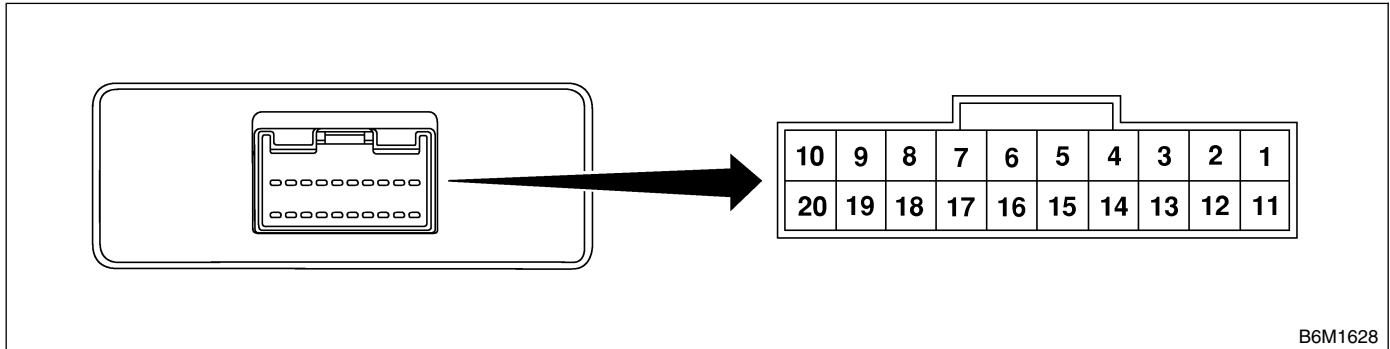


# CRUISE CONTROL MODULE I/O SIGNAL

Cruise Control System (DIAGNOSTICS)

## 4. Cruise Control Module I/O Signal S003515

### A: ELECTRICAL SPECIFICATION S003515A08



B6M1628

| Content                    | Terminal No. | Measuring conditions and I/O signals (ignition switch ON and engine idling)   |
|----------------------------|--------------|---|
| Main light                 | 1            | <ul style="list-style-type: none"> <li>Battery voltage is present when main switch is turned OFF.</li> <li>"0" volt is present when main switch is turned ON.</li> </ul>  |
| Inhibitor switch (AT)      | 4            | <ul style="list-style-type: none"> <li>Battery voltage is present when selector lever is other than "P" or "N" position.</li> <li>"0" volt is present when selector lever is set to "P" or "N" position.</li> </ul>   |
| Motor B                    | 5            | <ul style="list-style-type: none"> <li>ON-and-OFF ("0"-and-battery voltage) operation is alternately repeated while cruise control is operating.</li> <li>"0" volt is present when main switch is turned OFF.</li> </ul>  |
| Ground                     | 6            | —   |
| Motor A                    | 7            | <ul style="list-style-type: none"> <li>ON-and-OFF ("0"-and-battery voltage) operation is alternately repeated while cruise control is operating.</li> <li>"0" volt is present when main switch is turned OFF.</li> </ul>  |
| RESUME/ACCEL switch        | 9            | <ul style="list-style-type: none"> <li>Battery voltage is present when command switch is turned to RESUME/ACCEL position.</li> <li>"0" volt is present when command switch is released.</li> </ul>  |
| SET/COAST switch           | 10           | <ul style="list-style-type: none"> <li>Battery voltage is present when command switch is turned to SET/COAST position.</li> <li>"0" volt is present when command switch is released.</li> </ul>   |
| Main power supply          | 11           | <ul style="list-style-type: none"> <li>Battery voltage is present when main power is turned ON.</li> <li>"0" volt is present when main power is turned OFF.</li> </ul>  |
| Ignition switch            | 12           | <ul style="list-style-type: none"> <li>Battery voltage is present when ignition switch is turned ON.</li> <li>"0" volt is present when ignition switch is turned OFF.</li> </ul>  |
| Motor C                    | 13           | <ul style="list-style-type: none"> <li>ON-and-OFF ("0"-and-battery voltage) operation is alternately repeated while cruise control is operating.</li> <li>"0" volt is present when main switch is turned OFF.</li> </ul>  |
| Motor clutch               | 14           | <ul style="list-style-type: none"> <li>ON-and-OFF ("0"-and-battery voltage) operation is alternately repeated while cruise control is operating.</li> <li>"0" volt is present when vehicle is stopped.</li> </ul>   |
| Cruise control main switch | 15           | <ul style="list-style-type: none"> <li>Battery voltage is present during pressing the cruise control main switch, and then battery voltage is present while main switch is turned ON.</li> <li>"0" volt is present when main switch is turned OFF.</li> </ul>   |
| Brake switch               | 16           | <p>Leave clutch pedal released (MT), while cruise control main switch is turned ON.</p> <p>Then check that;</p> <ul style="list-style-type: none"> <li>Battery voltage is present when brake pedal is released.</li> <li>"0" volt is present when brake pedal is depressed.</li> </ul> <p>Additionally only in MT vehicle, keep the cruise control main switch to ON and leave brake pedal released.</p> <p>Then check that;</p> <ul style="list-style-type: none"> <li>Battery voltage is present when clutch pedal is released.</li> <li>"0" volt is present when clutch pedal is depressed.</li> </ul> |
| Data link connector        | 17           | —   |

# CRUISE CONTROL MODULE I/O SIGNAL

## Cruise Control System (DIAGNOSTICS)

| Content  | Terminal No. | Measuring conditions and I/O signals (ignition switch ON and engine idling)   |
|--|--------------|---|
| Data link connector  | 18           | —   |
| Vehicle speed sensor (MT)<br>TCM (AT)  | 19           | Lift-up the vehicle until all four wheels are raised off ground, and then rotate any wheel manually.<br>Approx. "5" and "0" volt pulse signals are alternately input to cruise control module.                              |
| Stop light switch  | 20           | Turn ignition switch to OFF.<br>Then check that;<br><ul style="list-style-type: none"><li>● Battery voltage is present when brake pedal is depressed.</li><li>● "0" volt is present when brake pedal is released.</li></ul> |
| NOTE:<br>Voltage at terminals 5, 7, 13 and 14 cannot be checked unless vehicle is driving by cruise control operation. |              |   |

## **B: SCHEMATIC** S003515A21

### **1. CRUISE CONTROL 4 CYLINDER ENGINE MODEL** S003515A2101

<Ref. to WI-76, 4-CYLINDER ENGINE MODEL, SCHEMATIC, Cruise Control System.>

### **2. CRUISE CONTROL 6 CYLINDER ENGINE MODEL** S003515A2102

<Ref. to WI-79, 6-CYLINDER ENGINE MODEL, SCHEMATIC, Cruise Control System.>