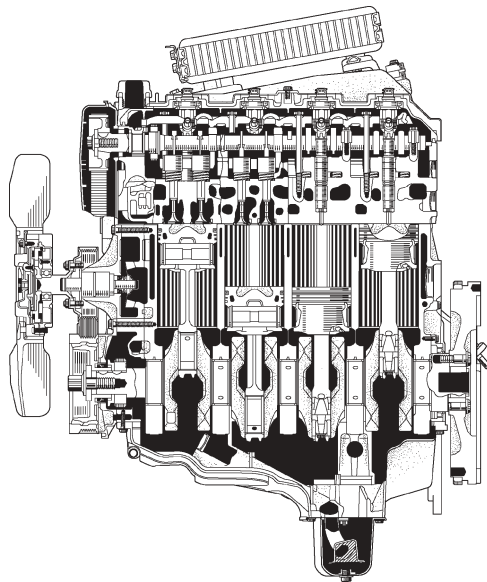


NEW FEATURES

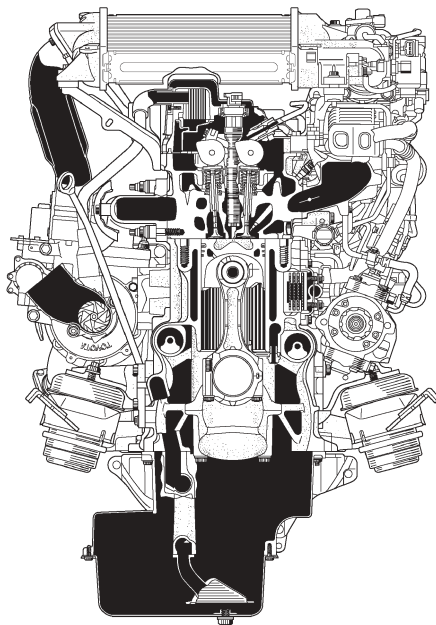
■ 1KD-FTV ENGINE

1. General

- The 1KD-FTV TOYOTA D-4D (Direct injection 4 stroke common-rail Diesel engine) is in-line 4-cylinder, 3.0 liter, 16-valve DOHC, turbocharged diesel engine with intercooler. This engine uses direct injection system and common-rail system to realize high performance, clean emission, low noise and low vibration.
- For a detailed comparison to the previous Land Cruiser/Land Cruiser Prado, refer to Major Difference ([See page 11](#)).



276PD16



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► Engine Specification ◀

Model			New Land Cruiser/Land Cruiser Prado	Previous Land Cruiser/Land Cruiser Prado
Engine Type			1KD-FTV	←
No. of Cyls. & Arrangement			4-cylinder, In-line	←
Valve Mechanism			16-valves, DOHC, Belt & Gear Drive	←
Combustion Chamber			Direct Injection Type	←
Manifolds			Cross-flow	←
Fuel System			Common-rail Type	←
Displacement		cm ³ (cu. in.)	2982 (182.0)	←
Bore x Stroke		mm (in.)	96 x 103 (3.78 x 4.06)	←
Compression Ratio			17.9 : 1	←
Max. Output		(EEC)	127 kW @ 3400 rpm	122 kW @ 3400 rpm
Max. Torque		(EEC)	410 N·m @ 1600 – 2800 rpm	410 N·m @ 1800 – 2600 rpm
Valve Timing	Intake	Open	2° BTDC	←
		Close	37° ABDC	←
	Exhaust	Open	45° BBDC	←
		Close	0° ATDC	←
Firing Order			1-3-4-2	←
Fuel Cetane Number			48 or more* ²	←
			50 or more* ³	—
Emission Regulation			EURO IV	EURO III
Oil Grade			CF-4 or CF	←
Engine Service Mass* ¹ kg (lb)		M/T	264 (582)	Approx. 260 (573)
		A/T	254 (560)	

*¹: Weight shows the figure with the oil and water fully filled.

*²: Europe Models

*³: Australia Models

► Performance Curve ◀

