

AUTOMATIC TRANSMISSION (A340E)

DESCRIPTION

General

The A340E automatic transmission is a 4-speed Electronically Controlled Transmission with an intelligent control (hereafter called ECT-i) like the A341 E automatic transmission used in the LS400. The A340E automatic transmission has the following features.

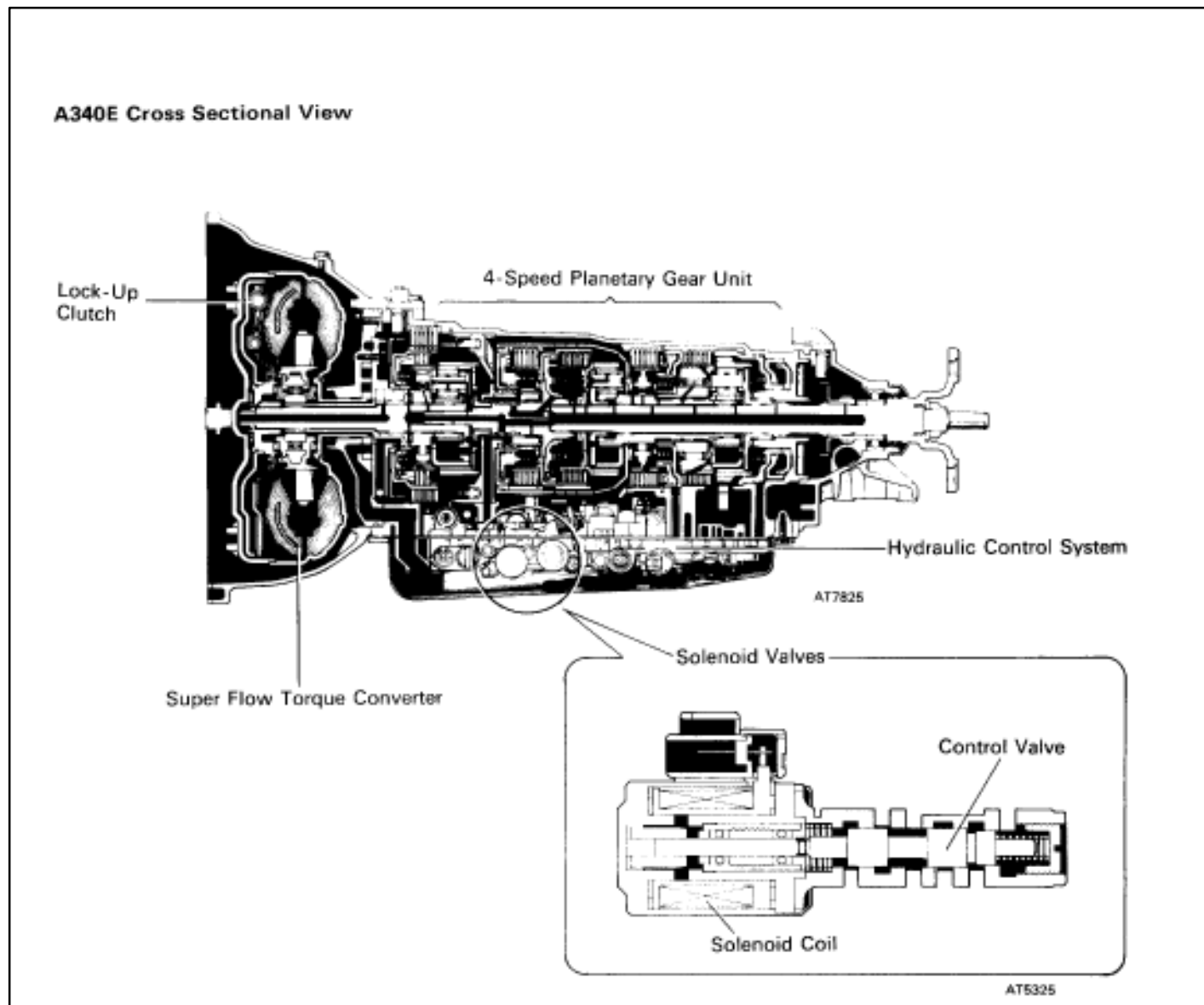
- When shifting the transmission, the engine torque is controlled and the clutch hydraulic pressure in the transmission is electronically controlled to reduce transmission shift shock.
- A new type of ATF (ATF Type T-II) is used which provides improved shifting characteristics and prevents deterioration in the ATF over time.

HINT: For the A340E automatic transmission, use ATF Type T-II or equivalent.

- A super flow torque converter is used to improve the transmission efficiency.

The A340E automatic transmission is mainly composed of the torque converter with lock-up clutch, 4-speed planetary gear unit, the hydraulic control system and the electronic control system.

To minimize the possibility of incorrect operation of the automatic transmission, a shift lock mechanism has also been added.



General Specifications

Type of Transmission			A340E
Type of Engine			1UZ-FE
Torque Converter	Stall Torque Ratio		1.900: 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
Number of Discs and Plates (Disc/Plate)	C	Forward Clutch	6/6
	C	Direct Clutch	4/4
	C	O/D Direct Clutch	2/2
	B	2nd Brake	5/5
	B	1st and Reverse Brake	7/7
	B	O/D Brake	5/4
2nd Coast Brake (B) Band Width mm (in.)			40 (1.57)
Number of Sprags	F	No. 1 One-Way Clutch	22
	F	No. 2 One-Way Clutch	28
	F	O/D One-Way Clutch	24
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
O/D Planetary Gear	No. of Sun Gear Teeth		33
	No. of Pinion Gear Teeth		23
	No. of Ring Gear Teeth		79
ATF	Type		ATF Type T-II or equivalent
	Capacity liter (US qts, Imp. qts)	Total	8.2 (8.7, 7.2)
		Drain and Refill	1.9 (2.0, 1.7)