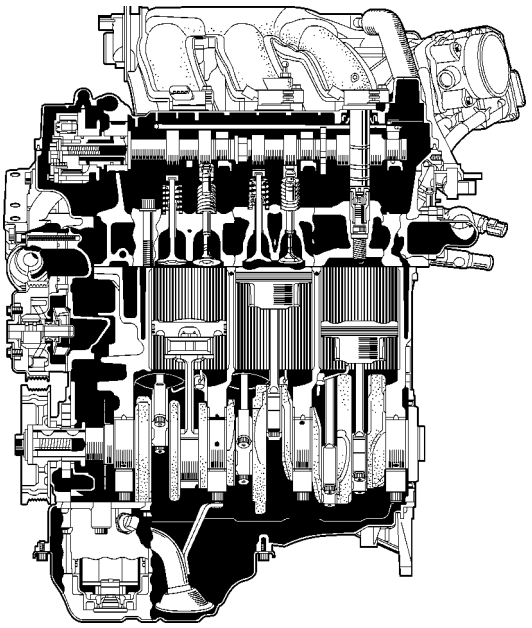
NEW FEATURES

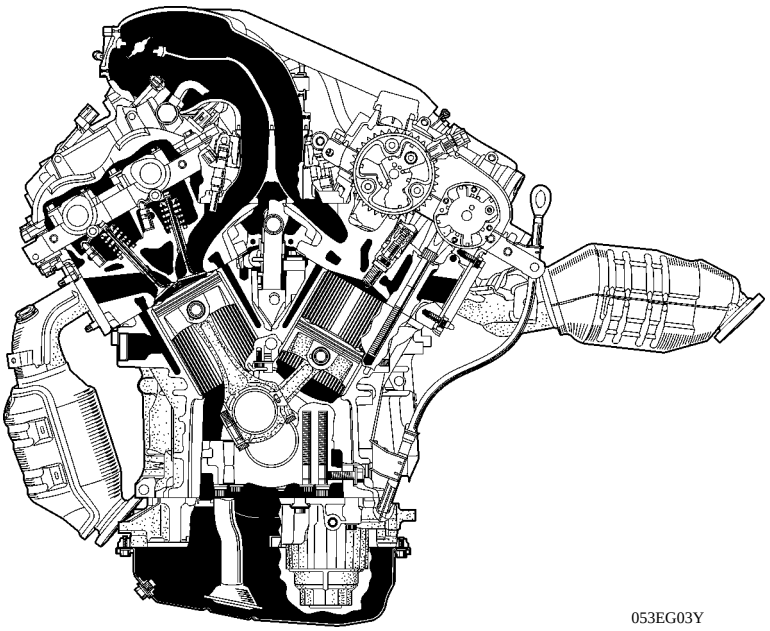
2GR-FE ENGINE

■DESCRIPTION

The 2GR-FE engine on the ’07 Sienna 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.



285EG01



053EG03Y

▶ 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 (SAE-NET)*1			198 kW @ 6200 rpm (266HP @ 6200 rpm)
Max. Torque (SAE-NET)*1			332 N·m @ 4700 rpm (245 ft·lbf @ 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			ILSAC
Octane Rating			87 or higher
Emission Regulation	Tailpipe		LEVII-ULEV, SFTP
	Evaporative		LEVII, ORVR
Engine Service Mass*2 (Reference) kg (lb)			163 (359)

*1: Maximum output and torque rating is determined by revised SAE J1394 standard.
*2: Weight shows the figure with the oil and engine coolant fully filled.

NF

▶ Valve Timing ◀

