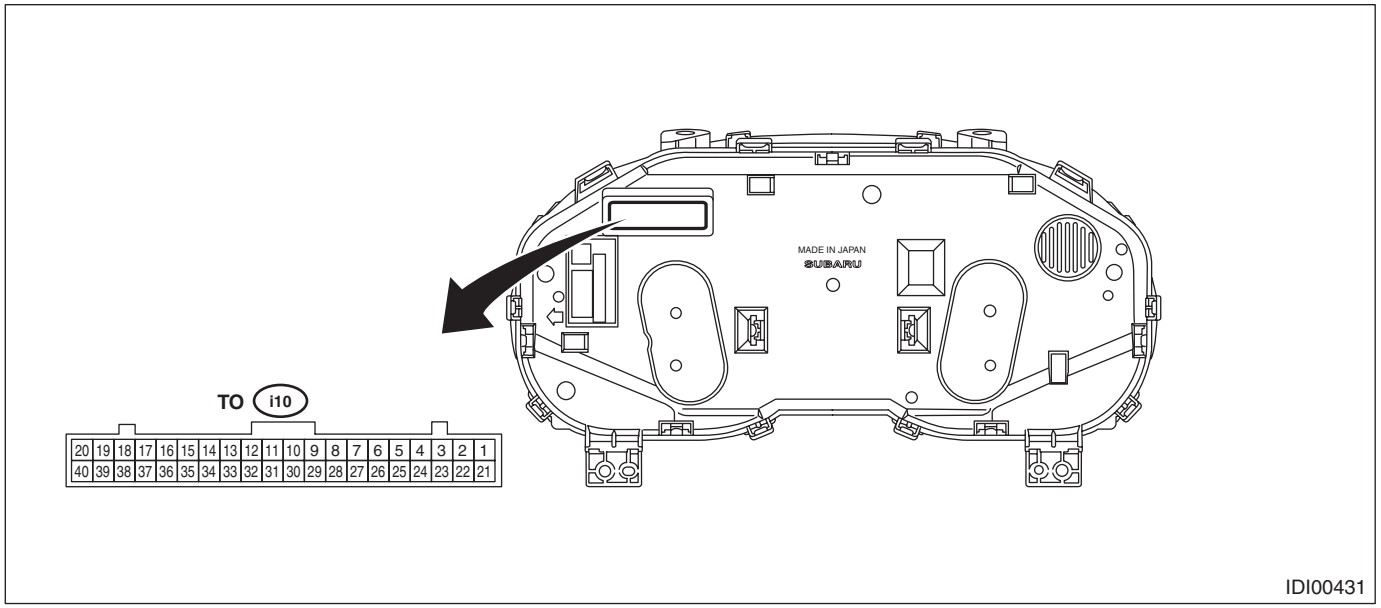
5. Control Module I/O Signal

A: ELECTRICAL SPECIFICATION

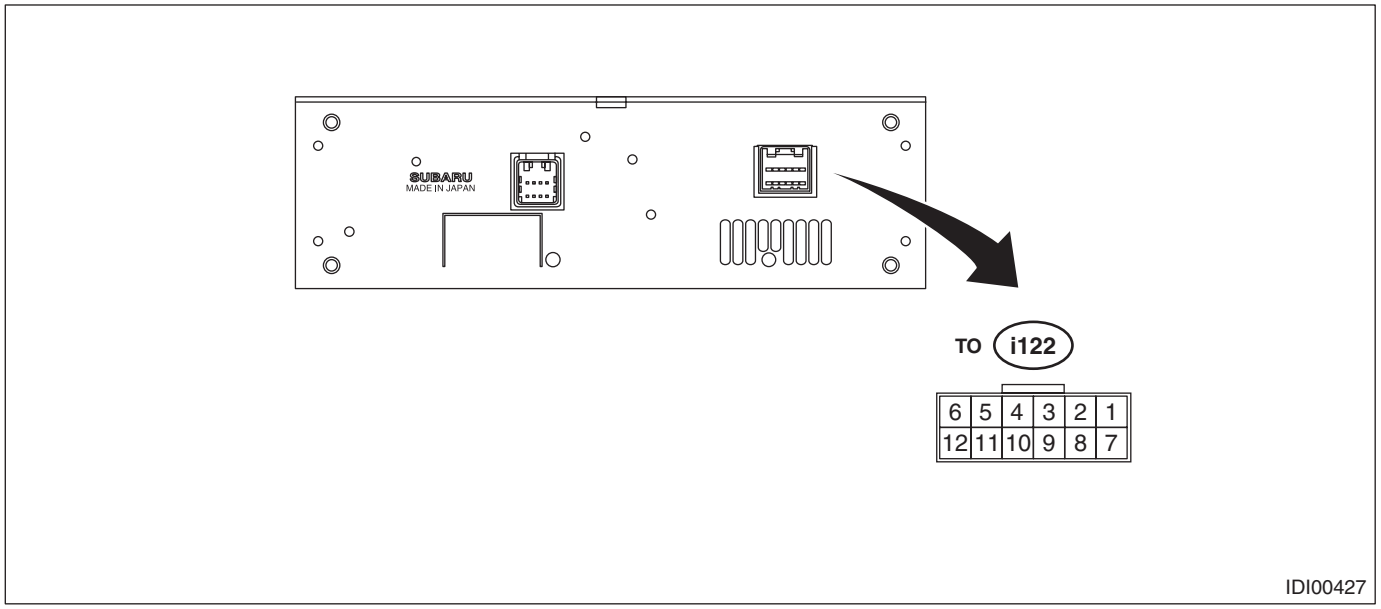
- Combination meter



Terminal No.	Description	Terminal No.	Description
1	Immobilizer/security indicator	27	Ambient sensor
2	Charge warning light	28	UART (MFD)
3	Oil pressure warning light	29	Steering switch (+)
4	RH turn signal indicator	30	Pedestrian alert system
6	LH turn signal indicator	32	CAN communication line (–)
8	Auto headlight beam leveler warning light	33	CAN communication line (+)
15	Driver's seat belt switch	36	Ambient sensor GND
16	Passenger's seat belt switch	37	Fuel level sensor GND
20	Ignition power supply	38	GND
21	Washer fluid level sensor	39	Back-up ignition power supply
23	Brake fluid level switch	40	Battery power supply
25	Fuel level sensor	—	—

Terminal No.	Item	Measuring condition	Standard
1 ←→ Chassis ground	Voltage	Security/immobilizer indicator light off → on	0 V → 10 — 14 V
2 ←→ Chassis ground	Voltage	Charge warning light off → on	0 V → 10 — 14 V
3 ←→ Chassis ground	Voltage	Oil pressure warning light off → on	0 V → 10 — 14 V
4 ←→ Chassis ground	Voltage	RH turn indicator off → on	0 V → 10 — 14 V
6 ←→ Chassis ground	Voltage	LH turn indicator off → on	0 V → 10 — 14 V
8 ←→ Chassis ground	Voltage	Auto headlight beam leveler warning light off → on	0 V → 10 — 14 V
15 ←→ Chassis ground	Resistance	Driver's seat belt switch ON	Less than 1 Ω
16 ←→ Chassis ground	Resistance	Passenger's seat belt switch ON	Less than 1 Ω
20 ←→ Chassis ground	Voltage	IG OFF → ON	0 V → 10 — 14 V
21 ←→ Chassis ground	—	Washer fluid level sensor	—
23 ←→ Chassis ground	—	Brake fluid level switch	—
25 ←→ 37	Resistance	Fuel level sensor	10 — 600 Ω
27 ←→ 36	Resistance	Ambient sensor	1 — 35 kΩ
28 (UART) ←→ Chassis ground	—	Cannot be measured	—
32 (CAN–) ←→ Chassis ground	—	Cannot be measured	—
33 (CAN+) ←→ Chassis ground	—	Cannot be measured	—
34 ←→ Chassis ground	Resistance	Always	Less than 1 Ω
35 ←→ Chassis ground	Resistance	Always	Less than 1 Ω
36 ←→ Chassis ground	Resistance	Always	Less than 1 Ω
37 ←→ Chassis ground	Resistance	Always	Less than 1 Ω
38 ←→ Chassis ground	Resistance	Always	Less than 1 Ω
39 ←→ Chassis ground	Resistance	Always	Less than 1 Ω
40 ←→ Chassis ground	Voltage	Always	10 — 14 V

- MFD



Terminal No.	Description	Terminal No.	Description
1	Battery power supply	7	—
2	GND	8	—
3	Ignition power supply	9	UART (Meter)
4	Switch communication line (–)	10	Passenger's airbag ON
5	CAN communication line (–)	11	Passenger's airbag OFF
6	CAN communication line (+)	12	Switch communication line (+)

Terminal No.	Item	Measuring condition	Standard
1(+B) ←→ Chassis ground	Voltage	Always	10 — 14 V
2 (GND) ←→ Chassis ground	Resistance	Always	Less than 1 Ω
3 (IGN) ←→ Chassis ground	Voltage	IG OFF → ON	0 V → 10 — 14 V
4 (STR-) ←→ Chassis ground	—	Cannot be measured (switch communication line)	—
5 (CAN-) ←→ Chassis ground	—	Cannot be measured (CAN communication line)	—
6 (CAN+) ←→ Chassis ground	—	Cannot be measured (CAN communication line)	—
9 (UART) ←→ Chassis ground	—	Cannot be measured (meter communication line)	—
10 ←→ Chassis ground	Voltage	Passenger's airbag ON indicator (when illuminating)	Less than 1 V
11 ←→ Chassis ground	Voltage	Passenger's airbag OFF indicator (when illuminating)	Less than 1 V
12 (STR+) ←→ Chassis ground	—	Cannot be measured (switch communication line)	—