

## GENERAL

### MECHANICAL

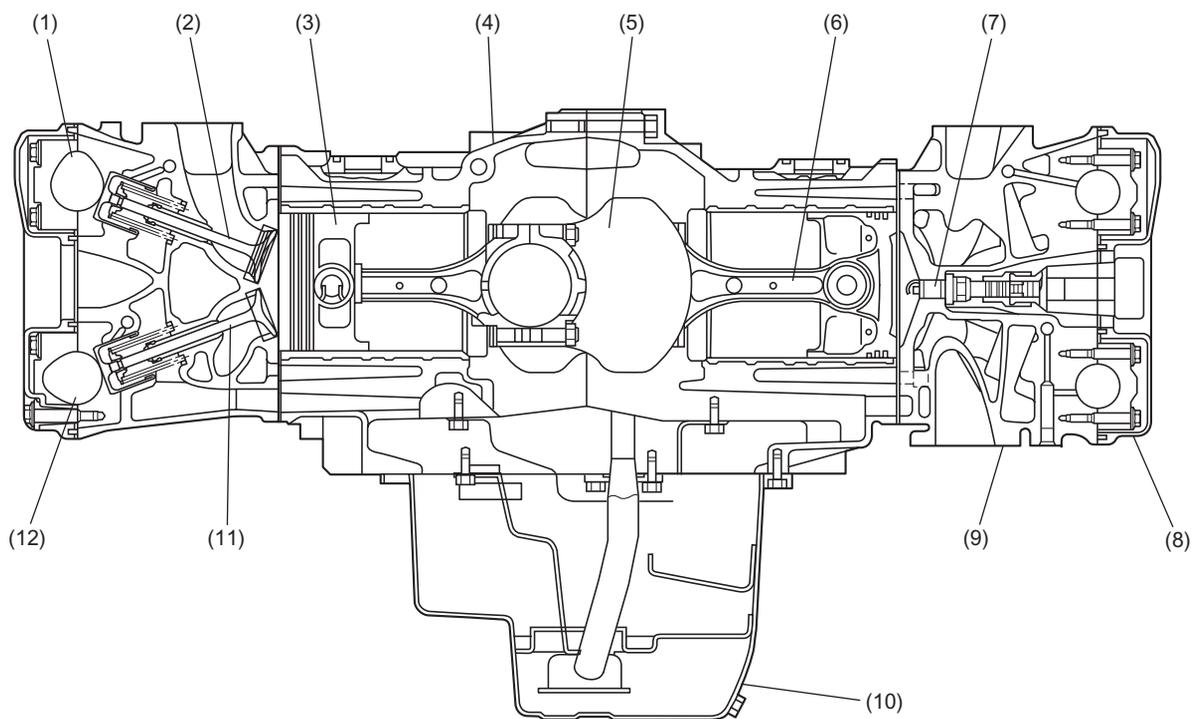
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#### 1. General

The engine used in this vehicle is of a horizontally opposed, four-cylinder design. This four-stroke-cycle, water-cooled, DOHC turbocharged engine uses a total of 16 valves and its main components are made of aluminum alloy. It is fueled by a multiple fuel injection system.

The engine's major structural and functional features are as follows:

- The cylinder head forms pent roof combustion chambers, each having a spark plug located at its center and two each of intake and exhaust valves (four valves per cylinder). The intake and exhaust ports are located in a cross-flow arrangement.
- A single timing belt drives four camshafts on the left and right banks and the water pump on the left bank. Belt tension is automatically adjusted by a belt tension adjuster, eliminating need for manual adjustment.
- The crankshaft is supported at five journals with high rigidity and strength.
- The cylinder block is made of cast aluminum, and cast iron cylinder liners are cast in.



ME-00828

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|---------------------|------------------------|-----------------------|
| (1) Intake camshaft | (5) Crankshaft         | (9) Cylinder head     |
| (2) Intake valve    | (6) Connecting rod     | (10) Oil pan          |
| (3) Piston          | (7) Spark plug         | (11) Exhaust valve    |
| (4) Cylinder block  | (8) Valve rocker cover | (12) Exhaust camshaft |

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