

## ■ A750F AUTOMATIC TRANSMISSION

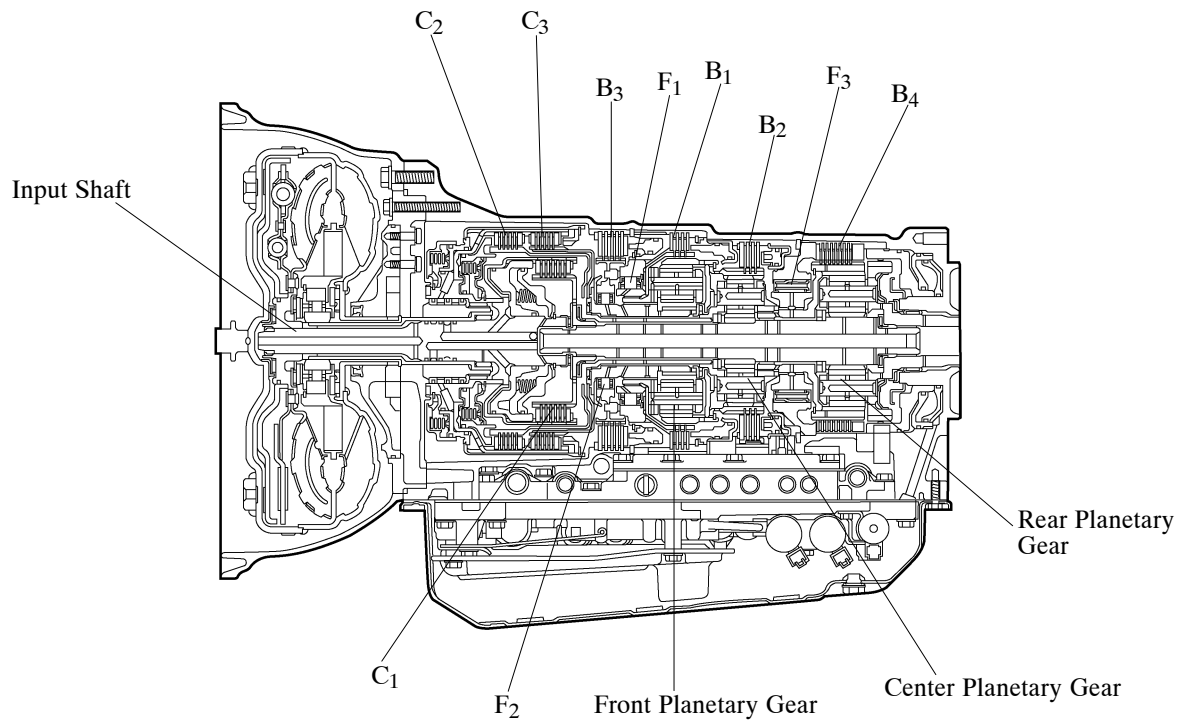
### 1. General

- On the models with the 1GR-FE and 1KD-FTV engines, the A750F, 5-speed Super ECT (Electronically Controlled Transmission) automatic transmission has been adopted.
- On the 1KD-FTV engine model, the engine ECU and the transmission control ECU are separate. The engine ECU and the transmission control ECU exchange information via CAN (Controller Area Network) communication.
- The A750F automatic transmission is already in use on the Land Cruiser (100 series). For details on the basic construction and operation of the A750F, see the Land Cruiser (100 series) NCF (Pub. No. NCF229E and NCF258E). Beware that the flex lockup control is not provided on the models with the 1GR-FE engine.

### ► Specification ◀

Model		New	Previous
Transmission Type		A750F (4WD)	A340F (4WD)
Gear Ratio	1st	3.520	2.804
	2nd	2.042	1.531
	3rd	1.400	1.000
	4th	1.000	0.705
	5th	0.716	—
	Reverse	3.224	2.393
Fluid Capacity Liters (US qts, Imp. qts)		10.9 (11.6, 9.6)	12.3 (13.0, 10.8)
Fluid Type		TOYOTA Genuine ATF WS	TOYOTA Genuine ATF Type T-IV
Weight (Reference)* kg (lb)		87.3 (192.0); 1GR-FE 88.4 (194.5); 1KD-FTV	85.0 (187.4)

\*: Weight shows the figure with the fluid fully filled.



229LC171

### ► Specification ◀

Engine Type			1KD-FTV	1GR-FE
Transmission Type			A750F	A750F
C <sub>1</sub>	No.1 Clutch	The No. of Discs	7	6
C <sub>2</sub>	No.2 Clutch		6	5
C <sub>3</sub>	No.3 Clutch		5	←
B <sub>1</sub>	No.1 Brake		3	←
B <sub>2</sub>	No.2 Brake		3	←
B <sub>3</sub>	No.3 Brake		4	←
B <sub>4</sub>	No.4 Brake		8	←
F <sub>1</sub>	No.1 One-Way Clutch	The No. of Sprags	18	←
F <sub>2</sub>	No.2 One-Way Clutch		25	←
F <sub>3</sub>	No.3 One-Way Clutch		26	←
Front Planetary Gear		The No. of Sun Gear Teeth	40	←
		The No. of Pinion Gear Teeth	Inner	←
			Outer	←
		The No. of Ring Gear Teeth	91	←
Center Planetary Gear		The No. of Sun Gear Teeth	31	←
		The No. of Pinion Gear Teeth	23	←
		The No. of Ring Gear Teeth	77	←
Rear Planetary Gear		The No. of Sun Gear Teeth	25	←
		The No. of Pinion Gear Teeth	19	←
		The No. of Ring Gear Teeth	63	←