

GROUP 11B

**ENGINE
MECHANICAL
<4G63-Turbo>**

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GENERAL INFORMATION

The 4G63-DOHC-T/C engine have been adopted in the new OUTLANDER.

M2112000100493

MAJOR SPECIFICATIONS

Item	4G63-DOHC-T/C	
Total displacement mL	1,997	
Combustion chamber	Pent roof type	
Bore × Stroke mm	85.0 × 88.0	
Compression ratio	8.8	
Camshaft-valve arrangement	DOHC-16valves	
Valve timing	Intake opening	BTDC 17°
	Intake closing	ABDC 51°
	Exhaust opening	BBDC 57°
	Exhaust closing	ATDC 15°
Maximum output kW (PS) /rpm	148 (202) /5,500	
Maximum torque Nm/rpm	303/4,000	
Lash adjuster	Equipped	

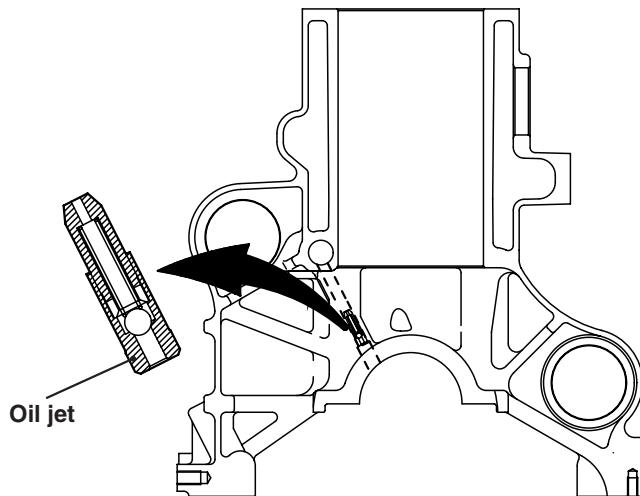
BASE ENGINE

M2112001000392

GENERAL DESCRIPTION

The following changes are applied based on the previous 4G63-DOHC engine.

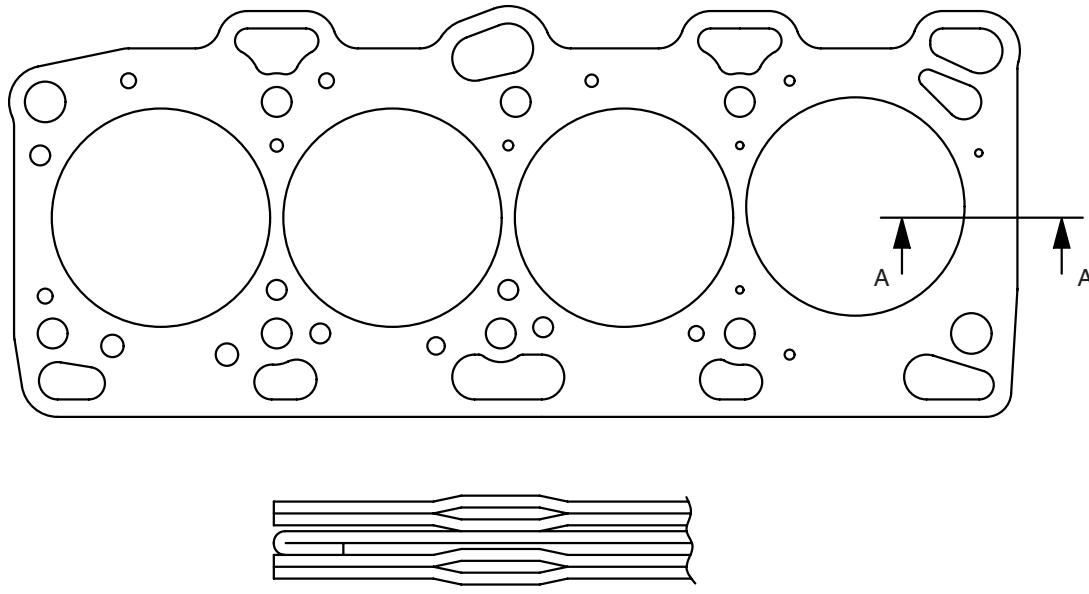
CYLINDER BLOCK



AK204403 AB

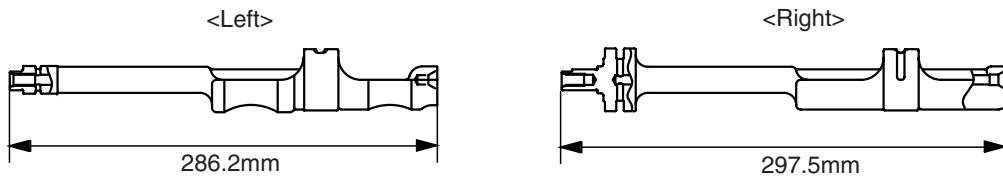
An oil jet to cool the piston is equipped at the main bearing between cylinder in the cylinder block. Oil jets out when the pressure of the oil led out of the oil opening of main bearing rises above 196 kPa.

CYLINDER HEAD GASKET



AK305037 AB

The cylinder head gasket is designed to improve the sealability by using a 5-layer type metal gasket.

COUNTER BALANCE SHAFT

AK301273AC

The counter balance shaft is designed to be light-weight by adopting the counter balance shaft shown in the figure below.

PISTON RING

By applying ion plating on the oil ring surface, the piston ring is designed to reduce friction and to improve durability reliability.