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**GROUP 11B****ENGINE  
MECHANICAL  
<4G63-Turbo>****CONTENTS**

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## GENERAL INFORMATION

M2112000100493

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

### 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

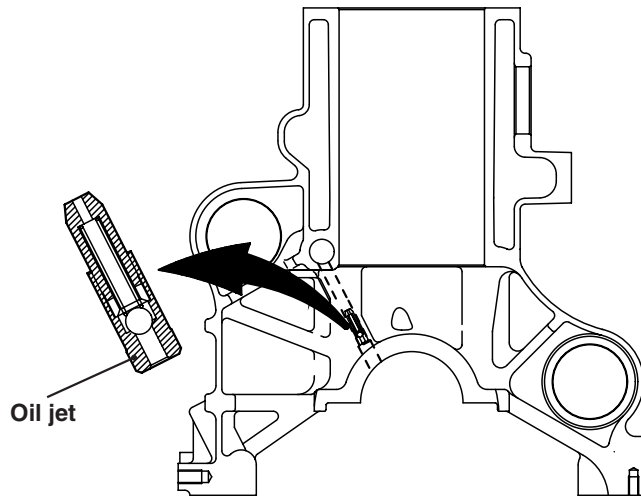
## BASE ENGINE

M2112001000392

### GENERAL DESCRIPTION

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

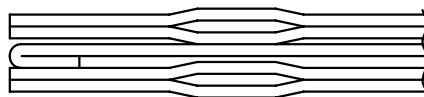
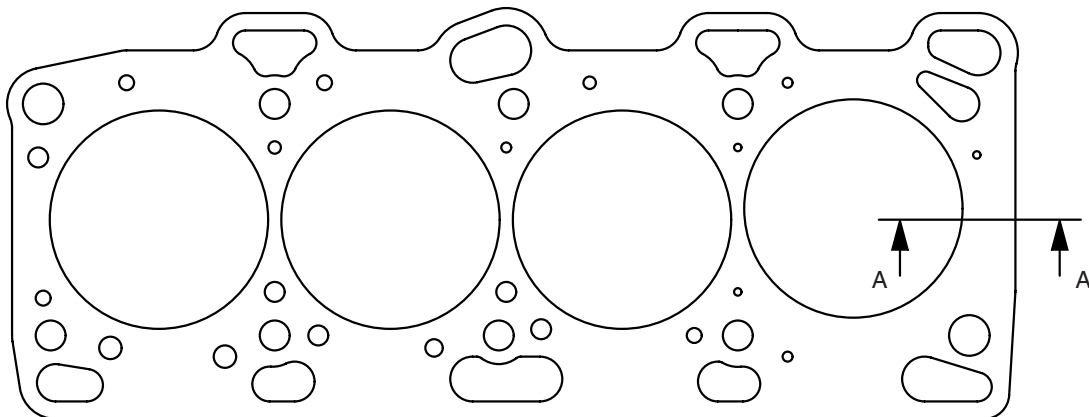
### CYLINDER BLOCK



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.

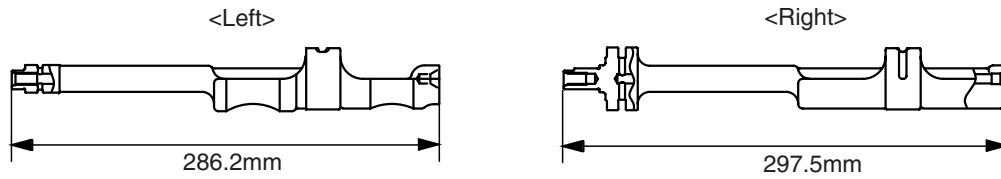
### CYLINDER HEAD GASKET



A - A

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.