3RZ-FE ENGINE

■ DESCRIPTION

The 3RZ-F engine that was equipped on the previous G.C.C. and General Countries models has been discontinued and replaced by the 3RZ-FE engine.

- The 3RZ-FE engine for the G.C.C. countries models is the unleaded gasoline type.
  The basic construction and operation are the same as previous 3RZ-FE engine in Australia model. For details, see the Hilux New Car Features (Pub. No. NCF140E).

▶ Specification ◀

Engine			3RZ-FE (Unleaded Gasoline Type)	
Destination			G.C.C. Countries	Australia
No. of Cyls. & Arrangement			4-Cylinder, In-Line	←
Valve Mechanism			16-Valve DOHC, Chain & Gear Drive	←
Combustion Chamber			Pentroof Type	←
Manifolds			Cross-Flow	←
Fuel System			EFI (L-jetro)	←
Displacement cm^3 (cu. in.)			2694 (164.4)	←
Bore x Stroke mm (in.)			95.0 x 95.0 (3.74 x 3.74)	←
Compression Ratio			9.5 : 1	←
Max. Output (SAE NET)			107 kW@4800 rpm	108 kW@4800 rpm
Max. Torque (SAE NET)			232 N·m@4000 rpm	235 N·m@4000 rpm
Valve Timing	Intake	Open	5° BTDC	←
		Close	45° ABDC	←
	Exhaust	Open	42° BBDC	←
		Close	2° ATDC	←
Firing Order			1 – 3 – 4 – 2	←
Fuel Octane Number			91	←
Dry Weight kg (lb)			Approx. 169 (373)	←
Oil Grade			API SJ/SL, EC or ILSAC	←

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- The 3RZ-FE engine for the General Countries models is the leaded gasoline type.
- This engine, which is based on the 3RZ-F engine, offers improved engine performance, drivability, and fuel economy by adopting the following main features:

  1) D-type EFI (Electric Fuel Injection)

  2) ESA (Electric Spark Advance)

  3) ISC (Idle Speed Control)

▶ Specification ◀

Engine			3RZ-FE (Leaded Gasoline Type)	3RZ-F (Leaded Gasoline Type)
No. of Cyls. & Arrangement			4-Cylinder, In-Line	←
Valve Mechanism			16-Valve DOHC, Chain & Gear Drive	←
Combustion Chamber			Pentroof Type	←
Manifolds			Cross-Flow	←
Fuel System			EFI (D-Jetro)	Carburetor
Displacement cm^3 (cu. in.)			2694 (164.4)	←
Bore x Stroke mm (in.)			95.0 x 95.0 (3.74 x 3.74)	←
Compression Ratio			9.5 : 1	8.5 : 1
Max. Output (SAE NET)			108 kW@4800 rpm	93 kW@5200 rpm
Max. Torque (SAE NET)			230 N·m@4000 rpm	216 N·m@3200 rpm
Valve Timing	Intake	Open	2° BTDC	5° BTDC
		Close	48° ABDC	45° ABDC
	Exhaust	Open	42° BBDC	←
		Close	2° ATDC	←
Firing Order			1 – 3 – 4 – 2	←
Fuel Octane Number			91	90
Dry Weight kg (lb)			Approx. 163 (359)	Approx. 165 (364)
Oil Grade			API SJ/SL, EC or ILSAC	←