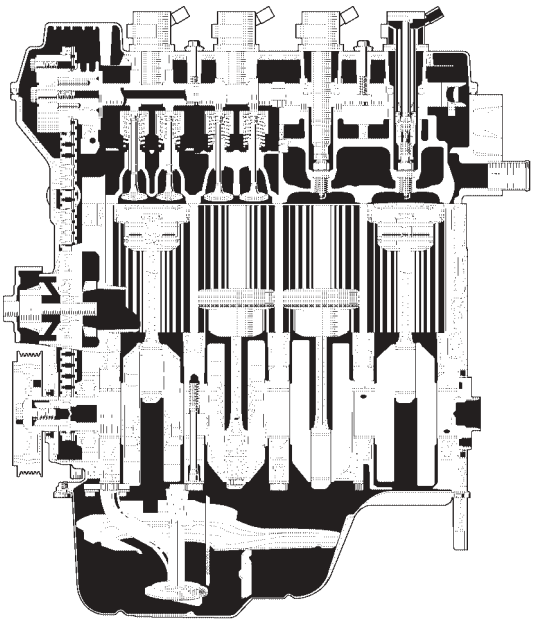
ENGINE

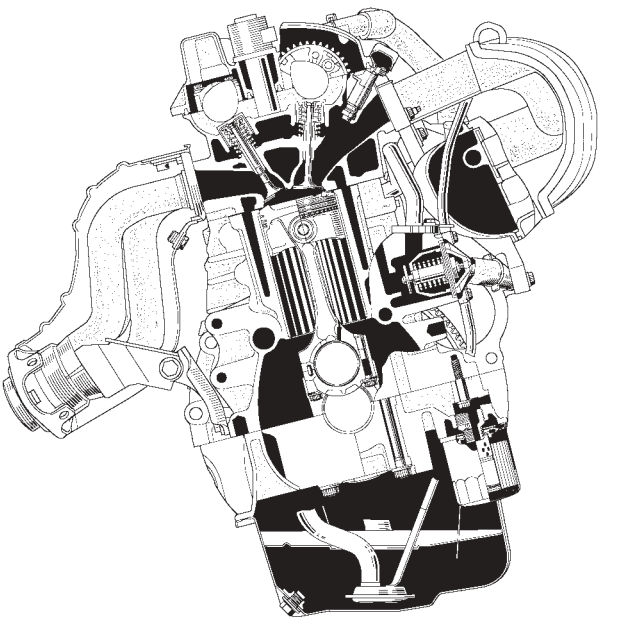
1ZZ-FE ENGINE

■ DESCRIPTION

The 1ZZ-FE engine is a newly developed in line 4-cylinder, 1.8-liter, 16-valve DOHC engine.
This engine has adopted the VVT-i (Variable Valve Timing-intelligent) system and has been developed to realize high performance, quietness, fuel economy and cleaner emissions.



174EG01



174EG02

▶ Engine Specifications ◀

Engine Type			1ZZ-FE
No. of Cyls. & Arrangement			4-Cylinder, In-line
Valve Mechanism			16-Valve DOHC, Chain Drive
Combustion Chamber			Pentroof Type
Manifolds			Cross-Flow
Fuel System			EFI
Displacement	cm^3 (cu.in.)		1794 (109.5)
Bore x Stroke	mm (in.)		79.0 x 91.5 (3.11 x 3.60)
Compression Ratio			10.0 : 1
Max. Output	[EEC]		105 kW @ 6400 rpm
Max. Torque	[EEC]		170 N·m @ 4200 rpm
Valve Timing	Intake	Open	5° ~ 48° BTDC
		Close	55° ~ 12° ABDC
	Exhaust	Open	42° BBDC
		Close	2° ATDC
Fuel Octane Number	RON		91
Oil Grade			API, SJ EC or ILSAC