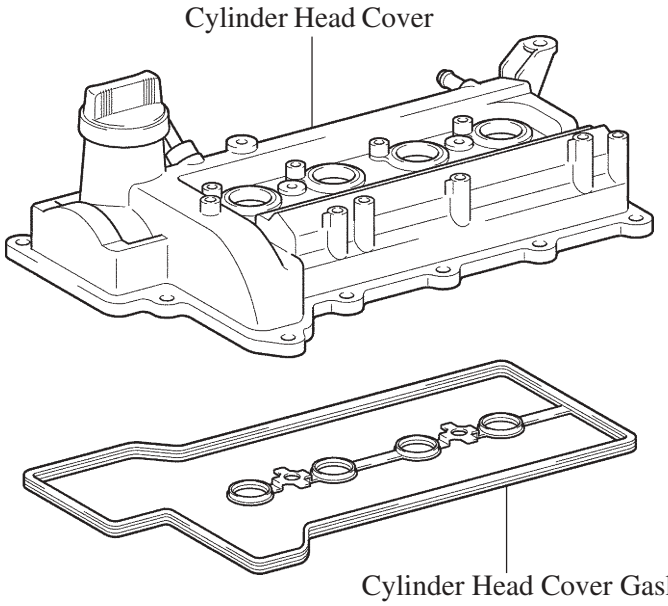
■ENGINE PROPER

1. Cylinder Head Cover

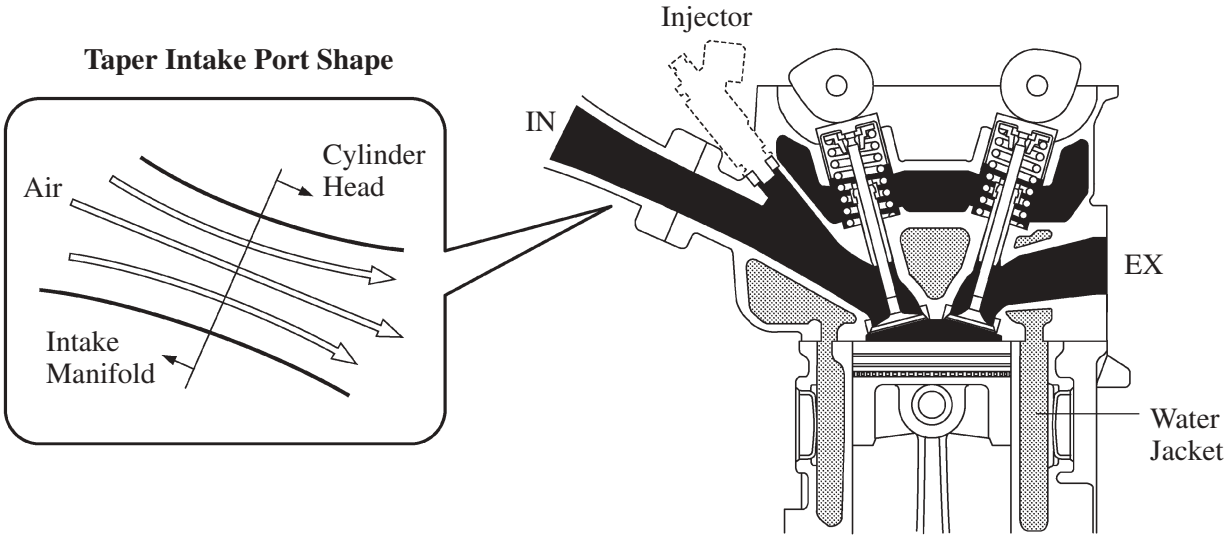
- Lightweight yet high-strength aluminum die-cast cylinder head cover is used.
- The spark plug gasket is integrated to the cylinder head cover gasket to reduce the number of parts.
- Acrylic rubber, which excels in heat resistance and reliability, is used for the cylinder head cover gasket.



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2. Cylinder Head

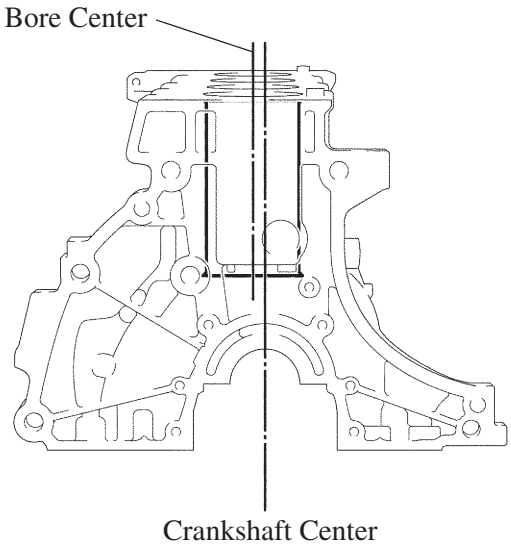
- The injectors are installed in the cylinder head to reduce the distance from injector to intake valve, thus it prevents the fuel from adhering to the intake port walls, and reduces exhaust emissions.
- The routing of the water jacket in the cylinder head is optimized to achieve high cooling performance.
- A narrow vertical taper intake port is used to increase the intake efficiency.



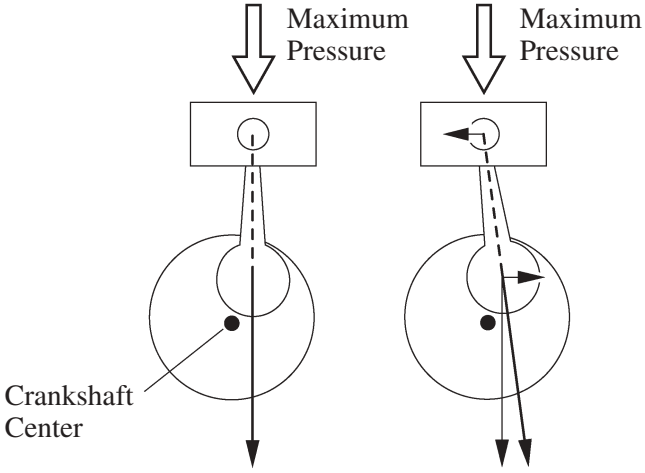
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3. Cylinder Block

- Precision cast-iron is used for the cylinder block.
- Through the use of the offset crankshaft, the bore center is shifted 8 mm (0.31 in.) towards the exhaust, in relation to the crankshaft center. Thus, the side force to the cylinder wall is reduced when the maximum pressure is applied, which contributes to fuel economy.

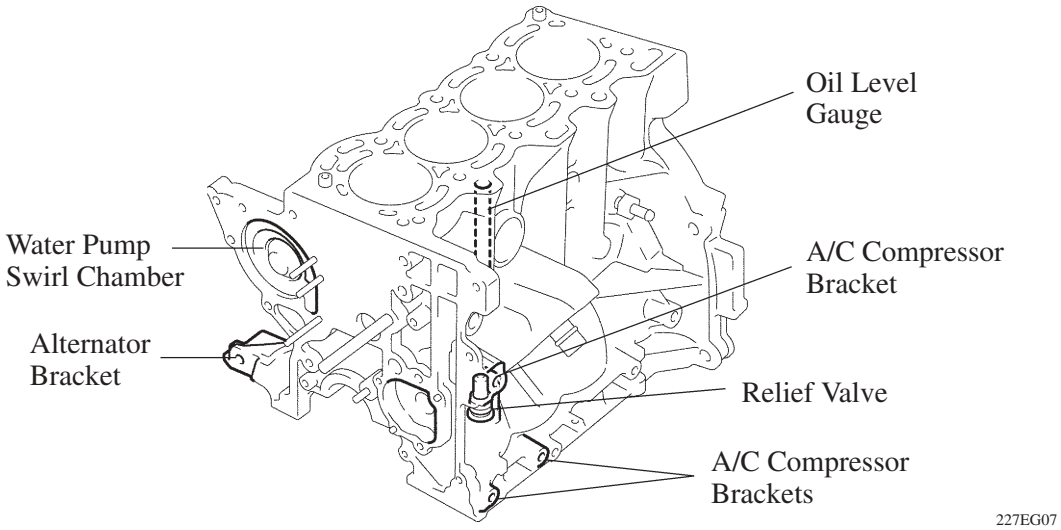


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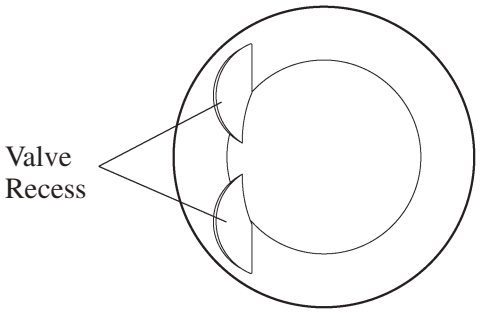
- The components listed below have been integrated in the cylinder block to reduce the number of the parts (water pump swirl chamber, relief valve of the oil pump, alternator bracket, A/C compressor bracket, oil level gauge).

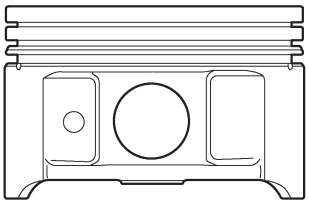


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4. Piston

- The piston is made of aluminum alloy to be compact and lightweight.
- Full floating type piston pins are used.

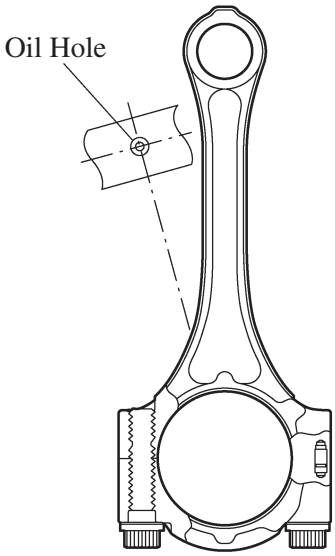




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5. Connecting Rod

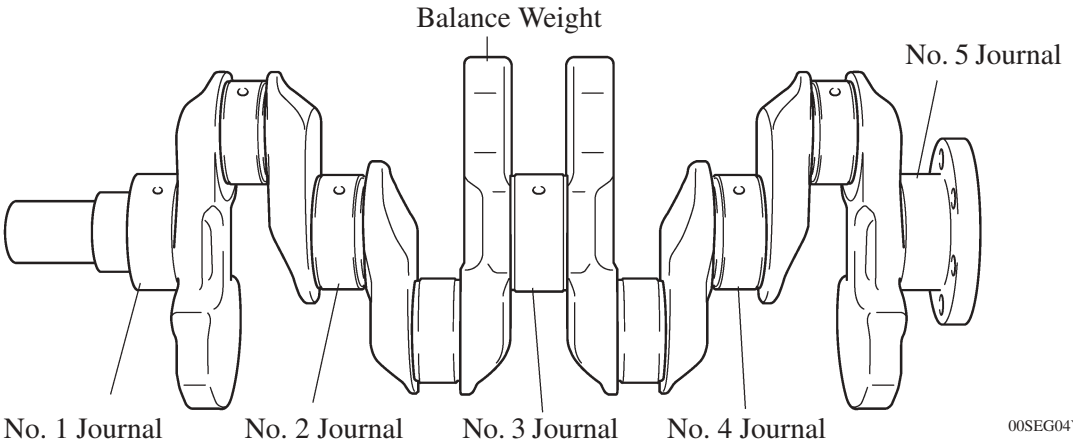
- The connecting rods are made of high-strength vanadium steel for weight reduction.
- Nutless-type plastic region tightening bolts are used for a lighter design.
- Oil hole has been provided.



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6. Crankshaft

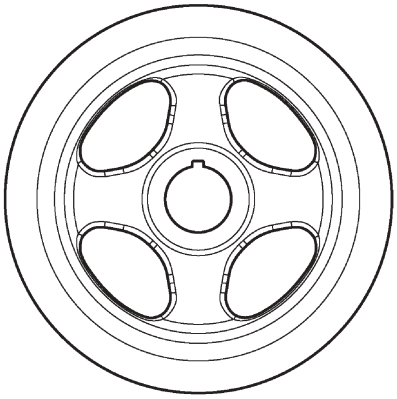
- The forged crankshaft has 5 journals and 4 balance weights.
- The pins and journals are machined with increased precision and the surface treatment reduces friction.



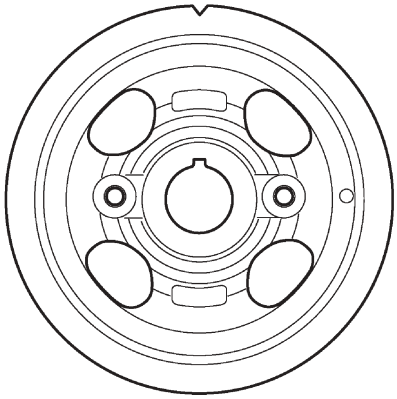
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7. Crankshaft Pulley

The rigidity of the torsional damper rubber has been optimized to reduce noise.



Local Sourced Part



Japan Sourced Part

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