

1CD-FTV ENGINE

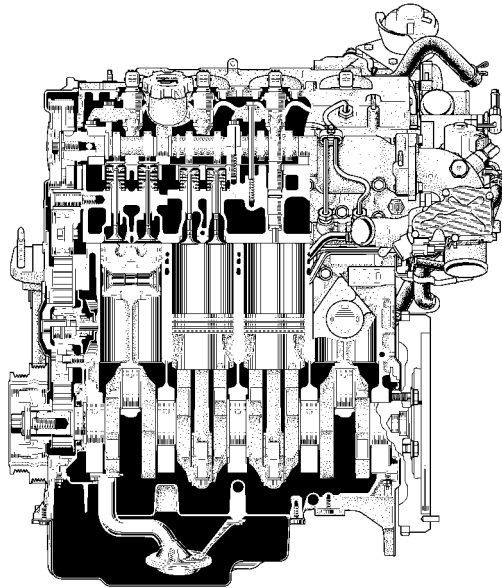
■ DESCRIPTION

The 1CD-FTV TOYOTA D-4D (Direct injection 4 Stroke common-rail Diesel) is in-line 4-cylinder, 2.0 liter, 16-valve DOHC turbocharged with intercooler diesel engine.

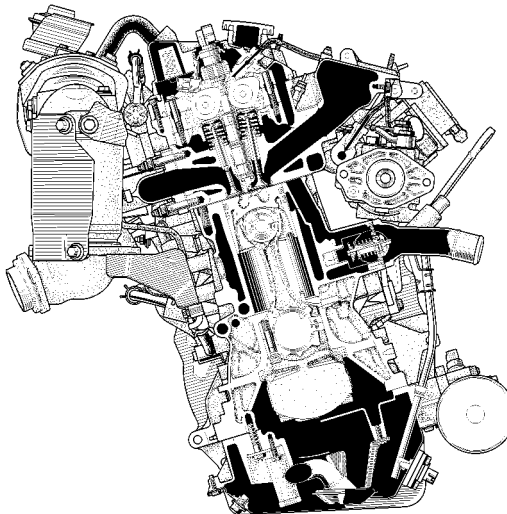
This engine is based on the 1CD-FTV engine equipped on the Avensis, to which the following major changes have been made in its application to the Avensis Verso/Picnic:

- Variable nozzle turbocharger has been adopted. (High performance)
- EGR cooler that complies with European STEP III regulations has been adopted. (Clean emissions)
- Oil filter has been relocated. (Good serviceability)

This engine is the same as the 1CD-FTV on the Previa, which is based on the 1CD-FTV engine of the Avensis. Its major difference is the lack of the balance shaft.

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206EG25



206EG26

► Engine Specification ◀

Model			Avensis verso /Picnic	Avensis	Previa
Engine Type			1CD-FTV	←	←
No. of Cyls. & Arrangement			4-Cylinder, In-line	←	←
Valve Mechanism			16-Valve, DOHC, Belt & Gear Drive	←	←
Combustion Chamber			Direction Injection Type	←	←
Manifolds			Cross-Flow	←	←
Fuel System			Common-Rail Type	←	←
Displacement cm ³ (cu. in.)			1995 (121.7)	←	←
Bore × Stroke mm (in.)			82.2 × 94.0 (3.24 × 3.7)	←	←
Compression Ratio			18.6 : 1	←	←
Max. Output [EEC]			85 kW @ 4000 rpm	81 kW @ 4000 rpm	85 kW @ 4000 rpm
Max. Torque [EEC]			250 N·m @ 1800 - 3000 rpm	250 N·m @ 2000 - 2400 rpm	250 N·m @ 1800 - 3000 rpm
Valve Timing	Intake	Open	2° BTDC	←	←
		Close	31° ABDC	←	←
	Exhaust	Open	51° BBDC	←	←
		Close	0° ATDC	←	←
Fuel Cetane Number			48 or more	←	←
Dry Weight			Approx. 201 kg (Approx. 443 lb)	Approx. 189 kg (Approx. 417 lb)	Approx. 208 kg (Approx. 459 lb)
Oil Grade			CF, 5W-30	CF-4, 10W-30	CF, 5W-30

► Performance Curve ◀

