

► Specifications ◀

Model Transmission Type Item		New	Previous	LS400
		A650E	A343E	A650E
Gear Ratio	1st	3.357	2.804	3.357
	2nd	2.180	1.531	2.180
	3rd	1.424	1.000	1.424
	4th	1.000	0.753	1.000
	5th	0.753	—	0.753
	Reverse	3.431	2.393	3.431
Fluid Capacity Liters (US qts, Imp. qts)		7.45 (7.9, 6.6)	7.9 (8.4, 7.0)	8.5 (9.0, 7.5)
Fluid Type		ATF Type T-IV or Equivalent	ATF Type T-II or Equivalent	ATF Type T-IV or Equivalent

■ TORQUE CONVERTER

The torque converter supports flex lock-up clutch control, thus improving the fuel economy.

■ PLANETARY GEAR UNIT

1. General

A new gear train construction, which uses 4 sets of planetary gear units, has been adopted.

Also, the 5-speed configuration has been achieved without increasing the number of one-way clutches, thus creating a 5-speed automatic transmission with practically the same size as the previous 4-speed automatic transmission.

For the purpose of improving dynamic performance and fuel economy, the gear ratio from the 1st to the 5th gear has been changed from a wide to a close gear ratio.

The 1st gear ratio has been increased to improve the acceleration performance during the startoff and in the low-to medium-speed range.

Also, the close gear ratio made shifting smoother to realize a smooth ride.

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Model			New	Previous	LS400
Transmission Type			A650E	A343E	A650E
Item					
C ₀	OD Direct Clutch	The No. of Discs	2	←	←
C ₁	Forward Clutch		5	5	6
C ₂	Direct Clutch		4	3	5
B ₀	OD Brake		3	←	4
B ₁	3rd Coast Brake 2nd Coast Brake*	Band Width mm (in.)	40 (1.57)	←	←
B ₂	3rd Brake 2nd Brake*	The No. of Discs	4	5	←
B ₃	2nd Brake 1st & Reverse Brake*		5	6	5
B ₄	1st & Reverse Brake		5	—	6
F ₀	OD One-Way Clutch	The No. of Sprags	20	24	←
F ₁	No. 1 One-Way Clutch		16	18	20
F ₂	No. 2 One-Way Clutch		24	28	24
OD Planetary Gear		The No. of Sun Gear Teeth	31	←	←
		The No. of Pinion Gear Teeth	32	←	←
		The No. of Ring Gear Teeth	95	←	←
Front Planetary Gear		The No. of Sun Gear Teeth	41	42	41
		The No. of Pinion Gear Teeth	16	19	16
		The No. of Ring Gear Teeth	73	79	73
Center Planetary Gear		The No. of Sun Gear Teeth	31	—	31
		The No. of Pinion Gear Teeth	21	—	21
		The No. of Ring Gear Teeth	73	—	73
Rear Planetary Gear		The No. of Sun Gear Teeth	28	33	28
		The No. of Pinion Gear Teeth	19	23	19
		The No. of Ring Gear Teeth	66	79	66

*: A343E Automatic Transmission