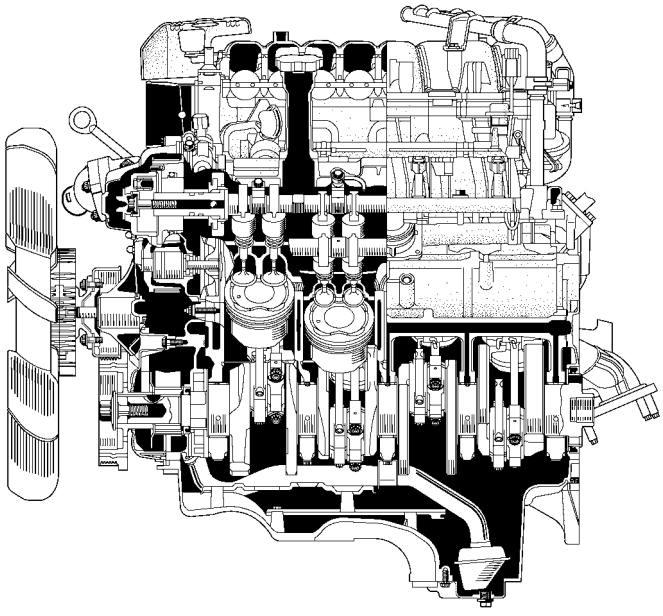
ENGINE

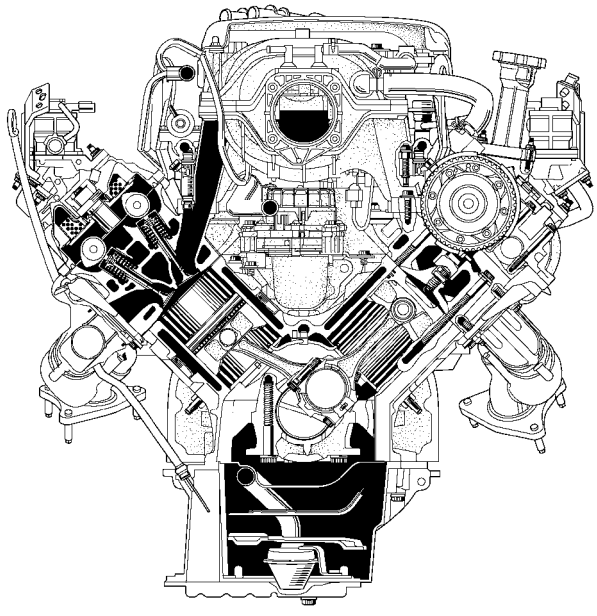
2UZ-FE ENGINE

■DESCRIPTION

The 2UZ-FE engine is a 4.7-liter, 32-valve DOHC V8. This engine uses the VVT-i (Variable Valve Timing-intelligent) system, DIS (Direct Ignition System), ACIS (Acoustic Control Induction System), ETCS-i (Electronic Throttle Control System-intelligent), and air injection system. These control functions achieve stable engine performance, fuel economy, and clean emissions.



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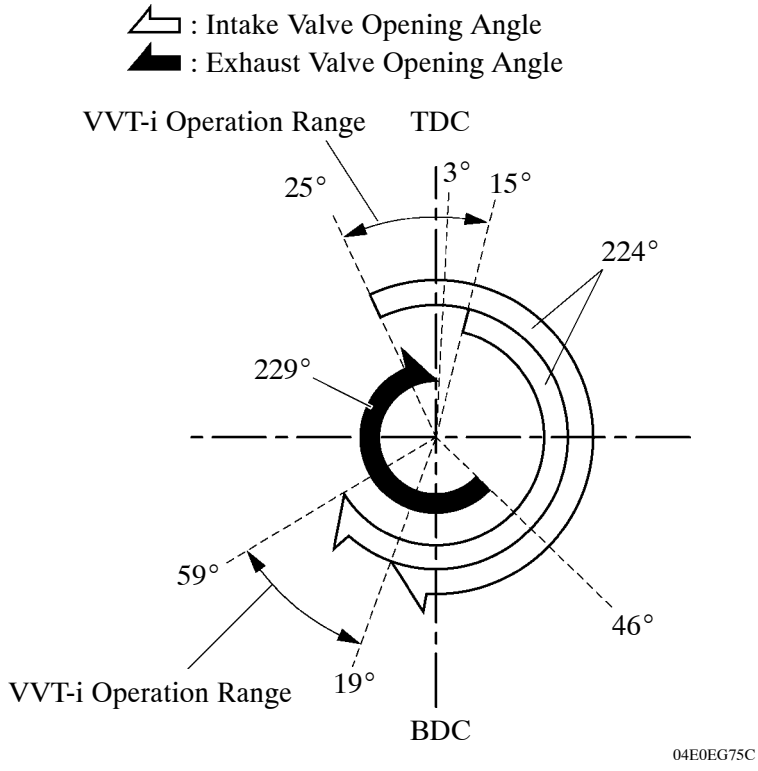
▶ Engine Specifications ◀

No. of Cyls. & Arrangement			8-cylinder, V Type
Valve Mechanism			32-valve DOHC, Belt & Gear Drive (with VVT-i)
Combustion Chamber			Pentroof Type
Manifolds			Cross-flow
Fuel System			SFI
Ignition System			DIS
Displacement cm^3 (cu. in.)			4664 (284.5)
Bore × Stroke mm (in.)			94.0 × 84.0 (3.70 × 3.31)
Compression Ratio			10.0 : 1
Max. Output*1 [SAE-NET]			206 kW @ 5400 rpm (276 HP @ 5400 rpm)
Max. Torque*1 [SAE-NET]			426 N·m @ 3400 rpm (314 ft·lbf @ 3400 rpm)
Valve Timing	Intake	Open	25° BTDC to 15° ATDC
		Close	19° ABDC to 59° ABDC
	Exhaust	Open	46° BBDC
		Close	3° ATDC
Firing Order			1-8-4-3-6-5-7-2
Oil Grade			ILSAC
Octane Rating			87 or higher
Research Octane Number (RON)			91 or higher
Tailpipe Emission Regulation			LEVII-ULEV, SFTP
Evaporative Emission Regulation			LEVII, ORVR
Engine Service Mass*2 (Reference) kg (lb)			237 (523)

*1: Maximum output and torque ratings are determined by revised SAE J1349 standard.
*2: The figure shown is the weight of the part without coolant or oil.

EG

▶ Engine Specifications ◀



▶ Performance Curve ◀

