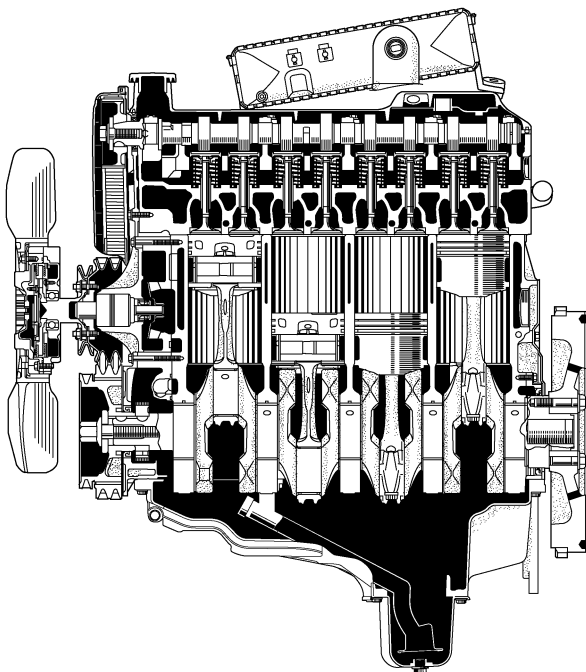


1KZ-TE ENGINE

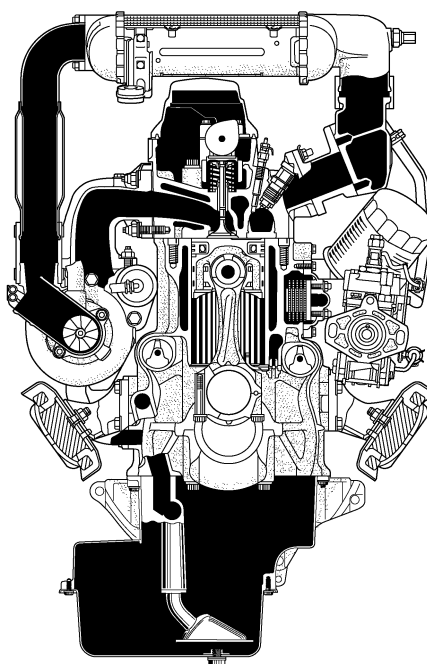
■ DESCRIPTION

The 1KZ-TE engine of new Land Cruiser/Land Cruiser Prado is a 3.0-liter, in-line 4-cylinder, 8-valve OHC with intercooler turbocharged diesel engine. This engine uses an aluminum cylinder head and a plastic cylinder head cover for weight reduction, and balance shafts for reducing noise and vibration, and an electronically controlled injection pump to reduce exhaust emissions while realizing fuel economy and high performance.

The basic construction and operation are the same as 1KZ-TE engine of previous model.



233EG53



233EG54

► Engine Specifications ◀

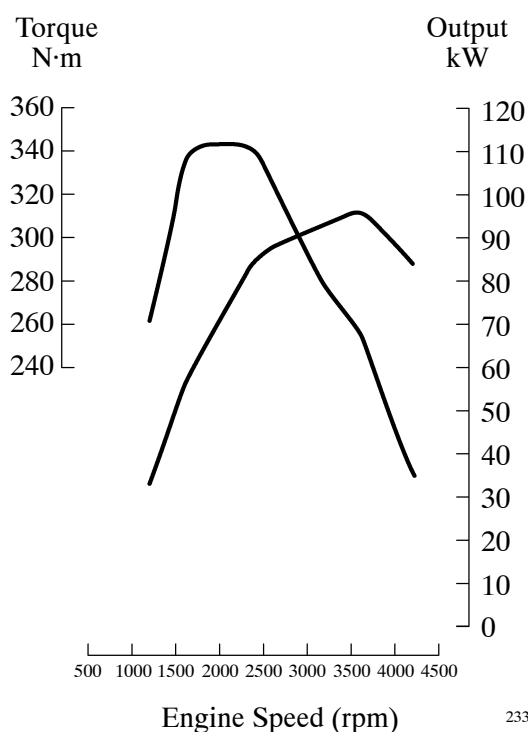
Engine Type			1KZ-TE	
Model			New	Previous
No. of Cyls. & Arrangement			4-Cylinder, In-Line	←
Valve Mechanism			8-Valve OHC, Gear & Belt Drive	←
Combustion Chamber			Swirl Type	←
Manifolds			Cross-Flow	←
Fuel System			Distributor Type (Electronically Controlled)	←
Displacement		cm ³ (cu.in.)	2982 (182.0)	←
Bore × Stroke		mm (in.)	96.0 × 103 (3.78 × 4.06)	←
Compression Ratio			21 : 1	←
Max. Output		(EEC)	96 kW @ 3600 rpm	←
Max. Torque		(EEC)	343 N·m @ 2000 rpm	←
Valve Timing	Intake	Open	6° BTDC	←
		Close	32° ABDC	←
	Exhaust	Open	53° BBDC	←
		Close	3° ATDC	←
Firing Order			1 - 3 - 4 - 2	←
Fuel Cetan Number			50 or more	←
Engine Service Mass* ¹ (Reference) kg (lb)			Approx. 250 (551)* ² Approx. 260 (573)* ³	←
Oil Grade			CF-4 10W-30	←
Emission Regulation			European STEP-II	—

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

*2: Manual Transmission Model.

*3: Manual Transmission with A/C System Model.

► Performance Curve ◀



► Valve Timing ◀

◀ : Intake Valve Opening Angle
 ▶ : Exhaust Valve Opening Angle

