

3. Major Difference

The major difference between the 2AZ-FE engine on the new Avensis Verso and the 1AZ-FE engine on the previous Avensis Verso are the following:

System		Features
Engine Proper	Cylinder Block	<ul style="list-style-type: none"> ● The cylinder bore has been changed.
	Piston	<ul style="list-style-type: none"> ● The piston diameter has been increased.
	Crankshaft	<ul style="list-style-type: none"> ● The balance shaft drive gear has been installed onto the crankshaft. ● A balance shaft has been adopted.
Valve Mechanism		<ul style="list-style-type: none"> ● The cam profile has been changed in conjunction with the change in the valve timing.
Cooling System		<ul style="list-style-type: none"> ● The TOYOTA genuine Super Long Life Coolant (SLLC) has been adopted.
Intake and Exhaust system		<ul style="list-style-type: none"> ● An electronic throttle body with a built-in no-contact type throttle position sensor and a throttle control motor has been adopted. ● The exhaust system has been revised to optimize exhaust performance. In addition, the 2 TWCs located directly below the exhaust manifold have been integrated into 1 TWC, and a TWC has been added under the floor. ● The ceramic type TWC has been adopted directly below the exhaust manifold and under floor.
Fuel System		<ul style="list-style-type: none"> ● The 12-hole type injector has been adopted.
Charging System		<ul style="list-style-type: none"> ● The segment conductor type alternator has been adopted.
Engine Control System		<ul style="list-style-type: none"> ● The ETCS-i (Electronic Throttle Control system-intelligent) has been adopted. ● A flat type knock sensor has been adopted. ● The air fuel ratio sensor has been discontinued and two oxygen sensor has been adopted. ● A contact type accelerator pedal position sensor has been adopted. ● A no-contact type throttle position sensor has been adopted. ● The charging control has been adopted.
Diagnosis		<ul style="list-style-type: none"> ● Along with the adoption of the ETCS-i, the DTCs (Diagnostic Trouble Codes) have been added.