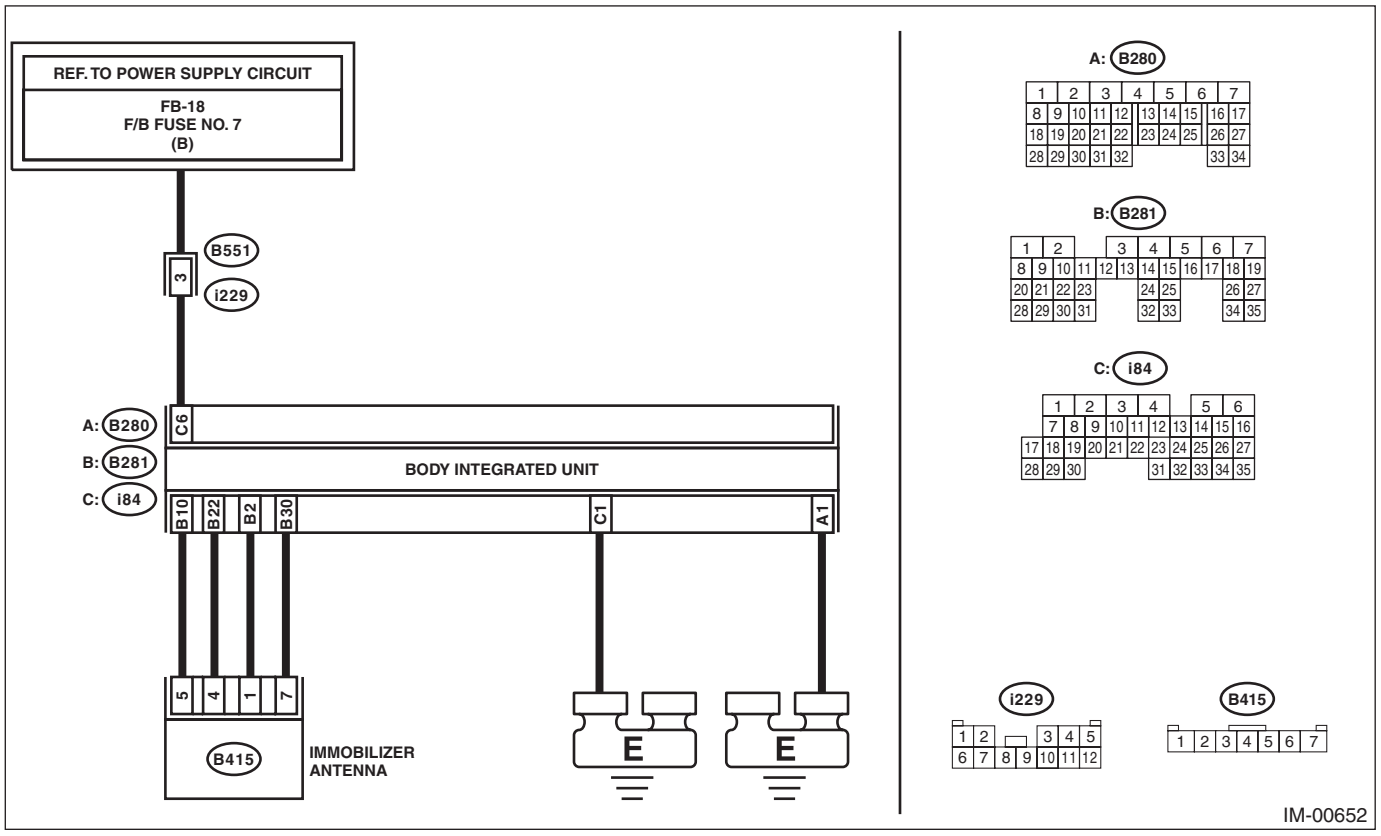
# 10.Diagnostic Procedure with Diagnostic Trouble Code (DTC)

## A: DTC B1570 ANTENNA

**DTC DETECTING CONDITION:**
Faulty antenna

**CAUTION:**
**When the body integrated unit is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**
**WIRING DIAGRAM:**
Immobilizer system <Ref. to WI(w/o HEV)-143, WIRING DIAGRAM, Immobilizer System.> <Ref. to WI(HEV)-151, WIRING DIAGRAM, Immobilizer System.>




| Step | | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK BODY INTEGRATED UNIT POWER SUPPLY CIRCUIT.**<br>1) Turn the ignition switch to OFF.<br>2) Disconnect the connector from body integrated unit.<br>3) Measure the voltage between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(i84) No. 6 (+) — Chassis ground (–):*** | Is the voltage 10 V or more? | Go to step **2**. | Check the harness for open or short circuit between body integrated unit and fuse. |
| 2 | **CHECK BODY INTEGRATED UNIT GROUND CIRCUIT.**<br>Measure the resistance between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B280) No. 1 — Chassis ground:***<br>***(i84) No. 1 — Chassis ground:*** | Is the resistance less than 10 Ω? | Go to step **3**. | Repair the open circuit of the body integrated unit ground circuit. |

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 3 | **CHECK ANTENNA POWER SUPPLY CIRCUIT.**<br>1) Connect the connector to body integrated unit.<br>2) Disconnect the connector from the antenna.<br>3) Insert the ignition key into the key cylinder, then measure the voltage between the antenna connector terminal and the chassis ground.<br>***Connector & terminal***<br>***(B415) No. 1 (+) — Chassis ground (–):*** | Is the voltage 5±0.5 V approx. 200 ms after inserting the ignition key into the key cylinder? And then, does the voltage return to 0 V within 2 s? | Go to step **5**. | Go to step **4**. |
| 4 | **CHECK ANTENNA POWER SUPPLY CIRCUIT.**<br>1) Disconnect the connector from body integrated unit.<br>2) Measure the resistance of body integrated unit connector terminal and antenna connector terminal.<br>***Connector & terminal***<br>***(B281) No. 2 — (B415) No. 1:*** | Is the resistance less than 10 Ω? | Replace the body integrated unit. <Ref. to SL-87, Body Integrated Unit.> | Repair the harness or connector between body integrated unit and antenna. |
| 5 | **CHECK ANTENNA GROUND CIRCUIT.**<br>Measure the resistance between antenna connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B417) No. 7 — Chassis ground:*** | Is the resistance less than 10 Ω? | Go to step **7**. | Go to step **6**. |
| 6 | **CHECK ANTENNA GROUND CIRCUIT.**<br>1) Disconnect the connector from body integrated unit.<br>2) Measure the resistance between antenna connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B281) No. 30 — (B415) No. 7:*** | Is the resistance less than 10 Ω? | Replace the body integrated unit. <Ref. to SL-87, Body Integrated Unit.> | Repair the harness or connector between body integrated unit and antenna. |
| 7 | **CHECK ANTENNA COMMUNICATION CIRCUIT.**<br>Measure the resistance of body integrated unit connector terminal and antenna connector terminal.<br>***Connector & terminal***<br>***(B281) No. 10 — (B415) No. 5:***<br>***(B281) No. 22 — (B415) No. 4:*** | Is the resistance less than 10 Ω? | Go to step **8**. | Repair the harness or connector between body integrated unit and antenna. |
| 8 | **CHECK ANTENNA.**<br>1) Replace the immobilizer antenna.<br>2) Insert the ignition key in the ignition switch. (OFF or ACC)<br>3) Check DTC of body integrated unit. | Is DTC B1411 detected? | Replace the body integrated unit. <Ref. to SL-87, Body Integrated Unit.> | Antenna has a failure. |

## B: DTC B1571 REFERENCE CODE INCOMPATIBILITY

**DTC DETECTING CONDITION:**
Reference code incompatibility between body integrated unit and ECM

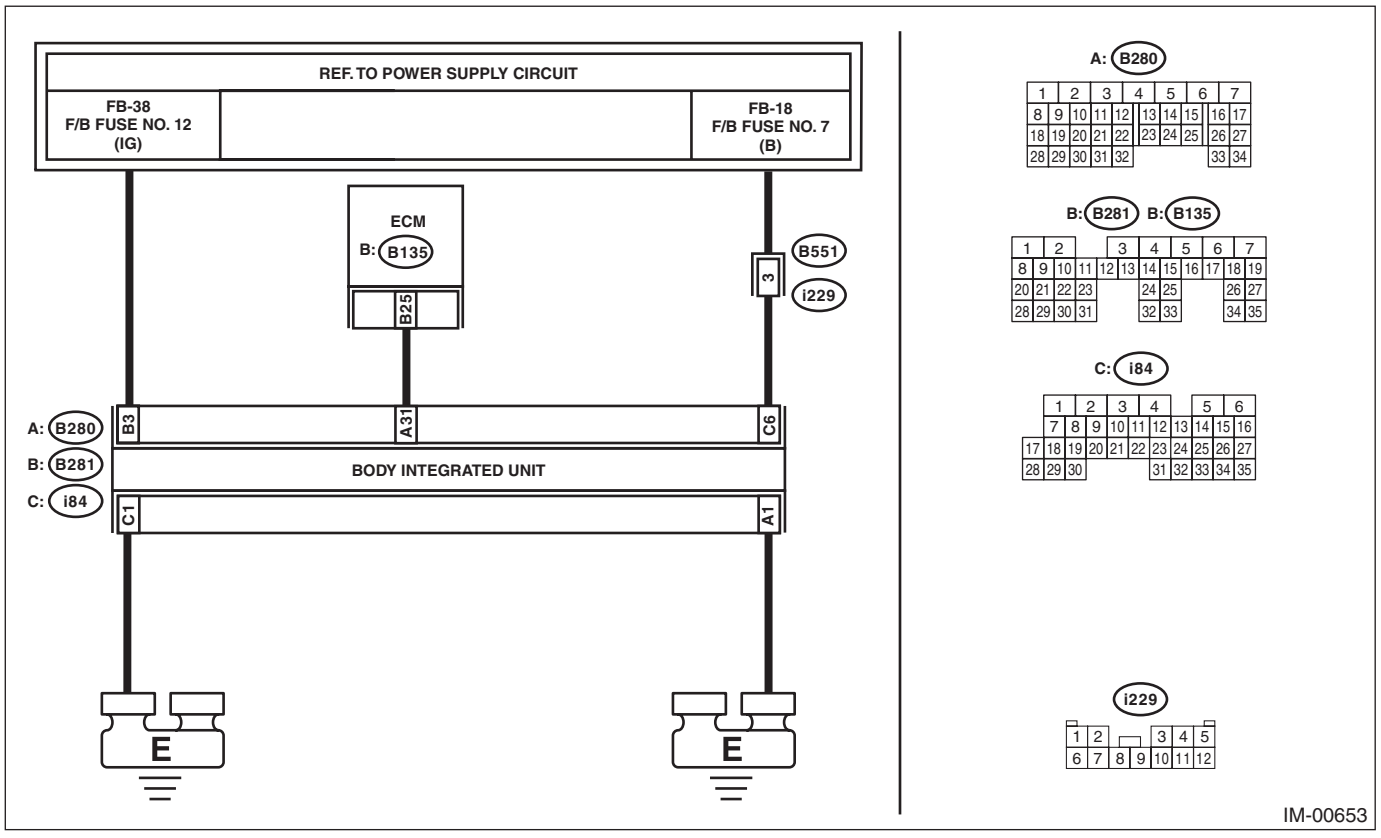
**CAUTION:**
**When the body integrated unit is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CONFIRM NUMBER OF REGISTERED IMMOBILIZER KEY.**<br>Confirm the number of registered immobilizer key. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is the number of registration 0? | Go to step **2**. | Go to step **3**. |
| 2 | **PERFORM IMMOBILIZER SYSTEM REGISTRATION.**<br>Register the immobilizer system. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Go to step **4**. |
| 3 | **PERFORM ECM REGISTRATION.**<br>Perform ECM registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Go to step **4**. |
| 4 | **CHECK FOR ANY OTHER DTC ON DISPLAY.** | Is any other DTC displayed? | Perform the diagnosis according to DTC. | Go to step **5**. |
| 5 | **PERFORM ECM REGISTRATION.**<br>1) Replace the ECM.<br>2) Perform ECM registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Replace the body integrated unit. <Ref. to SL-87, Body Integrated Unit.> |

# C: DTC B1572 IMM CIRCUIT FAILURE (EXCEPT ANTENNA CIRCUIT)

**DTC DETECTING CONDITION:**
Communication failure between body integrated unit and ECM

**CAUTION:**
**When the body integrated unit is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**
**WIRING DIAGRAM:**
Immobilizer system <Ref. to WI(w/o HEV)-143, WIRING DIAGRAM, Immobilizer System.> <Ref. to WI(HEV)-151, WIRING DIAGRAM, Immobilizer System.>




| Step | | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK BODY INTEGRATED UNIT POWER SUPPLY CIRCUIT.**<br>1) Turn the ignition switch to OFF.<br>2) Disconnect the connector from body integrated unit.<br>3) Measure the voltage between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(i84) No. 6 (+) — Chassis ground (–):*** | Is the voltage 10 V or more? | Go to step **2**. | Check the harness for open or short circuit between body integrated unit and fuse. |
| 2 | **CHECK BODY INTEGRATED UNIT POWER SUPPLY CIRCUIT.**<br>1) Turn the ignition switch to ON.<br>2) Measure the voltage between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B281) No. 3 (+) — Chassis ground (–):*** | Is the voltage 10 V or more? | Go to step **3**. | Check the harness for open or short circuit between the body integrated unit and ignition switch. |

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 3 | **CHECK BODY INTEGRATED UNIT GROUND CIRCUIT.**<br>1) Turn the ignition switch to OFF.<br>2) Measure the resistance between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B280) No. 1 — Chassis ground:***<br>***(i84) No. 1 — Chassis ground:*** | Is the resistance less than 10 Ω? | Go to step **4**. | Repair the open circuit of the body integrated unit ground circuit. |
| 4 | **CHECK GROUND CIRCUIT FOR ECM.**<br>Measure the resistance between the ECM ground terminal and engine ground.<br>***Connector & terminal***<br>***(B134) No. 3 — Chassis ground:***<br>***(B134) No. 4 — Chassis ground:***<br>***(B136) No. 1 — Chassis ground:***<br>***(B136) No. 2 — Chassis ground:***<br>***(B136) No. 3 — Chassis ground:*** | Is the resistance less than 10 Ω? | Go to step **5**. | Repair the ECM ground circuit. |
| 5 | **CHECK HARNESS BETWEEN BODY INTEGRATED UNIT AND ECM.**<br>1) Disconnect the connector from ECM.<br>2) Measure the resistance between body integrated unit connector terminal and ECM connector terminal.<br>***Connector & terminal***<br>***(B280) No. 31 — (B135) No. 25:*** | Is the resistance less than 10 Ω? | Go to step **6**. | Repair the open circuit of the harness between the body integrated unit and ECM. |
| 6 | **CHECK COMMUNICATION CIRCUIT HARNESS.**<br>1) Turn the ignition switch to ON.<br>2) Measure the voltage between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B280) No. 31 (+) — Chassis ground (–):*** | Is the voltage 6 V or more? | Repair the harness between body integrated unit and ECM. | Go to step **7**. |
| 7 | **CHECK COMMUNICATION CIRCUIT HARNESS.**<br>Measure the voltage between ECM connector terminal and engine ground.<br>***Connector & terminal***<br>***(B135) No. 25 (+) — Engine ground (–):*** | Is the voltage 6 V or more? | Repair the harness between body integrated unit and ECM. | Go to step **8**. |
| 8 | **CHECK COMMUNICATION CIRCUIT HARNESS.**<br>1) Turn the ignition switch to OFF.<br>2) Measure the resistance between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B280) No. 31 — Chassis ground:*** | Is the resistance less than 10 Ω? | Repair the harness between body integrated unit and ECM. | Go to step **9**. |
| 9 | **CHECK COMMUNICATION CIRCUIT HARNESS.**<br>Measure the resistance between ECM connector terminal and engine ground.<br>***Connector & terminal***<br>***(B135) No. 25 — Engine ground:*** | Is the resistance less than 10 Ω? | Repair the harness between body integrated unit and ECM. | Go to step **10**. |

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 10 | **CHECK ECM.**<br>1) Replace the ECM. (Do not perform ECM registration.)<br>2) Turn the ignition switch to ON.<br>3) Wait for 5 seconds.<br>4) Read the DTC relating the ECM using the Subaru Select Monitor. | Is DTC B1572 detected? | Replace the body integrated unit. <Ref. to SL-87, Body Integrated Unit.> | ECM has a failure. Perform ECM registration. Refer to the “REGISTRATION MANUAL FOR IMMOBILIZER”. |

## D: DTC B1574 KEY COMMUNICATION FAILURE

**DTC DETECTING CONDITION:**
Communication failure between key and body integrated unit

**CAUTION:**
**When the body integrated unit is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK IGNITION KEY.**<br>1) Remove the ignition key from the ignition switch.<br>2) Insert the ignition key into the ignition switch, and then turn the ignition switch to ON.<br>3) Read the DTC of body integrated unit using Subaru Select Monitor. | Is DTC B1410 detected? | Go to step **2**. | Finish the diagnosis. |
| 2 | **CHECK IGNITION KEY.**<br>1) Prepare another ignition key.<br>2) Insert the ignition key into the ignition switch, and then turn the ignition switch to ON.<br>3) Read the DTC of body integrated unit using Subaru Select Monitor. | Is DTC B1410 detected? | Go to step **3**. | Ignition key unit was defective. |
| 3 | **CHECK IMMOBILIZER ANTENNA.**<br>1) Replace the immobilizer antenna.<br>2) Insert the ignition key into the ignition switch, and then turn the ignition switch to ON.<br>3) Read the DTC of body integrated unit using Subaru Select Monitor. | Is DTC B1410 detected? | Replace the body integrated unit. <Ref. to SL-87, Body Integrated Unit.> | Immobilizer antenna was defective. |

## E: DTC B1575 INCORRECT IMMOBILIZER KEY

**DTC DETECTING CONDITION:**
Incorrect immobilizer key (use of unregistered key in body integrated unit)

**CAUTION:**
**When the body integrated unit is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **PERFORM IGNITION KEY REGISTRATION.**<br>Perform key registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is key registration complete? | Finish the diagnosis. | Replace ignition keys (including transponder) which cannot be registered. Go to step **2**. |
| 2 | **PERFORM IGNITION KEY REGISTRATION.**<br>Perform key registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is key registration complete? | Finish the diagnosis. | Replace the body integrated unit. <Ref. to SL-87, Body Integrated Unit.> |

## F: DTC B1576 EGI CONTROL MODULE EEPROM

**DTC DETECTING CONDITION:**

- ECM malfunctioning
- Inaccessible ROM in ECM during key registration.

**CAUTION:**
**When the ECM is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **PERFORM ECM REGISTRATION.**<br>Perform ECM registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Go to step **2**. |
| 2 | **PERFORM ECM REGISTRATION.**<br>Perform ECM registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Go to step **3**. |
| 3 | **PERFORM ECM REGISTRATION.**<br>Perform ECM registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Replace the ECM. <Ref. to FU(H4DO(w/o HEV))-100, Engine Control Module (ECM).> |

## G: DTC B1577 IMM CONTROL MODULE EEPROM

**DTC DETECTING CONDITION:**

- Body integrated unit malfunctioning
- Failed to access ROM inside the body integrated unit.

**CAUTION:**
**When the body integrated unit is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **PERFORM ECM REGISTRATION.**<br>Perform ECM registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Go to step **2**. |
| 2 | **PERFORM ECM REGISTRATION.**<br>Perform ECM registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Go to step **3**. |
| 3 | **PERFORM ECM REGISTRATION.**<br>Perform ECM registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Replace the body integrated unit. <Ref. to SL-87, Body Integrated Unit.> |

## H: DTC B1578 METER FAILURE

**DTC DETECTING CONDITION:**

- Except for C0 and C5 models

Reference code incompatibility between combination meter and body integrated unit or communication failure between body integrated unit and ECM

- For C0 and C5 models

Reference code incompatibility between security control module and body integrated unit or communication failure between body integrated unit and ECM

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK DTC.**<br>Read the DTC of body integrated unit using Subaru Select Monitor. | Is any of DTC B1401, B1405, B1406, B1407, B1408 or B1409 detected? | Perform the diagnosis according to the DTC. | <Ref. to IM(diag)-19, DTC B1572 IMM CIRCUIT FAILURE (EXCEPT ANTENNA CIRCUIT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).> |

## I: DTC B1401 M COLLATION NG

**DTC DETECTING CONDITION:**

Reference code incompatibility between combination meter and body integrated unit

**CAUTION:**

**When the combination meter is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK DTC.**<br>Read the DTC of body integrated unit using Subaru Select Monitor. | Is any of DTC B1407 or B1408 detected? | Perform the diagnosis according to the DTC. | Go to step **2**. |
| 2 | **CHECK COMBINATION METER REGISTRATION.**<br>Perform registration of combination meter. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Go to step **3**. |
| 3 | **CHECK DTC.**<br>Read the DTC of body integrated unit using Subaru Select Monitor. | Is any of DTC B1407 or B1408 detected? | Perform the diagnosis according to the DTC. | Replace the combination meter. <Ref. to IDI-20, Combination Meter.> |

## J: DTC B1402 IMMOBILIZER KEY COLLATION NG

**DTC DETECTING CONDITION:**

- Incorrect immobilizer key (use of unregistered key in body integrated unit)
- Faulty antenna
- Communication failure between key and body integrated unit

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK DTC.**<br>Read the DTC of body integrated unit using Subaru Select Monitor. | Is any of DTC B1410 or B1411 detected? | Perform the diagnosis according to the DTC. | <Ref. to IM(diag)-22, DTC B1575 INCORRECT IMMOBILIZER KEY, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> |

## K: DTC B1405 SCU COLLATION NG

**DTC DETECTING CONDITION:**

Reference code incompatibility between security control module and body integrated unit

**CAUTION:**

**When the security control module is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK DTC.**<br>Read the DTC of body integrated unit using Subaru Select Monitor. | Is any of DTC B1406 or B1409 detected? | Perform the diagnosis according to DTC. | Go to step **2**. |
| 2 | **PERFORM SECURITY CONTROL MODULE REGISTRATION.**<br>Perform security control module registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER". | Is registration complete? | Finish the diagnosis. | Go to step **3**. |
| 3 | **CHECK DTC.**<br>Read the DTC of body integrated unit using Subaru Select Monitor. | Is any of DTC B1406 or B1409 detected? | Perform the diagnosis according to DTC. | Replace the security control module. <Ref. to SL-80, Security Control Module.> |

## L: DTC B1406 SCU_EEPROM_NG

**DTC DETECTING CONDITION:**

- Defective security control module
- ROM of security control module cannot be accessed

**CAUTION:**

**When the security control module is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **PERFORM SECURITY CONTROL MODULE REGISTRATION.**<br>1) Perform security control module registration. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".<br>2) Read the DTC of body integrated unit using Subaru Select Monitor. | Is DTC B1406 detected? | Replace the security control module. <Ref. to SL-80, Security Control Module.> | Finish the diagnosis. |

## M: DTC B1407 M COMMUNICATION ABNORMAL

**DTC DETECTING CONDITION:**
Communication failure between body integrated unit and combination meter

**CAUTION:**
**When the combination meter is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK DTC.**<br>Read the DTC of body integrated unit using Subaru Select Monitor. | Is DTC of the body integrated unit except for DTC B1407 displayed? | Perform the diagnosis according to the DTC. | Replace the combination meter. <Ref. to IDI-20, Combination Meter.> |

## N: DTC B1408 METER EEPROM ABNORMAL

**DTC DETECTING CONDITION:**
Defective combination meter

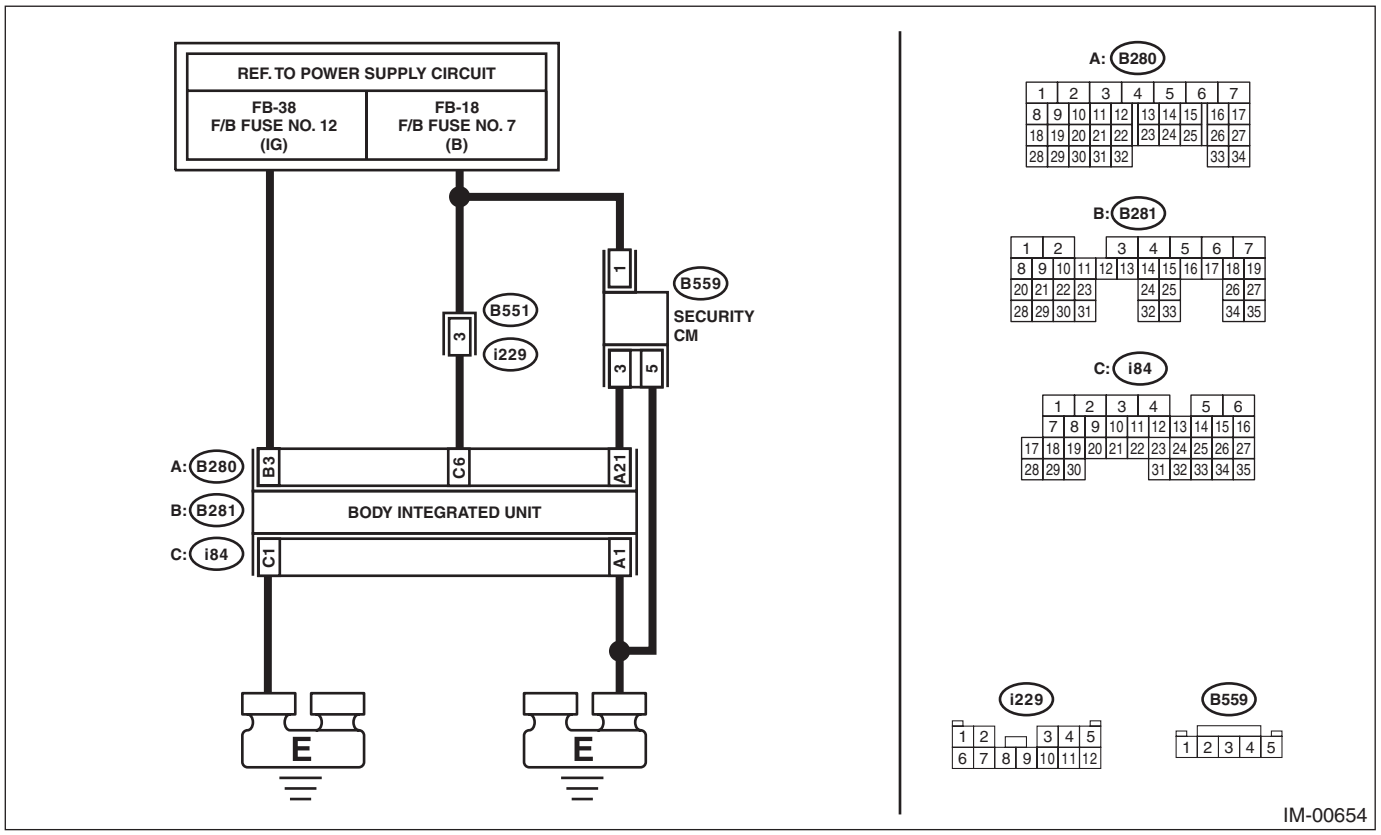
**CAUTION:**
**When the combination meter is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK COMBINATION METER REGISTRATION.**<br>1) Perform registration of combination meter. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".<br>2) Read the DTC of body integrated unit using Subaru Select Monitor. | Is DTC B1408 detected? | Replace the combination meter. <Ref. to IDI-20, Combination Meter.> | Finish the diagnosis. |

## O: DTC B1409 SCU COMMUNICATION ABNORMAL

**DTC DETECTING CONDITION:**
Communication failure between body integrated unit and security control module

**CAUTION:**
**When the body integrated unit is replaced, registration of the immobilizer system is required. For details, refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".**
**WIRING DIAGRAM:**
Immobilizer system <Ref. to WI(w/o HEV)-143, WIRING DIAGRAM, Immobilizer System.> <Ref. to WI(HEV)-151, WIRING DIAGRAM, Immobilizer System.>




| Step | | Check | Yes | No |
|---|---|---|---|---|
| 1 | **CHECK BODY INTEGRATED UNIT POWER SUPPLY CIRCUIT.**<br>1) Turn the ignition switch to OFF.<br>2) Disconnect the connector from body integrated unit.<br>3) Measure the voltage between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(i84) No. 6 (+) — Chassis ground (–):*** | Is the voltage 10 V or more? | Go to step **2**. | Check the harness for open or short circuit between body integrated unit and fuse. |
| 2 | **CHECK BODY INTEGRATED UNIT POWER SUPPLY CIRCUIT.**<br>1) Turn the ignition switch to ON.<br>2) Measure the voltage between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B281) No. 3 (+) — Chassis ground (–):*** | Is the voltage 10 V or more? | Go to step **3**. | Check the harness for open or short circuit between the body integrated unit and ignition switch. |

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 3 | **CHECK BODY INTEGRATED UNIT GROUND CIRCUIT.**<br>1) Turn the ignition switch to OFF.<br>2) Measure the resistance between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B280) No. 1 — Chassis ground:***<br>***(i84) No. 1 — Chassis ground:*** | Is the resistance less than 10 Ω? | Go to step **4**. | Repair the open circuit of the body integrated unit ground circuit. |
| 4 | **CHECK SECURITY CONTROL MODULE POWER SUPPLY CIRCUIT.**<br>1) Disconnect the connector from the security control module.<br>2) Measure the power supply between security control module connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B559) No. 1 (+) — Chassis ground (–):*** | Is the voltage 10 V or more? | Go to step **5**. | Check for an open or short circuit in the harness between security control module and fuse. |
| 5 | **CHECK SECURITY CONTROL MODULE GROUND CIRCUIT.**<br>Measure the resistance between security control module connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B559) No. 5 — Chassis ground:*** | Is the resistance less than 10 Ω? | Go to step **6**. | Repair the open circuit of the security control module ground circuit. |
| 6 | **CHECK HARNESS BETWEEN BODY INTEGRATED UNIT AND SECURITY CONTROL MODULE.**<br>Measure the resistance between the body integrated unit connector terminal and security control module connector terminal.<br>***Connector & terminal***<br>***(B280) No. 21 — (B559) No. 3:*** | Is the resistance less than 10 Ω? | Go to step **7**. | Repair the harness between body integrated unit and security control module. |
| 7 | **CHECK COMMUNICATION CIRCUIT HARNESS.**<br>1) Turn the ignition switch to ON.<br>2) Measure the voltage between security control module connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B559) No. 3 (+) — Chassis ground (–):*** | Is the voltage 6 V or more? | Repair the harness between body integrated unit and security control module. | Go to step **8**. |
| 8 | **CHECK COMMUNICATION CIRCUIT HARNESS.**<br>1) Turn the ignition switch to ON.<br>2) Measure the voltage between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B280) No. 21 (+) — Chassis ground (–):*** | Is the voltage 6 V or more? | Repair the harness between body integrated unit and security control module. | Go to step **9**. |
| 9 | **CHECK COMMUNICATION CIRCUIT HARNESS.**<br>1) Turn the ignition switch to OFF.<br>2) Measure the resistance between security control module connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B559) No. 3 — Chassis ground:*** | Is the resistance less than 10 Ω? | Repair the harness between body integrated unit and ECM. | Go to step **10**. |

| | Step | Check | Yes | No |
|---|---|---|---|---|
| 10 | **CHECK COMMUNICATION CIRCUIT HARNESS.**<br>1) Turn the ignition switch to ON.<br>2) Measure the resistance between the body integrated unit connector terminal and chassis ground.<br>***Connector & terminal***<br>***(B280) No. 21 — Chassis ground:*** | Is the resistance less than 10 Ω? | Repair the harness between body integrated unit and security control module. | Go to step **11**. |
| 11 | **CHECK SECURITY CONTROL MODULE.**<br>1) Replace the security control module. (Do not perform security control module registration.)<br>2) Turn the ignition switch to ON.<br>3) Read the DTC of body integrated unit using Subaru Select Monitor. | Is DTC B1409 detected? | Replace the body integrated unit. <Ref. to SL-87, Body Integrated Unit.> | Security control module was defective. Perform security control module registration. Refer to the “REGISTRATION MANUAL FOR IMMOBILIZER”. |

## P: DTC B1410 TRANSPONDER COMMUNICATION ABNORMAL

NOTE:
Refer to DTC B1574 for diagnostic procedure. <Ref. to IM(diag)-22, DTC B1574 KEY COMMUNICATION FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

## Q: DTC B1411 IMMOBILIZER ANTENNA ABNORMAL

NOTE:
Refer to DTC B1570 for diagnostic procedure. <Ref. to IM(diag)-16, DTC B1570 ANTENNA, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

# LAN SYSTEM (DIAGNOSTICS)

# *LAN(w/o HEV)(diag)*