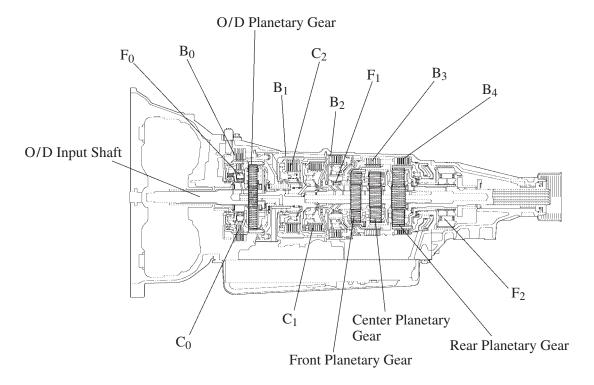
■ PLANETARY GEAR UNIT

1. General

- The planetary gear unit of the A650E automatic transmission that has been adopted on the IS300/IS300 SportCross is the same as in the A650E automatic transmission of the GS300.
- Mechanical loss has been reduced by changing C₀, C₂ clutch seal ring shape and decreasing the clutch contact area and fuel consumption improved.



204CH02

▶ Specifications **◄**

		Model	IS300/ IS300 SportCross	GS300	
Torq	ue Con	verter	Stall Torque Ratio	1.90	←
	C ₀	O/D Direct Clutch		2	←
	C_1	Forward Clutch	The No. of Discs	5	←
	C_2	Direct Clutch	I file No. of Discs	4	←
	B_0	O/D Brake	3	←	
	B ₁	3rd Coast Brake	Band Width mm (in.)	40 (1.57)	←
	B ₂	3rd Brake		4	←
	В3	2nd Brake	5	+	
	B ₄	1st & Reverse Brake		5	+
	F ₀	O/D One-way Clutch		20	←
	F ₁	No.1 One-way Clutch	The No. of Sprags	16	←
	F ₂	No.2 One-way Clutch		24	←
			The No. of Sun Gear Teeth	31	←
Planetary Gear Unit	O/D	Planetary Gear	The No. of Pinion Gear Teeth	32	←
			The No. of Ring Gear Teeth	95	←
			The No. of Sun Gear Teeth	41	←
	Fron	t Planetary Gear	The No. of Pinion Gear Teeth	16	←
			The No. of Ring Gear Teeth	73	←
			The No. of Sun Gear Teeth	31	←
	Cent	er Planetary Gear	The No. of Pinion Gear Teeth	21	←
			The No. of Ring Gear Teeth	73	←
			The No. of Sun Gear Teeth	28	←
	Rear	Planetary Gear	The No. of Pinion Gear Teeth	19	←
			The No. of Ring Gear Teeth	66	←

2. Motive Power Transmission

▶ Operating Conditions **◄**

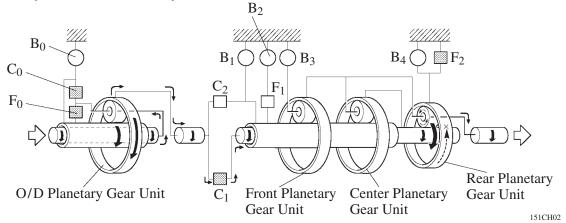
Shift	G	Solenoid	Solenoid	Solenoid	Solenoid				_	_		_	_	_	_	
Lever Position	Gear	Valve No.1	Valve No.2	Valve No.3	Valve No.4	C_0	C_1	C_2	B_0	B ₁	B_2	B ₃	B_4	F_0	F ₁	F ₂
1 OSITIOII																
P	Park	ON	OFF	ON	OFF											
R	Reverse	ON	OFF	OFF	OFF											
N	Neutral	ON	OFF	ON	OFF											
	1st	ON	OFF	OFF	OFF											
	2nd	ON	ON	OFF	OFF							•				
D M (5)*	3rd	OFF	ON	OFF	OFF											
WI (3)	4th	OFF	OFF	ON	OFF			•			0			•		
	5th	OFF	OFF	OFF	ON			•	•		\circ					
	1st	ON	OFF	OFF	OFF									•		•
3	2nd	ON	ON	OFF	OFF							•				
	3rd	OFF	ON	ON	OFF					•				•		
2	1st	ON	OFF	ON	OFF	•	•							•		
	2nd	ON	ON	OFF	OFF		•					•		•		
L	1st	ON	OFF	OFF	OFF								•	•		

• : Operation

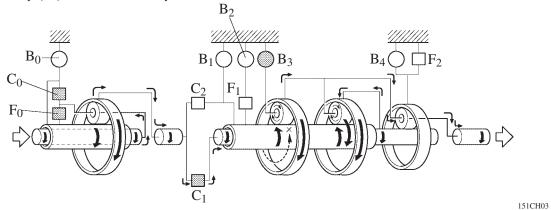
○: Operate but is not related to power transmission

*: When the shift lever position is "M" and the gear position indicator shows "5"

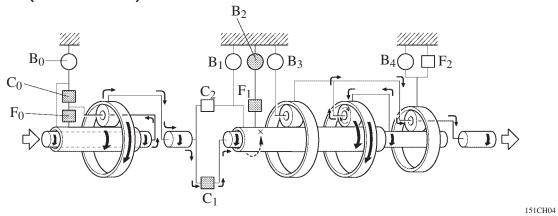
1st Gear (D, 4, 3 or 2 Position)



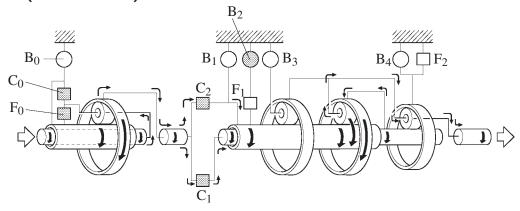
2nd Gear (D, 4, 3 or 2 Position)



3rd Gear (D or 4 Position)

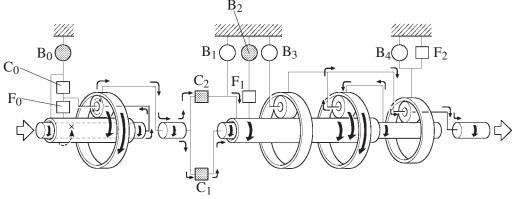


4th Gear (D or 4 Position)



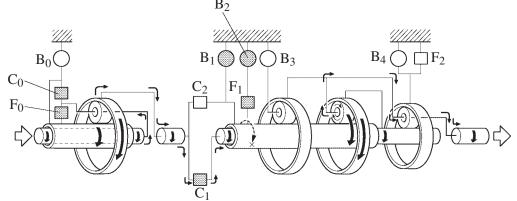
151CH05

5th Gear (D Position)



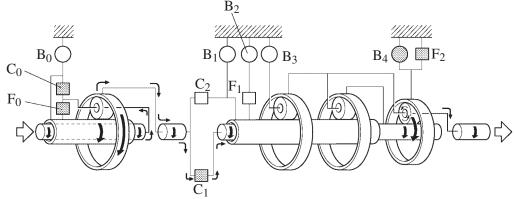
151CH06

3rd Gear (3 Position)



189CH03

1st Gear (L Position)



189CH04

