

■ PLANETARY GEAR UNIT

1. General

The planetary gear unit of the A650E automatic transmission that has been adopted on the new GS430 is based on the A650E of the previous GS300. The gears have been strengthened, the clutch and brake discs have been optimized, and the construction of the solenoid valve has been optimized in accordance with the output characteristics of the new engine. On the new GS300, the specs of the previous model continue to be applied.

► Specifications ◀

Model			New		Previous
			GS430	GS300	GS300
C ₀	OD Direct Clutch	The No. of Discs	2	←	←
C ₁	Forward Clutch		6	5	←
C ₂	Direct Clutch		5	4	←
B ₀	OD Brake		4	3	←
B ₁	3rd Coast Brake	Band Width mm (in.)	40 (1.57)	←	←
B ₂	3rd Brake	The No. of Discs	5	4	←
B ₃	2nd Brake		6	5	←
B ₄	1st & Reverse Brake		6	5	←
F ₀	OD One-Way Clutch	The No. of Sprags	24	20	←
F ₁	No.1 One-Way Clutch		20	16	←
F ₂	No.2 One-Way Clutch		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	←	←
		The No. of Pinion Gear Teeth	16	←	←
		The No. of Ring Gear Teeth	73	←	←
Center Planetary Gear		The No. of Sun Gear Teeth	31	←	←
		The No. of Pinion Gear Teeth	21	←	←
		The No. of Ring Gear Teeth	73	←	←
Rear Planetary Gear		The No. of Sun Gear Teeth	28	←	←
		The No. of Pinion Gear Teeth	19	←	←
		The No. of Ring Gear Teeth	66	←	←