

2. Major Difference

The major differences between the 1KD-FTV engine on the new Land Cruiser/Land Cruiser Prado and the 1KD-FTV engine on the previous Land Cruiser/Land Cruiser Prado are the following.

System		Outline
Engine Specification		According to various changes, the following specifications are changed. <ul style="list-style-type: none"> ● Max. output and Max. torque ● Engine service mass
Engine Proper	Piston	The strength of the pistons has been optimized through the use of high-strength materials in order to support the improved power output of the engine.
Cooling System		The thickness and fin pitch of the radiator have been changed.
Intake and Exhaust System		<ul style="list-style-type: none"> ● The capacity of the oxidation catalytic converter has been changed to comply with the Euro IV exhaust gas regulations. ● The actuator of the swirl control valve in the intake manifold has been changed. ● The diesel throttle has been changed from the step motor type to a rotary solenoid type. ● A water-cooled EGR cooler with a bypass, and a bypass switching valve have been newly added.
Fuel System		<ul style="list-style-type: none"> ● The port position of the supply pump has been changed. ● Fuel cooler has been newly added. ● A dual tank has been added on the Australia models. ● On the dual tank models, a jet pump is used. In addition, a fuel filter for fuel pump has been provided between the fuel pump and jet pump. ● A fuel filter warning switch has been added to the fuel filter cap on the Australia models.
Engine Control System		<ul style="list-style-type: none"> ● Non-contact type throttle position sensor has been newly added. ● Oil maintenance management system has been newly added on the Europe models. ● A fuel pump control system is used on the Australia models.