

Read Current Data

KEYLESS ACCESS WITH PUSH BUTTON START SYSTEM (DIAGNOSTICS)

8. Read Current Data

A: OPERATION

For operation procedures, refer to the “PC application help for Subaru Select Monitor”.

B: LIST

1. Keyless access system

| Items to be displayed | Unit of measure | Content | Note |
|--|-------------------------------|----------------------------------|---|
| Driver's unlock touch sensor switch | ON/OFF | Keyless access CM input value | ON when the touch sensor (unlock) built on the back surface of the driver's door outer handle is touched |
| Passenger's unlock touch sensor switch | ON/OFF | Keyless access CM input value | ON when the touch sensor (unlock) built on the back surface of the passenger's door outer handle is touched |
| Driver's lock touch sensor SW | ON/OFF | Keyless access CM input value | ON when the touch sensor (lock) built on the surface of the driver's door outer handle is touched |
| Passenger's lock touch sensor SW | ON/OFF | Keyless access CM input value | ON when the touch sensor (lock) built on the surface of the passenger's door outer handle is touched |
| Rear Gate Request SW | ON/OFF | Keyless access CM input value | ON when rear lock button is pressed |
| IGN SW | ON/OFF | Keyless access CM input value | ON when ignition is ON |
| B/up fuse | Connecting/ Not connected | Keyless access CM internal value | When backup fuse is connected/connecting |
| ACC SW | ON/OFF | Keyless access CM input value | ON when accessory or ignition is ON |
| Incorrect vehicle ID | Yes/No | Keyless access CM internal value | Yes when the access key is different when keyless access is performed |
| No response | Yes/No | Keyless access CM internal value | Yes when there is no response from the access key when keyless access is performed |
| Incorrect response code, format | Yes/No | Keyless access CM internal value | Yes if the response from the access key differs when keyless access is performed |
| Exhausted battery | Yes/No | Keyless access CM internal value | Yes if the access key battery is depleted |
| Incorrect response code, ID code | Yes/No | Keyless access CM internal value | Yes if the response from the access key differs when keyless access is performed |
| Incorrect response code, collation result | Yes/No | Keyless access CM internal value | Yes if the response from the access key differs when keyless access is performed |
| Incorrect ID code | Yes/No | Keyless access CM internal value | Yes if the response from the access key differs when keyless access is performed |
| Incorrect rolling code | Yes/No | Keyless access CM internal value | Yes if the response from the access key differs when keyless access is performed |
| Smart Cancel | Cancel/Normal | Keyless access CM internal value | Cancel in the keyless access function stopped condition |
| ID Code Box W/H Connection State | Connecting/ Not connected | Keyless access CM internal value | When ID code box is connected/connecting |
| ID Code Box Existence Judging | ON/OFF/Existence Judging | Keyless access CM internal value | |
| Immobilizer | Set/Unset | Keyless access CM internal value | |
| Remote engine starter communication ID confirmation | Collation NG/ Collation OK | Keyless access CM internal value | OK when ID collation with remote control engine starter succeeds |
| Remote engine starter code registration confirmation | Collation NG/ Collation OK | Keyless access CM internal value | OK when remote control engine starter is already registered |
| STLC sleep possible status | Possible/ Impossible | Steering lock CM internal value | |
| STLC wake-up transmission status | Transmission/No transmission | Steering lock CM internal value | |

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| Items to be displayed | Unit of measure | Content | Note |
|---|--|----------------------------------|--|
| Lock side sensor status | ON/OFF | Steering lock CM internal value | ON when steering lock is locked |
| Unlock side sensor status | ON/OFF | Steering lock CM internal value | ON when steering lock is unlocked |
| Lock confirmation | Confirmed/ Unconfirmed | Steering lock CM internal value | Confirmed when steering lock is locked |
| Unlock confirmation | Confirmed/ Unconfirmed | Steering lock CM internal value | Confirmed when steering lock is unlocked |
| Sensor initialization | Completed/ Not Completed | Steering lock CM internal value | |
| Motor protection control status | Rejected range/ Permitted range | Steering lock CM internal value | |
| Motor operation prohibition voltage evaluation | ON/OFF | Steering lock CM internal value | |
| Diagnosis response | Normal/ Response | Steering lock CM internal value | |
| Sensor abnormal | Normal/Abnormal | Steering lock CM internal value | Abnormal when a trouble occurs in steering lock CM |
| Motor power supply short-circuit abnormal | Normal/Abnormal | Steering lock CM internal value | Abnormal when a trouble occurs in steering lock CM |
| Motor driver short-circuit abnormal | Normal/Abnormal | Steering lock CM internal value | Abnormal when a trouble occurs in steering lock CM |
| Lock bar engagement abnormal | Normal/Abnormal | Steering lock CM internal value | ON when the steering lock bar has experienced interference |
| Push start abnormal | Normal/Abnormal | Steering lock CM internal value | Abnormal when a trouble occurs in steering lock CM |
| Lock side relay operation | Stopped/ Activating | Steering lock CM internal value | |
| Unlock side relay operation | Stopped/ Activating | Steering lock CM internal value | |
| Motor drive FET drive | Stopped/ Activating | Steering lock CM internal value | |
| Motor reversal protection control | Stopped/ Activating | Steering lock CM internal value | |
| Engine start | Engine start permission/Engine start prohibition | Steering lock CM internal value | Permission when ignition ON |
| Sensor abnormal (past) | Normal/Abnormal | Steering lock CM internal value | Abnormal when a trouble occurs in steering lock CM |
| Motor power supply short-circuit abnormal (past) | Normal/Abnormal | Steering lock CM internal value | Abnormal when a trouble occurs in steering lock CM |
| Motor driver short-circuit abnormal (past) | Normal/Abnormal | Steering lock CM internal value | Abnormal when a trouble occurs in steering lock CM |
| Steering lock lock/unlock command reception history | ON/OFF | Steering lock CM internal value | ON when steering lock is locked → unlocked, unlocked → locked |
| Lock bar engagement abnormal (past) | ON/OFF | Steering lock CM internal value | ON when the steering lock bar has experienced interference in the past |
| Push start abnormal (past) | Normal/Abnormal | Steering lock CM internal value | Abnormal when a trouble occurs in steering lock CM |
| STLC Abnormal EEPROM access | Normal/Abnormal | Steering lock CM internal value | Abnormal when a trouble occurs in steering lock CM |
| ID code BOX sleep possible status | Impossible/ Possible | Keyless access CM internal value | |
| ID code BOX wake-up transmission status | No transmission/ Transmission | Keyless access CM internal value | |
| ID code BOX Abnormal EEPROM access (now) | Normal/Abnormal | Keyless access CM internal value | |

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|---|--|----------------------------------|--|
| EGI code reception status | Reception/ Not yet received | Keyless access CM internal value | Reception at engine start operation |
| Engine start permission request reception status | Reception/ Not yet received | Keyless access CM internal value | Reception at ignition ON |
| Provisional injection request reception status | Reception/ Not yet received | Keyless access CM internal value | Reception at ignition ON |
| Code collation result between smart ECM and ID code box | Normal/Abnormal | Keyless access CM internal value | Normal when engine start is allowed |
| Code collation result between steering locked ECM and ID code box | Normal/Abnormal | Keyless access CM internal value | Normal when steering lock operation allowed |
| Steering lock unlock request reception status | Reception (keep 10 sec)/ Not yet received | Keyless access CM internal value | Reception when steering lock is performing unlock |
| Steering lock lock request reception status | Reception (keep 10 sec)/ Not yet received | Keyless access CM internal value | Reception when steering lock is performing lock |
| Driver's external transmitter output circuit abnormal | Normal/Abnormal | Keyless access CM internal value | Abnormal when a trouble occurs in transmitter output circuit |
| Passenger's external transmitter output circuit abnormal | Normal/Abnormal | Keyless access CM internal value | Abnormal when a trouble occurs in transmitter output circuit |
| Driver's external transmitter output circuit abnormal (past) | Normal/Abnormal | Keyless access CM internal value | Abnormal when a trouble occurs in transmitter output circuit in the past |
| Passenger's external transmitter output circuit abnormal (past) | Normal/Abnormal | Keyless access CM internal value | Abnormal when a trouble occurs in transmitter output circuit in the past |
| ID code registration mode status | Normal/Regist./ Deletion | — | For immobilizer registration |
| Smart related ECM code registration mode status | On mode/Normal | | |
| ID code collation completion confirmation | Completed/ Normal | | |
| ID code registration completion confirmation | Completed/ Normal | | |
| Smart related ECM code registration completion confirmation | Completed/ Normal | | |
| Registered smart key confirmation status | Confirming/ Normal | | |
| Smart related ECM code confirmation status | Confirming/ Normal | | |
| ID code registration status | Registering/ Normal | | |
| ID code collation status | Normal/Collating the immobilizer/ Collating the smart | | |
| All registered keys confirmation status | Confirming/ Normal | | |
| Confirmed number of all registered keys | 0 — 7 | | |
| Number of required registrations (smart) | 0 — 7 | | |
| Number of collation completed (smart) | 0 — 7 | | |

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|---|------------------------------|----------------------------------|--|
| Number of registration completed (smart) | 0 — 7 | Keyless access CM internal value | Number of recognized keyless access CM |
| ID Code Box | Connecting/ Not connected | Keyless access CM internal value | Connecting with ID code box normal connection |
| Steering Lock ECM | Connecting/ Not connected | Keyless access CM internal value | Connecting with steering lock CM normal connection |
| Driver's lock request SW/ touch sensor switch ON edge record | ON/OFF | Keyless access CM internal value | <p>The display is continued when the collation is once established by the combination indicated on the left.</p> <p>NOTE: When confirming the data on the left, confirm after performing Keyless access system check. <Ref. to KPS(diag)-28, Keyless Access System Check.></p> |
| Passenger's unlock request SW/touch sensor switch ON edge record | ON/OFF | Keyless access CM internal value | |
| Rear gate lock request SW ON edge history | ON/OFF | Keyless access CM internal value | |
| Driver's unlock touch sensor switch ON edge record | ON/OFF | Keyless access CM internal value | |
| Passenger's unlock touch sensor switch ON edge record | ON/OFF | Keyless access CM internal value | |
| Collation OK result history (driver's external transmitter + interior tuner) | ON/OFF | Keyless access CM internal value | |
| Collation OK result history (passenger's external transmitter + interior tuner) | ON/OFF | Keyless access CM internal value | |
| Collation OK result history (front interior transmitter + interior tuner) | ON/OFF | Keyless access CM internal value | |
| Collation OK result history (rear interior transmitter + interior tuner) | ON/OFF | Keyless access CM internal value | |
| Collation OK result history (rear gate internal transmitter + interior tuner) | ON/OFF | Keyless access CM internal value | |
| Collation OK result history (rear gate external transmitter + interior tuner) | ON/OFF | Keyless access CM internal value | |
| Collation OK result history (immobilizer amplifier + immobilizer amplifier) | ON/OFF | Keyless access CM internal value | |
| Push start SW 1 | ON/OFF | Keyless access CM input value | ON when push button start is pressed |
| Push start SW 2 | ON/OFF | Keyless access CM input value | ON when push button start is pressed |
| Stop Light Switch | ON/OFF | Keyless access CM input value | ON when brake pedal is depressed |
| Steering Unlock Switch | ON/OFF | Keyless access CM input value | OFF when steering locked |
| Shift P signal(AT only) | ON/OFF | Keyless access CM input value | ON when the shift position is "P" |
| Neutral SW/Clutch SW | ON/OFF | Keyless access CM output value | ON when the shift position is at "P" or "N" |
| Shift N signal(AT only) | ON/OFF | Keyless access CM input value | ON when the shift position is "N" |
| Delivery mode signal(AT only) | ON/OFF | Keyless access CM input value | |
| IGN2 relay monitor (drive output) | ON/OFF | Keyless access CM output value | ON during IG relay 2 (push button start) drive output |
| IGN1 relay monitor (drive output) | ON/OFF | Keyless access CM output value | ON during IG relay 1 (push button start) drive output |
| ACC relay monitor | ON/OFF | Keyless access CM output value | ON during accessory relay (push button start) drive output |

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|--------------------------------------|--|---|--|
| IGN2 relay monitor (coil voltage) | ON/OFF | Keyless access CM output value | ON during IG relay 2 (push button start) drive output |
| IGN1 relay monitor (coil voltage) | ON/OFF | ON during IG relay 1 (push button start) drive output | ON during IG relay 1 (push button start) drive output |
| IGN latch monitor | ON/OFF | Keyless access CM output value | ON during IG relay 2 (push button start) drive output |
| STSW signal monitor | ON/OFF | Keyless access CM output value | ON when brake pedal (except MT model) or clutch pedal (MT model) is depressed, and push button ignition switch is pressed |
| ACCR signal | ON/OFF | Keyless access CM input value | ON during starter relay drive output |
| Vehicle speed signal | Drive status/Stop status | Keyless access CM input value | Set as "Drive status" when vehicle speed is input |
| Engine Speed | Rotating/Stopped | Keyless access CM input value | Set as "Rotating" while the engine is running |
| Power supply status | All OFF status | Keyless access CM output value | Displayed when IG relay 1 (push button start), IG relay 2 (push button start), and accessory relay (push button start) are all OFF |
| | ACC relay ON status | Keyless access CM output value | Displayed when accessory ON |
| | IGN1 relay ON status | Keyless access CM output value | Displayed when ignition ON |
| | IGN2 relay ON status | Keyless access CM output value | Displayed when ignition ON |
| | STSW Condition | Keyless access CM output value | Displayed when brake pedal (except MT model) or clutch pedal (MT model) is depressed, and push button ignition switch is pressed |
| Vehicle identification | GAS MT/GAS AT/ HEV AT/Auto Start Stop MT/ Auto Start Stop AT | Keyless access CM output value | Equipped vehicle is displayed. |
| IGN1 external circuit abnormal | No/Yes | Keyless access CM output value | |
| IGN2 external circuit abnormal | No/Yes | Keyless access CM output value | |
| Start SW trouble | No/Yes | Keyless access CM output value | |
| P signal mismatch | No/Yes | Keyless access CM output value | Detected when P signals are inconsistent between CAN line and direct line. |
| Steering lock release delay time-out | No/Yes | Keyless access CM output value | |
| Key collation waiting time out | No/Yes | Keyless access CM output value | |

2. Body integrated unit

Refer to the BODY CONTROL SYSTEM (DIAGNOSTICS) for the current data of the body integrated unit.
<Ref. to BC(diag)-11, LIST, Read Current Data.>