■ FEATURES OF 1AZ-FE AND 2AZ-FE ENGINES

The 1AZ-FE and 2AZ-FE engines have achieved the following performance through the use of the items listed below.

(1) High performance and reliability

(2) Low noise and vibration

(3) Lightweight and compact design

(4) Good serviceability

(5) Clean emission and fuel economy

Item		(1)	(2)	(3)	(4)	(5)
Engine Proper	A cylinder head cover made of magnesium is used.			○		
	A taper squish shape is used for the piston head.	○				○
	A cylinder block made of aluminum alloy is used.			○		
	A resin gear balance shaft is used.		○	○		
Valve Mechanism	The VVT-i system is used.	○				○
	A timing chain and chain tensioner are used.		○	○	○	
Cooling System	The engine coolant is used the TOYOTA Genuine SLLC (Super Long Life Coolant).				○	
Intake and Exhaust System	The link-less type throttle body is used.			○	○	
	The intake manifold made of plastic is used.			○		
	A 2-way exhaust control system is used.	○	○			
	A ceramic type TWC (Three-Way Catalytic Converter) is used.					○
Fuel System	The fuel returnless system is used.			○	○	○
	12-hole type fuel injectors with high atomizing performance are used.	○				○
	Quick connectors are used to connect the fuel hose with the fuel pipe.				○	
Ignition System	The DIS makes ignition timing adjustment unnecessary.	○			○	○
	Iridium-tipped spark plugs are used.	○			○	
Charging System	A segment conductor type alternator is used.	○		○		
Starting System	The PS (Planetary reduction-Segment conductor motor) type starter is used.			○		
Serpentine Belt Drive System	A serpentine belt drive system is used.			○	○	
Engine Control System	The ETCS-i is used.	○				○
	Evaporative emission control system is used.					○