

DESCRIPTION

General

The A340E is a 4-speed, Electronic Controlled Transmission (hereafter called ECT) developed for use with high-performance engine. A lock-up mechanism is built into the torque converter.

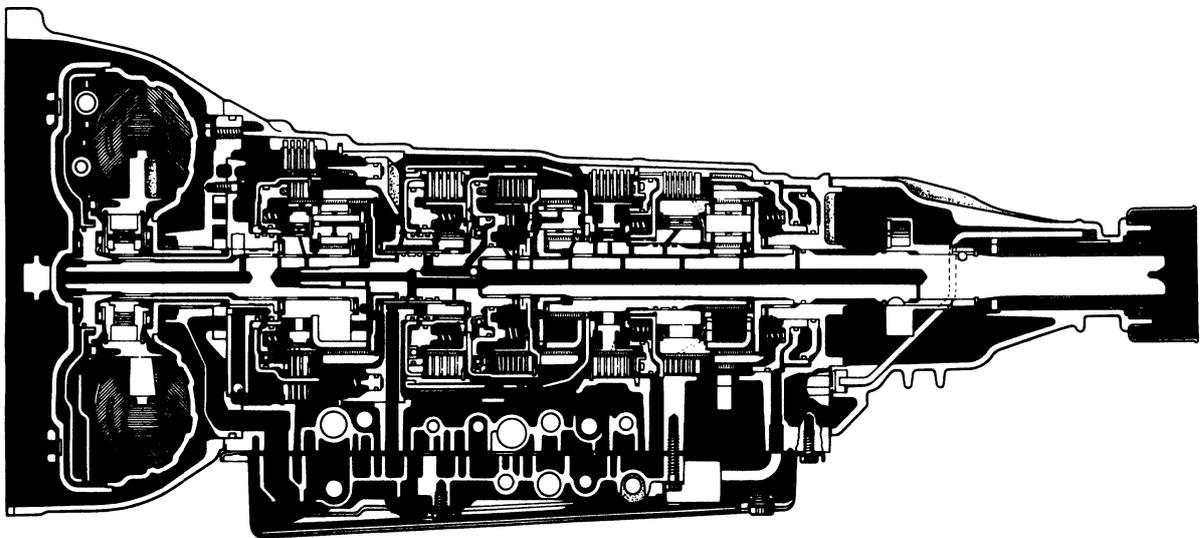
The A340F automatic transmission is a 4-speed automatic transmission with mechanically controlled 4WD transfer, developed with the aim of producing an easy-driving 4WD vehicle. The transmission section has fundamentally the same construction as the A340E automatic transmission.

The A340H automatic transmission is a 4-speed automatic transmission with electronically controlled 4WD transfer, developed with the aim of producing an easy driving 4WD vehicle.

The transfer section consists of planetary gears, hydraulic clutches and hydraulic brake. The operation of these is fully controlled by the Engine & ECT ECU.

The A340E, A340F and A340H automatic transmissions are mainly composed of the torque converter, the overdrive (hereafter called O/D) planetary gear unit, 3-speed planetary gear unit, the hydraulic control system and the electronic control system.

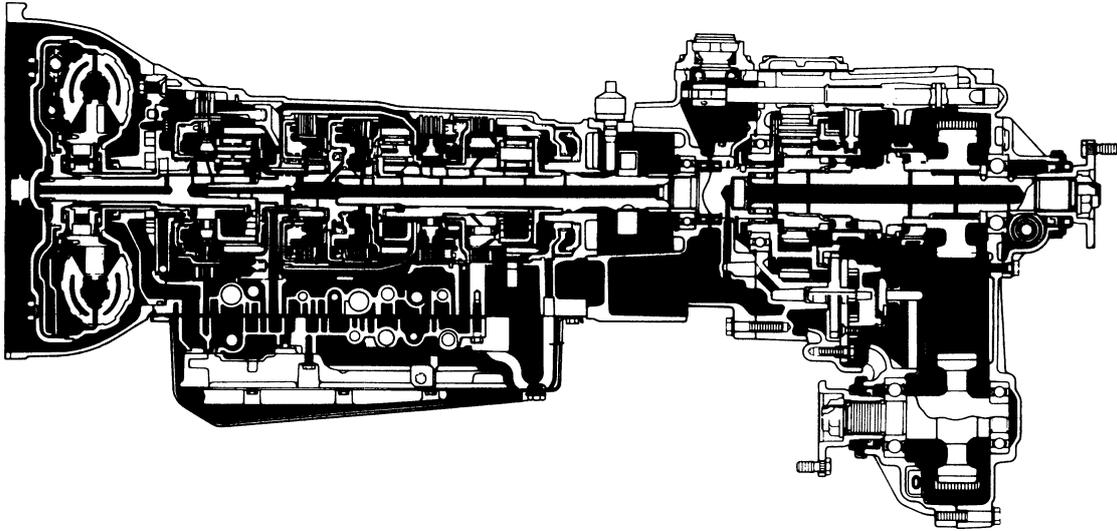
Sectional View
(A340E)



AT4366

Sectional View

(A340F)



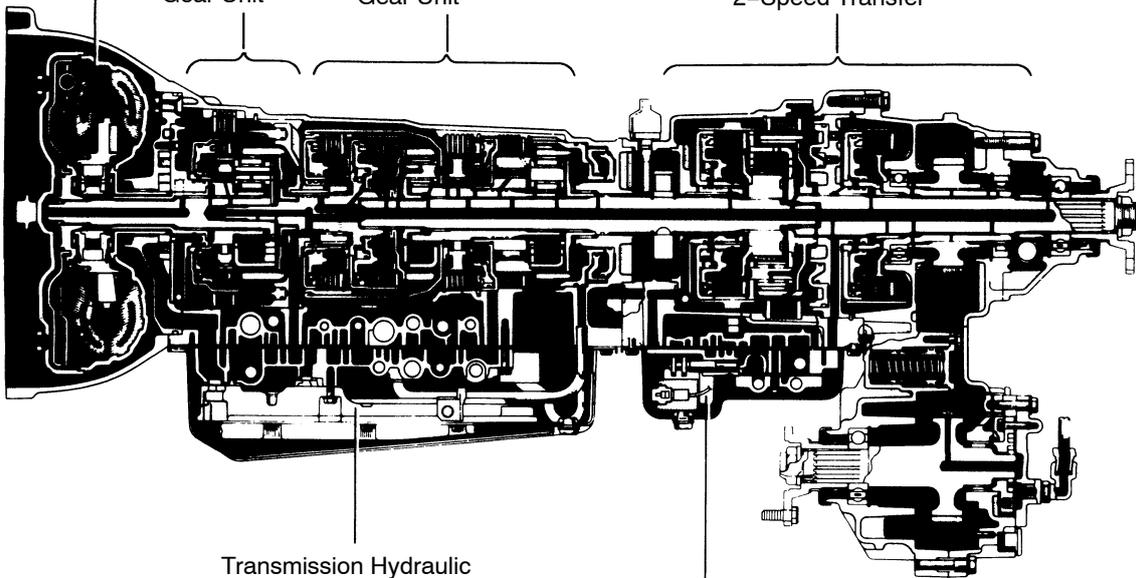
(A340H)

Torque Converter with
Lock-Up Clutch

O/D Planetary
Gear Unit

3-Speed Planetary
Gear Unit

2-Speed Transfer



Transmission Hydraulic
Control Unit

Transfer Hydraulic
Control Unit

General Specifications

Type of Transmission		A340E	
Type of Engine		7M-GE, 7M-GTE, 3VZ-E	
Torque Converter	Stall Torque Ratio		Truck : C & C 2.0 : 1 Others 2.1 : 1
	Lock-Up Mechanism		Equipped
Gear Ratio	1st Gear		2.804
	2nd Gear		1.531
	3rd Gear		1.000
	O/D Gear		0.705
	Reverse Gear		2.393
Plates (Disc/Plate)	C ₀	O/D Direct Clutch	2/2
	C ₁	Forward Clutch	5/5
	C ₂	Direct Clutch	4/4
	B ₂	2nd Brake	5/5
	B ₃	1st & Reverse Brake	6/6
	B ₀	O/D Brake	4/3
Second Coast Brake Band Width		mm (in.)	40 (1.57)
ATF	Type		ATF DEXRON® II
	Capacity liters (US qts, Imp. qts)	Total	7.2 (7.6, 6.3)
		Drain and Refill	1.6 (1.7, 1.4)

General Specifications (Cont'd)

Type of Transmission		A340F	
Type of Engine		22R-E	
Torque Converter	Stall Torque Ratio	2.3 : 1	
	Lock-Up Mechanism	Equipped	
Gear Ratio	1st Gear	2.804	
	2nd Gear	1.531	
	3rd Gear	1.000	
	O/D Gear	0.705	
	Reverse Gear	2.393	
Plates (Disc/Plate)	C ₀	O/D Direct Clutch	2/2
	C ₁	Forward Clutch	5/5
	C ₂	Direct Clutch	4/4
	B ₂	2nd Brake	5/5
	B ₃	1st & Reverse Brake	6/6
	B ₀	O/D Brake	4/3
Second Coast Brake Band Width		mm (in.)	40 (1.57)
ATF	Type		ATF DEXRON® II
	Capacity liters (US qts, Imp. qts)	Total	7.6 (8.0, 6.7)
		Drain and Refill	1.6 (1.7, 1.4)

General Specifications (Cont'd)

Type of Transmission			A340H
Type of Engine			3VZ-E
Torque Converter		Stall Torque Ratio	2.1 : 1
		Lock-Up Mechanism	Equipped
Gear Ratio	Transmission	1st Gear	2.804
		2nd Gear	1.531
		3rd Gear	1.000
		O/D Gear	0.705
		Reverse Gear	2.393
	Transfer	High (H2, H4)	1.000
		Low (L4)	2.659
Number of Discs and Plates (Disc /Plate)	Transmission	C ₁ Forward Clutch	4/4
		C ₂ Direct Clutch	3/3
		C ₀ O/D Direct Clutch	1/1
		B ₂ 2nd Brake	4/4
		B ₃ 1st & Reverse Brake	5/5
		B ₀ O/D Brake	3/2
	Transfer	C ₃ Transfer Direct Clutch	6/6
		C ₄ Front Drive Clutch	6/6
		B ₄ Low Speed Brake	7/6
Second Coast Brake Band Width mm (in.)			40 (1.57)
ATF	Type		ATF DEXRON® II
	Capacity liter (US qts, Imp. qts)	Total	Transmission: 10.3 (10.9, 9.1), Transfer: 1.1 (1.2, 1.0)
		Drain & Refill	Transmission: 4.5 (4.8, 4.0), Transfer: 0.8 (0.8, 0.7)