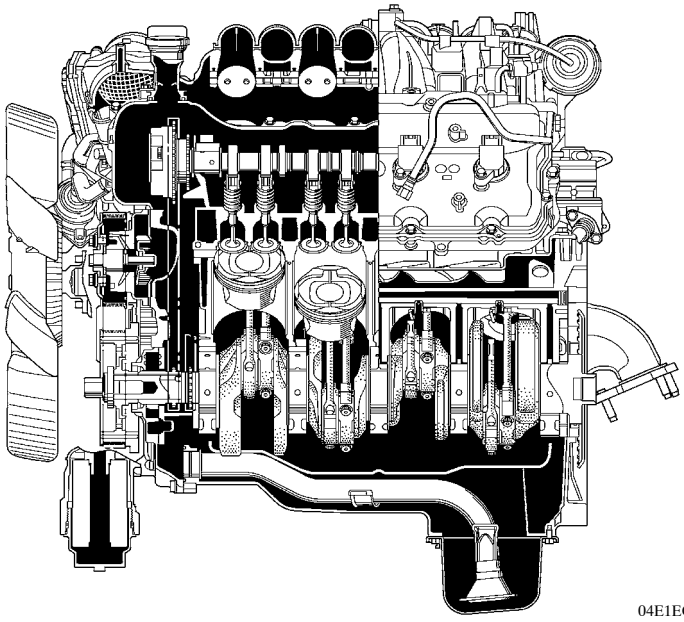
ENGINE

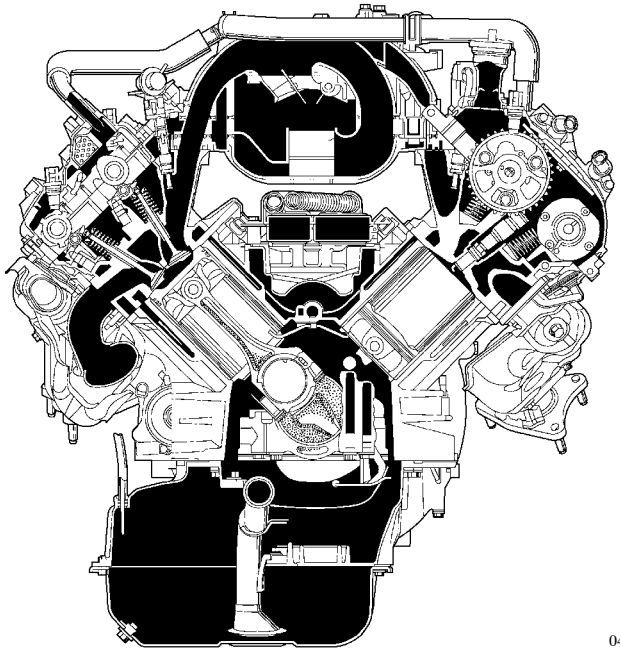
3UR-FE ENGINE

■ DESCRIPTION

The 3UR-FE engine is a 5.7-liter, 32-valve DOHC V8. This engine uses the Dual Variable Valve Timing-intelligent (Dual VVT-i) system, Direct Ignition System (DIS), Acoustic Control Induction System (ACIS), Electronic Throttle Control System-intelligent (ETCS-i), and air injection system. These control functions achieve improved engine performance, fuel economy, and clean emissions.



04E1EG01Z



04E1EG02Z

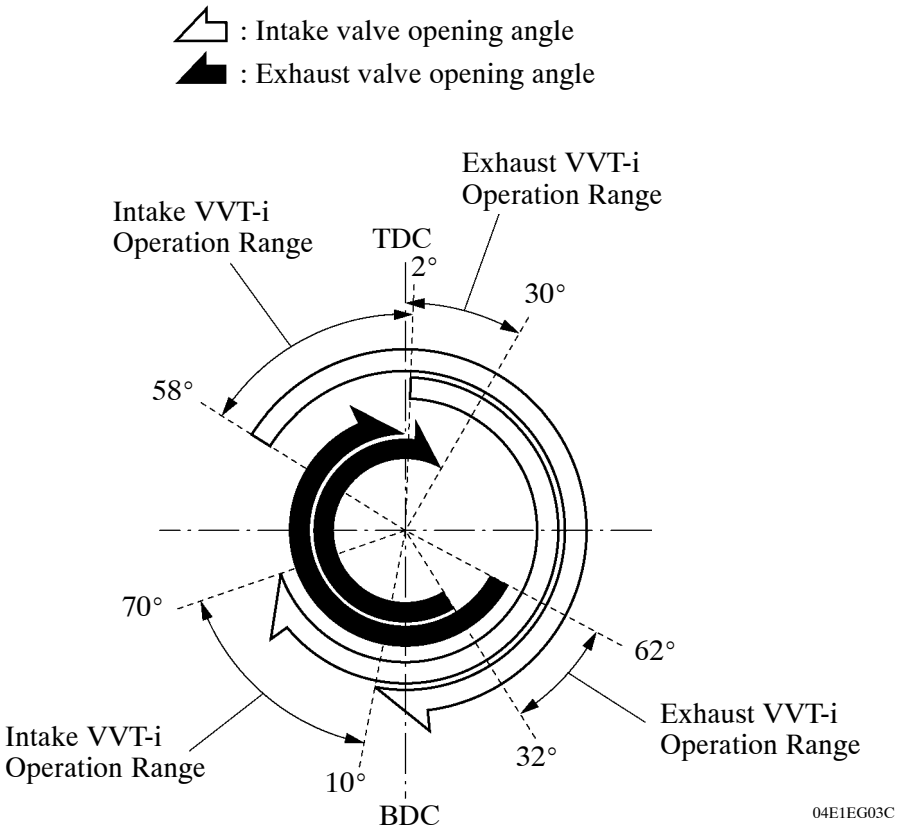
▶ Engine Specifications ◀

No. of Cyls. & Arrangement			8-cylinder, V-type
Valve Mechanism			32-valve DOHC, Chain Drive (with Dual VVT-i)
Combustion Chamber			Pentroof Type
Manifold			Cross-flow
Fuel System			EFI
Ignition System			DIS
Displacement			5663 cm^3 (345.6 cu. in.)
Bore × Stroke			94.0 mm × 102.0 mm (3.70 in. × 4.02 in.)
Compression Ratio			10.2 : 1
Max. Output			284 kW @ 5600 rpm
Max. Torque			544 N·m @ 3600 rpm
Valve Timing	Intake	Open	–2° to 58° BTDC
		Closed	70° to 10° ABDC
	Exhaust	Open	62° to 32° BBDC
		Closed	0° to 30° ATDC
Firing Order			1 – 8 – 7 – 3 – 6 – 5 – 4 – 2
Research Octane Number			91 or higher
Emission Regulation			EURO II
Engine Service Mass* (Reference)			219.3 kg (483.5 lb)

*: The figure shown is the weight of the part without coolant and oil.

EG

▶ Valve Timing ◀



▶ Performance Curve ◀

