■ FEATURES OF 1ND-TV ENGINE

The 1ND-TV engine has achieved the following performance through the use of the items listed below.

(1) High performance and fuel economy

(2) Low noise and vibration

(3) Lightweight and compact design

(4) Good serviceability

(5) Clean emission

Section	Item	(1)	(2)	(3)	(4)	(5)
Engine Proper	The cylinder head and cylinder block made of aluminum alloy are used.			○		
	The thin cast-iron liner is used in the cylinder block.			○		
	The intake manifold is integrated in the cylinder head.			○		
	The passage for the EGR system is provided in the cylinder head.			○		○
	Nutless-type plastic region tightening bolt is used in the connecting rod.			○		
Valve Mechanism	Timing chain and chain tensioner are used.				○	
Lubrication System	Water-cooled type oil cooler is used.	○				
Intake and Exhaust System	A throttle valve, which is actuated by a torque motor (rotary solenoid type), is used.					○
	An air-cooled type intercooler is used.	○				○
	A variable nozzle vane type turbocharger is used.	○				○
	A step motor type EGR valve is used.					○
	A water-cooled type EGR cooler is used.					○
	Oxidation catalytic converter is used.					○
Fuel System	A common-rail type fuel injection system is used.	○	○			○
	6-hole type injectors are used.	○	○			○
	Alphanumerical code and DMC (Data Matrix Code) printed on injector are used for injector quantity adjustment.	○	○			○
Engine Control System	An air flow meter is used.					○
	The non-contact type sensor is used in the accelerator pedal position sensor and throttle valve position sensor.	○				
	A pilot injection control system is used.	○	○			○

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