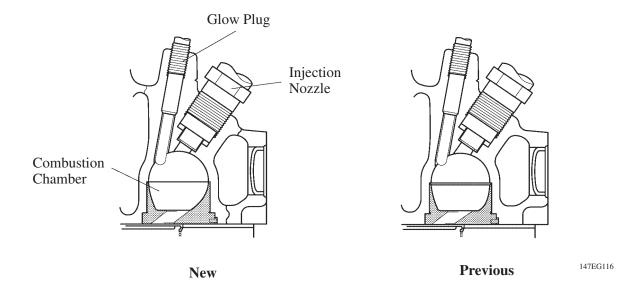
■ ENGINE PROPER (1HZ ENGINE)

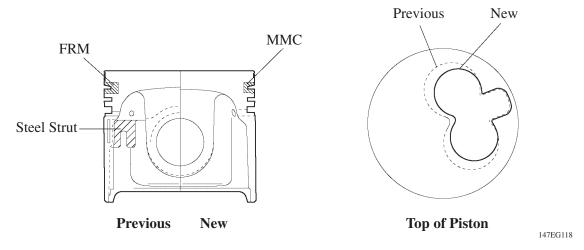
1. Cylinder Head

The shape of the combustion chamber has been optimized to reduce exhaust emissions.



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 shape of the piston skirt has been optimized to improve its rigidity. Accordingly, the steel strut has been discontinued.
- The shape of the combustion chamber at the top of the piston has been changed. Along with the change
 in the shape of the combustion chamber in the cylinder head, improved combustion efficiency has been
 realized.



- REFERENCE -

MMC (Metal Matrix Composites)

It is a 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. Because of its excellent heat transmission performance, this material helps to dissipate the piston's heat through the piston ring to the cylinder block.