ENGINE MECHANICAL

■ GENERAL

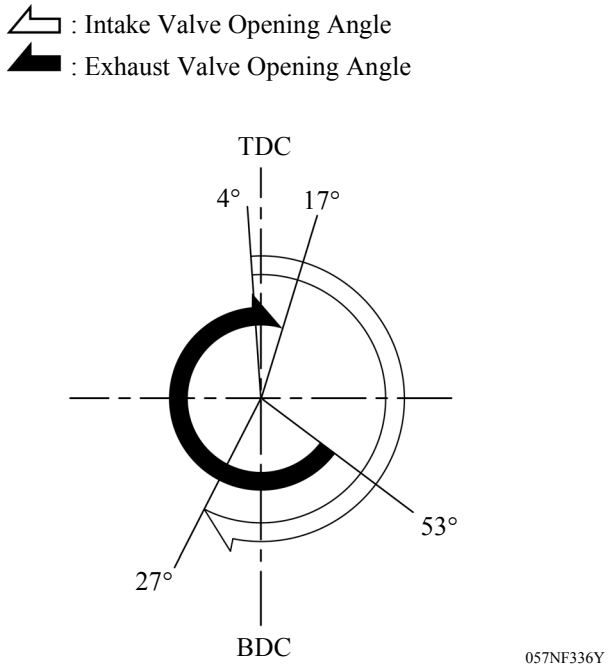
The N04C-VQ engine is an in-line 4-cylinder, 4.0-liter, 16-valve OHV engine.

Engine Specifications

No. of Cyls. & Arrangement			4-cylinder, In-line
Valve Mechanism			16-valve, OHV, Gear Drive
Combustion Chamber			Direct Injection
Manifolds			Cross-flow
Fuel System			Common-rail Type
Displacement cm^3 (cu. in.)			4009 (244.6)
Bore × Stroke mm (in.)			104.0 × 118.0 (4.09 × 4.65)
Compression Ratio			18.0 : 1
Max. Output [EEC]			100 kW @ 2500 rpm
Max. Torque [EEC]			390 N·m @ 1400 to 2400 rpm
Valve Timing	Intake	Open	4° BTDC
		Close	27° ABDC
	Exhaust	Open	53° BBDC
		Close	17° ATDC
Fuel Cetane Number			50 or higher
Firing Order			1 - 3 - 4 - 2
Emission Regulations			EURO IV
Oil Grade			API (CI-4, CI-4 PLUS, CJ-4) ACEA (E-4, E-6, E-7, E-9)
Engine Service Mass[*1] kg (lb)			383 (844.4)[*2] 378 (833.3)[*3]

*1: Weight shows the figure with oil and water fully filled.
*2: Models with air conditioner
*3: Models without air conditioner

Valve Timing



Performance Curve

