| Last Modified: 12-04-2024 | 6.11:8.1.0 | Doc ID: RM10000002A05W | | | |
|---|--------------------|-----------------------------|---|--|--|
| Model Year Start: 2023 | Model: Prius Prime | Prod Date Range: [12/2022 - |] | | |
| Title: PA10/PB10/PB12 (HYBRID TRANSMISSION / TRANSAXLE): ELECTRONIC SHIFT LEVER SYSTEM: DATA LIST / | | | | | |
| ACTIVE TEST; 2023 - 2024 MY Prius Prius Prime [12/2022 -] | | | | | |

DATA LIST / ACTIVE TEST

DATA LIST

NOTICE:

- Some Data List values may vary significantly if there are slight differences in the environment in which the vehicle is operating when measurement is performed. Variations may also occur due to aging of the vehicle. Due to these considerations, it is not always possible to provide definite values to be used for judgment of malfunctions. It is possible that a malfunction may be present even if measured values are within the "Normal Condition" range.
- In the event of a problem with intricate symptoms, collect sample data from another vehicle of the same model operating under identical conditions in order to reach an overall judgment by comparing all the items in the Data List.
- In the table below, the values listed under "Normal Condition" are reference values. Do not depend solely on these reference values when deciding whether a part is faulty or not.

HINT:

Using the GTS to read the Data List allows the values or states of switches, sensors, actuators and other items to be read without removing any parts. This non-intrusive inspection can be very useful because intermittent conditions or signals may be discovered before parts or wiring is disturbed. Reading the Data List information early in troubleshooting is one way to save diagnostic time.

(a) According to the display on the GTS, read the Data List.

HINT:

When reading the Data List, first determine which items need to be monitored before proceeding. Attempting to view all of the data may result in a delayed, inaccurate inspection.

Powertrain > Hybrid Control > Data List

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|-------------------------|-----------------------------------|---|--|--------------------|
| Vehicle Speed | Vehicle speed | Min.: 0 km/h (0 mph), Max.: 255 km/h (158 mph) | 0 km/h (0 mph): Vehicle stopped No significant fluctuation: While driving at a constant speed | - |
| Accelerator Position | Accelerator pedal depressed angle | Min.: 0%, Max.: 127.5% | 0%: Accelerator pedal released 100%: Accelerator pedal fully depressed | - |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|---|--|--|---|--------------------|
| Master Cylinder Control Torque | Braking torque equivalent to master cylinder brake fluid pressure (Total braking | Min.: -4096.00 Nm, Max.: 4095.87 Nm | Changes with the brake pedal pressure: Brake pedal depressed | |
| | torque) | | | |
| Shift Position | Current shift state | P / R / N / D / B (S) | The selected shift state is displayed | - |
| Shift Position (Meter) | Shift position on the meter | Not Displayed / P / R / N / D / B (S) | The selected shift state is displayed | - |
| Ready Signal | READY state is displayed | ON / OFF | ON: Ignition switch ON (READY) | - |
| HV/EV Activate Condition | Startup state of the hybrid system | Normal / Remote Air Control System / Remote | Normal: Started by ignition switch Remote Air Control System: Started by remote air conditioning system Remote: Started by remote starter | - |
| Request Motor Regenerative Brake Torque | Requested motor (MG2) regenerative braking torque | Min.: -4096.00 Nm, Max.: 4095.87 Nm | While braking: Varies depending on vehicle operation conditions | - |
| Auxiliary Battery Voltage Low Times | Auxiliary battery voltage low times | Min: 0, Max: 255 | - | - |
| P Control Request Status | Shift actuator ECU (shift control actuator assembly) operation request | No Request / Lock(Normal) / Unlock(Normal) / Lock(Abnormal) / Unlock(Abnormal) / Unlock during Running(Normal) / Unlock during Running(Abnormal) | No Request: Ignition switch ON, no shift operation | - |
| P Control Status | Shift state P status | Control Duty Abnormal / Lock Position(Normal) / Lock | Lock Position(Normal): | - |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|--|--|---|---|--|
| | | Position(Abnormal) / Indefinite Position(Normal) / Indefinite Position(Abnormal) / Unlock Position(Normal) / Unlock Position(Abnormal) / Lock Position(Abnormal) / Lock Position(Abnormal) / Indefinite Position(Normal) / Indefinite Position(Abnormal) / Unlock Position(Normal) / Unlock Position(Abnormal) / Unlock | Ignition switch ON, no shift operation | |
| Abnormality Informing Status | Malfunction notifications of other systems | ON / OFF | ON: Malfunction occurring in this system OFF: Malfunction not occurring in this system | - |
| P Position Automatic Change Request | P position automatic change function request status | ON / OFF | - | - |
| Limiting Driving Force Request from Transmission Control System | Drive torque limit request status of the HV system sent from the electronic shift lever system | ON / OFF | OFF: Fail-safe control not being performed | - |
| SP1 Vehicle Speed | Vehicle speed (SP1) | Min.: 0 km/h (0 mph), Max.: 655.35 km/h (407.23 mph) | The same as actual vehicle speed | - |
| Gear Shift Control Module Power Supply Voltage | Shift control ECU power supply voltage | Min.: -20.00 V, Max.: 19.84 V | 8.00 to 15.40 V | Displays terminal BATT voltage of the shift control ECU |
| Gear Shift Control Module "B" CPU Temperature | Shift actuator ECU internal temperature | Min.: -50°C (-58°F), Max.: 205°C (401°F) | 0°C (32°F) to 205°C (401°F) | - |
| IGCT Signal Status (Gear Shift Control Module) | IGCT signal status of the shift control ECU | ON / OFF | ON: Ignition switch ON | Displays the ON/OFF value of terminal IGCT input signal |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|---|---|---|--|---|
| IGCT Signal Status (Gear Shift Control Module "B") | IGCT signal status of the shift actuator ECU | ON / OFF | ON: Ignition switch ON | Displays the ON/OFF value of terminal IGC1 input signal |
| IGP Signal Status (Gear Shift Control Module) | IGP signal status of the shift control ECU | ON / OFF | ON: Ignition switch ON | Displays the ON/OFF value of terminal IGP input signal |
| IG Status (Gear Shift Control Module "B") | IG status of the shift actuator ECU | ON / OFF | ON: Ignition switch ON | - |
| WAKE Signal Status (Gear Shift Control Module) | WAKE signal status of the shift control ECU | ON / OFF | ON: WAKE signal ON OFF: WAKE signal OFF | Displays the ON/OFF value of terminal WAKE output signal |
| WAKE Signal Status (Gear Shift Control Module "B") | WAKE signal status of the shift actuator ECU | ON / OFF | ON: WAKE signal ON OFF: WAKE signal OFF | Displays the ON/OFF value of terminal WAKE input signal |
| Backup Power Supply Type | Backup supply power type | Capacitor Type / Lithium Type / None | - | - |
| Gear Shift Control Module Backup Signal Status | System backup signal from the backup supply power | Wake Up Request / Capacitor Internal Failure / Backup Mode (Low Capacity) / Backup Possible/Remote Charging Complete / Backup Impossible / Communication Stop / Backup Possible/Remote Charging Incomplete / Capacitor Internal Failure (Backup Possible) / Capacitor External Failure / Capacitor External Failure (Backup Possible) / Capacitor External Failure (Brake Factor) | Normal: Backup Possible/Remote Charging Complete | Displays the integrated capacitor status based on the waveform input to the BUBI terminal of the shift control ECU |
| Gear Shift Control Module Backup Request | System backup request from the backup supply power | Wake Up/Sleep Permission / Interruption Permission (Not Remote) / ON (Not Remote) / OFF (Not Remote) / ON (Advanced Park) / OFF | - | - |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|--|---|---|--|--|
| | | (Advanced Park) / ON (Stop&Start) | | |
| Fail Safe Status (Gear Shift Control Module) | Fail-safe status of the shift control ECU | Unknown / OFF / ON | - | Hybrid vehicle control ECU SBFS terminal |
| Fail Safe Status (Gear Shift Control Module "B" to "A") | Shift control ECU fail-safe status from the shift actuator ECU | Normal / Abnormal / Unknown | - | Shift control ECU FS terminal |
| Fail Safe Power Supply Relay Connect Request | Requested connection status of the shift actuator ECU motor drive relay (fail safe power supply) | ON / OFF | OFF: Connection not requested ON: Connection requested | - |
| Shift Position (Current Position) | Actual shift lever position (judged value) | Home / R / N / D / B/M/S / Not Available | Home: Shift lever in home position R: Shift lever in R N: Shift lever in N D: Shift lever in D B/M/S: Shift lever in B | - |
| Shift Sensor Status | Shift sensor malfunction status | Normal / Abnormal / Abnormal (Extreme) | - | - |
| Shift Sensor 1 Status | Shift lever sensor input signal status | H / R / N / D / B/M/S / O / Abnormal / Unknown | Home: Shift lever in home position R: Shift lever in R N: Shift lever in N D: Shift lever in D B/M/S: Shift lever in B O: Outside of range | Shift sensor (type 1) |
| Shift Sensor 2 Status | Shift lever sensor input signal status | H / R / N / D / B/M/S / O / Abnormal / Unknown | Home: Shift lever in home position R: Shift lever in R N: Shift lever in N D: Shift lever in D | Shift sensor (type 2) |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|---|--|---|---|--------------------------------|
| | | | B/M/S: Shift lever in B O: Outside of range | |
| | | | Home: Shift lever in home position | |
| Shift Sensor 3 Status | Shift lever sensor input signal status | H / R / N / D / B/M/S / O / Abnormal / Unknown | R: Shift lever in R N: Shift lever in N D: Shift lever in D B/M/S: Shift lever in B O: Outside of range | Shift sensor (type 3) |
| M or S Shift Position Indicator Turn On Request | Shift position indicator (B) illumination status | ON / OFF | ON: Shift state B OFF: Shift state not B | - |
| D Shift Position Indicator Turn On Request | Shift position indicator (D) illumination status | ON / OFF | ON: Shift state drive (D) OFF: Shift state not drive (D) | - |
| N Shift Position Indicator Turn On Request | Shift position indicator (N) illumination status | ON / OFF | ON: Shift state neutral (N) OFF: Shift state not neutral (N) | - |
| R Shift Position Indicator Turn On Request | Shift position indicator (R) illumination status | ON / OFF | ON: Shift state reverse (R) OFF: Shift state not reverse (R) | - |
| P Shift Position Indicator Turn On Request | P position indicator illumination status | ON / OFF | ON: Shift state park (P) OFF: Shift state not park (P) | - |
| Back Up Light Turn On Request | Back-up light illumination command | ON / OFF | ON: Back-up light illuminated OFF: Back-up light not illuminated | BL (terminal) output status |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|--|--|--|---|---|
| Stop Light Switch (Gear Shift Control Module) | Stop light switch status | ON / OFF | ON: Brake pedal depressed OFF: Brake pedal released | - |
| P Position Switch Signal Status (Gear Shift Control Module) | P position switch status | ON / OFF | ON: P position switch pushed and held OFF: P position switch not pushed | - |
| Not P Position Learning Value (Output Side) | Learned value (output axis) in accordance with the shift state other than P | Min.: 0.0 deg, Max.: 124.5 deg | 21.8 to 35.8 deg | - |
| Not P Position Learning Value (Motor Side) | Learned value (calculated output axis angle based on the detected motor axis angle) in accordance with the shift state other than P | Min.: 0.00 deg, Max.: 42949672.95 deg | 50.20 to 64.60 deg | - |
| Absolute Angle Sensor Value 1 | Value of axis sensor 1 (detected angle) | Min.: 0.0 deg, Max.: 124.5 deg | 0.0 to 46.6 deg | - |
| Absolute Angle Sensor Value 2 | Value of axis sensor 2 (detected angle) | Min.: 0.0 deg, Max.: 124.5 deg | 0.0 to 46.6 deg | - |
| Gear Shift Actuator Power Supply Voltage (MA1) | Voltage of gear shift motor supply power terminal (MA1) | Min.: 0 V, Max.: 255 V | 8 to 15 V | Displays the voltage input signal of shift control ECU terminal (MA1) |
| Gear Shift Actuator Power Supply Voltage (MA2) | Voltage of gear shift motor supply power terminal (MA2) | Min.: 0 V, Max.: 255 V | 8 to 15 V: Ignition switch ON | Displays the voltage input signal of shift control ECU terminal (MA2) |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|---|---|---|---|--|
| Gear Shift Actuator Motor Angle Sensor Value | Value of motor axis sensor (detected angle) | Min.: 0.00 deg, Max.: 358.59 deg | 0.00 to 358.59 deg | - |
| Gear Shift Actuator Motor Speed | Gear shift motor rotation speed | Min.: 0.00 rpm deg, Max.: 10160.15 rpm | 0.00 to 10000.00 rpm | - |
| Gear Shift Actuator Power Supply Relay Downstream Voltage | Internal voltage of the actuator downstream of the motor supply power relay | Min.: 0 V, Max.: 255 V | 8 to 15 V: Ignition switch ON | Internal voltage of shift control actuator |
| U Phase Parking Lock Motor Current-Carrying Status (Gear Shift Control Module "B") | Parking lock motor (U phase) drive signal | ON / OFF | ON: U phase energized OFF: U phase not energized | - |
| V Phase Parking Lock Motor Current-Carrying Status (Gear Shift Control Module "B") | Parking lock motor (V phase) drive signal | ON / OFF | ON: V phase energized OFF: V phase not energized | - |
| W Phase Parking Lock Motor Current-Carrying Status (Gear Shift Control Module "B") | Parking lock motor (W phase) drive signal | ON / OFF | ON: W phase energized OFF: W phase not energized | - |
| U Phase Parking Lock Motor Terminal Current | Current of the parking lock motor terminal (U phase) | Min.: -64.0 A, Max.: 63.5 A | -62.5 to 62.5 A | - |
| V Phase Parking Lock Motor Terminal Current | Current of the parking lock motor terminal (V phase) | Min.: -64.0 A, Max.: 63.5 A | -62.5 to 62.5 A | - |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|---|--|---|---|--------------------|
| W Phase Parking Lock Motor Terminal Current | Current of the parking lock motor terminal (W phase) | Min.: -64.0 A, Max.: 63.5 A | -62.5 to 62.5 A | - |
| ACT Relay Connect Status | Connection status of drive relay of the shift actuator ECU motor | ON / OFF | OFF: Not connected ON: Connected | - |
| ACT Relay Connect Request | Requested connection status of drive relay of the shift actuator ECU motor | ON / OFF | OFF: Connection not requested ON: Connection requested | - |
| ACT Position Status | Status of the shift actuator ECU | Other than P / None / Shift in P | Shift in P: Shift state P Other than P: Shift state not P None: Other than above | - |
| ACT Position Drive Request | Operation request position of the shift actuator ECU | Output NG / Shift in P / Other than P | Shift in P: P position request Other than P: Not P position Output NG: Not requested | - |
| ACT Operation Status | Operation status of the shift actuator ECU | ON / OFF | OFF: Shift actuator ECU stopped ON: Shift actuator ECU changing | - |
| ACT Function Informing Status | Function failure status of the shift actuator ECU | Normal / Maintenance / Outside Judgment Guaranteed / Outside Operation Guaranteed / Outside Judgment/Operation Guaranteed / Operation NG / Operation NG/Outside Judgment Guaranteed | Normal: Normal condition Other than above: Malfunctioning | - |
| ACT Monitoring Information | Monitor status of the shift actuator ECU | Normal / Driver Malfunction 1 / Driver Malfunction 2 / Driver Malfunction 3 / Driver Malfunction 4 / Driver | Normal: Normal condition | - |

| TESTER DISPLAY | MEASUREMENT | RANGE | NORMAL | DIAGNOSTIC |
|---|--|--|---|---|
| | ITEM | | CONDITION | NOTE |
| | | Malfunction 5 / Driver Malfunction 6 / Sensor Malfunction 1 / Sensor Malfunction 2 / Sensor Malfunction 3 / Driver Malfunction 7 / Motor Malfunction 1 / Motor Malfunction 2 / Motor Malfunction 3 | Other than above: Malfunctioning | |
| ACT Position Learning Complete Status | Learning complete status of the shift actuator ECU | Incomplete / Running / Abort / Complete | Incomplete: Before learning Running: Learning in progress Abort: Learning failed Complete: Learning complete / normal | When the shift actuator ECU (shift control actuator assembly) has been removed, perform initialization and learning and confirm that they complete successfully. |
| Shift Request during Advanced Drive/Park | Shift request during advanced park operation | OFF / ON (Gear Shift Control Module) / ON (Clearance Warning Control Module Semi- Auto) / ON (Clearance Warning Control Module Full-Auto) / ON (Advanced Drive Control Module) | OFF: No shift request ON (Gear Shift Control Module): Is shift request | - |
| IGCT-Scene Signal Status (Gear Shift Control Module) | IGCT-SCENE signal status of the shift control ECU | ON / OFF | ON: Ignition switch ON | Displays the ON/OFF value of terminal IGCT or IGS input signal |
| IGCT-Scene Signal Status (Gear Shift Control Module "B") | IGCT-SCENE signal status of the shift actuator ECU | ON / OFF | ON: Ignition switch ON | Displays the ON/OFF value of terminal IGC1 or IGS1 input signal |
| Shift P Operation during Running Trigger Counter | Number of times P switch was pressed while vehicle being driven | Min: 0, Max: 255 | - | - |
| Shift P Operation before Vehicle | Number of times shift state was not | Min: 0, Max: 255 | - | - |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|---|--|------------------|---------------------|--------------------|
| Stop Trigger Counter | changed to P when P position switch was operated before vehicle stopped | | | |
| Shift P Operation during Other than Shift P Operation Trigger Counter | Number of times the P position switch was operated when the shift lever was not in the home position | Min: 0, Max: 255 | - | - |
| Auto Change to Shift Position P Cancel Trigger Counter | Number of times P position automatic change function did not operate | Min: 0, Max: 255 | - | - |
| Voltage Low for Shift Control System Trigger Counter | Number of times shift control system did not operate due to low voltage | Min: 0, Max: 255 | - | - |
| Shift Operation when Auxiliary Battery Voltage Low Trigger Counter | Number of times a shift operation was performed while auxiliary battery voltage was low | Min: 0, Max: 255 | - | - |
| Consecutive Shift Change between Shift P and Other than Shift P in Short Times Trigger Counter | Number of times shift state was attempted to be changed between P and other than P within a short period of time | Min: 0, Max: 255 | - | - |
| Shift Operation during Ready Indicator Blinking Trigger Counter | Number of times shift state was attempted to be changed from P with READY indicator light blinking | Min: 0, Max: 255 | - | - |
| Shift R/D/B(S) Operation during | Number of times shift state was attempted to be | Min: 0, Max: 255 | - | - |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|--|---|------------------|---------------------|--------------------|
| Ready OFF Trigger Counter | changed to R, D or B with READY indicator not illuminated | | | |
| Shift Operation without Depressing Brake from Shift Position P Trigger Counter | Number of times shift state was attempted to be changed from P with brake pedal not depressed | Min: 0, Max: 255 | - | - |
| Shift Operation during Accelerator & Brake Depress Trigger Counter | Number of times shift state was attempted to be changed from P with READY indicator light illuminated and accelerator and brake pedals depressed | Min: 0, Max: 255 | - | - |
| Shift B(S) Operation from Shift Position P/N Trigger Counter | Number of times shift state was attempted to be changed from P or N to B | Min: 0, Max: 255 | - | - |
| Shift B(S) Operation from Shift Position R Trigger Counter | Number of times shift state was attempted to be changed from R to B | Min: 0, Max: 255 | - | - |
| Shift D Operation during Backward Movement Trigger Counter | Number of times shift state was attempted to be changed to D while reversing | Min: 0, Max: 255 | - | - |
| Shift R Operation during Forward Movement Trigger Counter | Number of times shift state was attempted to be changed to R while driving forward | Min: 0, Max: 255 | - | - |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|---|---|------------------|---------------------|--------------------|
| Shift R/D Operation during Ready OFF Trigger Counter | Number of times shift state was attempted to be changed to R, D or B with READY indicator not illuminated and the ignition switch ON | Min: 0, Max: 255 | - | - |
| Shift N Operation during Running Trigger Counter | Number of times shift state was changed to N by holding shift lever in N for a certain amount of time while driving | Min: 0, Max: 255 | - | - |
| Quick Shift Operation to Shift Position N during Running Trigger Counter | Number of times shift state was changed to N when shift lever not held in N while driving | Min: 0, Max: 255 | - | - |
| Shift N Change by Busy Shift Trigger Counter | Number of times shift state was changed to neutral (N) by moving the shift lever to R, D and/or N repeatedly within short period of time | Min: 0, Max: 255 | - | - |
| Shift N Operation on The Way Back to Home Position after Shift D/R Operation Trigger Counter | Number of times shift state was changed to N when shift lever was returning from R or D | Min: 0, Max: 255 | - | - |
| Shift R Operation on The Way Back to Home Position after Shift D Operation Trigger Counter | Number of times shift state was changed to D when shift lever was returning from R | Min: 0, Max: 255 | - | - |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|---|---|------------------|---------------------|--------------------|
| Shift D Operation on The Way Back to Home Position after Shift R Operation Trigger Counter | Number of times shift state was changed to R when shift lever was returning from D | Min: 0, Max: 255 | - | - |
| Shift N Operation at Short Times during Low Speed/Stopping Trigger Counter | Number of times shift state was attempted to be changed to N without holding shift lever in N for a long enough time when driving at low speed or stopped | Min: 0, Max: 255 | - | - |
| Shift P Repeated Operation Trigger Counter during Running | Number of times shift state changed to N as P position switch was consecutively operated while driving | Min: 0, Max: 255 | - | - |
| Shift P Hold Down Trigger Counter during Running | Number of times shift state changed to N as P position switch was pressed and held while driving | Min: 0, Max: 255 | - | - |
| Shift P Operation when Auxiliary Battery Low Voltage Trigger Counter | Number of times that the P position switch was operated during battery power failure | Min: 0, Max: 255 | - | - |
| Auto Change to Shift Position P when Driver Get Out Trigger Counter | Number of times shift state changed to P automatically due to driver exiting vehicle | Min: 0, Max: 255 | - | - |
| Shift Position N Hold Mode ON during IG | Number of times the ignition switch | Min: 0, Max: 255 | - | - |

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|---|---|------------------|---------------------|--------------------|
| OFF/ACC ON Trigger Counter | was turned off with the shift state N | | | |
| Shift Operation on Gradient during Ready OFF Trigger Counter | Number of times a shift operation was performed while on an incline with the ignition switch ON, not in READY mode | Min: 0, Max: 255 | - | - |
| Shift Operation during Advanced Drive/Park Trigger Counter | Number of times a shift operation was performed while advanced drive or advanced park was operating | Min: 0, Max: 255 | - | - |
| Shift P Operation during Advanced Drive/Park Trigger Counter | Number of times the P position switch was operated while advanced drive or advanced park was operating | Min: 0, Max: 255 | - | - |
| Shift Operation during Release Shift P Restriction Request Trigger Counter | Number of times shift state was attempted to be changed from P during P release prohibit request | Min: 0, Max: 255 | - | - |
| Shift D/R Operation Rejection from Shift Position N without Depressing Brake Pedal Trigger Counter | Number of times shift state was attempted to be changed from N to drive state with brake pedal not depressed | Min: 0, Max: 255 | - | - |
| Shift D/R Operation Rejection from Shift Position N during Accelerator Pedal Depress Trigger Counter | Number of times shift state was attempted to be changed from N to drive state with accelerator pedal depressed | Min: 0, Max: 255 | - | - |

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