

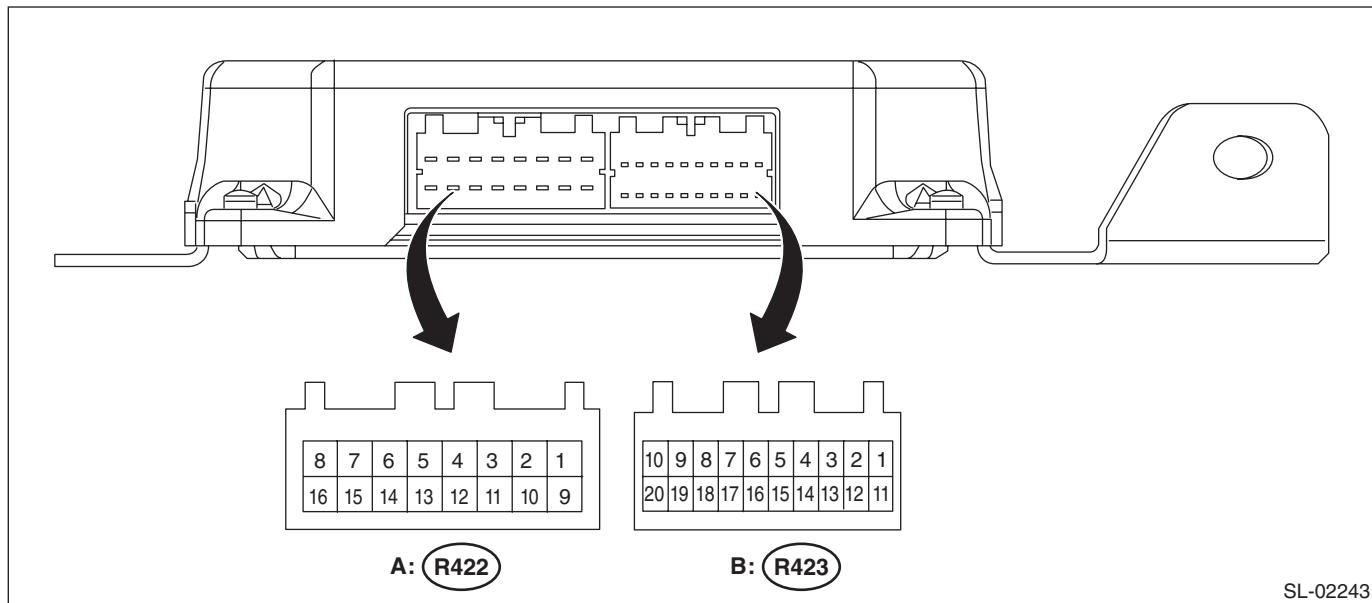
# Control Module I/O Signal

POWER REAR GATE SYSTEM (DIAGNOSTICS)

## 5. Control Module I/O Signal

### A: ELECTRICAL SPECIFICATION

#### 1. POWER REAR GATE CONTROL MODULE



Terminal No. (terminal symbol)	Item	Measuring condition	Standard
(R422) No. 1 (+B) ↔ Chassis ground	Voltage	Always	10.5 — 16 V
(R422) No. 2 (SW-V) ↔ Chassis ground	Voltage	Always	10.5 — 16 V
(R422) No. 3 (CLUTCH (GND)) ↔ Chassis ground	Resistance	Always	Less than 1 Ω
(R422) No. 4 (SOL (-)) ↔ Chassis ground	Voltage	During solenoid cancellation output	Less than 1 V
(R422) No. 5 (CLOSER (OPEN)) ↔ Chassis ground	Voltage	When power rear gate auto closer cancellation is in operation	10.5 — 16 V
(R422) No. 6 (SOL (COMMON)) ↔ Chassis ground	Voltage	Always	10.5 — 16 V
(R422) No. 7 (MOTOR (CLOSE)) ↔ Chassis ground	Voltage	When auto-close is in operation	10.5 — 16 V
(R422) No. 8 (+POWER B) ↔ Chassis ground	Voltage	Always	10.5 — 16 V
(R422) No. 9 (SEN-V) ↔ Chassis ground	Voltage	Always	4 — 6 V
(R422) No. 10 (IGN) ↔ Chassis ground	Voltage	When ignition switch is ON	10.5 — 16 V
(R422) No. 11 (CLUTCH (+)) ↔ Chassis ground	Voltage	When auto-close is in operation	10.5 — 16 V
(R422) No. 12 (SOL (BUZZER)) ↔ Chassis ground	Resistance	When buzzer is OFF	Less than 1 Ω
(R422) No. 13 (CLOSER (CLOSE)) ↔ Chassis ground	Voltage	When power rear gate auto closer is in pull-in operation	10.5 — 16 V
(R422) No. 14 (P-GND) ↔ Chassis ground	Resistance	Always	Less than 1 Ω
(R422) No. 15 (MOTOR (OPEN)) ↔ Chassis ground	Voltage	When auto-open is in operation	10.5 — 16 V
(R422) No. 16 (SOL (+)) ↔ Chassis ground	Voltage	When solenoid lock is output	Less than 1 V
(R423) No. 1 (LIN) ↔ Chassis ground	—	Cannot be measured (LIN communication line)	—
(R423) No. 2 (HALF STOP SW) ↔ Chassis ground	Voltage	When memory height switch is ON	10.5 — 16 V
(R423) No. 3 (SOL POS SW) ↔ Chassis ground	Voltage	Except for PRG at half-stop state	4 — 6 V
(R423) No. 4 (SECTOR SW) ↔ Chassis ground	Voltage	When PRG is fully closed	Less than 1 V
(R423) No. 5 (—) ↔ Chassis ground	—	—	—
(R423) No. 6 (GATE SW) ↔ Chassis ground	Voltage	When PRG inner SW is ON	10.5 — 16 V
(R423) No. 7 (—) ↔ Chassis ground	—	—	—
(R423) No. 8 (S-GND) ↔ Chassis ground	Resistance	Always	Less than 1 Ω
(R423) No. 9 (—) ↔ Chassis ground	—	—	—
(R423) No. 10 (SEN-A) ↔ Chassis ground	Voltage	When PRG is stopped	4 — 6 V

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Terminal No. (terminal symbol)	Item	Measuring condition	Standard
(R423) No. 11 (T-SEN R) $\longleftrightarrow$ Chassis ground	Voltage	When sensor is ON	Less than 1 V
(R423) No. 12 (T SEN L) $\longleftrightarrow$ Chassis ground	Voltage	When sensor is ON	Less than 1 V
(R423) No. 13 (LATCH SW) $\longleftrightarrow$ Chassis ground	Voltage	When PRG is fully closed	4 — 6 V
(R423) No. 14 (COURTESY SW) $\longleftrightarrow$ Chassis ground	Voltage	When PRG is fully closed	4 — 6 V
(R423) No. 15 (HAZARD) $\longleftrightarrow$ Chassis ground	Voltage	When hazard switch is OFF	Less than 1 V
(R423) No. 16 (D SW) $\longleftrightarrow$ Chassis ground	Voltage	When driver's switch is ON	10.5 — 16 V
(R423) No. 17 (—) $\longleftrightarrow$ Chassis ground	—	—	—
(R423) No. 18 (T-SEN GND) $\longleftrightarrow$ Chassis ground	Resistance	Always	Less than 1 $\Omega$
(R423) No. 19 (SEN-GND) $\longleftrightarrow$ Chassis ground	Resistance	Always	Less than 1 $\Omega$
(R423) No. 20 (SEN-B) $\longleftrightarrow$ Chassis ground	Voltage	When PRG is stopped	4 — 6 V

## B: WIRING DIAGRAM

Refer to "Power Rear Gate System" in the wiring diagram. <Ref. to WI-308, WIRING DIAGRAM, Power Rear Gate System.>