## ON-BOARD DIAGNOSTIC SYSTEM [REAR BODY CONTROL MODULE (RBCM)]

id094000002800

### Outline

- The on-board diagnostic function consists of the following functions: A malfunction detection function, which detects overall malfunctions in the rear body control module (RBCM)-related parts; a memory function, which stores detected DTCs; a display function, which indicates malfunction locations and status via DTC output; and a PID/data monitoring function, which reads out specific input/output signals and verifies the input/output condition.
- Using the Mazda Modular Diagnostic System (M-MDS), DTCs can be read out and deleted, and the PID/data monitoring function can be activated.

### Malfunction detection function

- Detects malfunctions in input/output signals.
- If a malfunction occurs, the rear body control module (RBCM) records the malfunction as a DTC. A recorded DTC can be read by the Mazda Modular Diagnostic System (M-MDS).

×: Applicable
—: Not applicable

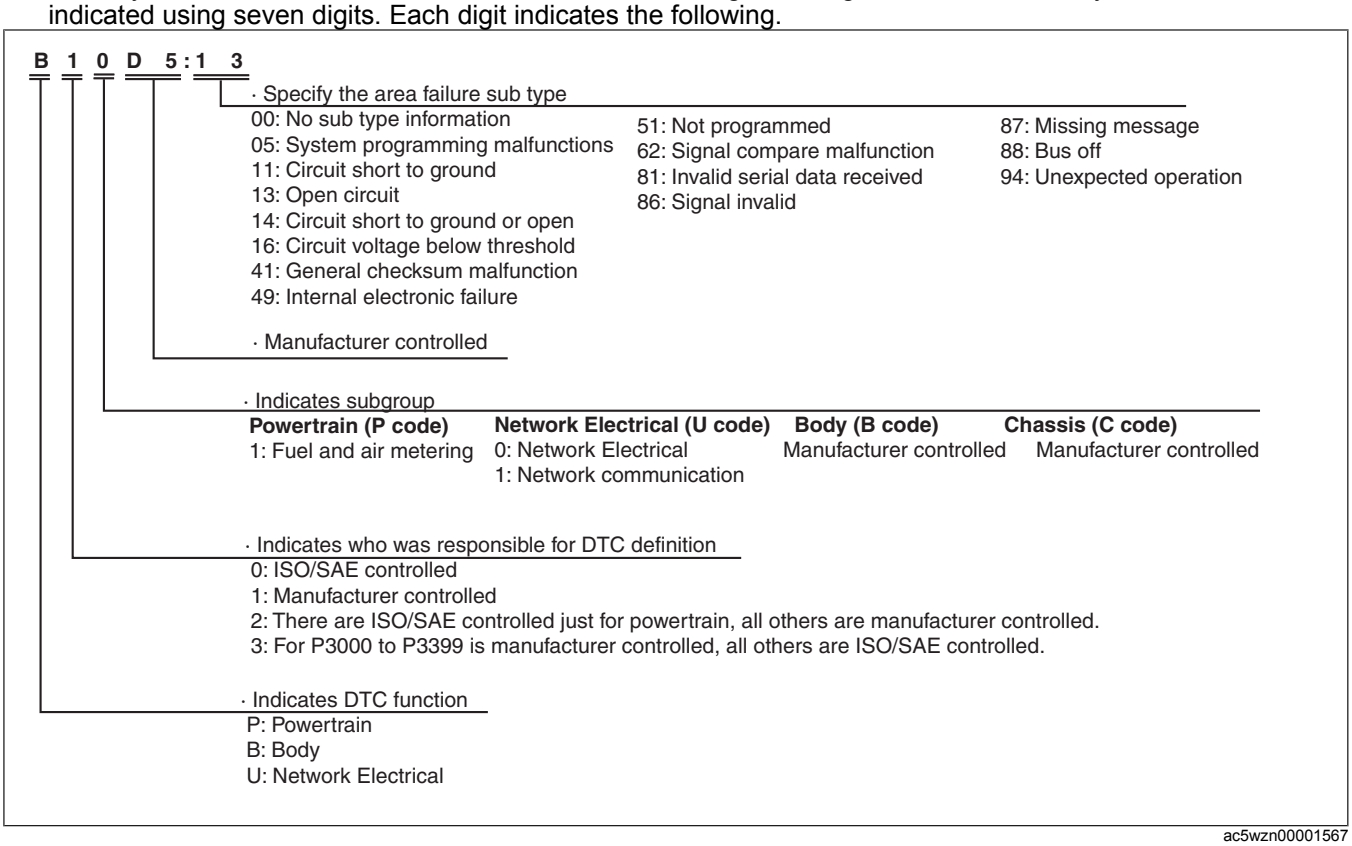
| DTC No. | Warning/ indicator light | Description | Fail-safe function | Drive cycle | Self test type*1 | Memory function |
|---|---|---|---|---|---|---|
| B1079:13 | — | Bonnet switch circuit malfunction | — | — | D | — |
| B108F:16 | — | Door lock switch circuit malfunction | — | — | D | — |
| B109E:87 | — | Communication error with start stop unit | — | — | C, D | × |
| B109F:49*2 | — | Intruder sensor internal malfunction | — | — | C, D | × |
| B109F:86*2 | — | Error signal received from intruder sensor | — | — | C, D | × |
| B109F:87*2 | — | Communication error with intruder sensor | — | — | C, D | × |
| B10A5:49*2 | — | Theft-deterrent siren internal malfunction | — | — | C, D | × |
| B10A5:86*2 | — | Error signal received from theft-deterrent siren | — | — | C, D | × |
| B10A5:87*2 | — | Communication error with theft-deterrent siren | — | — | C, D | × |
| B113E:11 | — | Liftgate opener switch circuit malfunction | — | — | D | — |
| B1172:11 | — | Front door lock-link switch (driver's side) unlock circuit malfunction | — | — | D | — |
| B1172:13 | — | Front door lock-link switch (driver's side) unlock circuit malfunction | — | — | D | — |
| B1174:11*3 | — | Front door lock-link switch (passenger's side)/Rear door lock-link switch (LH)/(RH) unlock circuit malfunction | — | — | D | — |
| B1174:13*3 | — | Front door lock-link switch (passenger's side)/Rear door lock-link switch (LH)/(RH) unlock circuit malfunction | — | — | D | — |
| B1175:11 | — | Front door latch switch (driver's side) circuit malfunction | — | — | D | — |
| B1176:11 | — | Front door latch switch (passenger's side) circuit malfunction | — | — | D | — |
| B1178:11 | — | Liftgate latch switch circuit malfunction | — | — | D | — |
| B11DA:16 | — | Front door key cylinder switch circuit malfunction | — | — | D | — |
| B11E9:11 | — | Rear door latch switch (LH) circuit malfunction | — | — | D | — |
| B11EA:11 | — | Rear door latch switch (RH) circuit malfunction | — | — | D | — |
| B126A:11 | — | Front door lock-link switch (driver's side) lock circuit malfunction | — | — | D | — |
| B126A:13 | — | Front door lock-link switch (driver's side) lock circuit malfunction | — | — | D | — |
| B1A79:13*3 | — | Rear fog light circuit malfunction | — | — | C, D | × |
| C0023:14*4 | — | Rear body control module (RBCM) internal malfunction (brake light drive circuit) | — | — | C, D | × |
| U0010:88 | — | Unit communication error (MS-CAN) | — | — | C, D | × |

| DTC No. | Warning/ indicator light | Description | Fail-safe function | Drive cycle | Self test type*1 | Memory function |
|---|---|---|---|---|---|---|
| U0155:00 | — | Communication error with instrument cluster | — | — | C, D | × |
| U0447:86*3 | — | Communication error between front body control module (FBCM) and instrument cluster | — | — | C, D | × |
| U2100:00 | — | Rear body control module (RBCM) configuration error | — | — | C, D | × |
| U3000:49 | — | Rear body control module (RBCM) internal malfunction | — | — | C, D | × |
| U3003:16 | — | Rear body control module (RBCM) power supply voltage low input | — | — | C, D | × |

*1 : C: CMDTC self test, D:ODDTC self test
*2 : With theft-deterrent system
*3 : With rear fog light
*4 : With smart city brake support

**DTC 7-digit code definition**

- When related systems or components have failed, the CM stores the DTC of the malfunctioning part in the CM memory, and allows for the retrieval of the store data using scanning tool when necessary. The DTCs are indicated using seven digits. Each digit indicates the following.



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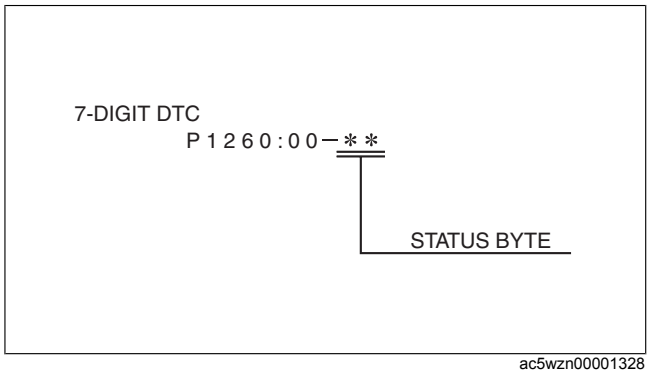
**Status byte for DTC**

- The status byte is the two digits (after hyphen) after the 7-digit DTC.
- The status byte is a code which indicates the pending code, current/past malfunction status, or warning illumination status.
- The status byte can be read by performing a CMDTC self-test using the Mazda Modular Diagnostic System (M-MDS).
- For details on the status byte, refer to the explanation on the Mazda Modular Diagnostic System (M-MDS) when reading the DTC.



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**Detection condition for the applicable DTC**

×: Applicable
—: Not applicable

| DTC | System malfunction location | Detection condition |
|---|---|---|
| B1079:13 | Bonnet switch circuit malfunction | Rear body control module (RBCM) detects open circuit in bonnet latch switch circuit. |
| B108F:16 | Door lock switch circuit malfunction | With the door lock switch off, the rear body control module (RBCM) detects door lock switch circuit voltage of 4 V or less. |
| B109E:87 | Communication error with start stop unit | Rear body control module (RBCM) detects communication error with start stop unit for 10 times continuously. |
| B109F:49*1 | Intruder sensor internal malfunction | Rear body control module (RBCM) detects intruder sensor internal malfunction. |
| B109F:86*1 | Error signal received from intruder sensor | Rear body control module (RBCM) receives error signal from intruder sensor for 1.5 s or more. |
| B109F:87*1 | Communication error with intruder sensor | Rear body control module (RBCM) cannot receive signal from intruder sensor for 1.5 s or more. |
| B10A5:49*1 | Theft-deterrent siren internal malfunction | Rear body control module (RBCM) detects theft-deterrent siren internal malfunction. |
| B10A5:86*1 | Error signal received from theft-deterrent siren | Rear body control module (RBCM) receives error signal from theft-deterrent siren for 1.5 s or more. |
| B10A5:87*1 | Communication error with theft-deterrent siren | Rear body control module (RBCM) cannot receive signal from theft-deterrent siren for 1.5 s or more. |
| B113E:11 | Liftgate opener switch circuit malfunction | Rear body control module (RBCM) detects short to ground in liftgate opener switch circuit |
| B1172:11 | Front door lock-link switch (driver's side) unlock circuit malfunction | With the front door lock-link switch (driver's side) locked, the rear body control module (RBCM) detects a short to ground in the front door lock-link switch (driver's side) unlock circuit. |
| B1172:13 | Front door lock-link switch (driver's side) unlock circuit malfunction | Rear body control module (RBCM) detects open circuit in front door lock-link switch (driver's side) unlock side circuit with front door lock-link switch (driver's side) unlocked |
| B1174:11*1 | Front door lock-link switch (passenger's side)/Rear door lock-link switch (LH)/(RH) unlock circuit malfunction | With the front door lock-link switch (passenger's side)/rear door lock link switch (LH)/(RH) locked, the rear body control module (RBCM) detects a short to ground in the door lock-link switch unlock circuit. |
| B1174:13*1 | Front door lock-link switch (passenger's side)/Rear door lock-link switch (LH)/(RH) unlock circuit malfunction | With the front door lock-link switch (passenger's side)/rear door lock link switch (LH)/(RH) unlocked, the rear body control module (RBCM) detects an open circuit in the door lock-link switch unlock circuit. |
| B1175:11 | Front door latch switch (driver's side) circuit malfunction | With the front door (driver's side) closed (front door latch switch (driver's side) off, the rear body control module (RBCM) detects a short to ground in the front door latch switch (driver's side) circuit. |
| B1176:11 | Front door latch switch (passenger's side) circuit malfunction | With the front door (passenger's side) closed (front door latch switch (passenger's side) off, the rear body control module (RBCM) detects a short to ground in the front door latch switch (passenger's side) circuit. |

| DTC | System malfunction location | Detection condition |
|---|---|---|
| B1178:11 | Liftgate latch switch circuit malfunction | With the liftgate closed (liftgate latch switch off), rear body control module (RBCM) detects short to ground in liftgate latch switch circuit. |
| B11DA:16 | Front door key cylinder switch circuit malfunction | With the front door key cylinder switch (driver's side) off, the rear body control module (RBCM) detects front door key cylinder switch (driver's side) voltage of 4 V or less. |
| B11E9:11 | Rear door latch switch (LH) circuit malfunction | With the rear door (LH) closed (rear door latch switch (LH) off), the rear body control module (RBCM) detects a short to ground in the rear door latch switch (LH) cylinder. |
| B11EA:11 | Rear door latch switch (RH) circuit malfunction | With the rear door (RH) closed (rear door latch switch (RH) off), the rear body control module (RBCM) detects a short to ground in the rear door latch switch (RH) cylinder. |
| B126A:11 | Front door lock-link switch (driver's side) lock circuit malfunction | With the front door lock-link switch (driver's side) unlocked, the rear body control module (RBCM) detects a short to ground in the front door lock-link switch (driver's side) lock circuit. |
| B126A:13 | Front door lock-link switch (driver's side) lock circuit malfunction | Rear body control module (RBCM) detects open circuit in front door lock-link switch (driver's side) lock side circuit with front door lock-link switch (driver's side) locked. |
| B1A79:13*2 | Rear fog light circuit malfunction | Rear body control module (RBCM) detects open circuit in rear fog light circuit. |
| C0023:14*3 | Rear body control module (RBCM) internal malfunction (brake light drive circuit) | Rear body control module (RBCM) detects open circuit in brake light circuit. |
| U0010:88 | Unit communication error (MS-CAN) | Rear body control module (RBCM) detects open circuit in brake light circuit. |
| U0155:00 | Communication error with instrument cluster | The Rear body control module (RBCM) cannot receive CAN signals from the instrument cluster for 5 s or more with the ignition switched ON (engine off or on). |
| U0447:86*2 | Communication error between front body control module (FBCM) and instrument cluster | The rear body control module (RBCM) receives error signals from the instrument cluster for 10 s or more continuously with the ignition switched ON (engine off or on). |
| U2100:00 | Rear body control module (RBCM) configuration error | Rear body control module (RBCM) configuration error detected. |
| U3000:49 | Rear body control module (RBCM) internal malfunction | Malfunction inside rear body control module (RBCM) detected. |
| U3003:16 | Rear body control module (RBCM) power supply voltage low input | Rear body control module (RBCM) power supply circuit voltage of 5 V or more, less than 9 V is detected for 10 s or more. |

*1 : With theft-deterrent system
*2 : With rear fog light
*3 : With smart city brake support

**Snapshot data**

- The data for all DTCs currently detected is stored.

**Snapshot data table**

—: Not applicable

| Snapshot data item | Unit | | Data contents | Data read/use method | Corresponding data monitor items |
|---|---|---|---|---|---|
| AAT | °C | °F | Ambient temperature | — | — |
| APP_STATUS | Accelerator Pedal Off/ Under20%/ Over20%/FAIL | | Accelerator pedal position status | — | — |
| CFG_STATUS | Config Complete/Not Configured/ Config Error | | Instrument cluster configuration status | — | — |

| Snapshot data item | Unit | Data contents | Data read/use method | Corresponding data monitor items |
|---|---|---|---|---|
| ECT_STATUS | Under 0 degrees C/0 - Under 80 degrees C/Over 80 degrees C/ FAIL | Engine coolant temperature status | — | — |
| IC_VPWR | V | Instrument cluster power supply voltage | • The rear body control module (RBCM) constantly receives the power supply voltage value of the instrument cluster sent via CAN signal from the instrument cluster.<br>• If a DTC is detected, the rear body control module (RBCM) records the power supply voltage of the instrument cluster when the DTC was detected, and it is displayed in the M-MDS. | VPWR*1 |
| IG-ON_TIMER | hh:mm:ss*2 | Elapsed time since ignition was switched ON (engine off or on)<br><br>**Note**<br>• The instrument cluster records the elapsed time since the ignition was switched ON (engine off or on). | • The rear body control module (RBCM) constantly receives the elapsed time since the ignition was switched ON (engine off or on) sent via CAN signal from the instrument cluster.<br>• If a DTC is detected, the rear body control module (RBCM) records the elapsed time since the ignition was switched ON (engine off or on) when the DTC was detected, and it is displayed in the M-MDS. | — |
| PWR_MODE_KEY | Key Out/Key Recently Out (Position 0)/ Accessory (Position 1)/ Post Ignition (Position 2)/ Ignition On (Position 2)/ Running (Position 2)/ Running - Starting | • Key Out: Ignition switched off<br>• Key Recently Out (Position 0): Elapsed time **within 3 s** since ignition was switched off<br>• Accessory (Position 1): Ignition is switched to ACC<br>• Post Ignition (Position 2): Elapsed time **within 3 s** since ignition was switched ON (engine off or on)<br>• Ignition On (Position 2): Ignition switched ON (engine off)<br>• Running (Position 2): Ignition switched ON (engine on)<br>• Running - Starting: Cranking condition | • The rear body control module (RBCM) constantly receives the ignition switch status sent via CAN signal from the instrument cluster.<br>• If a DTC is detected, the rear body control module (RBCM) records the ignition switch status when the DTC was detected, and it is displayed in the M-MDS. | — |
| RPM_STATUS | Engine Stop/ Under1500rpm/ Over1500rpm/ FAIL | Engine speed status | • The rear body control module (RBCM) constantly receives the engine speed sent via CAN signal from the instrument cluster.<br>• If a DTC is detected, the rear body control module (RBCM) records the engine speed when the DTC was detected, and it is displayed in the M-MDS. | TACHOMTR*1 |

| Snapshot data item | Unit | | Data contents | Data read/use method | Corresponding data monitor items |
|---|---|---|---|---|---|
| SHIFT_STATUS | P/N/D/R/FAIL | | Selector lever position status | • The rear body control module (RBCM) constantly receives the selector lever position sent via CAN signal from the instrument cluster.<br>• If a DTC is detected, the rear body control module (RBCM) records the selector lever position when the DTC was detected, and it is displayed in the M-MDS. | — |
| TOTAL_DIST | km | Miles | Accumulated total traveled distance from completion of vehicle until rear body control module (RBCM) detects DTC (Odometer value in instrument cluster) | The total traveled distance from which the rear body control module (RBCM) detects DTCs to the present can be calculated by performing the following procedure.<br>1. Verify the odometer value in the instrument cluster.<br>2. Verify the snapshot data item TOTAL_DIST.<br>3. Subtract 2 from 1. | — |
| TOTAL_TIME | hh:mm:ss*2 | | Accumulated total elapsed time since vehicle completion until rear body control module (RBCM) detects a DTC<br>**Note**<br>• When the ROOM fuse is removed, and the ignition is switched off, the time is not included in the elapsed time. | The elapsed time from which the rear body control module (RBCM) detects DTCs to the present can be calculated by performing the following procedure.<br>1. Verify the instrument cluster PID item TOTAL_TIME.<br>2. Verify the snapshot data item TOTAL_TIME.<br>3. Subtract 2 from 1. | TOTAL_TIME*1 |
| VPWR | V | | Rear body control module (RBCM) power supply voltage | — | VPWR_IG1 |
| VSPD_STATUS | Stop/0-10km/h/ Over10km/h/ FAIL | | Vehicle speed status | • The rear body control module (RBCM) constantly receives the vehicle speed sent via CAN signal from the instrument cluster.<br>• If a DTC is detected, the rear body control module (RBCM) records the vehicle speed when the DTC was detected, and it is displayed in the M-MDS. | SPEEDOMTR*1 |

*1 : Instrument cluster PID (See ON-BOARD DIAGNOSTIC [INSTRUMENT CLUSTER].)

*2 : The seconds may be indicated after the decimal point.

**Data monitor function**

- With the PID/data monitor function, input/output signal monitor items set in the rear body control module (RBCM) can be selected and read out in real-time.

**PID/data monitor table**

—: Not applicable

| PID | Unit/ Operation | Data contents | Data read/use method | Inspection item(s) |
|---|---|---|---|---|
| AT_DL_IG | Off/On | • Off: Door lock actuator does not operate to unlock in conjunction with ignition off.<br>• On: Door lock actuator operates to unlock in conjunction with ignition off. | — | Door lock actuator |
| AT_DL_SHIFT | Off/On | • Off: Door lock actuator does not operate to lock or unlock in conjunction with shifting.<br>• On: Door lock actuator operate to lock or unlock in conjunction with shifting. | — | Door lock actuator |
| AT_DL_VSPD | Off/On | • Off: Door lock actuator does not operate to lock in conjunction with vehicle speed.<br>• On: Door lock actuator operates to lock in conjunction with vehicle speed. | — | Door lock actuator |
| BG_HORN_RLY*1 | Off/On | • Off: Theft-deterrent horn relay is off.<br>• On: Theft-deterrent horn relay is on. | — | • Theft-deterrent horn relay<br>• Rear body control module (RBCM) |
| BRAKE_SW*2 | Off/On | • Off: Brake switch (No. 1 signal) is off (brake pedal is not depressed).<br>• On: Brake switch (No. 1 signal) is on (brake pedal is depressed). | — | Brake switch |
| C_DL_SW_LK*3 | Off/On | • Off: Door lock switch is not in lock.<br>• On: Door lock switch is in lock. | — | Door lock switch |
| C_DL_SW_UNL*3 | Off/On | • Off: Door lock switch is not in unlock.<br>• On: Door lock switch is in unlock. | — | Door lock switch |
| CNT_S_COMM | — | The rear body control module (RBCM) counts the lock/unlock request signal (serial transmission) received from the start stop unit.<br>**Note**<br>• If number of times **exceeds 15**, display returns to 0. | If the lock/unlock operation is performed by the remote transmitter or request switch, the start stop unit sends the lock/unlock request signal to the rear body control module (RBCM). If the lock/unlock request signal is received normally, the rear body control module (RBCM) increases the counter by one for the PID. When monitoring PID item CNT_S_COMM, switch the ignition off because the start stop unit does not output the lock/unlock signal when the ignition is switched ON. | Start stop unit |
| DL_MT_A_LK | Off/On | • Off: All door lock actuators are not operated to lock.<br>• On: All door lock actuators are operated to lock. | — | Door lock actuator |
| DL_MT_A_UNL | Off/On | • Off: All door lock actuators are not operated to unlock.<br>• On: All door lock actuators are operated to unlock. | — | Door lock actuator |

| PID | Unit/ Operation | Data contents | Data read/use method | Inspection item(s) |
|---|---|---|---|---|
| DL_MT_D_UNL*4 | Off/On | • Off: Front door lock actuator (driver's side) is not operated to unlock.<br>• On: Front door lock actuator (driver's side) is operated to unlock. | — | Front door lock actuator (driver's side) |
| DL_MT_S-LK*5 | Off/On | • Off: Double locking system is not operated.<br>• On: Double locking system is operated. | — | Door lock actuator |
| DOOR_ALL | Close/ OPEN | • Close: All doors are closed.<br>• OPEN: Any door is open. | — | Door latch switch |
| DOOR_D | Close/ OPEN | • Close: Driver's door is closed.<br>• OPEN: Driver's door is open. | — | Front door latch switch (driver's door) |
| ELAT_MT_RLY | Off/On | • Off: Liftgate latch is not operated to unlock.<br>• On: Liftgate latch is operated to unlock. | — | Liftgate latch and lock actuator |
| ELAT_UNL | Off/On | • Off: Liftgate latch is not operated to unlock.<br>• On: Liftgate latch is operated to unlock. | — | Liftgate latch and lock actuator |
| FUEL_SEN_M | V | Displays input voltage of fuel gauge sender unit input from rear body control module (RBCM) | If the fuel tank level is low, the rear body control module (RBCM) input voltage increases because the fuel gauge sender unit resistance decreases. | Fuel gauge sender unit |
| FUEL_SEN_S*6 | V | Displays fuel gauge sender unit (SUB) input voltage input from rear body control module (RBCM) | If there is no fuel gauge sender unit (SUB), a constant **5 V** is output. | Fuel gauge sender unit (SUB) |
| FUEL_SEN_SV | V | Displays power voltage supplied to fuel gauge sender unit from rear body control module (RBCM)<br>**Caution**<br>**• The battery voltage is supplied to the fuel gauge sender unit from the rear body control module (RBCM), however display of the PID item is controlled by the microcomputer and therefore 5 V is displayed. Accordingly, even if the actual terminal voltage differs from the PID item display, this does not indicate an abnormality.** | After switching the ignition off, supply of the battery voltage to the fuel gauge sender unit from the rear body control module (RBCM) continues until the CAN communication is in the sleep mode. | • Fuel gauge sender unit<br>• Fuel gauge sender unit (SUB) |
| HOOD*7 | Close/ OPEN | • Close: Bonnet is closed.<br>• OPEN: Bonnet is open. | — | Bonnet latch switch |

| PID | Unit/ Operation | Data contents | Data read/use method | Inspection item(s) |
|---|---|---|---|---|
| IG1_SW | Off/On | Displays power input condition of rear body control module (RBCM)<br>• Off: IG1 power is not input to rear body control module (RBCM)<br>• On: IG1 power is input to rear body control module (RBCM) | If there is a malfunction in the IG1 power supply input to the rear body control module (RBCM), the door lock and interior light controls, which the rear body control module (RBCM) controls, do not operate normally because PID item IG1_SW is used for determining ignition on/off for the rear body control module (RBCM). | IG1 relay |
| KC_SW_D_LK | Off/On | • Off: Front door key cylinder switch is not in lock.<br>• On: Front door key cylinder switch is in lock. | — | Front door key cylinder switch |
| KC_SW_D_UNL | Off/On | • Off: Front door key cylinder switch is not in unlock.<br>• On: Front door key cylinder switch is in unlock. | — | Front door key cylinder switch |
| LL_P/R*7 | Unlock/ Other | • Unlock: Front door lock-link switch (passenger's side), rear door lock-link switch (LH), rear door lock-link switch (RH) are in unlock.<br>• Other: Front door lock-link switch (passenger's side), rear door lock-link switch (LH), rear door lock-link switch (RH) are in lock. | — | • Front door lock-link switch (passenger's door)<br>• Rear door lock-link switch (LH)<br>• Rear door lock-link switch (RH) |
| LL_SW_D_LK | Off/On | • Off: Front door lock-link switch (driver's side) is in unlock.<br>• On: Front door lock-link switch (driver's side) is in lock. | — | Front door lock-link switch (driver's door) |
| LL_SW_D_UNL | Off/On | • Off: Front door lock-link switch (driver's side) is in lock.<br>• On: Front door lock-link switch (driver's side) is in unlock. | — | Front door lock-link switch (driver's door) |
| R_FOG_L_CS*8 | Off/On | • Off: Rear fog light on signal is not received.<br>• On: Rear fog light on signal is received. | — | Front body control module (FBCM) |
| R_FOG_LMP*8 | Off/On | • Off: Rear fog light is turned off.<br>• On: Rear fog light is turned on. | — | Rear fog light |
| R_LMP | Off/On | • Off: Back-up light is turned off.<br>• On: Back-up light is turned on. | — | Back-up light |
| R_LMP_CS | Off/On/ Unknown/ Fault | • Off: Back-up light off signal is received.<br>• On: Back-up light on signal is received.<br>• Unknown: Back-up light off signal not determined<br>• Fault: Communication with instrument cluster is failed. | — | • Instrument cluster<br>• Back-up light |
| R_WIP_MT_LO | Off/On | • Off: Rear wiper motor is not operated.<br>• On: Rear wiper motor is operated. | — | Rear wiper motor |
| ROOM_LMP | Off/On | • Off: Map light is turned off.<br>• On: Map light is turned on. | — | • Front map light<br>• Rear map light |
| SEAT_B_2C*9 | Unbuckled/ Buckled | • Unbuckled: Second-row center seat belt is not fastened.<br>• Buckled: Second-row center seat belt is fastened. | — | Rear center buckle switch |

| PID | Unit/ Operation | Data contents | Data read/use method | Inspection item(s) |
|---|---|---|---|---|
| SEAT_B_2L *9 | Unbuckled/ Buckled | • Unbuckled: Second-row left-side seat belt is not fastened.<br>• Buckled: Second-row left-side seat belt is fastened. | — | Rear buckle switch (LH) |
| SEAT_B_2 R*9 | Unbuckled/ Buckled | • Unbuckled: Second-row right-side seat belt is not fastened.<br>• Buckled: Second-row right-side seat belt is fastened. | — | Rear buckle switch (RH) |
| STOP_LMP *2 | Off/On | • Off: Brake light is turned off.<br>• On: Brake light is turned on. | — | Brake light |
| STOP_LMP _CS*2 | Off/On | • Off: Brake light off signal is received.<br>• On: Brake light on signal is received. | — | • Instrument cluster<br>• Brake light |
| T_ROOM_L MP | Off/On | • Off: Cargo compartment light is turned off.<br>• On: Cargo compartment light is turned on. | — | Cargo compartment light |
| T_UNL_SW | Off/On | • Off: Liftgate opener switch is not pressed.<br>• On: Liftgate opener switch is pressed. | — | Liftgate opener switch |
| TRUNK | Close/ OPEN | • Close: Liftgate is closed.<br>• OPEN: Liftgate is open. | — | Liftgate latch switch |
| VPWR_B_R | V | Voltage at rear body control module (RBCM) terminal 2P (+B power supply) is displayed. | — | Battery |
| VPWR_IG1 | V | Voltage at rear body control module (RBCM) terminal 2I (IG1 power supply) is displayed. | — | • IG1 relay<br>• Battery |

*1 : With theft-deterrent horn
*2 : With smart city brake support
*3 : With door lock switch
*4 : With 2-step unlocking
*5 : With double locking system
*6 : 4WD
*7 : With theft-deterrent system
*8 : With rear fog light
*9 : With rear seat belt reminder system

**Active Command Modes Function**

- The active command modes are shown below.

| Simulation item | Unit/ Operation | Data contents | Output part name |
|---|---|---|---|
| BG_HORN_ RLY*1 | Off/On | • Off: Stops theft-deterrent horn.<br>• On: Sounds the theft-deterrent horn. | Rear body control module (RBCM) |
| DL_MT_A | Lock/Unlock | • Lock: Locks all of the doors.<br>• Unlock: Unlocks all of the doors. | Door lock actuater |
| ELAT_MT_ RLY | Off/On | • Off: Stops the liftgate latch release operation.<br>• On: Releases the liftgate latch. | Liftgate Latch And Lock Actuator |
| ELAT_UNL | Off/On | • Off: Stops the liftgate latch release operation.<br>• On: Releases the liftgate latch. | Liftgate Latch And Lock Actuator |
| R_FOG_LM P*2 | Off/On | • Off: Turns off rear fog light.<br>• On: Illuminates rear fog light. | Rear fog light |
| R_LMP | Off/On | • Off: Turns off back-up light.<br>• On: Illuminates back-up light. | Back-up light |
| R_WIP_MT _LO | Off/On | • Off: Stops rear wiper motor.<br>• On: Operates rear wiper motor. | Rear wiper motor |
| STOP_LMP _CS*3 | Off/On | • Off: Turns off brake light.<br>• On: Illuminates brake light. | Brake light |

*1 : With theft-deterrent horn
*2 : With rear fog light
*3 : With smart city brake support