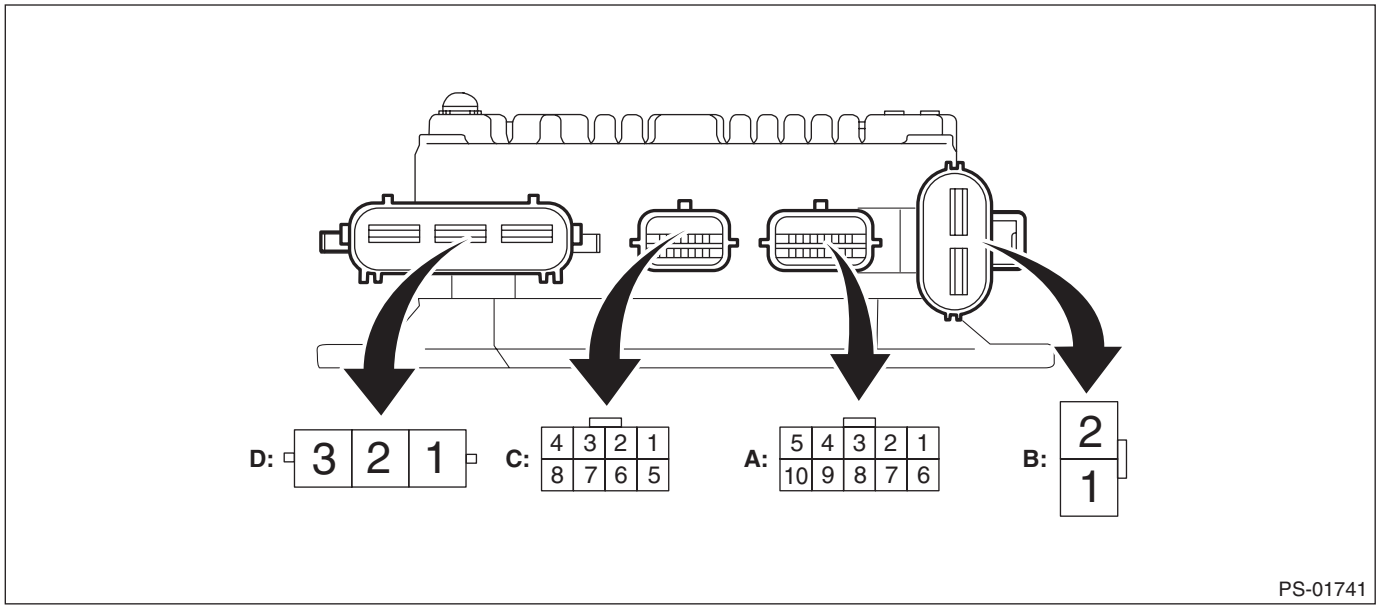
5. Control Module I/O Signal

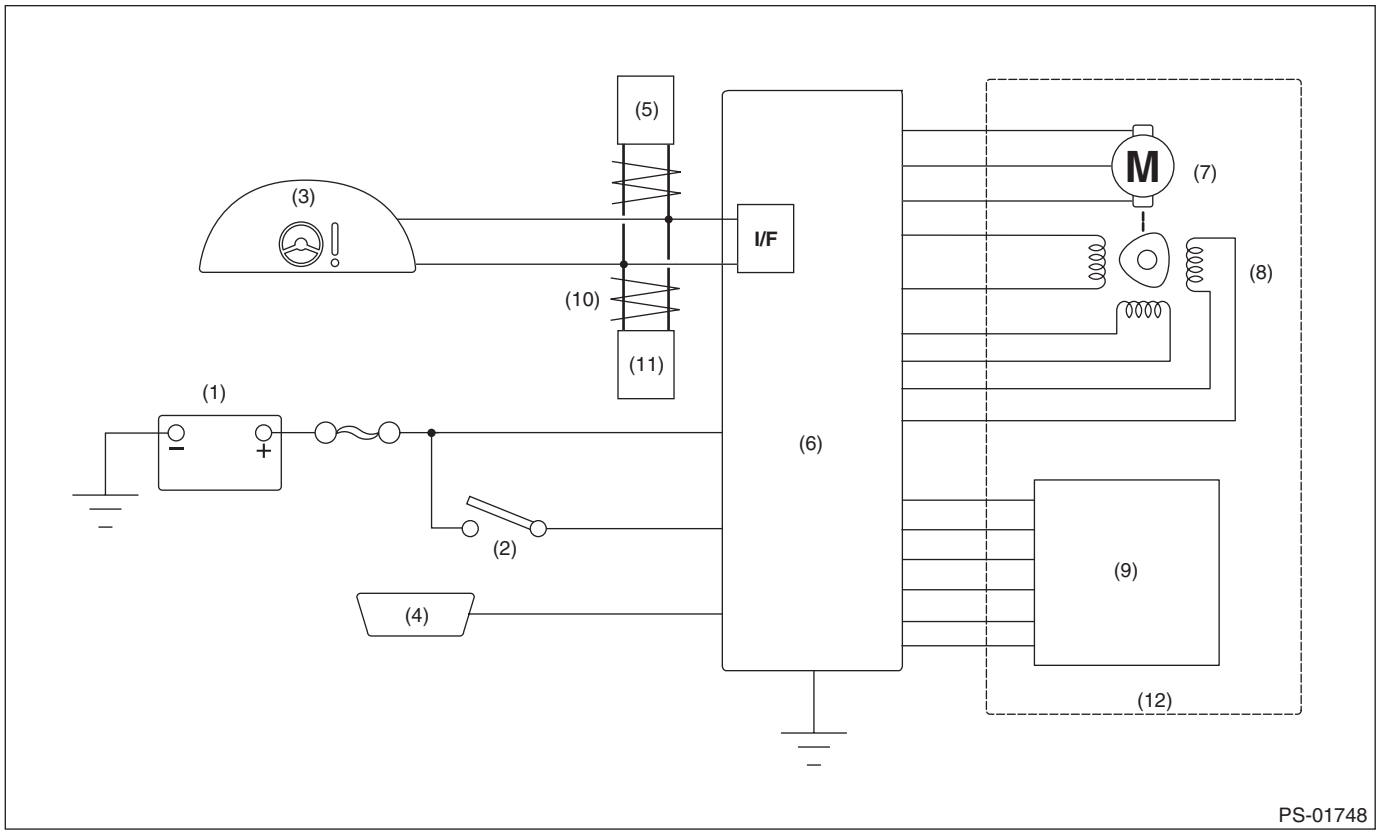
A: ELECTRICAL SPECIFICATION



NOTE:
The terminal numbers of the power steering control module connectors are as indicated in the figure.

Contents	Terminal No.	Input/output signal
		Measured value and measuring conditions
Power supply (IG SW)	A1	Battery voltage is detected with the ignition switch ON when measuring between A1 — B1.
Shield GND	A3	0 V is constantly detected.
Main torque sensor	A4	The voltage changes when the steering is operated to the right or left with the ignition switch ON.
Sub torque sensor	A5	The voltage changes when the steering is operated to the right or left with the ignition switch ON.
CAN communication	A6	Digital signal; can not be measured
CAN communication	A7	Digital signal; can not be measured
Torque sensor ground	A9	0 V is constantly detected.
Torque sensor power supply	A10	Approximately 5 V is detected with ignition switch ON.
Ground	B1	Battery voltage is constantly detected when measuring between B1 — B2.
Power supply	B2	
Resolver S1	C1	Varies depending on the operational status of the motor.
Resolver S3	C2	
Resolver S2	C3	
Resolver S4	C4	
Resolver R1	C5	
Resolver R2	C6	
Motor W phase	D1	Varies depending on the motor output.
Motor V phase	D2	
Motor U phase	D3	

B: WIRING DIAGRAM



(1)	Battery	(5)	Engine control module (ECM)	(9)	Torque sensor (main & sub)
(2)	Ignition switch	(6)	Power steering control module	(10)	CAN communication
(3)	STEERING warning light (combination meter)	(7)	Motor	(11)	VDC CM
(4)	Data link connector (for Subaru Select Monitor)	(8)	Resolver sensor	(12)	Steering gearbox