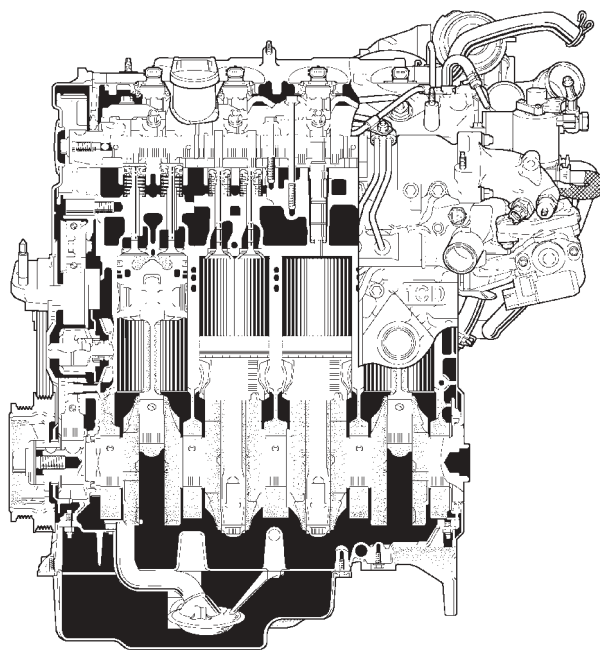


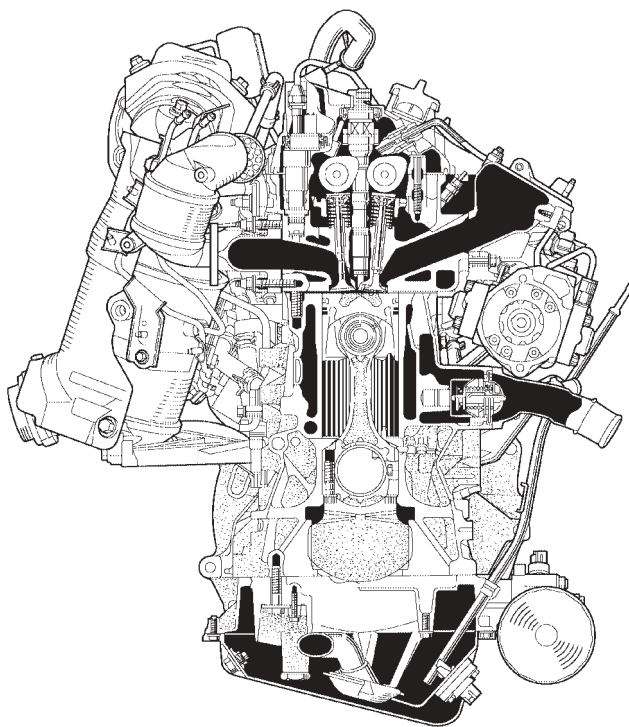
## ■ 1CD-FTV ENGINE with D-CAT

### 1. General

Based on the 1CD-FTV engine which complies with the Step-IV exhaust gas emission regulations in Europe, the 1CD-FTV engine with D-CAT has adopted D-CAT (Diesel Clean Advanced Technology) in order to realize exhaust gas reduction performance that surpasses the Step-IV standards.



258AE01



258AE02

## ► Engine Specification ◀

Model			1CD-FTV (With D-CAT)	1CD-FTV (Without D-CAT)
No. of Cyls. & Arrangement			4-Cylinder, In-line	←
Valve Mechanism			16-Valve DOHC, Belt and Gear Drive	←
Combustion Chamber			Direction Injection Type	←
Manifolds			Cross-Flow	←
Fuel System			Common-Rail Type	←
Displacement		cm <sup>3</sup> (cu. in.)	1995 (121.7)	←
Bore x Stroke		mm (in.)	82.2 x 94.0 (3.24 x 3.7)	←
Compression Ratio			17.8 : 1	←
Max. Output		[EEC]	85 kW @ 3600 rpm	←
Max. Torque		[EEC]	280 N·m @ 2000 – 2200 rpm	←
Valve Timing	Intake	Open	2° BTDC	←
		Close	31° ABDC	←
	Exhaust	Open	51° BBDC	←
		Close	0° ATDC	←
Firing Order			1 – 3 – 4 – 2	←
Fuel Cetane Number			48 or more	←
Emission Regulation			European Post-STEP IV	←
Oil Grade			ACEA B1, API CF-4 or CF	←
Engine Service Mass* (Reference) kg (lb)			206 (454,2)	203 (447.5)

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

## ► Valve Timing ◀

↗ : Intake Valve Opening Angle

↘ : Exhaust Valve Opening Angle

