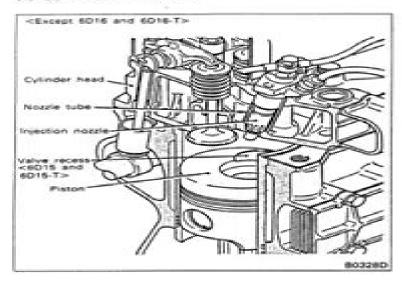
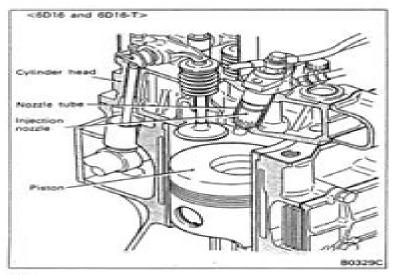


1. GENERAL

1.1 Engine Proper

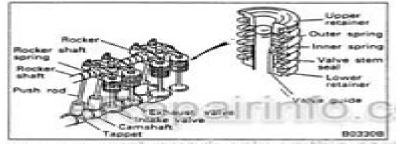
(1) Combustion chamber





The combustion chamber is made up of the cylinder head and piston top. The hole type injection nozzle as well as the nozzle tube is mounted on the cylinder head. The nozzle tube holds the nozzle in position and protects the nozzle from coolant. Since the outside of the nozzle tube is exposed to the water jacket, the top end of the tube is sealed off with an O-ring and the bottom end staked to prevent entrance of water. Combustion is accomplished by compressing the fuel directly injected into the combustion chamber. On 6D15 and 6D15-T engine, a valve recess is provided at the cylinder top to ensure clearance between piston and exhaust valve.

(2) Valve mechanism



(a) Both the intake and exhaust valves are made of surface-treated heat-resistant steel. The valve seat angle is 45" for both valves.

Valve stem seal is mounted to the valve stem, which controls the amount of lubricant on the sliding surfaces between the valve and valve guide.

A valve guide with carbon cutter is used for the exhaust valve.

(b) Two unevenly pitched valve springs are used to prevent chattering at high speed. The inner and outer spring coil directions are opposite to each other.

(c) The rockers are made of precisely forged carbon steel. The end sliding portions of the rockers has been quenched. The rocker shaft is a hollow round rod sealed off with expansion plugs at both ends. The inside of the shaft serves as an engine oil passage.

(d) The push rod has a steel ball welded to its bottom end and a spherical or depressed piece welded to its top end. Both ends are carburized casehardened.

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