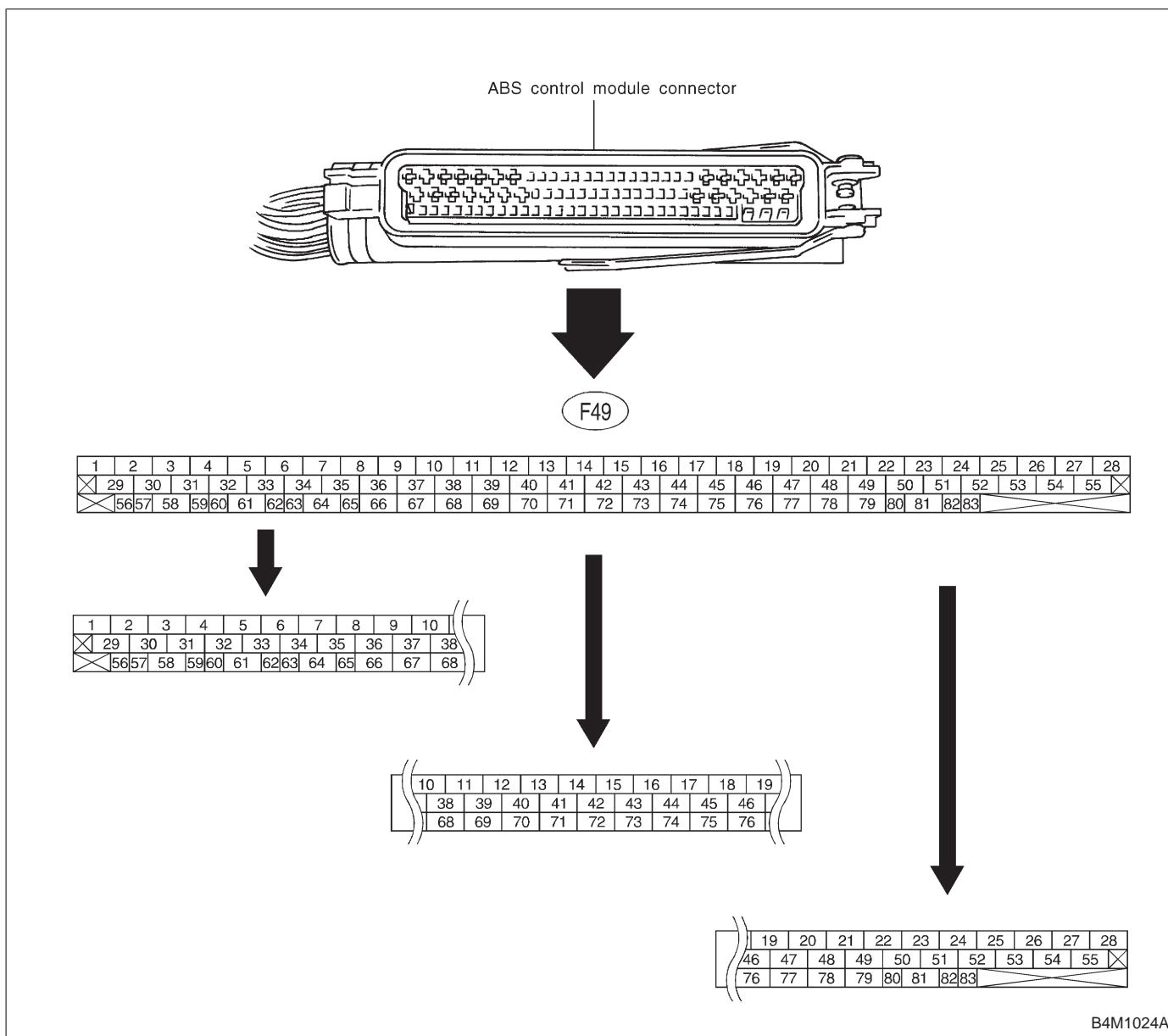


5. Control Module I/O Signal

1. I/O SIGNAL VOLTAGE

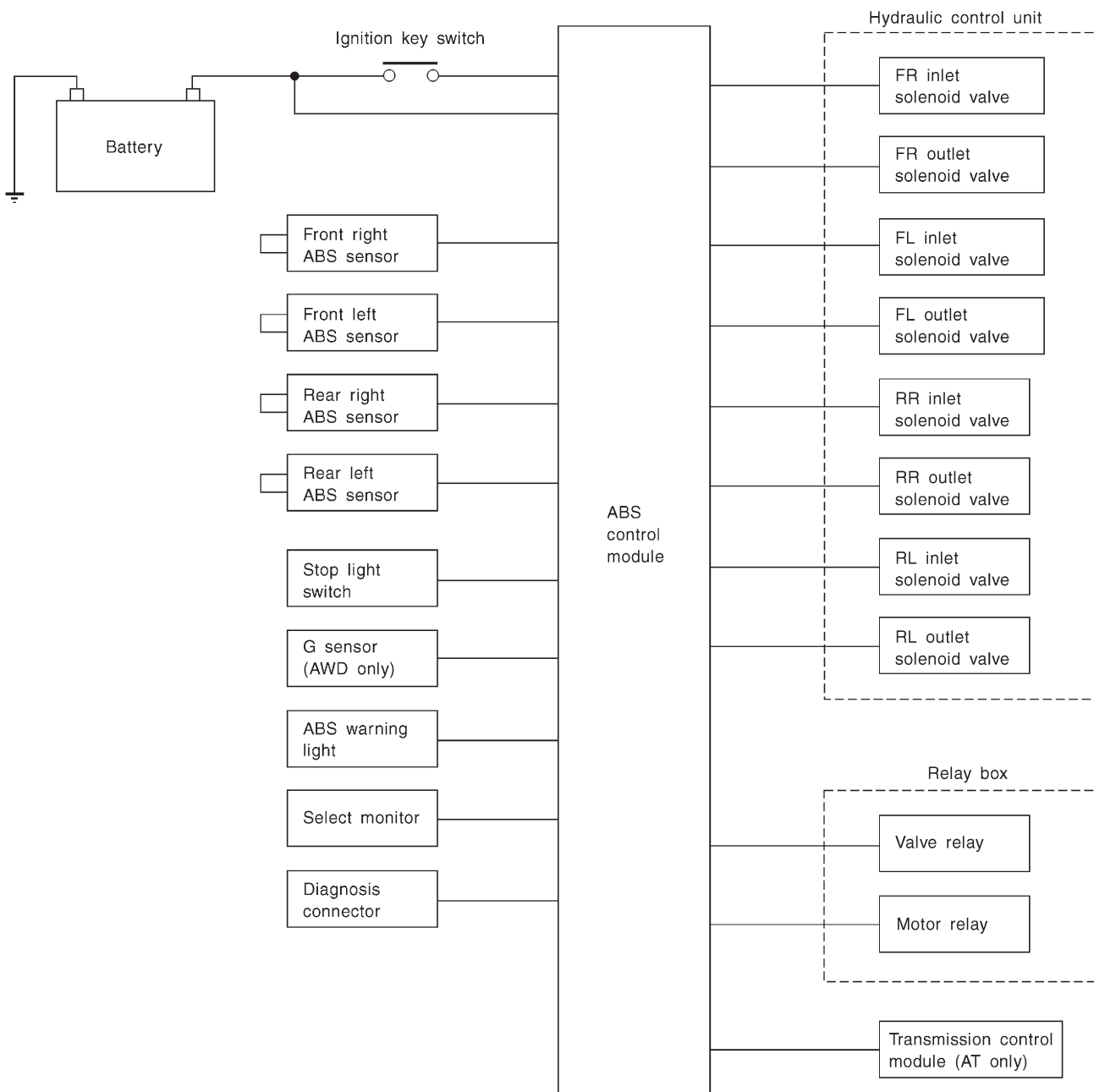


NOTE:

- The connector covers of LHD and RHD vehicles are in the reverse directions.
- The terminal numbers in the ABS control module connector are as shown in the figure.

Contents		Terminal No.	Input/Output signal	
			Measured value and measuring conditions	
ABS sensor (Wheel speed sensor)	Front left wheel	49—19	0.12 — 1 V (When it is 20 Hz.)	
	Front right wheel	14—15		
	Rear left wheel	16—17		
	Rear right wheel	18—46		
Hydraulic control unit	Solenoid valve	Front left outlet	10 — 13 V when the valve is OFF and less than 1.5 V when the valve is ON.	
		Front right outlet		3—1
		Rear left outlet		4—1
		Rear right outlet		50—1
		Front left inlet		24—1
		Front right inlet		30—1
		Rear left inlet		31—1
	Rear right inlet	23—1		
Relay box	Valve relay power supply		27—1	10 — 13 V when ignition switch is ON.
	Valve relay coil		47—1	Less than 1.5 V when ignition switch is ON.
	Motor relay coil		22—1	More than 10 V when the ABS control does not operate still and less than 1.5 V when ABS operates.
	Motor monitoring		10—1	Less than 1.5 V when the ABS control does not operate still and more than 10 V when ABS operates.
G sensor (AWD model only)	power supply		8—45	4.75 — 5.25 V
	ground		45	—
	output		7—45	2.3±0.2 V when vehicle is in horizontal position.
Stop light switch		36—1	Less than 1.5 V when the stop light is OFF and more than 4.5 V when the stop light is ON.	
ABS warning light		54—1	Less than 1.5 V during 1.5 seconds when ignition switch is ON, and 10 — 14 V after 1.5 seconds.	
AT ABS signal (AT model only)		12—1	Less than 1.5 V when the ABS control does not operate still and more than 5.5 V when ABS operates.	
ABS operation signal monitor		39—1	Less than 1.5 V when the ABS control does not operate still and more than 5.5 V when ABS operates.	
Select monitor	Data is received.		11—1	Less than 1.5 V when no data is received.
	Data is sent.		38—1	4.75 — 5.25 V when no data is sent.
Diagnosis connector	Terminal No. 3		5—1	10 — 14 V when ignition switch is ON.
	Terminal No. 6		13—1	10 — 14 V when ignition switch is ON.
Power supply		28—1	10 — 14 V when ignition switch is ON.	
Grounding line		1	—	
Grounding line		55	—	

2. I/O SIGNAL DIAGRAM



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