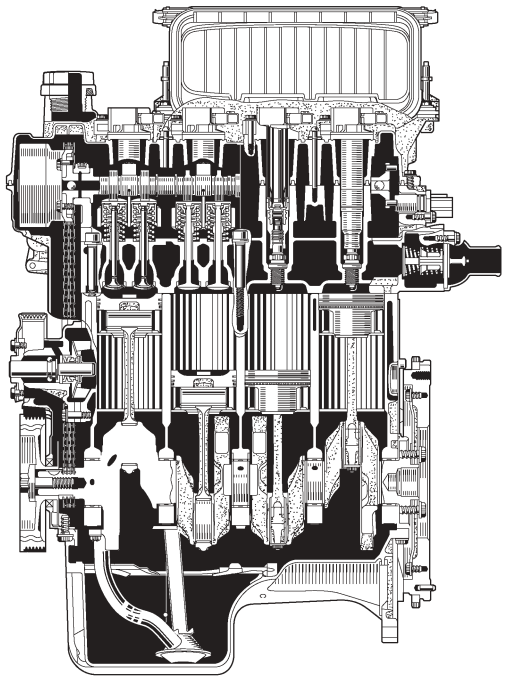
2SZ-FE ENGINE

■ DESCRIPTION

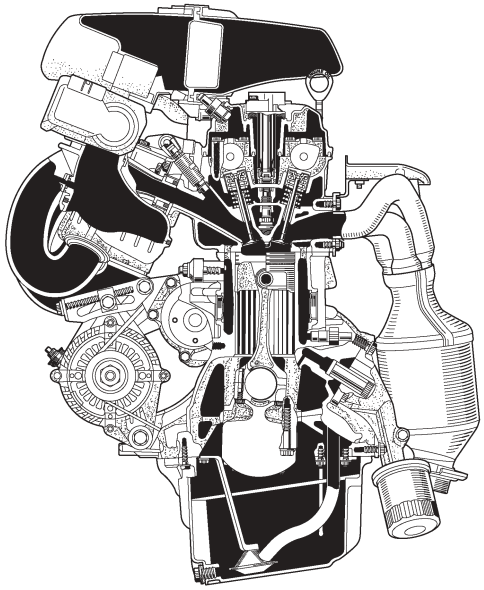
The 2SZ-FE engine is an in-line 4-cylinder, 1.3-liter, 16-valve DOHC engine. This engine meets the EURO IV emission regulations.

Through the use of the VVT-i (Variable Valve Timing-intelligent) system, DIS (Direct Ignition System), and ETCS-i (Electronic Throttle Control System-intelligent), this engine achieves high engine performance, low fuel consumption, and reduce exhaust emission.

For the main changes made to this engine from the previous model, see page EG-63.



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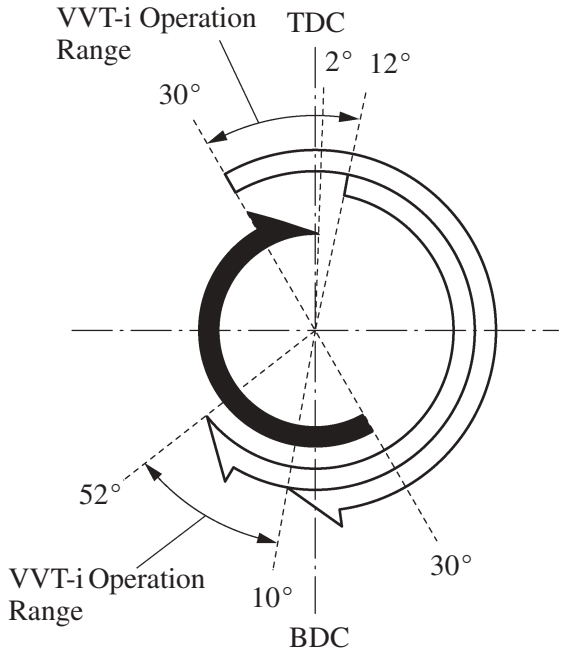
▶ Engine Specification ◀

Model			New	Previous
Engine			2SZ-FE	2SZ-FE
No. of Cyls. & Arrangement			4-cylinder, In-line	←
Valve Mechanism			16-valve DOHC, Chain Drive (with VVT-i)	←
Combustion Chamber			Pentroof Type	←
Manifolds			Cross-flow	←
Fuel System			EFI	←
Ignition System			DIS	←
Displacement cm^3 (cu. in.)			1298 (79.2)	←
Bore x Stroke mm (in.)			72.0 x 79.7 (2.83 x 3.14)	←
Compression Ratio			10.0 : 1	←
Max. Output [EEC]			64 kW @ 6000 rpm	←
Max. Torque [EEC]			122 N·m @ 4200 rpm	←
Valve Timing	Intake	Open	30°BTDC – 12°ATDC	←
		Close	10°ABDC – 52°ABDC	←
	Exhaust	Open	30°BBDC	←
		Close	2°ATDC	←
Firing Order			1 – 3 – 4 – 2	←
Research Octane Number			95 or higher	←
Emission Regulation			EURO IV	←
Oil Grade			API: SL, SM or ILSAC	←
Engine Service Mass kg (lb)			95 (209.4)	←

▶ Valve Timing ◀

: IN Valve Opening Angle

: EX Valve Opening Angle



227EG03