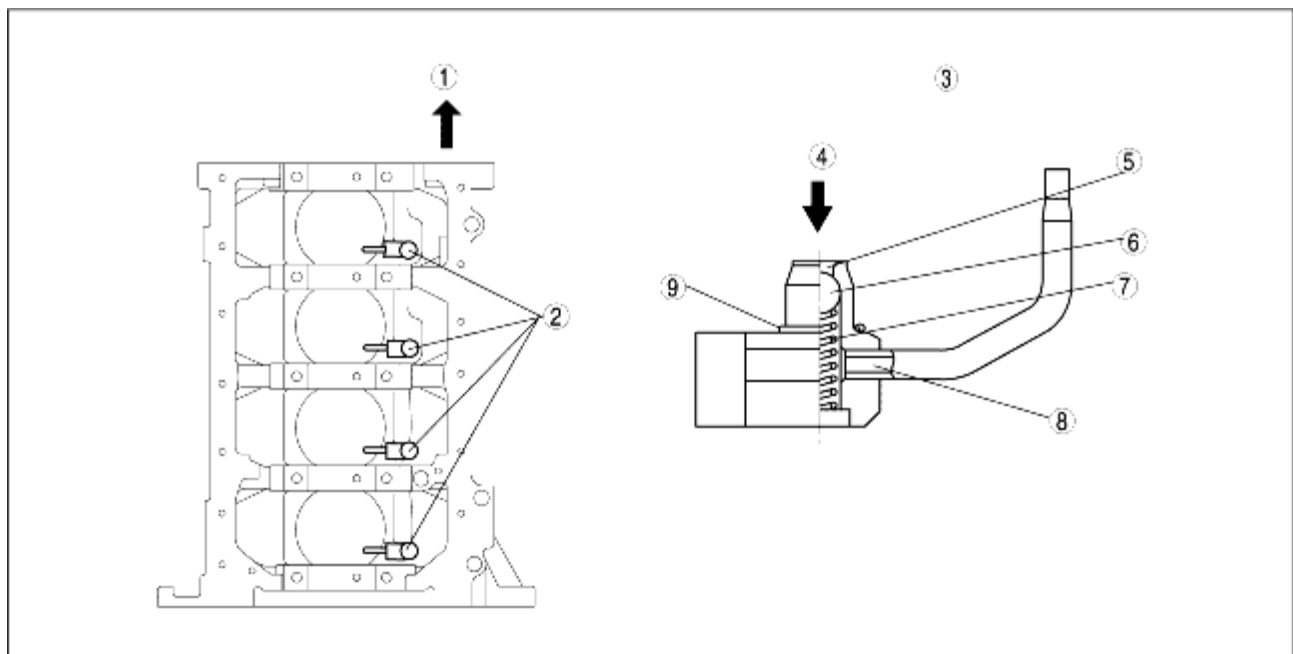


OIL JET VALVE CONSTRUCTION/OPERATION [ZJ, Z6]

B3E011110730T01

Construction

- The oil jet valves are installed in the cylinder block (side of the main journal). The piston cooling efficiency by oil injected from the nozzles has been improved thanks to the installation direction of the oil jet valves which are pointed toward the back surface of each piston.
- The oil jet valves have been designed to maintain optimum oil pressure in the engine by controlling the oil injection according to the oil pressure applied to the check ball in the oil jet valves.



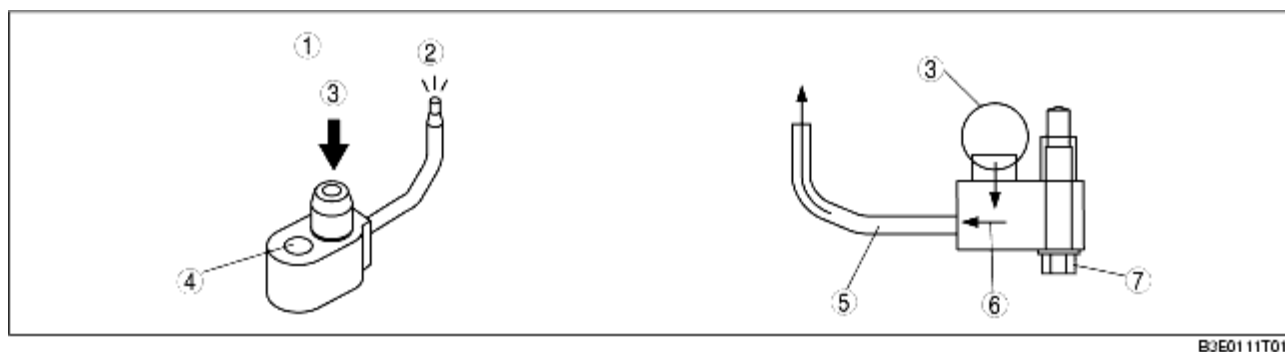
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1	Engine front side
2	Oil jet valve
3	Oil jet valve sectional view
4	Oil pressure
5	Oil hole
6	Check ball
7	Check ball spring
8	Oil hole (to nozzle)
9	O-ring

Operation

- Oil pressure applied to the check-ball in the oil jet valve opens and closes the oil passage-way to the nozzle and controls oil injection starting and stopping.
- Oil pressure greater than the specified value applied to the check-ball in the oil jet valve opens the oil

passage to the spring-pressed nozzle, starting injection. Conversely, oil pressure less than the specified value applied to the check-ball blocks the oil passage by spring force, stopping injection.



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1	External view
2	Back side of piston
3	Cylinder block main gallery
4	Bolt hole
5	Nozzle
6	Engine oil
7	Bolt