

OUTLINE

a. 1GR-FE Engine

- i. The 1GR-FE engine is a V-type, 6-cylinder, 4.0-liter, 24-valve DOHC engine. On this engine, the Variable Valve Timing-intelligent (VVT-i) system, Acoustic Control Induction System (ACIS), and the Electronic Throttle Control System-intelligent (ETCS-i) are used. These control functions have been optimized to further improve engine performance and fuel economy, and to reduce exhaust emissions.

Engine Type		1GR-FE
Item	No. of Cyls. and Arrangement	6-cylinder, V-type
	Valve Mechanism	24-valve DOHC, Chain Drive (with VVT-i)
	Displacement	3956 cm ³ (241.4 cu. in.)
	Max. Output [SAE-NET]	170 kW @ 5200 rpm
	Max. Torque [SAE-NET]	360 N*m @ 3800 rpm

b. 1HZ Engine

- i. The 1HZ engine is an in-line 6-cylinder, 4.2-liter OHC 12-valve diesel engine, which is achieved for its combustion qualities of high performance and quiet operation.

Engine Type		1HZ
Item	No. of Cyls. and Arrangement	6-cylinder, In-line
	Valve Mechanism	12-valve OHC, Gear and Belt Drive
	Displacement	4164 cm ³ (254.0 cu. in.)
	Max. Output [SAE-NET]	94 kW @ 3800 rpm*1 96 kW @ 3800 rpm*2
	Max. Torque [SAE-NET]	280 N*m @ 2200 rpm*1 285 N*m @ 2200 rpm*2

HINT:

*1: Models with EGR

*2: Models without EGR

c. 1VD-FTV Engine

- i. The 1VD-FTV engine is newly provided. The 1VD-FTV TOYOTA D-4D (Direct injection 4 stroke common-rail Diesel engine) is V8 4.5 liter, 32-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.

Engine Type		1VD-FTV
Item	No. of Cyls. and Arrangement	8-cylinder, V type
	Valve Mechanism	32-valve, DOHC, Chain and Gear Drive
	Displacement	4461 cm ³ (272.2 cu. in.)
	Max. Output [SAE-NET]	151 kW @ 3400 rpm
	Max. Torque [SAE-NET]	430 N*m @ 1200 to 3200 rpm

d. Manual Transmission

- i. H150F and R151F 5-speed manual transmissions are used.

e. Suspension

- i. A coil spring type rigid axle front suspension is used for the front.
- ii. A leaf spring type rigid axle rear suspension is used for the rear.

f. Brake

- i. On models without ABS, a ventilated disc brake is used for the front brake and a leading-trailing drum brake is used for the rear brake.

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