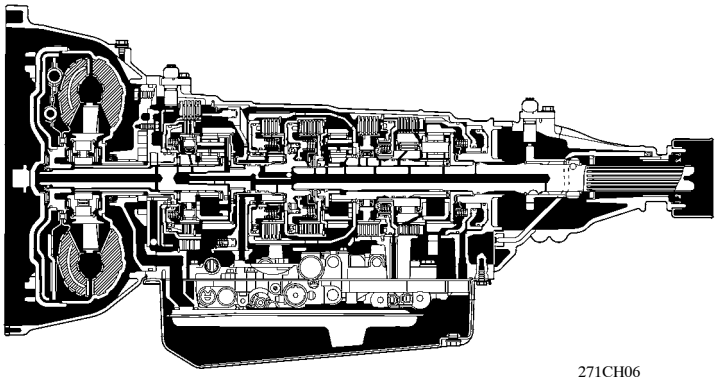
A340E, A340F, A343E AND A343F AUTOMATIC TRANSMISSIONS

■ DESCRIPTION

- The new Hilux uses the A340E, A340F, A343E and A343F automatic transmissions. These automatic transmissions are 4-speed ECT (Electronic Control Transmission).
- For the A340E and A340F automatic transmissions that are used on the models with the 1KD-FTV or 2KD-FTV High Version engine, the ECM and the ECT ECU are separate. The ECM and the ECT ECU exchange information via CAN (Controller Area Network) communication.
- The automatic transmissions and their provisions are outlined below.

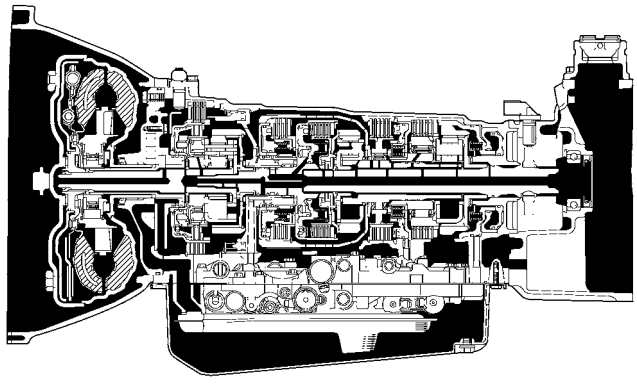
Transmission Type	A340E	A340F
Drive Type	2WD	4WD
Engine Type	1KD-FTV	1KD-FTV
		2KD-FTV High Version
Control ECU	ECT ECU	ECT ECU

Transmission Type	A343E	A343F
Drive Type	2WD	4WD
Engine Type	2TR-FE	2TR-FE
	2TR-FBE	
Control ECU	ECM	ECM



271CH06

A340E/A343E Automatic Transmission



271CH07

A340F/A343F Automatic Transmission

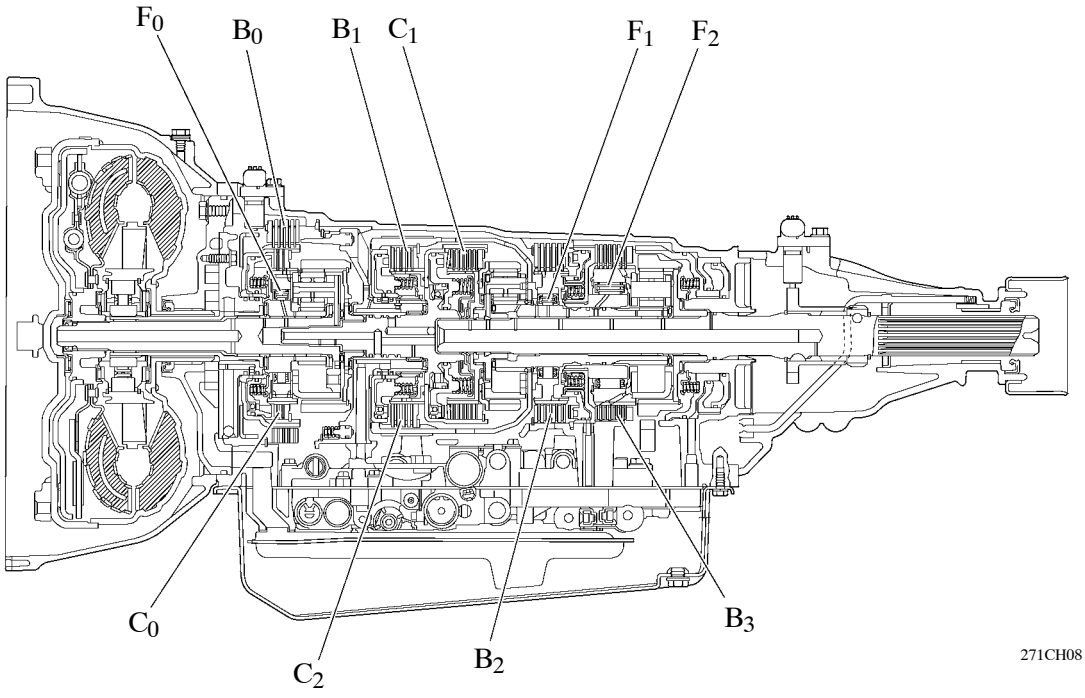
▶ Specifications ◀

Transmission Type		A340E	A340F	
Engine type		1KD-FTV	1KD-FTV	2KD-FTV High Version
Gear Ratio	1st	2.804	←	←
	2nd	1.531	←	←
	3rd	1.000	←	←
	4th	0.705	←	←
	Reverse	2.393	←	←
Fluid Capacity Liters (US qts, Imp. qts)		10.1 (10.7, 9.0)	←	←
Fluid Type		Toyota Genuine ATF Type T-IV	←	←
Weight (Reference)* kg (lb)		80.1 (176.6)	80.9 (178.4)	80.5 (177.5)

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

Transmission Type		A343E	A343F
Engine type		2TR-FE, 2TR-FBE	2TR-FE
Gear Ratio	1st	2.804	←
	2nd	1.531	←
	3rd	1.000	←
	4th	0.753	←
	Reverse	2.393	←
Fluid Capacity Liters (US qts, Imp. qts)		10.1 (10.7, 9.0)	←
Fluid Type		Toyota Genuine ATF Type T-IV	←
Weight (Reference)* kg (lb)		79.9 (176.2)	81.0 (178.6)

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



▶ Clutch, Brake and Planetary Gear Specifications ◀

Transmission Type			A340E, A340F	
Engine Type			1KD-FTV	2KD-FTV High Version
C_0	OD Direct Clutch	The No. of Discs	2	←
C_1	Forward Clutch		6	5
C_2	Direct Clutch		4	←
B_0	OD Brake		4	3
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		7	6
F_0	OD One-way Clutch	The No. of Sprags	24	20
F_1	No. 1 One-way Clutch		22	18
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	←
OD Planetary Gear		The No. of Sun Gear Teeth	33	←
		The No. of Pinion Gear Teeth	23	←
		The No. of Ring Gear Teeth	79	←

(Continued)

Transmission Type			A343E	A343F
Engine Type			2TR-FE, 2TR-FBE	2TR-FE
C_0	OD Direct Clutch	The No. of Discs	2	←
C_1	Forward Clutch		5	←
C_2	Direct Clutch		3	←
B_0	OD 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	OD One-way Clutch	The No. of Sprags	20	←
F_1	No. 1 One-way Clutch		18	←
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	←
OD Planetary Gear		The No. of Sun Gear Teeth	31	←
		The No. of Pinion Gear Teeth	32	←
		The No. of Ring Gear Teeth	95	←