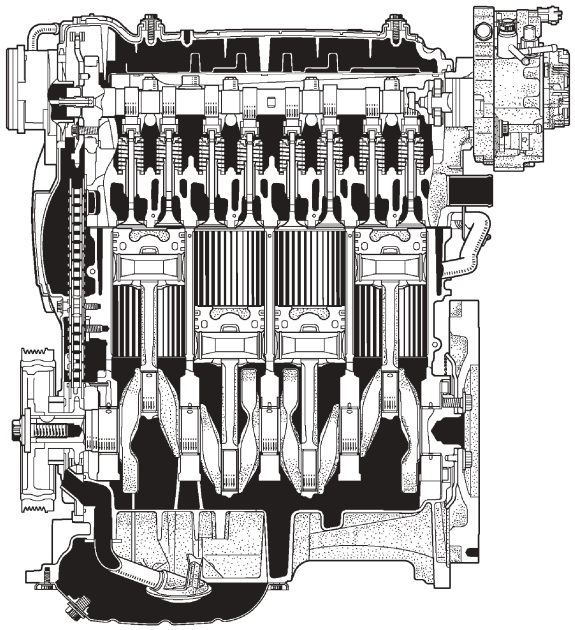
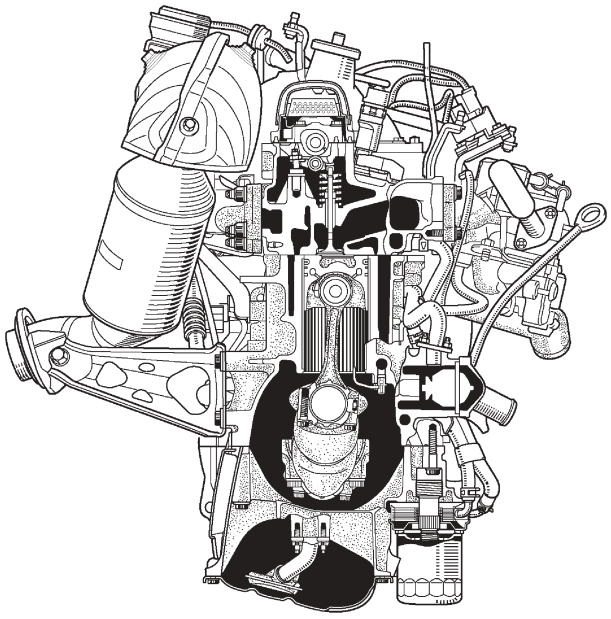
1ND-TV ENGINE

■ DESCRIPTION

- The 1ND-TV TOYOTA D-4D (Direct injection 4 stroke common-rail Diesel) is an in-line, 4-cylinder, 1.4-liter, 8-valve SOHC turbocharged with intercooler diesel engine.
- This engine uses direct injection system and common-rail system to realize high performance, clean emission, low noise and low vibration.



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▶ Engine Specification ◀

No. of Cyls. & Arrangement			4-cylinder, In-line
Valve Mechanism			8-valve, SOHC, Chain Drive
Combustion Chamber			Direct Injection Type
Manifolds			Cross-flow
Fuel System			Common-rail Type
Displacement cm^3 (cu. in.)			1364 (83.2)
Bore x Stroke mm (in.)			73.0 x 81.5 (2.87 x 3.21)
Compression Ratio			17.9 : 1
Max. Output (EEC)			66 kW @ 3800 rpm
Max. Torque (EEC)			190 N·m @ 1800 – 3000
Valve Timing	Intake	Open	4° BTDC
		Close	36° ABDC
	Exhaust	Open	44.8° BBDC
		Close	4° ATDC
Injection Order			1 – 3 – 4 – 2
Emission Regulation			EURO IV
Fuel Cetan Number			48 or higher
Engine Service Mass* (Reference) kg (lb)			123 (271.1)
Oil Grade			ACEA B1 or API CF-4, CF

*: Weight shows the figure with the oil and water fully filled.