

# EC-AT OPERATION CHART

B3E051701030A05

## 4AT

position/Range	Mode	Gear position		Shift pattern			Transaxle						Operation of shift solenoid					
				Shift	TCC	Engine brake	Forward clutch	3-4 clutch	Reverse clutch	2-4 brake band		Low and reverse brake	One-way clutch	Solenoid valve (duty-cycle type)			Solenoid valve (ON / OFF type)	
										Applied	Released			Shift solenoid A	Shift solenoid B	Shift solenoid C	Shift solenoid D	Shift solenoid E
P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ON	OFF	
R	-	Reverse	2.648	-	-	×	-	-	×	-	-	×	-	OPEN	OPEN	OPEN	OFF	OFF
N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ON	OFF	
D	POWER/ NORMAL	1GR	2.816	↑	-	-	×	-	-	-	-	⊗	OPEN	CLOSED	CLOSED	OFF	OFF	
		2GR	1.497	↑	-	×	×	-	-	×	-	-	OPEN	OPEN	CLOSED	OFF	OFF	
		3GR	1.000	↑	-	×	×	×	-	×	×	-	OPEN	OPEN	OPEN	OFF	OFF	
		4GR	0.725	↑	-	×	-	×	-	×	-	-	CLOSED	OPEN	OPEN	ON	OFF	
		4GR +2 TCC ON	0.725	-	×	×	-	×	-	×	-	-	CLOSED	OPEN	OPEN	ON	ON	
	HOLD	2GR	1.497	↑	-	×	×	-	-	×	-	-	OPEN	OPEN	CLOSED	OFF	OFF	
		3GR	1.000	↑	-	×	×	×	-	×	×	-	OPEN	OPEN	OPEN	OFF	OFF	
		4GR +3	0.725	↑	-	×	-	×	-	×	-	-	CLOSED	OPEN	OPEN	ON	OFF	
S	Non- HOLD	1GR	2.816	↑	-	-	×	-	-	-	-	⊗	OPEN	CLOSED	CLOSED	OFF	OFF	
		2GR	1.497	↑	-	×	×	-	-	×	-	-	OPEN	OPEN	CLOSED	OFF	OFF	
		3GR	1.000	↑	-	×	×	×	-	×	×	-	OPEN	OPEN	OPEN	OFF	OFF	
		4GR +3	0.725	↑	-	×	-	×	-	×	-	-	CLOSED	OPEN	OPEN	ON	OFF	
	HOLD	2GR	1.497	↑	-	×	×	-	-	×	-	-	OPEN	OPEN	CLOSED	OFF	OFF	
		3GR +3	1.000	↑	-	×	×	×	-	×	×	-	OPEN	OPEN	OPEN	OFF	OFF	
		4GR +3	0.725	↑	-	×	-	×	-	×	-	-	CLOSED	OPEN	OPEN	ON	OFF	
		4GR +3	0.725	↑	-	×	-	×	-	×	-	-	CLOSED	OPEN	OPEN	ON	OFF	
L	Non- HOLD	1GR	2.816	↑	-	×	×	-	-	-	-	×	⊗	OPEN	OPEN	CLOSED	ON	ON
		2GR	1.497	↑	-	×	×	-	-	×	-	-	OPEN	OPEN	CLOSED	OFF	OFF	
		3GR +3	1.000	↑	-	×	×	×	-	×	×	-	OPEN	OPEN	OPEN	OFF	OFF	
		4GR +3	0.725	↑	-	×	-	×	-	×	-	-	CLOSED	OPEN	OPEN	ON	OFF	
	HOLD	1GR	2.816	↑	-	×	×	-	-	-	-	×	⊗	OPEN	OPEN	CLOSED	ON	ON
		2GR +3	1.497	↑	-	×	×	-	-	×	-	-	OPEN	OPEN	CLOSED	OFF	OFF	
		3GR +3	1.000	↑	-	×	×	×	-	×	×	-	OPEN	OPEN	OPEN	OFF	OFF	
		4GR +3	0.725	↑	-	×	-	×	-	×	-	-	CLOSED	OPEN	OPEN	ON	OFF	

+1: Automatically switches between POWER and NORMAL modes according to accelerator pedal depressing speed.  
+2: Performs TCC operation in NORMAL mode.  
+3: To prevent engine overspeed inhibits downshift until the engine speed is reduced to the preset speed.  
×: Operating  
⊗: Transmits the torque only when driving.  
OPEN: Engages the line pressure to the clutch pressure.  
CLOSED: Drains the clutch pressure.  
ON: Engages the output port and the supply port (Solenoid reducing pressure).  
OFF: Engages the output port and the drain port (Drains the output port).

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## Sport AT

Position/Range	Mode	Gear position		Shift pattern			Transaxle							Operation of shift solenoid				
				Shift	TCC	Engine brake	Forward clutch	3-4 clutch	Reverse clutch	2-4 brake band		Low and reverse brake	One-way clutch	Solenoid valve (duty-cycle type)			Solenoid valve (ON / OFF type)	
										Applied	Released			Shift solenoid A	Shift solenoid B	Shift solenoid C	Shift solenoid D	Shift solenoid E
P	-	Neutral	-	-										-	-	-	ON	OFF
R	-	Reverse	2.648	-		×			×			×		OPEN	OPEN	OPEN	OFF	OFF
N	-	Neutral	-	-										-	-	-	ON	OFF
D	POWER/ NORMAL	1GR	2.816	↑			×						⊗	OPEN	CLOSE	CLOSE	OFF	OFF
		2GR	1.497	↑		×	×			×				OPEN	OPEN	CLOSE	OFF	OFF
		3GR	1.000	↑		×	×	×		×	×			OPEN	OPEN	OPEN	OFF	OFF
		4GR	0.725	↓		×		×		×				CLOSE	OPEN	OPEN	ON	OFF
		4GR TCC ON	0.725		×	×		×		×				CLOSE	OPEN	OPEN	ON	ON
M	MANUAL	1GR	2.816	↑ ↓		×	×					×	⊗	OPEN	OPEN	CLOSE	ON	ON
		2GR	1.497	↑ ↓		×	×			×				OPEN	OPEN	CLOSE	OFF	OFF
		3GR	1.000	↑ ↓		×	×	×		×	×			OPEN	OPEN	OPEN	OFF	OFF
		4GR	0.725	↑ ↓		×		×		×				CLOSE	OPEN	OPEN	ON	OFF
		4GR TCC ON	0.725		×	×		×		×				CLOSE	OPEN	OPEN	ON	ON

↑ : Automatic shift according to set speed and throttle opening angle

↓ : Manual shift based on selector lever operation

↑ ↓ : Consecutive shift by tapping selector lever two times in the down-shift (—) direction or up-shift (+) direction

⬆ : Automatically switches between POWER and NORMAL modes according to accelerator pedal depressing speed.

⬆ : Performs TCC operation in NORMAL mode.

⬆ : Indicates operation although the band servo remains deactivated due to the large area of the release pressure side.

× : Operating

⊗ : Transmits the torque only when driving.

OPEN: Engages the line pressure to the clutch pressure (Solenoid de-energized).

CLOSE: Drains the clutch pressure (Solenoid energized).

ON: Engages the output port and the supply port (Solenoid reducing pressure).

OFF: Engages the output port and the drain port (Drains the output port).

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