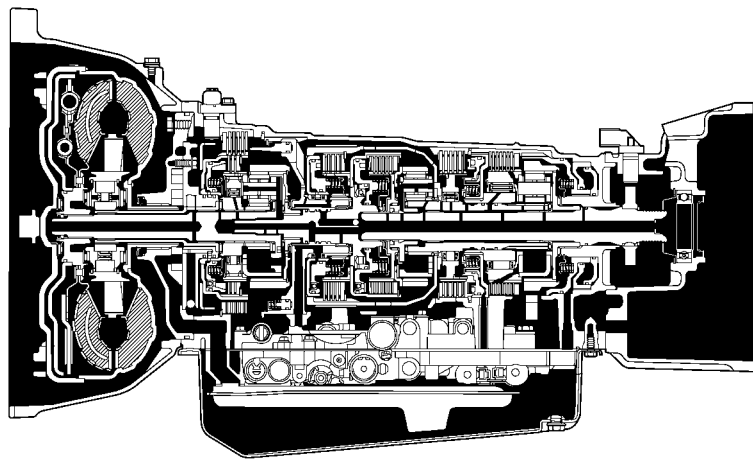


A340F AUTOMATIC TRANSMISSION

DESCRIPTION

- The A340F automatic transmission has been adopted on the 1GR-FE engine model. This automatic transmission is 4-speed ECT (Electronic Control Transmission).
- The A340F automatic transmission has basically the same structure and operation as the A343F on the current model, however some of the components and some of electronic control system vary from the A343F.
- The following table refers to the difference between the A340F and A343F.

Item	Outline
Planetary Gear Unit	<ul style="list-style-type: none">• The number of discs for B₂ (2nd) and B₃ (1st & reverse) brakes• The gear ratio for 4th (Overdrive).
Fluid Capacity	Fluid capacity is different.
Electronic Control System	<ul style="list-style-type: none">• Input speed sensor has been added to detect the transmission input speed, in order to ensure shift control with improved shift feel.• DTC (67/ P0717) of the input speed sensor has been added.• DTCs (Diagnostic Trouble Codes) have been added along with the addition of the shift solenoid valve SLT.• All the DTCs (Diagnostic Trouble Codes) have been made to correspond to the SAE controlled codes. Some of the DTCs have been further divided into smaller detection areas than in the past, and new DTCs have been assigned to them.



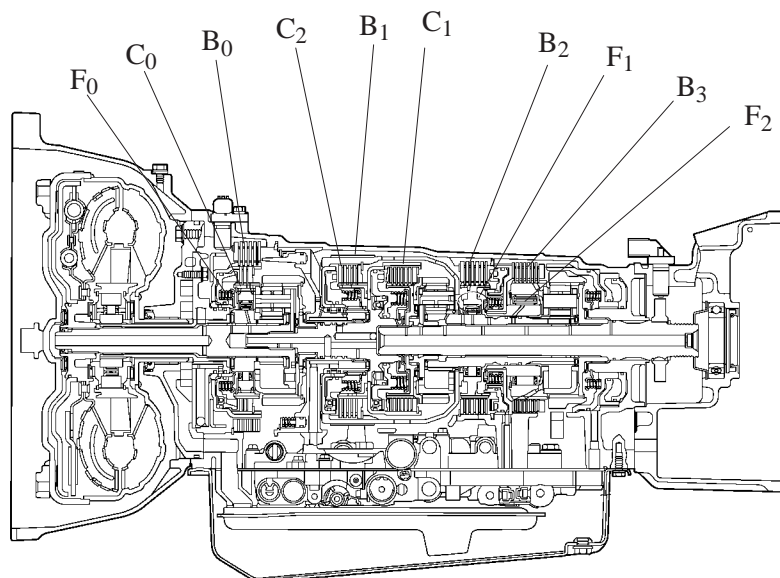
238CH02

Specifications

Engine		1GR-FE	3RZ-FE, 1KZ-TE, 1KD-FTV
Transmission Type		A340F	A343F
Gear Ratio	1st	2.804	←
	2nd	1.531	←
	3rd	1.000	←
	4th (Overdrive)	0.705	0.753
	Reverse	2.393	←
Fluid Capacity Liters (US qts, Imp.qts)		12.3 (13.0, 10.8)	10.1 (10.7, 9.0)
Fluid Type		ATF Type T-IV	←
Weight (Reference)* kg (lb)		85.0 (187.4)	81.0 (178.6)

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

► Planetary Gear Unit Specification ◀



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Item			A340F (1GR-FE)	A343F (3RZ-FE)	A343F (1KZ-TE) (1KD-FTV)
C ₀	OD Direct Clutch	No. of Discs	2	←	←
C ₁	Forward Clutch		6	←	←
C ₂	Direct Clutch		4	←	←
B ₀	OD Brake		5	←	←
B ₁	2nd Coast Brake	Band Width mm (in.)	40 (1.57)	←	←
B ₂	2nd Brake	No. of Discs	5	4	4
B ₃	1st & Reverse Brake		7	6	6
F ₀	OD One-Way Clutch		24	←	←
F ₁	No.1 One-Way Clutch		22	←	←
F ₂	No.2 One-Way Clutch		28	←	←
Front Planetary Gear		No. of Sun Gear Teeth	42	←	←
		No. of Pinion Gear Teeth	19	←	←
		No. of Ring Gear Teeth	79	←	←
Rear Planetary Gear		No. of Sun Gear Teeth	33	←	←
		No. of Pinion Gear Teeth	23	←	←
		No. of Ring Gear Teeth	79	←	←
OD Planetary Gear		No. of Sun Gear Teeth	33	31	31
		No. of Pinion Gear Teeth	23	33	33
		No. of Ring Gear Teeth	79	95	95