## ■MAJOR DIFFERENCE (from '03 Prius)

System		Features
Engine Proper	Piston	<ul> <li>The shape of the piston head has been changed.</li> <li>The wall thickness in various areas of the piston has been optimized for weight reduction.</li> <li>The area of the piston skirt has been reduced.</li> <li>The thickness of the resin coating on the piston skirt has been increased.</li> <li>The width of the piston ring has been reduced and its tension has been further reduced.</li> </ul>
Cooling System		<ul> <li>Along with the adoption of the coolant heat storage system, the coolant pipes have been changed.</li> <li>The radiator for the engine and the radiator for the inverter have been integrated.</li> <li>The radiator reservoir tank and the fan shroud have been integrated.</li> <li>The TOYOTA genuine super long life coolant has been adopted.</li> </ul>
Intake and Exhaust System		<ul> <li>Adoption of a carbon filter for absorbing HC (Hydrocarbons) in the air cleaner cap.</li> <li>A resonator has been provided at the air cleaner inlet.</li> <li>The wall thickness of the exhaust manifold has been reduced.</li> <li>The TOYOTA HCAC (HC Adsorber and Catalyst) system has been discontinued.</li> </ul>
Fuel System		<ul> <li>The pipe layout of the evaporative emission control system has been changed.</li> <li>The maximum flow rate of the purge VSV has been changed (40 L/min. to 60 L/min.).</li> <li>A main fuel tube and a purge tube made of aluminum have been adopted.</li> <li>The quick turn &amp; ratchet construction type fuel tank cap has been adopted.</li> </ul>
Engine Control System		<ul> <li>Change of the ECM (16-bit → 32-bit)</li> <li>The flat type knock sensor has been adopted.</li> <li>The no-contact sensor has been adopted in the accelerator pedal position sensor. For details, see page TH-38.</li> <li>In place of the heated oxygen sensor (bank 1, sensor 1), a heated air fuel ratio sensor has been adopted.</li> <li>The maximum retard closing timing of the intake valve by the VVT-i (Variable Valve Timing-intelligent) system has been changed from 115° to 105° ABDC (After Bottom-Dead-Center).</li> <li>The coolant heat storage system has been adopted.</li> <li>CAN (controller Area Network), which networks the ECUs of the vehicle control systems (engine electrical, chassis electrical, and hybrid system) and establishes communication among the ECUs, has been newly adopted.</li> <li>The diagnosis communication.</li> <li>All the DTC (Diagnostic Trouble Code) have been made to correspond to the SAE controlled codes.</li> </ul>
Other		Configuration and structure are the same as the '03 Prius.