HILUX

OUTLINE OF NEW FEATURES

The following changes are made for the new Hilux.

1. Model Line-up

- The 4WD models for Australia equipped with the 1RZ-E and 3RZ-FE engines have been discontinued.
- The 5VZ-FE engine models have been added on Australia models.

2. Interior

Sports type front seats have been provided as standard equipment on the SR grade double-cab model for Australia to enhance its product appeal.

3. 5VZ-FE Engine

- The 5VZ-FE engine is a V6, 3.4-liter, 24-valve DOHC engine. This engine meets the European STEP II regulations.
- This engine is based on the 5VZ-FE engine equipped on the previous Land Cruiser Prado (90 series).

4. 3RZ-FE Engine

On the model for Australia, the material of the valve and the valve seat has been changed to comply with the LPG modification as optional equipment.

5. 1KZ-TE Engine

EGR system with valve position sensor has been used in order to comply with the European STEP II regulations.

6. 5L-E Engine

EGR system has been used in order to comply with the European STEP II regulations.

7. Clutch

The 5VZ-FE engine model uses the same type of clutch as the 3RZ-FE engine model.

8. R150F Manual Transmission

- The R150F manual transmission is used with the 5VZ-FE engine.
- The basic construction and operation are the same as in the R151F manual transmission on the 1KZ-TE engine model. However, the gear ratio has been changed to optimize the engine output characteristics.

▶ Specifications ◀

Model		R150F	R151F
Gear Ratio	1st	3.830	4.313
	2nd	2.062	2.330
	3rd	1.436	←
	4th	1.000	←
	5th	0.838	←
	Reverse	4.220	←
Oil Capacity Liters (US qts, Imp.qts)		2.2 (2.3, 1.9)	←
Oil Viscosity		SAE 75W-90	←
Oil Grade		API GL-4 or 5	←
Dry Weight kg (lb.)		49.3 (108.7)	50.2 (110.7)

9. A340F Automatic Transmission

- The A340F automatic transmission [ECT (Electronically Controlled Transmission)] is used with the 5VZ-FE engine.
- The basic construction and operation are the same as in the A340E automatic transmission of the 3RZ-FE engine model. However, changes have been made to the type of the fluid and the number of discs in the forward and direct clutch in order to optimize the engine output characteristics.

▶ Specifications ◀

Model		A340F	A340E
Gear Ratio	1st	2.804	←
	2nd	1.531	←
	3rd	1.000	←
	4th	0.705	←
	Reverse	2.393	←
Fluid Capacity Liters (US qts, Imp.qts)		9.8 (10.4, 8.6)	7.2 (7.6, 6.3)
Fluid Type		ATF Type T-IV	ATF D-II or equivalent
Dry Weight kg (lb.)		72.7 (160.3)	70.2 (154.8)

▶ **Specifications** ◀

Item				A340F	A340E
Torque Converter		Stall Torque Ratio		1.90	←
C_0	O/D Direct Clutch	The No. of Discs		2	←
C_1	Forward Clutch			6	5
C_2	Direct Clutch			4	3
B_0	O/D Brake			4	←
B_1	2nd Coast Brake	Band Width	mm (in.)	40 (1.57)	←
B_2	2nd Brake	The No. of Discs		5	←
B_3	1st & Reverse Brake			6	←
F_0	O/D One-Way Clutch	The No. of Sprags		24	←
F_1	No.1 One-Way Clutch			22	←
F_2	No.2 One-Way Clutch			28	←
Front Planetary Gear		The No. of Sun Gear Teeth		42	←
		The No. of Pinion Gear Teeth		19	←
		The No. of Ring Gear Teeth		79	←
Rear Planetary Gear		The No. of Sun Gear Teeth		33	←
		The No. of Pinion Gear Teeth		23	←
		The No. of Ring Gear Teeth		79	←
O/D Planetary Gear		The No. of Sun Gear Teeth		33	←
		The No. of Pinion Gear Teeth		23	←
		The No. of Ring Gear Teeth		79	←

10. Transfer

- The VF1A transfer is used in the DLX grade model and the VF1AM transfer is used in the SR grade model with the 5VZ-FE engine.
- The basic construction and operation are the same as in the previous model.

11. Propeller Shaft

As with the previous model, the 5VZ-FE engine model uses front and rear propeller shafts with double-cardan universal joints.

12. Differential

The differential gear ratio has been optimized for use with the 5VZ-FE engine.

Item	Front and Rear
Gear Ratio	4.100

13. Front Drive Shaft

As with the previous model, the 5VZ-FE engine model uses the Rzeppa and tripod type CVJs (Constant Velocity Joints).

14. Suspension

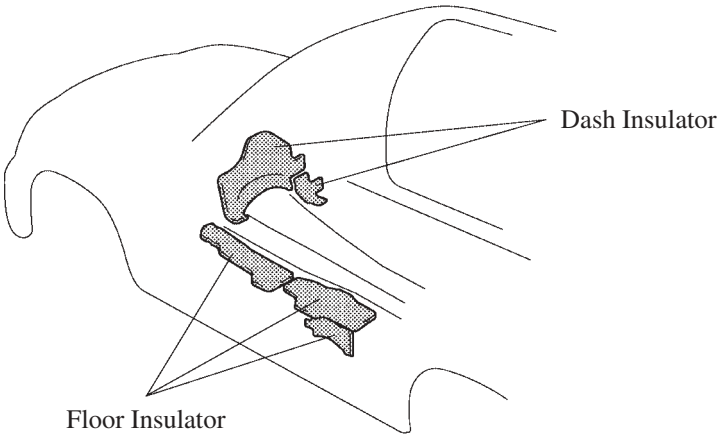
The characteristics of the rear leaf springs and the rear shock absorbers of the 4WD double-cab model for Australia have been optimized to enhance its ride feel.

15. Brake

The 5VZ-FE engine model uses the same brake system as the previous 4WD 3RZ-FE engine model.

16. Body

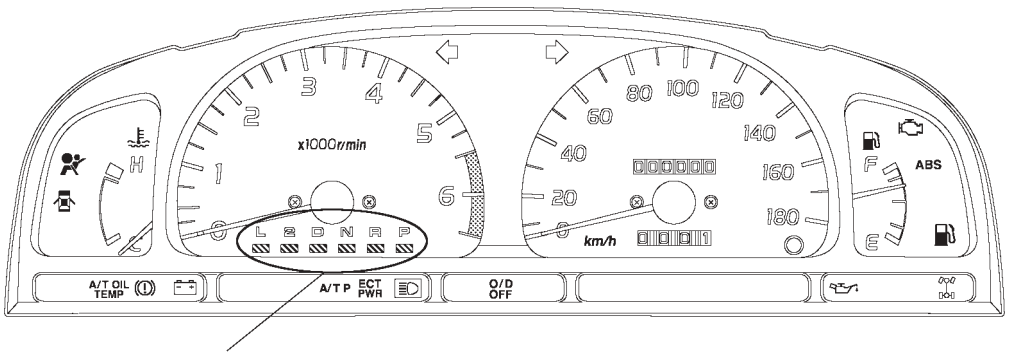
Dash and floor insulators have been provided on the 5VZ-FE engine model to improve its heat insulation performance.



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17. Combination Meter

Automatic transmission indicator lights have been added to the combination meter of the 5VZ-FE engine model with the A340F automatic transaxle.



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