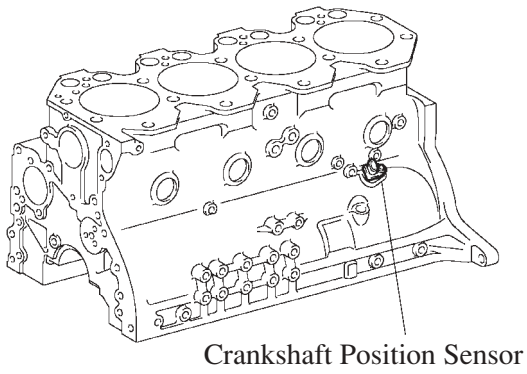
■ENGINE PROPER

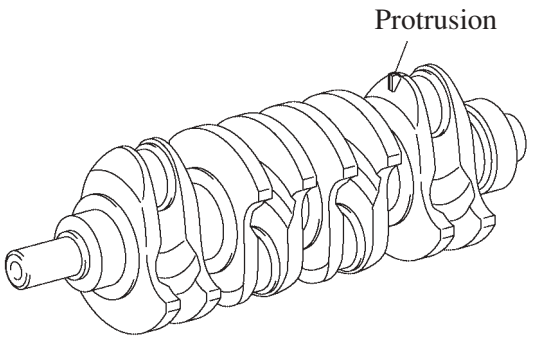
1. Cylinder Block and Crankshaft

Along with the adoption of the engine control system, a crankshaft position sensor has been provided in the cylinder block, and a protrusion has been provided on the crankshaft to generate a signal.



Cylinder Block

DNEG29

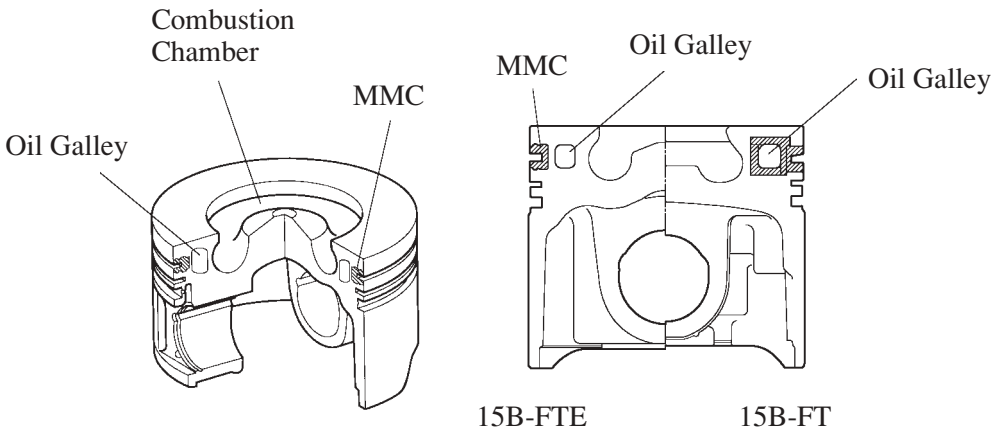


Crankshaft

DNEG30

2. Piston

- The piston is made of aluminum alloy that offers high temperature strength. The top ring groove has been treated with MMC (Metal Matrix Composites) to improve its wear resistance.
- The combustion chamber has been designed with an optimal shape to improve the engine performance while reducing exhaust emissions.
- The 15B-FTE engine is provided with an oil gallery in the upper part of its pistons to improve their cooling performance.



DNEG10

– REFERENCE –

MMC (Metal Matrix Composites)

It is type of composite material that is made of a metal matrix for the purpose of obtaining characteristics such as high strength, high elasticity, and low thermal expansion.