

■ FEATURES OF 1AZ-FE ENGINE

The 1AZ-FE engine has been able to achieve the following performance through the adoption of the items listed below.

- (1) High performance and fuel economy
- (2) Lightweight and compact design
- (3) Good serviceability
- (4) Clean emission

Item	(1)	(2)	(3)	(4)	Avensis Verso /Picnic	RAV4
The VVT-i system is used.	○			○	○	○
A cylinder block made of aluminum alloy along with a magnesium head cover has been adopted.		○			○	○
The taper squish shape has been adopted for the piston head, increasing combustion efficiency.	○			○	○	○
The DIS (Direct Ignition System) makes ignition timing adjustment unnecessary.	○		○	○	○	○
A serpentine belt drive system has been adopted.		○	○		○	○
Timing chain has been used.		○	○		○	○
The fuel returnless system has been adopted.		○	○	○	○	○
Quick connectors are used to connect the fuel hose with the fuel pipe.			○		○	○
12-hole type fuel injectors with high atomizing performance have been adopted.	○			○	○	○
Iridium-tipped spark plugs have been adopted.	○		○		○	○
Intake manifold made of plastic has been adopted.		○			○	○
A dual type exhaust manifold has been adopted.	○				○	○
A thin-wall ceramic TWC (Three-Way Catalytic Converter) has been adopted.				○	○	○
The use of an air fuel ratio sensor allows for precise control.				○	○	○
The PS (Planetary reduction-Segment conductor motor) starter has been adopted on automatic transaxle model.		○			○	—