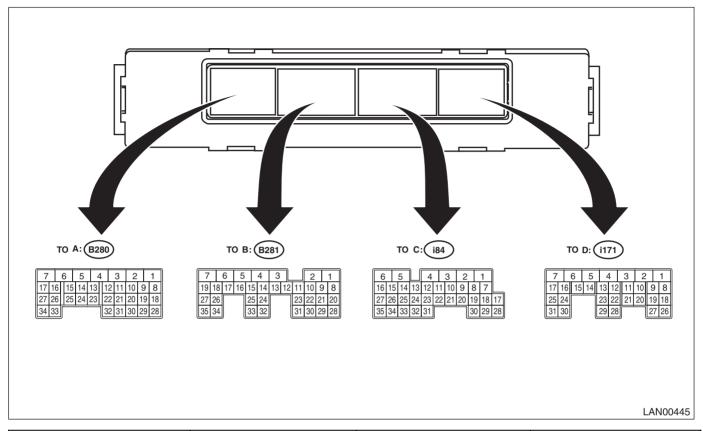
5. Control Module I/O Signal

A: ELECTRICAL SPECIFICATION



| Description | Terminal No. | Signal (V or Ω) Ignition switch ON (engine OFF) | Note |
|---|--|---|--|
| Ignition power supply (rear wiper) | A5 ←→ chassis ground | Less than 1.5 V → 10 — 13 V | Ignition switch OFF → ON |
| Battery power supply (shift lock/ key lock) | B6 ←→ chassis ground | 10 — 13 V | Always |
| Battery power supply (door lock) | D1 ←→ chassis ground | 10 — 13 V | Always |
| Battery power supply (control) | C6 ←→ chassis ground | 10 — 13 V | Always |
| | A1 ←→ chassis ground | Less than 1.5 V | Always |
| 0 | B31 ←→ chassis ground | | |
| Ground | C1 ←→ chassis ground | | |
| | D29 ←→ chassis ground | | |
| Battery power supply (back-up) | B7 ←→ chassis ground | 10 — 13 V | Always |
| Ignition power supply | B3 ←→ chassis ground | Less than 1.5 V \rightarrow 10 — 13 V | Ignition switch OFF → ON |
| ACC power supply | $A32 \longleftrightarrow chassis ground$ | Less than 1.5 V → 10 — 13 V | Ignition switch OFF → Accessory ON |
| Key-in switch | A4 ←→ chassis ground | Less than 1.5 V → 10 — 13 V | Key inserted |
| P range SW | B18 ←→ chassis ground | 8 V or more → less than 1.5 V | P range to other than P range |
| Stop light SW | A10 \longleftrightarrow chassis ground | Less than 1.5 V → 8 V | Stop light switch OFF \rightarrow ON |
| Door SW (driver's) | C14 ←→ chassis ground | 8 V or more → less than 1.5 V | Front right door closed → open |
| Door SW (passenger's) | C13 ←→ chassis ground | 8 V or more → less than 1.5 V | Front left door closed → open |
| Door SW (rear right) | C25 ←→ chassis ground | 8 V or more → less than 1.5 V | Rear right door closed → open |

| | | Cignal (V as C) | |
|--|--|---|--|
| Description | Terminal No. | Signal (V or Ω) Ignition switch ON | Note |
| | reminar No. | (engine OFF) | Note |
| Door SW (rear left) | C24 ←→ chassis ground | 8 V or more → less than 1.5 V | Rear left door closed → open |
| Rear gate SW/trunk SW | $\text{C33} \longleftrightarrow \text{chassis ground}$ | 8 V or more → less than 1.5 V | Rear gate/trunk closed $ ightarrow$ open |
| Opener SW (trunk/rear gate) | C10 \longleftrightarrow chassis ground | 8 V or more → less than 1.5 V | Rear gate/trunk opener switch ON |
| Manual switch (LOCK) | C9 ←→ chassis ground | 8 V or more → less than 1.5 V | Door lock switch ON |
| Manual switch (UNLOCK) | C20 ←→ chassis ground | 8 V or more → less than 1.5 V | Door unlock switch ON |
| Lighting AUTO | B16 ←→ chassis ground | 8 V or more → less than 1.5 V | Switch at AUTO position |
| Lighting II | A34 \longleftrightarrow chassis ground B34 \longleftrightarrow chassis ground | 8 V or more → less than 1.5 V | Switch at II position |
| Lighting I | B17 ←→ chassis ground | 8 V or more → less than 1.5 V | Switch at I position |
| Dimmer passing | B25 ←→ chassis ground | 8 V or more → less than 1.5 V | Switch at passing position |
| Dimmer Hi beam | B15 ←→ chassis ground | 8 V or more → less than 1.5 V | Switch at Hi beam position |
| Front fog light SW | B26 ←→ chassis ground | 8 V or more \rightarrow less than 1.5 V | Front fog light switch ON |
| | D20 ←→ chassis ground | Less than 1.5 V \rightarrow 4.5 V or | Tront log light switch ON |
| Illumination sensor power supply | B1 ←→ A29 | more | Ignition switch OFF → ON |
| Illumination sensor signal | A19 | 0.2 — 4.5 V | Ignition switch OFF → ON |
| Ground (illumination sensor) | A29 ←→ chassis ground | Less than 1.5 V | Always |
| Rear wiper SW ON | A12 ←→ chassis ground | 8 V or more → less than 1.5 V | Switch at ON position |
| Rear wiper SW INT | A22 ←→ chassis ground | 8 V or more \rightarrow less than 1.5 V | Switch at INT position |
| Rear washer SW | A30 \longleftrightarrow chassis ground | 8 V or more \rightarrow less than 1.5 V | Switch at ON position |
| Illumination SW (Vi1) | D12 \longleftrightarrow chassis ground | Approx. 5 V | While clearance light illumi- |
| Illumination SW (Vi2) | $D22 \longleftrightarrow chassis ground$ | 0.5 — 4.8 V | nates |
| Illumination SW (Vi3) | D28 \longleftrightarrow chassis ground | Less than 1.5 V | Always |
| Bright SW | C21 \longleftrightarrow chassis ground | 8 V or more → less than 1.5 V | Switch at ON position |
| Reverse SW (MT) | B12 ←→ chassis ground | Less than 1.5 V \rightarrow 8 V or more | Reverse SW ON |
| Impact sensor | A11 ←→ chassis ground | 8 V or more | Apply an impact |
| Hi-speed CAN communication circuit 1 (Hi) | B20 | O mint a surrenination | Except for sleep status*1 |
| Hi-speed CAN communication circuit 1 (Lo) | B28 | Serial communication | |
| Hi-speed CAN communication circuit 2 (Hi) | C27 | - Serial communication | Except for sleep status*1 |
| Hi-speed CAN communication circuit 2 (Lo) | C35 | | |
| Immobilizer antenna (B) | B22 | Carial | Communication with ignition |
| Immobilizer antenna (A) | B10 | Serial communication | key in progress |
| Immobilizer antenna amplifier GND | B30 ←→ chassis ground | Less than 1.5 V | Always |
| Immobilizer antenna amplifier power supply | B2 ←→ B30 | 4.5 — 5.5 V | Always |
| Security UART | A21 | Serial communication | Always |
| Front wiper return | A2 ←→ chassis ground | 8 V | When front wiper is operated |
| Rear washer switch | A30 ←→ chassis ground | 8 V or more → less than 1.5 V | When rear washer switch is ON |
| Door UNLOCK (driver's seat) output | D4 ←→ chassis ground | Less than 0.5 V → 8 V or more | When driver's side door unlock is output |
| Keyless entry communication line | D11 | Serial communication | When door lock/unlock is operated with the keyless transmitter, or when TPMS is operated |

Control Module I/O Signal

BODY CONTROL SYSTEM (DIAGNOSTICS)

| Description | Terminal No. | Signal (V or Ω) | |
|-------------------------------|--|---|---|
| | | Ignition switch ON (engine OFF) | Note |
| Rear defogger switch | C18 ←→ chassis ground | Less than 1.5 V → 8 V or more | When the rear defogger switch is ON |
| Parking brake switch | C32 ←→ chassis ground | 8 V or more → less than 1.5 V | When parking brake is ON |
| Shift lock solenoid | B5 ←→ chassis ground | Less than 1.5 V → 8 V or more | When shift lock is operating (AT models) |
| Key actuator | B4 ←→ chassis ground | Less than 1.5 V \rightarrow 8 V or more | LOCK status ON (AT models) |
| Rear wiper ON output | A7 ←→ chassis ground | Less than 0.5 V \rightarrow 8 V or more | Rear wiper operation in progress |
| Rear wiper return | A6 ←→ chassis ground | Less than 0.5 V → 8 V or more | Rear wiper operation in progress |
| Door LOCK output | $D2 \longleftrightarrow chassis ground$ | Less than $0.5 \text{ V} \rightarrow 8 \text{ V}$ or more | When LOCK signal is output |
| Door UNLOCK output | D3 ←→ chassis ground | Less than 0.5 V → 8 V or more | When UNLOCK signal is output |
| Rear gate/trunk UNLOCK output | D7 ←→ chassis ground | Less than 0.5 V \rightarrow 8 V or more | When UNLOCK signal is output |
| Lighting relev newer cumply | A3 ←→ chassis ground | 10 — 13 V | ACC or key-in SW ON |
| Lighting relay power supply | B19 \longleftrightarrow chassis ground | 10 — 13 V | ACC or key-in SW ON |
| Lighting relay Hi output | A17 ←→ chassis ground | 8 V or more \rightarrow less than 1.0 V | Dimmer SW at Hi position |
| Lighting relay Lo output | B35 ←→ chassis ground | 8 V or more → less than 1.0 V | Lighting II SW at ON position |
| Lighting Lo relay output 2 | A27 ←→ chassis ground | 8 V or more → less than 1.0 V | Lighting II SW at ON position |
| Lighting relay I output | A16 ←→ chassis ground | 8 V or more → less than 1.0 V | Lighting I SW at ON position |
| Front fog light output | A15 ←→ chassis ground | 8 V or more \rightarrow less than 1.0 V | Front fog light SW at ON position |
| DRL cancel output | D10 \longleftrightarrow chassis ground | 8 V or more \rightarrow less than 1.0 V | Headlight switch ON or Hi beam ON, passing switch ON |
| Illumination output | B8 | Pulse output | Illumination ON |
| | C16 | Pulse output | Illumination ON |
| Key ring illumination | A25 | Pulse output | Illumination ON |
| Room light output | C4 | Pulse output | Room light ON (doors inter- locked) |
| Map light output | D8 | Pulse output | Map light ON (keyless answer-back, etc.) |
| Luggage/trunk light output | C3 | Pulse output | Luggage/trunk at open state |
| Rear defogger relay output | A26 \longleftrightarrow chassis ground | 8 V or more \rightarrow less than 1.0 V | Rear defogger SW ON |
| Wiper deicer relay output | $D9 \longleftrightarrow chassis ground$ | 8 V or more \rightarrow less than 1.0 V | Wiper deicer SW ON |
| Turn/hazard output | D18 \longleftrightarrow chassis ground | 8 V or more \rightarrow less than 1.0 V | When answer-back is output |
| Security horn output | A24 \longleftrightarrow chassis ground | 8 V or more \rightarrow less than 1.0 V | When security is operating |
| Security light | D26 | Pulse control | When security light is illumi- nating |
| Answer-back buzzer output | A20 ←→ chassis ground | 8 V or more \rightarrow less than 1.0 V | When answer-back operates |
| Immobilizer communication | A31 | Serial communication | |

^{*1:} For CAN sleep state, hold on for approx. one minute with ignition OFF and the doors, trunk, and rear gate all closed.