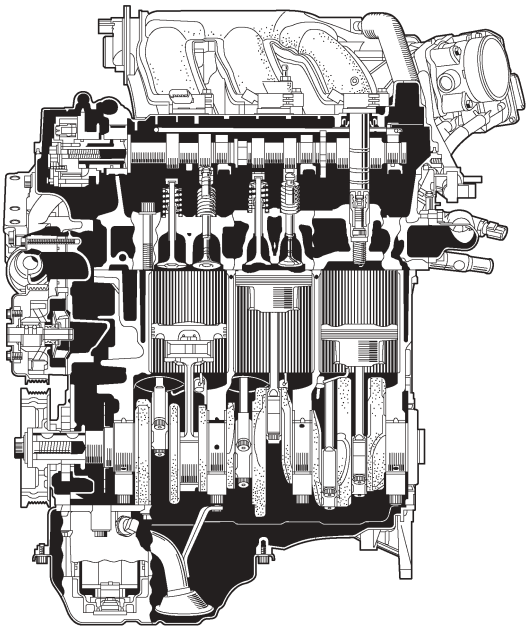
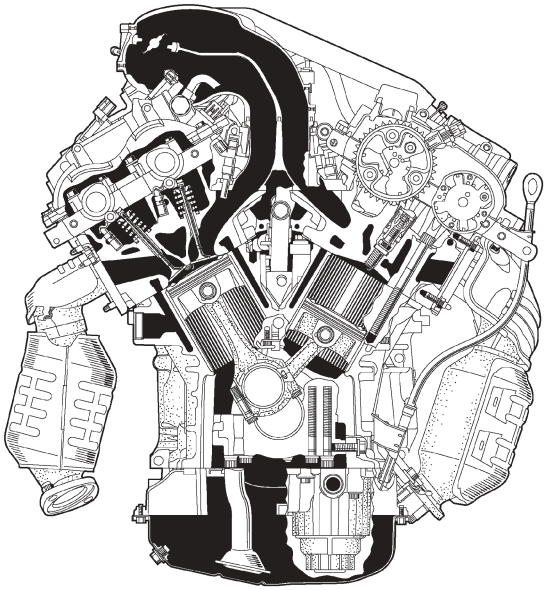
2GR-FE ENGINE

■ DESCRIPTION

The 2GR-FE engine on the new Camry is a newly developed, V6 3.5-liter, 24-valve DOHC engine. This engine uses the Dual VVT-i (Dual Variable Valve Timing-intelligent) system, DIS (Direct Ignition System), ACIS (Acoustic Control Induction System), and ETCS-i (Electronic Throttle Control System-intelligent). These control functions achieve improved engine performance, fuel economy, and reduced exhaust emissions.



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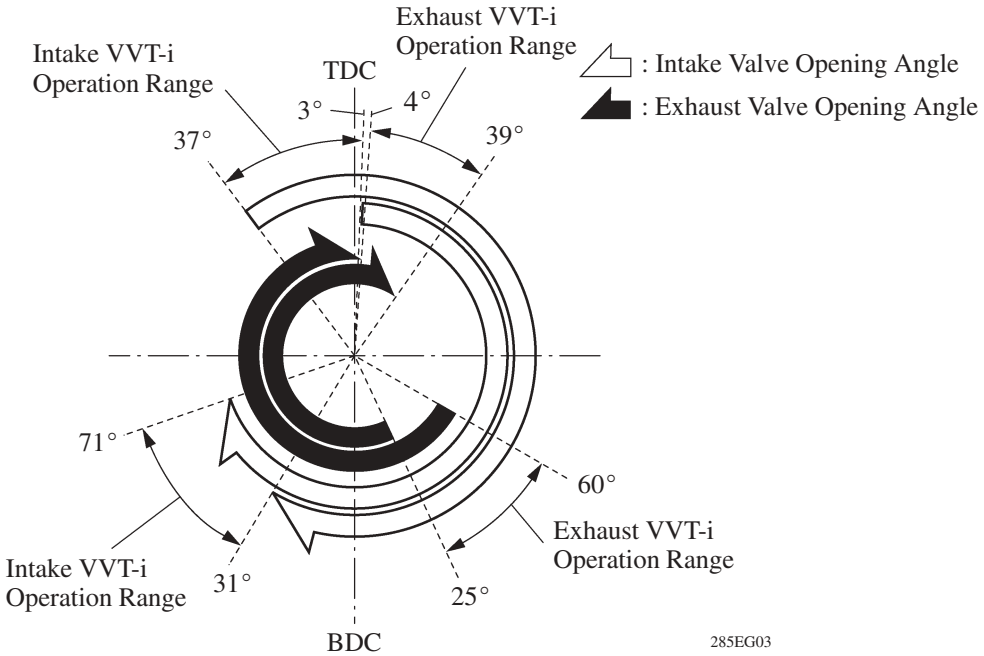
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▶ Engine Specifications ◀

No. of Cyls. & Arrangement			6-Cylinder, V Type
Valve Mechanism			24-Valve DOHC, Chain Drive (with Dual VVT-i)
Combustion Chamber			Pentroof Type
Manifolds			Parallel-Flow
Fuel System			SFI
Ignition System			DIS
Displacement cm^3 (cu. in.)			3456 (210.9)
Bore x Stroke mm (in.)			94.0 x 83.0 (3.70 x 3.27)
Compression Ratio			10.8 : 1
Max. Output (EEC)			204 kW @ 6200 rpm
Max. Torque (EEC)			346 N·m @ 4700 rpm
Valve Timing	Intake	Open	–3° to 37° BTDC
		Close	71° to 31° ABDC
	Exhaust	Open	60° to 25° BBDC
		Close	4° to 39° ATDC
Firing Order			1 – 2 – 3 – 4 – 5 – 6
Oil Grade			API grade SL "Energy-Conserving", "Energy-Conserving" SM or ILSAC
Research Octane Number			91 or higher
Emission Regulation			EURO IV
Engine Service Mass* (Reference) kg (lb)			163 (359)

*: Weight shows the figure with the oil and engine coolant fully filled.

▶ Valve Timing ◀



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