

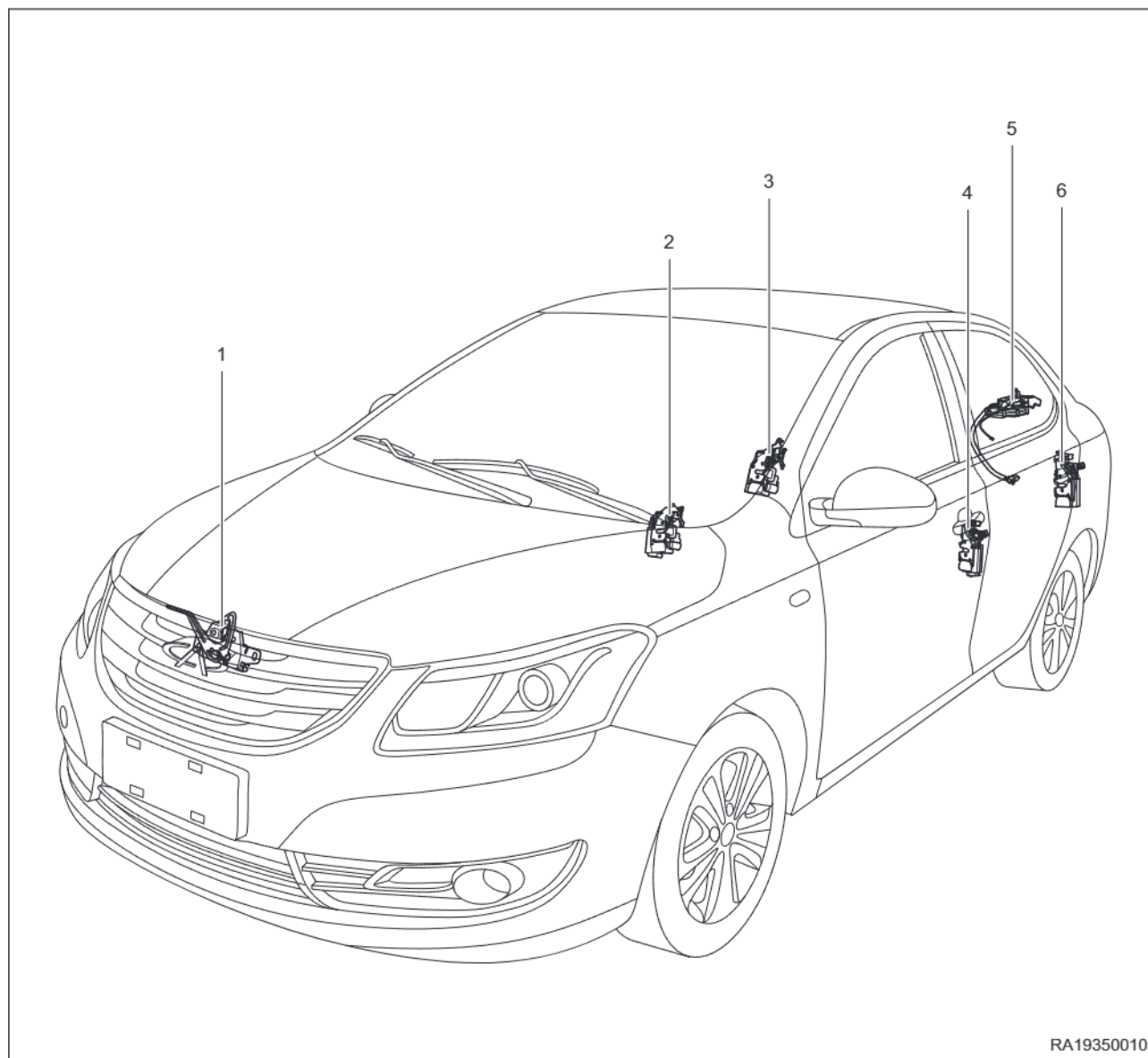
# DOOR LOCK

|                                     |              |                                          |              |
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# GENERAL INFORMATION

## Description



RA19350010

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|                                       |                                    |
|---------------------------------------|------------------------------------|
| 1 - Engine Hood Lock Assembly         | 2 - Front Right Door Lock Assembly |
| 3 - Rear Right Door Lock Assembly     | 4 - Front Left Door Lock Assembly  |
| 5 - Luggage Compartment Lock Assembly | 6 - Rear Left Door Lock Assembly   |

### 1. Power door lock system function description

#### a. The power door lock system can lock/unlock all doors by wireless key operation.

- Wireless key sends the lock/unlock request signals to Body Control Module (BCM). Then, Body Control Module (BCM) sends these request signals to the lock fastener of each door in order to lock/unlock all doors simultaneously.
- After inserting the key into the driver side door key cylinder, all doors can be locked/unlocked by turning the key clockwise or counterclockwise, but body anti-theft function cannot be set.

- Function active: effective at any time even when the engine starts.
- Lock success: when all the doors are closed fully, input the lock signal from the center control switch, and execute the lock command.
- Lock failure: when at least one door is not closed fully, input the lock signal from the center control switch, execute the lock command, and then execute the lock command after 1 second delay.
- Unlock success: input the unlock signal from the center control switch and execute the lock command, regardless of whether the doors are closed fully.
- Door lock protection: lock and unlock the doors 4 times within 10 seconds. Once it is activated, locking and unlocking cannot be operated for 15 seconds. Before the disable function is activated, make sure that the final command is unlock, rather than lock.
- Door lock response: when the protection is not activated, Body Control Module (BCM) responses to each input of lock or unlock.

## b. Function

| Component                            | Function                                                                                                                                                                          |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Door Unlock/Lock Switch Button | Lock/unlock all doors.                                                                                                                                                            |
| Front Left Door Lock Assembly        | Lock/Unlock the front left door with fastener.<br>It has built-in door unlock/lock switch and sends the unlock/lock signal to Body Control Module (BCM) to unlock/lock each door. |
| Front Right Door Lock Assembly       | Lock/Unlock the front right door with fastener.                                                                                                                                   |
| Rear Left Door Lock Assembly         | Lock/Unlock the rear left door with fastener.                                                                                                                                     |
| Rear Right Door Lock Assembly        | Lock/Unlock the rear right door with fastener.                                                                                                                                    |

## 2. Wireless door lock system

## a. Wireless door lock function

Feature of buttons on remote controller:

- When turning the ignition switch to LOCK, each button on wireless key can operate.
- When turning the ignition switch to ACC, only unlock button on wireless key can operate.
- When turning the ignition switch to ON, each button on wireless key cannot operate.

When the wireless door lock function is valid:

- When all the doors, engine hood and luggage compartment door are closed fully, press the lock button on wireless key, all door locks perform the locking operation (enter the locking mode at this time); press the unlock button on wireless key, Body Control Module (BCM) performs the unlocking operation.
- When all the doors are closed fully, but either of the engine hood and luggage compartment door is not closed fully, press the lock button on wireless key, all door locks perform locking operation (enter the lock deactivation mode at this time), press the unlock button on the wireless key, Body Control Module (BCM) performs the unlocking operation.
- When any door is not closed fully, press the lock button on the wireless key, all door lock perform the locking operation first, and then perform the unlocking operation after 1 second, press the unlock button on the wireless key, Body Control Module (BCM) performs the unlocking operation.

## b. Wireless luggage compartment function

- When turning the ignition switch to LOCK, press the luggage button on wireless key for more than 1.5 seconds, to open the luggage compartment door.
- When the luggage compartment door is opened, the luggage compartment light will come on; when the luggage compartment door is closed, the luggage compartment light will go off immediately. If the luggage compartment door is opened all the time, the luggage compartment light comes on for 15 minutes and then goes off.

## c. This system locks/unlocks all doors remotely. The wireless door lock system has the following features:

- A key-integrated type transmitter is used which contains the following 2 switches: door lock switch and door unlock switch.
- A LED is built in the transmitter to check the battery condition.

## d. System function

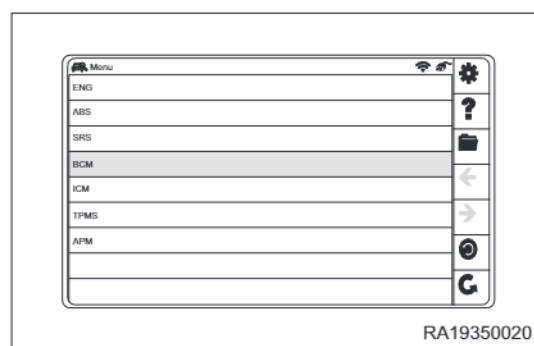
| Function                  | Description                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All doors lock function   | Press the lock switch on wireless key to lock all doors.                                                                                                                                                                    |
| All doors unlock function | Press the unlock switch on wireless key to unlock all doors.                                                                                                                                                                |
| Answer-back function      | Lock: turn signal lights blink once and the anti-theft horn sounds once with door locked.<br>Unlock: turn signal lights blink twice with the door unlocked to indicate that the corresponding operation has been completed. |
| Auto lock function        | With door locked, if the door is not opened within 30 seconds after the door is unlocked by wireless key, the door will lock again automatically.                                                                           |

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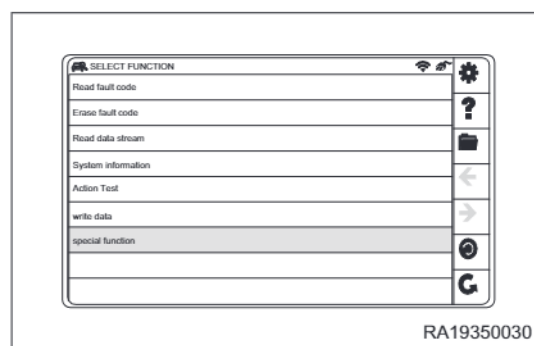
## e. Wireless key match

If the wireless key is lost, damaged or the Body Control Module (BCM) is replaced, the wireless key needs to be matched again. The detailed operation procedures are as follows:

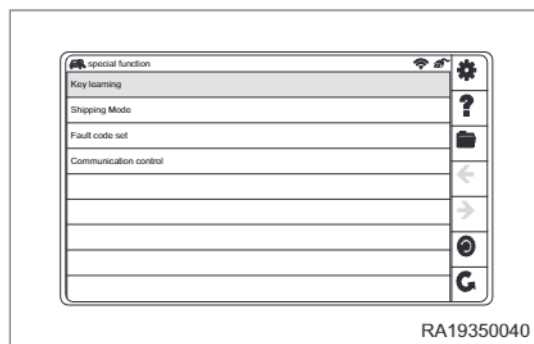
- Connect the X-431 3G diagnostic tester (the latest software) to the Data Link Connector (DLC), and make it communicate with the vehicle electronic module by the data network. Then select corresponding model (A19) from X-431 3G diagnostic tester (the latest software) to enter the system and select "BCM" system.



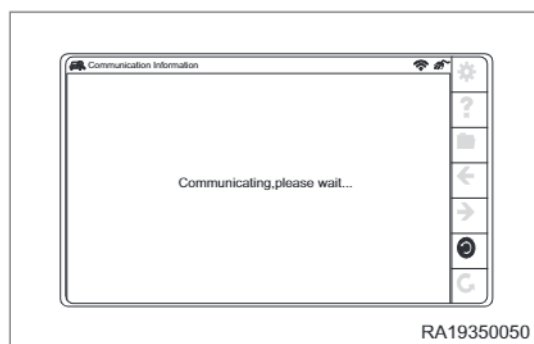
- "Please select [special function]" is displayed on the screen.



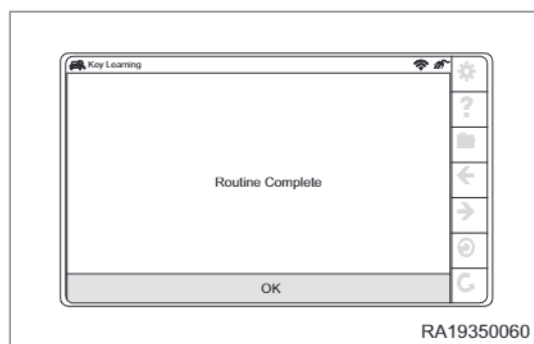
- "Please select [Key learning]" is displayed on the screen.



- After entering the "Communicating, please wait..." screen, the hazard warning lights flash once. Press and hold any button on wireless key for more than 1 second, until the hazard warning lights flash once.



- "Routine Complete" is displayed on the screen, and then click "OK".



- Key match is completed.

f. Wireless key

The wireless key controls the doors to lock and unlock.

Wireless lock: with all doors closed, press the lock button on wireless key, all doors will be locked, turn signal lights blink once and anti-theft horn sounds once. The security indicator will also blink normally to indicate the system in armed state and the body anti-theft system is started. When any door is not closed or not fully closed, press the lock button on wireless key, then all door are locked immediately after performing the unlocking operation, the turn signal lights blink twice while the anti-theft horn does not sound to, inform the driver that the vehicle is not in locking mode.

Wireless unlock: press the unlock button on wireless key, all doors will be unlocked; the turn signal lights blink twice and anti-theft horn does not sound, which indicates that the body anti-theft system becomes deactivated, and then the security indicator will go off. Open any door within 30 seconds after unlocking the doors by wireless key. If any door does not open within 30 seconds, the door will lock again automatically.

g. The vehicle security has 7 modes:

Locking mode

- Enter the locking mode when the following conditions are met:
  - Remove the key.
  - All doors, engine hood and luggage compartment door are closed.

- All doors are locked by the lock button on wireless key.
- When the vehicle is in locking mode, the following conditions will occur:
  - The turn signal lights blink once, anti-theft horn sounds once and the anti-theft indicator on instrument cluster blinks normally, which indicate that the vehicle is in locking mode.
  - In the locking mode, if any door does not open within 30 seconds after unlocking the door by wireless key, the door will lock again automatically.

#### Lock failure mode

- Lock failure mode occurs under the following conditions:
  - If any door, engine hood and luggage compartment door are not closed fully.
- When the vehicle is in lock failure mode, the following conditions will occur:
  - The turn signal lights blink twice, anti-theft horn does not sound and the anti-theft indicator does not blink.
  - If all doors are not closed, the central control lock performs the locking operation first, and then performs the unlocking operation, regardless of the condition of engine hood and luggage compartment door
  - If all doors are closed, all doors are locked with the engine hood and luggage compartment door are not closed fully.

#### Lock deactivation mode

- In the intrusion mode, the locking mode of entire vehicle will be deactivated if the following condition occurs:
  - Press the unlock button on wireless key.
  - Press the luggage button on wireless key for more than 1.5 seconds.
  - Open the door with key.
- The following conditions occur in lock deactivation mode (by wireless key, mechanical key, luggage compartment button):
  - All doors are unlocked.
  - The turn signal lights blink twice, anti-theft horn does not sound and the anti-theft indicator stops blinking.
- If the following conditions occur within 30s after the doors are unlocked by wireless key, the vehicle will not return to the locking state, also not lock automatically:
  - Turn the ignition switch to ON.
  - Any door is open.
  - Open the engine hood.
  - Open the luggage compartment door.

#### Re-locking mode

- Enter the re-locking when the following conditions are met:
  - After the vehicle is in locking mode, the locking mode of entire vehicle will be deactivated by wireless key.
  - The condition of all doors, engine hood and luggage compartment door do not change.
  - If the key is not in the ignition key cylinder or the ignition switch is not turned to ACC or ON, the system will be relocked after 30 seconds.
- The following conditions occurs in re-locking mode:
  - All doors are locked, the turn signal lights do not blink, anti-theft horn does not sound and the anti-theft indicator blinks normally, which indicate that the system has been re-locked.

#### Alarm mode

- When the vehicle is in locking mode, the alarm will be triggered if any following condition occurs:
  - Open any door, engine hood and luggage compartment door manually.
  - Turn the ignition switch to ON.
- When the vehicle is in alarm mode, the following condition occurs:

- After the alarm is triggered, the turn signal lights blink for 28 seconds and the anti-theft horn sounds for 28 seconds. The condition will occur again after an interval of 2 seconds. This process will repeat for 8 times. At the same time, the security indicator blinks quickly to indicate that the system is in a non-secure state. If all doors/engine hood are fully closed or the ignition switch is turned off during the cycle, the turn signal lights will complete the blink cycle and all doors will lock again automatically after an interval of 5 seconds. At this time, the vehicle body anti-theft system is reactivated.

#### Alarm deactivation mode

- The following operations will deactivate the alarm mode:
  - Press the unlock button on wireless key.
  - Open the door with key.
  - Press the luggage compartment button on wireless key for more than 1.5 seconds.

#### Luggage compartment door open mode

- In locking mode, if the luggage compartment opener switch is pressed for 1.5 seconds, the luggage compartment is opened and the turn signal lights blink twice at 1-second interval. Enter the luggage compartment door open mode.
  - If the luggage compartment is opened, the alarm mode will not be triggered.
  - If the luggage compartment is closed, the entire vehicle enters the locking mode again without any sound or light feedback.
  - If pressing the lock button on wireless key with luggage compartment door open, the vehicle will enter the lock failure mode. If pressing the unlock button on wireless key, the vehicle will enter the lock deactivation mode.
  - The vehicle will enter the alarm mode when all doors and engine hood are opened, regardless of the luggage compartment is opened or closed.

## Specifications

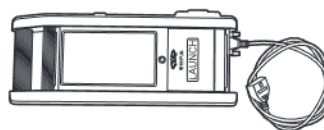
### Torque Specifications

| Description                                           | Torque (N·m)  |
|-------------------------------------------------------|---------------|
| Front Power Door Lock Assembly Fixing Screw           | $7 \pm 1.5$   |
| Front Door Key Cylinder Protective Cover Fixing Screw | $7 \pm 1.5$   |
| Front Door Lock Striker Fixing Screw                  | $7 \pm 1.5$   |
| Rear Power Door Lock Assembly Fixing Screw            | $7 \pm 1.5$   |
| Rear Door Lock Striker Fixing Screw                   | $20 \pm 2$    |
| Luggage Compartment Lock Assembly Fixing Screw        | $7 \pm 1.5$   |
| Luggage Compartment Lock Latch Fixing Screw           | $12 \pm 2$    |
| Engine Hood Lock Assembly Fixing Nut                  | $7 \pm 1.5$   |
| Wireless Key Upper Cover Fixing Screw                 | $1.5 \pm 0.5$ |

## Tools

### Special Tool

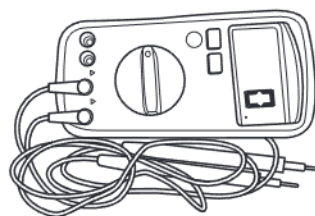
X-431 3G Diagnostic Tester



RCH0000001

### General Tool

Digital Multimeter

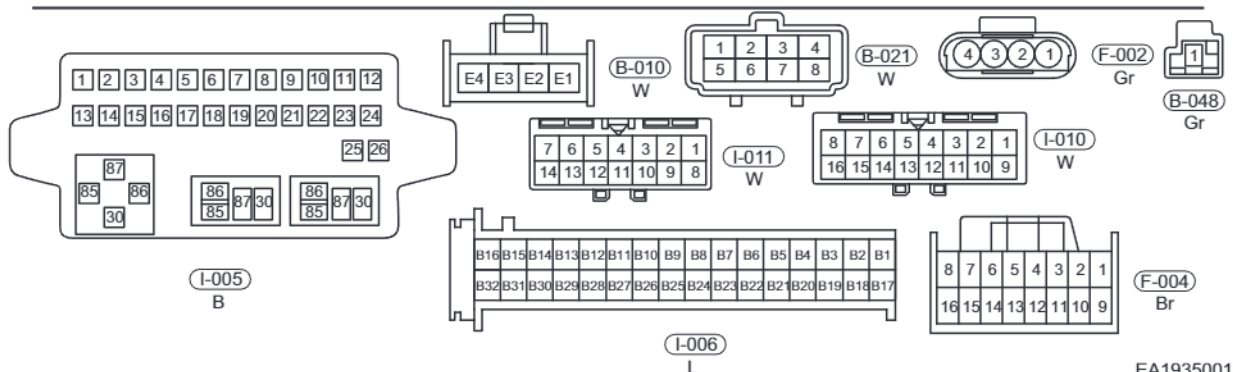
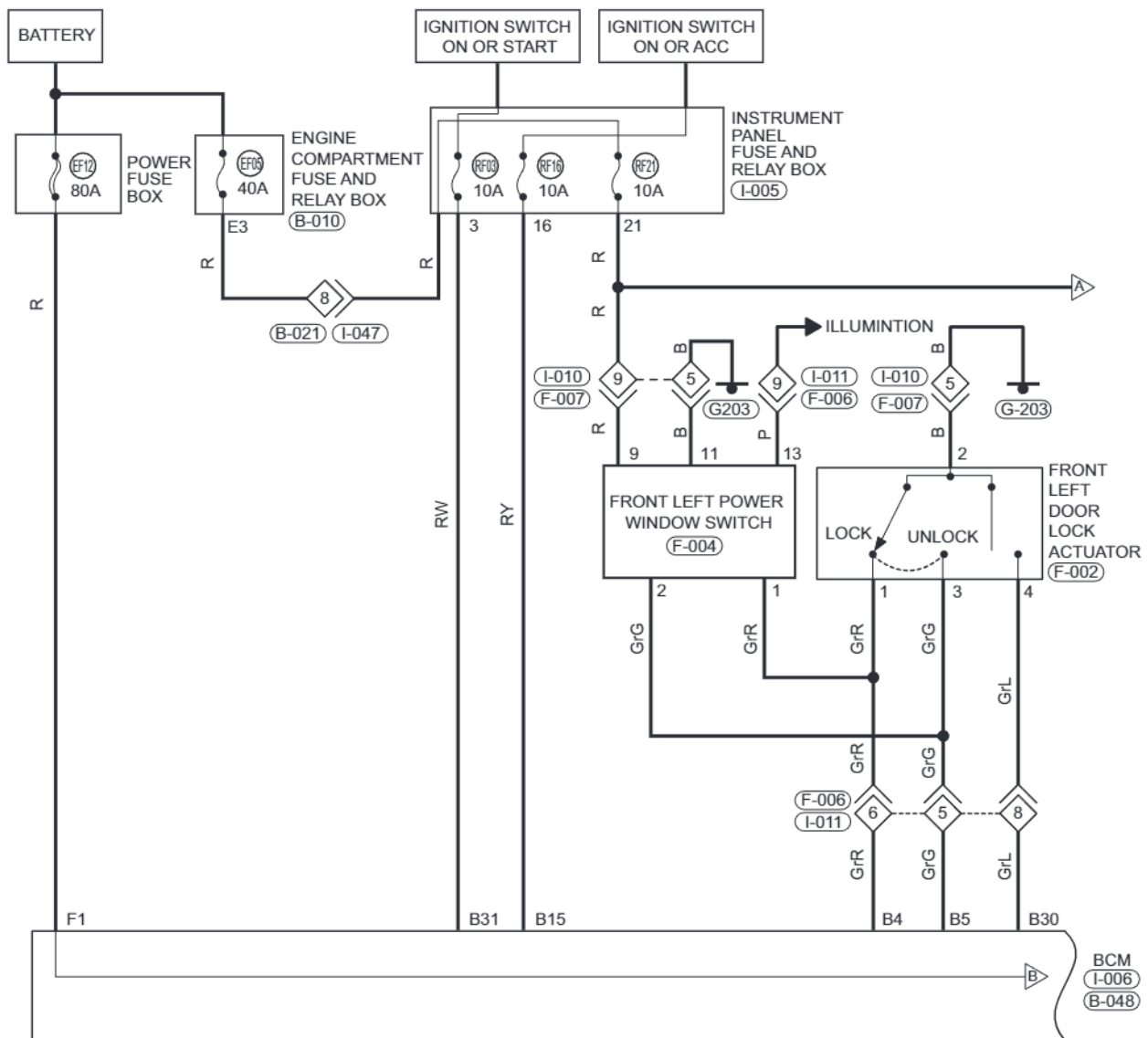


RCH0000002

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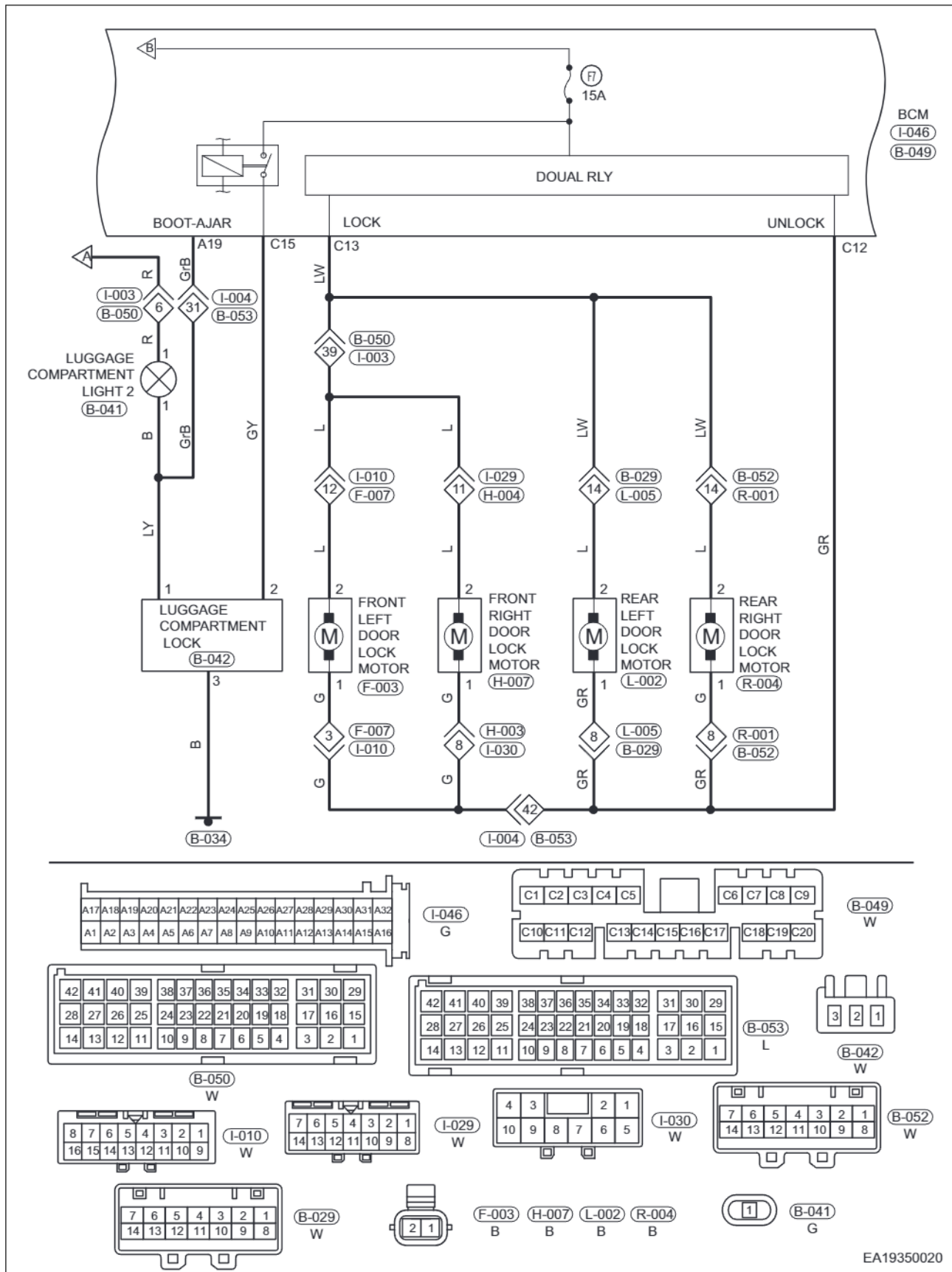
# Circuit Diagram

## Power Door Lock System (Page 1 of 4)



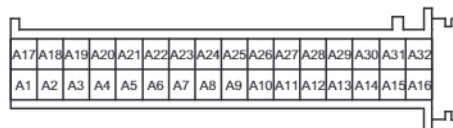
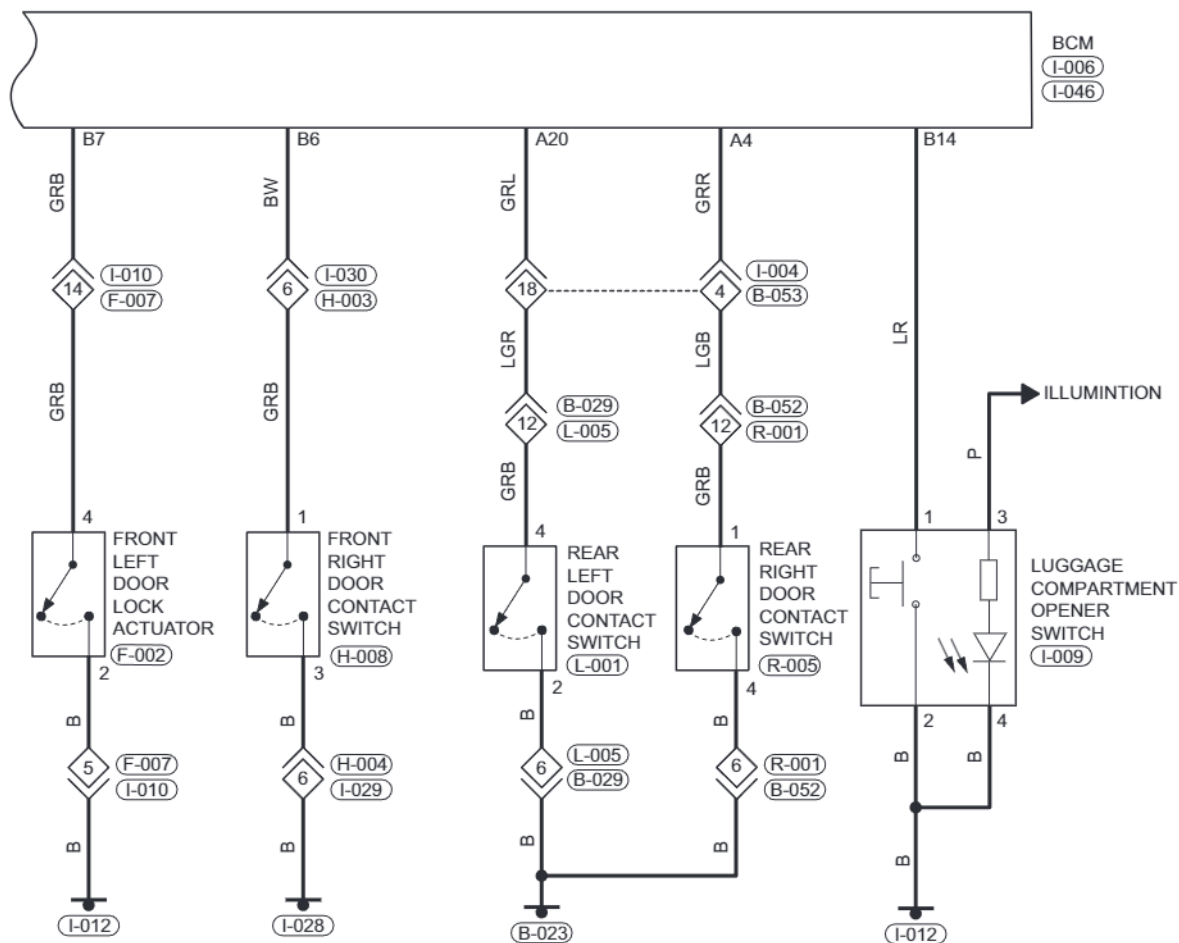
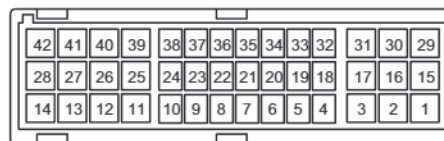
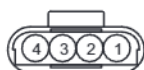
EA19350010

## Power Door Lock System (Page 2 of 4)



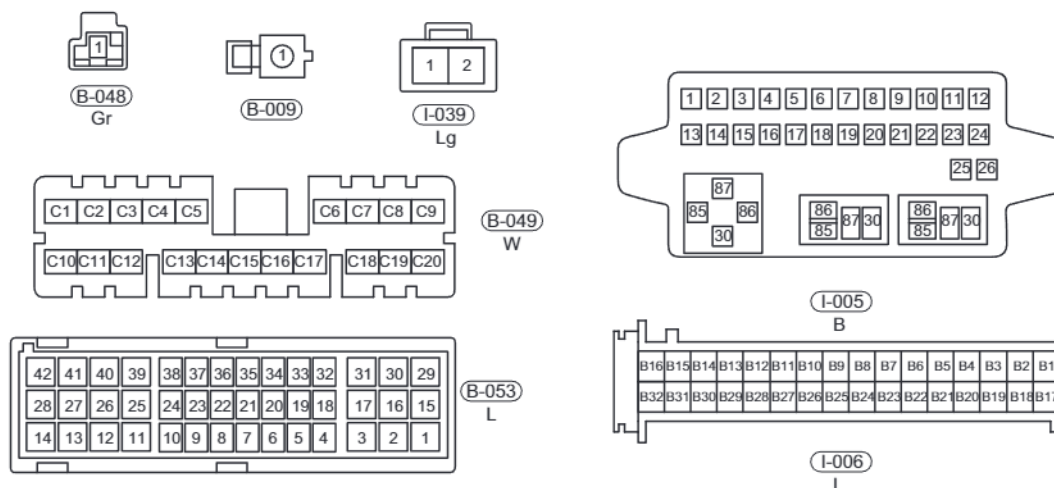
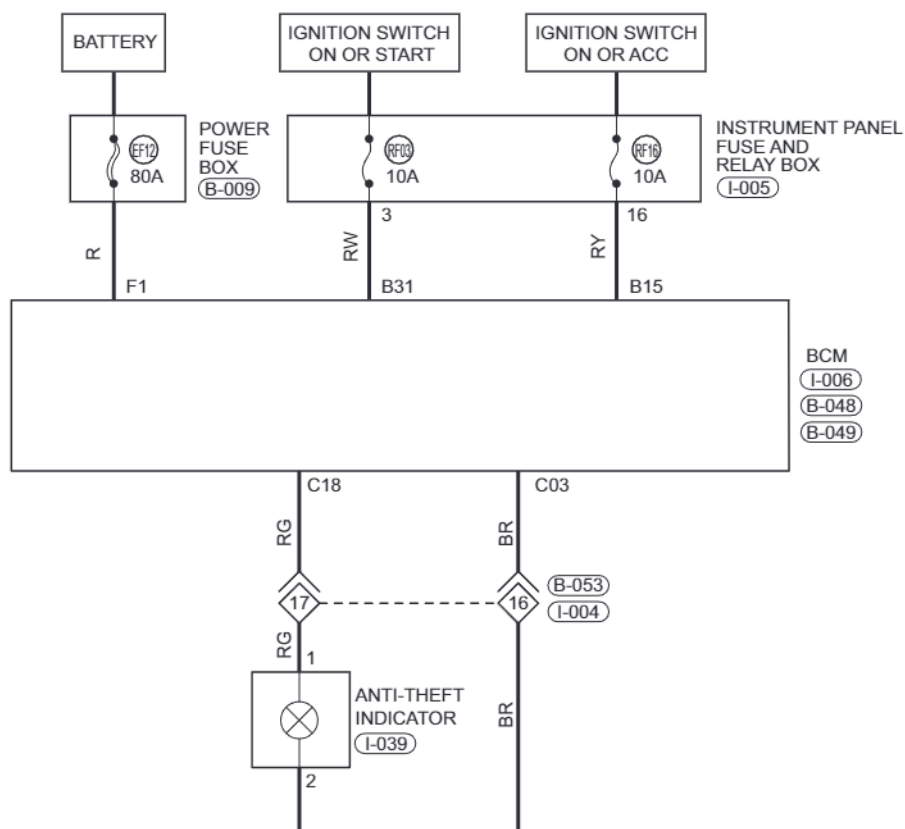
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## Power Door Lock System (Page 3 of 4)

I-046  
GI-006  
LI-010  
WI-030  
WB-053  
LF-002  
GRH-008  
BL-001  
BR-005  
BB-029  
WB-052  
WI-029  
WI-009  
B

EA19350030

## Power Door Lock System (Page 4 of 4)



EA19350040

## DIAGNOSIS & TESTING

### Problem Symptoms Table

**HINT:**

Use the table below to help determine the cause of problem symptoms. Check each suspected area in sequence. Repair or replace the faulty components, or adjust them as necessary.

Power Door Lock Control System:

| Symptom                                                           | Suspected Area                       | See page |
|-------------------------------------------------------------------|--------------------------------------|----------|
| All doors lock/unlock functions do not operate                    | Body Control Module (BCM) fuse       | 49-29    |
|                                                                   | Power door unlock/lock switch button | -        |
|                                                                   | Front left door lock assembly        | 35-41    |
|                                                                   | Other door lock assemblies           | -        |
|                                                                   | Wire harness or connector            | -        |
|                                                                   | Body Control Module (BCM)            | -        |
| Only driver side door lock/unlock functions do not operate        | Power door unlock/lock switch button | -        |
|                                                                   | Front left door lock assembly        | 35-41    |
|                                                                   | Wire harness or connector            | -        |
|                                                                   | Body Control Module (BCM)            | -        |
| Only passenger side door lock/unlock functions do not operate     | Front right door lock assembly       | 35-41    |
|                                                                   | Wire harness or connector            | -        |
|                                                                   | Body Control Module (BCM)            | -        |
| Only rear left door lock/unlock functions do not operate          | Rear left door lock assembly         | 35-47    |
|                                                                   | Wire harness or connector            | -        |
|                                                                   | Body Control Module (BCM)            | -        |
| Only rear right door lock/unlock functions do not operate         | Rear right door lock assembly        | 35-47    |
|                                                                   | Wire harness or connector            | -        |
|                                                                   | Body Control Module (BCM)            | -        |
| Only luggage compartment door open/close functions do not operate | Luggage compartment lock assembly    | 35-51    |
|                                                                   | Wire harness or connector            | -        |
|                                                                   | Body Control Module (BCM)            | -        |

## Wireless Door Lock Control System:

| Symptom                                         | Suspected Area            | See page |
|-------------------------------------------------|---------------------------|----------|
| Only wireless control function does not operate | Wireless key battery      | 35-55    |
|                                                 | Anti-theft match          | 35-5     |
|                                                 | Wire harness or connector | -        |
|                                                 | Body Control Module (BCM) | -        |
| Only no answer-back                             | Turn signal light         | -        |
|                                                 | Body Control Module (BCM) | -        |

## Diagnosis Tool

### X-431 3G Diagnostic Tester

When connecting the X-431 3G diagnostic tester:

- Connect the X-431 3G diagnostic tester (the latest software) to the Data Link Connector (DLC) for communication with the vehicle.
- DLC is located at the driver side instrument panel crossmember.
- DLC uses a trapezoidal design which can hold 16 terminals.

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### Digital Multimeter

When using the digital multimeter:

- Troubleshoot the electrical malfunctions and wire harness system.
- Troubleshoot the basic malfunction.
- Measure the voltage, current and resistance.

## DTC Confirmation Procedure

Confirm that the battery voltage is normal before performing the following procedures.

- Turn the ignition switch to LOCK.
- Connect the X-431 3G diagnostic tester (the latest software) to the Data Link Connector (DLC), and make it communicate with the vehicle electronic module by the data network.
- Turn the ignition switch to ON.
- Using the X-431 3G diagnostic tester to record and clear the DTCs stored in the Body Control Module (BCM).
- Turn the ignition switch to LOCK and wait for a few seconds.
- Turn the ignition switch to ON, and then select Read Code.
- If the DTC is detected, the malfunction indicated by the DTC is current. Go to the diagnosis procedure - Step 1.
- If the DTC is not detected, the malfunction indicated by the DTC is intermittent. Please refer to the "Intermittent DTC Troubleshooting".

## Intermittent DTC Troubleshooting

If the malfunction is intermittent, perform the followings:

- Check if the connectors are loose.
- Check if the wire harnesses are worn, pierced, pinched or partially broken.
- Wiggle the related wire harness and connector and observe if the signal is interrupted in the related circuit.
- If possible, try to duplicate the conditions under which the DTC was set.
- Look for the data that has changed or the DTC to reset during the wiggle test.
- Look for broken, bent, protruded or corroded terminals.



- Check if the installation of components (power door lock assembly, wire harness or wire harness connector, etc.) exist some conditions (damage, foreign matter, etc.) that will cause incorrect signals.
- Check and clean all the wire harness connectors and grounds related to the current DTC.
- Remove the Body Control Module (BCM) from the malfunctioning vehicle and install it to a new vehicle and perform a test. If the DTC cannot be cleared, the Body Control Module (BCM) is malfunctioning. If the DTC can be cleared, reinstall the Body Control Module (BCM) to the original vehicle.
- If multiple trouble codes were set, refer to the circuit diagrams to look for any common ground circuit or power supply circuit applied to the DTC.
- Refer to the Technical Bulletin that is applied to the malfunction.

## Ground Inspection

Ground points are very important to the proper operation of circuits. Ground points are often exposed to moisture, dirt and other corrosive environments. Corrosion (rust) can increase load resistance. This situation may change the way in which a circuit works. Electronically controlled circuits are very sensitive to proper grounding. A loose, corroded ground or oxidation can affect the electronically controlled circuit.

Perform the following operations when checking the ground points:

1. Remove the ground bolt or nut.
2. Check all the contact surfaces for tarnish, dirt and rust, etc.
3. Clean as necessary to ensure that the contacting is in good condition.
4. Reinstall the ground bolt or nut securely.
5. Check if the add-on accessories interfere with the ground circuit.
6. If several wire harnesses are secured to a eyelet terminal, check if they are installed correctly. Make sure all the wire harnesses are clean, securely fastened and providing a good ground path.

## Diagnosis Procedure

### HINT:

Use the following procedure to troubleshoot the power door lock control system.

|          |                                    |
|----------|------------------------------------|
| <b>1</b> | <b>Vehicle brought to workshop</b> |
|----------|------------------------------------|

**NEXT**

|          |                              |
|----------|------------------------------|
| <b>2</b> | <b>Check battery voltage</b> |
|----------|------------------------------|

**Standard voltage: 11 to 14 V**

If the voltage is below 11 V, recharge or replace the battery before proceeding to next step.

**NEXT**

|          |                                  |
|----------|----------------------------------|
| <b>3</b> | <b>Customer problem analysis</b> |
|----------|----------------------------------|

**NEXT**

**4** Check for DTCs (current DTC and history DTC)

DTC  
occurs

For current DTC, go to step 6

No  
DTC

For history DTC, go to step 7

**5** Problem repair (for no DTC), then go to step 8

NEXT

**6** Troubleshoot according to Diagnostic Trouble Code (DTC) chart, then go to step 8

NEXT

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**7** Troubleshoot according to Problem Symptoms Table, then go to step 8

NEXT

**8** Adjust, repair or replace

NEXT

**9** Confirm troubleshooting and perform test

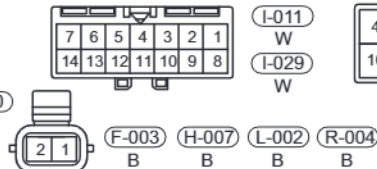
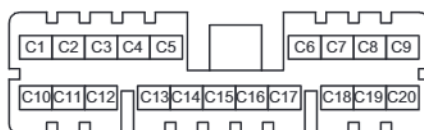
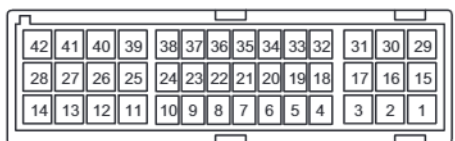
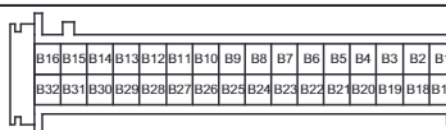
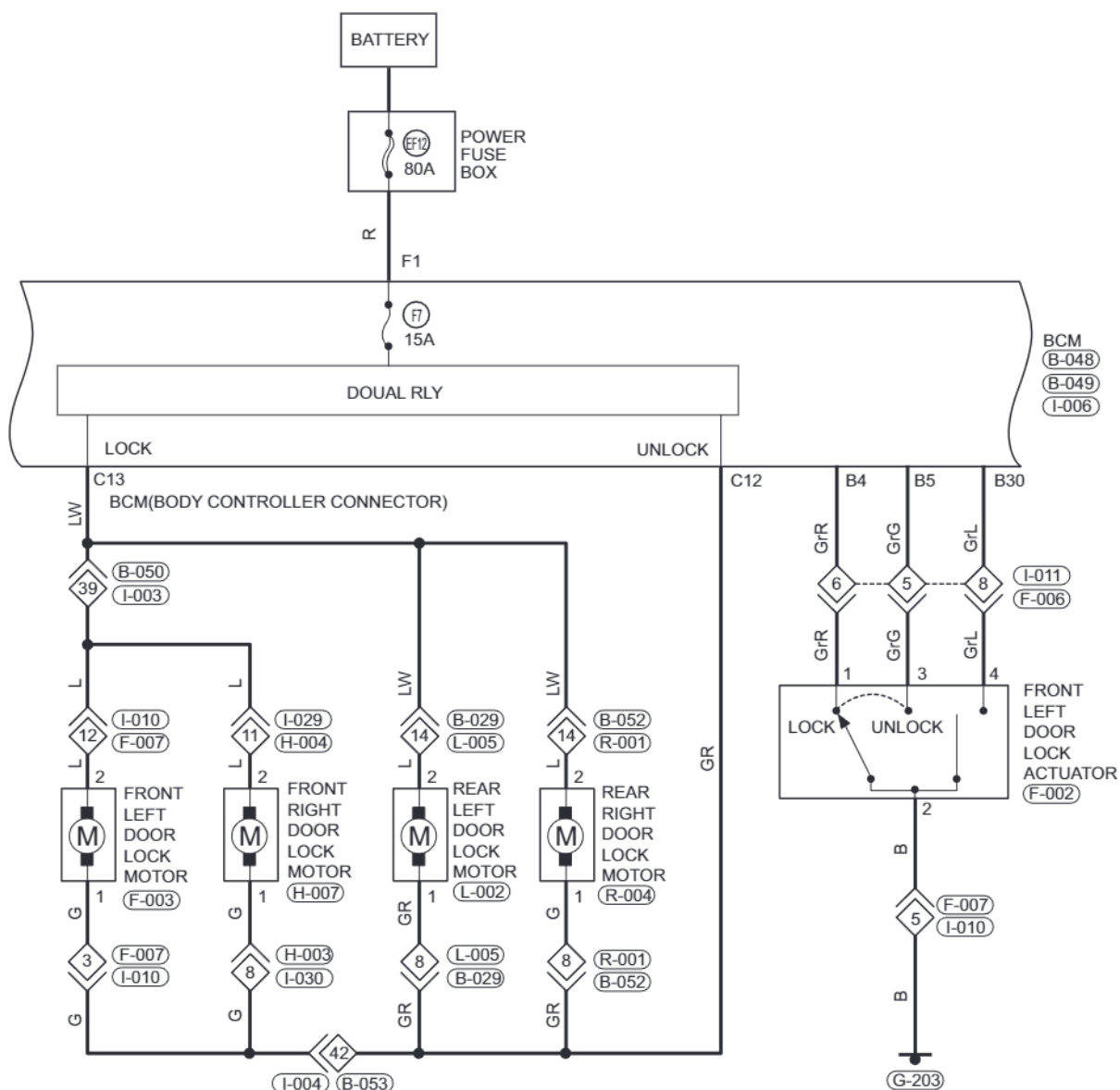
NEXT

**10** End

## Diagnostic Trouble Code (DTC) Chart

| DTC Code | DTC Definition                                         |
|----------|--------------------------------------------------------|
| B101B-18 | Central Unlock Control Circuit Current Below Threshold |
| B101B-19 | Central Unlock Control Circuit Current Above Threshold |
| B101B-71 | Central Unlock Control Circuit Actuator Stuck          |
| B101C-18 | Central Lock Control Circuit Current Below Threshold   |
| B101C-19 | Central Lock Control Circuit Current Above Threshold   |
| B101C-71 | Central Lock Control Circuit Actuator Stuck            |
| B101D-18 | Siren Control Circuit Current Below Threshold          |
| B101D-19 | Siren Control Circuit Current Above Threshold          |
| B101F-11 | Trunk Control Circuit Short to Ground                  |
| B101F-13 | Trunk Control Circuit Open                             |

|            |                 |                                                               |
|------------|-----------------|---------------------------------------------------------------|
| <b>DTC</b> | <b>B101B-18</b> | <b>Central Unlock Control Circuit Current Below Threshold</b> |
| <b>DTC</b> | <b>B101B-19</b> | <b>Central Unlock Control Circuit Current Above Threshold</b> |
| <b>DTC</b> | <b>B101B-71</b> | <b>Central Unlock Control Circuit Actuator Stuck</b>          |
| <b>DTC</b> | <b>B101C-18</b> | <b>Central Lock Control Circuit Current Below Threshold</b>   |
| <b>DTC</b> | <b>B101C-19</b> | <b>Central Lock Control Circuit Current Above Threshold</b>   |
| <b>DTC</b> | <b>B101C-71</b> | <b>Central Lock Control Circuit Actuator Stuck</b>            |



EA19350050

## Self-diagnosis Detection Logic

| DTC Code | DTC Definition                                         | DTC Detection Condition | Warning Light Condition | Possible Cause                                                                                                                                                              |
|----------|--------------------------------------------------------|-------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B101B-18 | Central Unlock Control Circuit Current Below Threshold | Ignition switch ON      | ON                      | <ul style="list-style-type: none"> <li>• Fuse</li> <li>• Front left door lock assembly</li> <li>• Wire harness or connector</li> <li>• Body Control Module (BCM)</li> </ul> |
| B101B-19 | Central Unlock Control Circuit Current Above Threshold |                         |                         |                                                                                                                                                                             |
| B101B-71 | Central Unlock Control Circuit Actuator Stuck          |                         |                         |                                                                                                                                                                             |
| B101C-18 | Central Lock Control Circuit Current Below Threshold   |                         |                         |                                                                                                                                                                             |
| B101C-19 | Central Lock Control Circuit Current Above Threshold   |                         |                         |                                                                                                                                                                             |
| B101C-71 | Central Lock Control Circuit Actuator Stuck            |                         |                         |                                                                                                                                                                             |

35

 CAUTION

- When performing the circuit diagnosis and test, always refer to the circuit diagram for specific circuit and the component information.

## Diagnosis Procedure

**1** Check Body Control Module (BCM) fuse F7 (15 A)

- Turn the ignition switch to LOCK.
- Disconnect the negative battery cable.
- Remove the Body Control Module (BCM) fuse F7 (15 A).
- Check if the fuse is blown.

NG

Replace Body Control Module (BCM) fuse F7 (15 A)

OK

**2** Check front left door lock assembly

- Check the front left door lock assembly ([See page 35-41](#)).

NG

Replace front left door lock assembly

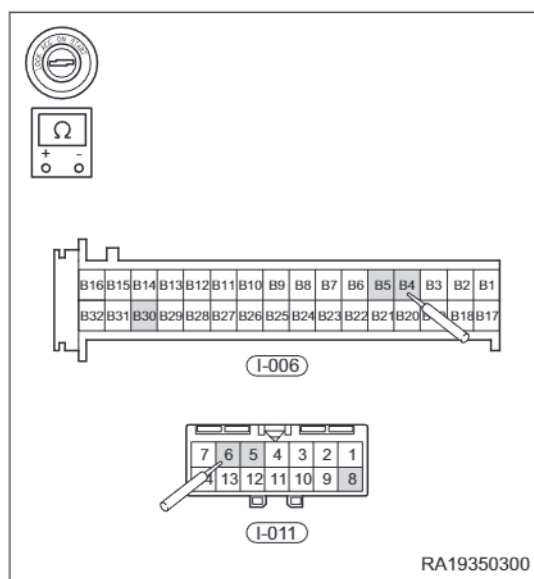
OK

## 3

## Check instrument panel wire harness and connector

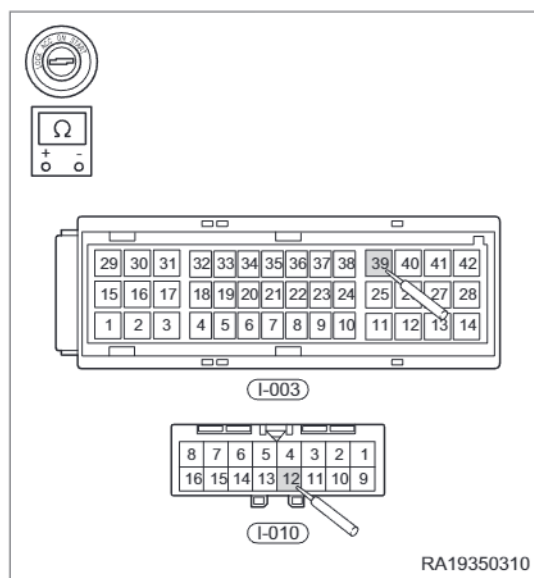
- Turn the ignition switch to LOCK.
- Disconnect the negative battery cable.
- Disconnect the instrument panel wire harness connectors I-006 and I-011.
- Using a digital multimeter, check for continuity between the instrument panel wire harness connectors I-006 and I-011 according to the value(s) in the table below.

| Multimeter Connection   | Condition | Specified Condition |
|-------------------------|-----------|---------------------|
| I-006 (B4) - I-011 (6)  | Always    | Continuity          |
| I-006 (B5) - I-011 (5)  | Always    | Continuity          |
| I-006 (B30) - I-011 (8) | Always    | Continuity          |



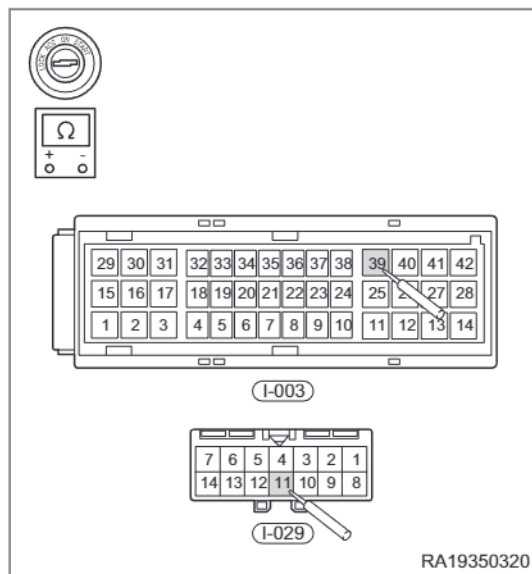
- Disconnect the instrument panel wire harness connectors I-003 and I-010.
- Using a digital multimeter, check for continuity between the instrument panel wire harness connectors I-003 and I-010 according to the value(s) in the table below.

| Multimeter Connection   | Condition | Specified Condition |
|-------------------------|-----------|---------------------|
| I-003 (39) - I-010 (12) | Always    | Continuity          |



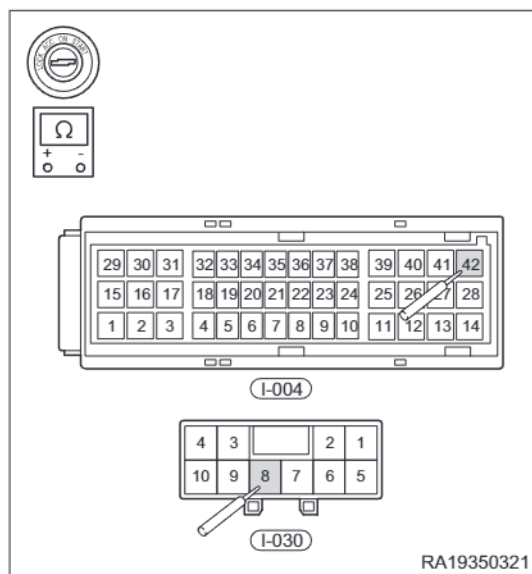
- g. Disconnect the instrument panel wire harness connectors I-003 and I-029.
- h. Using a digital multimeter, check for continuity between the instrument panel wire harness connectors I-003 and I-029 according to the value(s) in the table below.

| Multimeter Connection   | Condition | Specified Condition |
|-------------------------|-----------|---------------------|
| I-003 (39) - I-029 (11) | Always    | Continuity          |



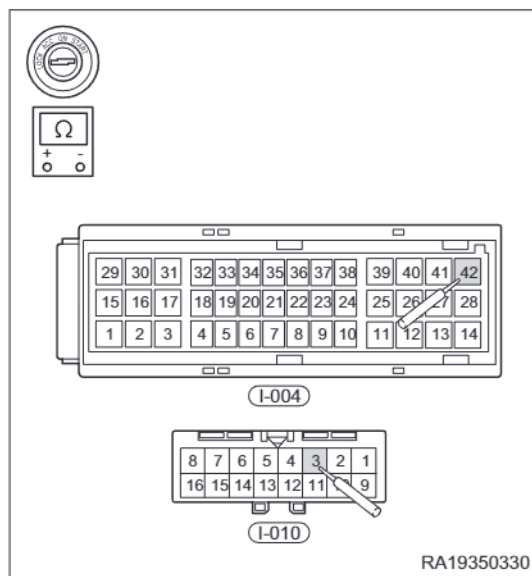
- i. Disconnect the instrument panel wire harness connectors I-004 and I-030.
- j. Using a digital multimeter, check for continuity between the instrument panel wire harness connectors I-004 and I-030 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| I-004 (42) - I-030 (8) | Always    | Continuity          |



- k. Disconnect the instrument panel wire harness connectors I-004 and I-010.
- l. Using a digital multimeter, check for continuity between the instrument panel wire harness connectors I-004 and I-010 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| I-004 (42) - I-010 (3) | Always    | Continuity          |

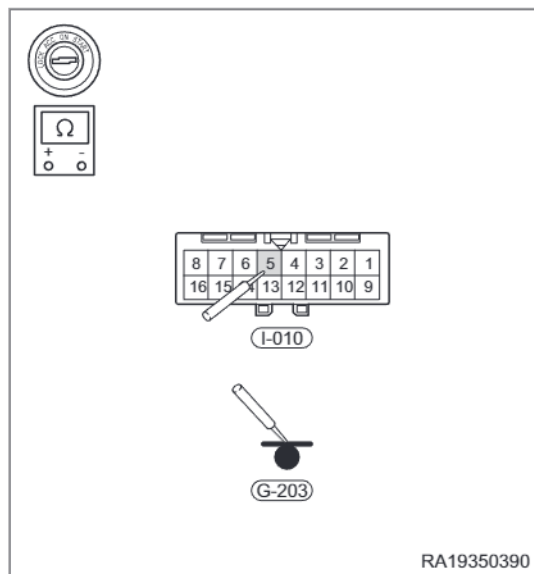


- m. Disconnect the instrument panel wire harness connector I-010 and ground G-203.
- n. Using a digital multimeter, check for continuity between the instrument panel wire harness connector I-010 and ground G-203 according to the value(s) in the table below.

| Multimeter Connection | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| I-010 (5) - G-203     | Always    | Continuity          |

NG

Repair or replace instrument panel wire harness and connector



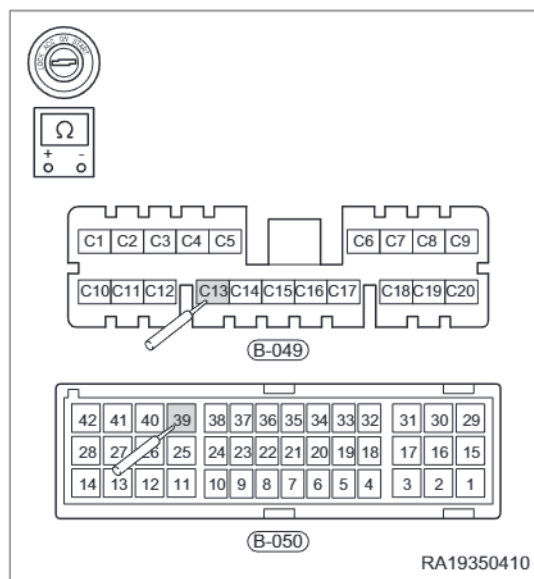
OK

35

#### 4 Check body wire harness and connector

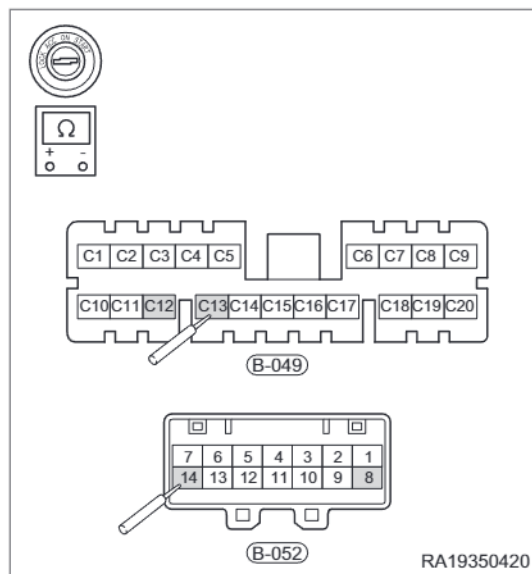
- a. Turn the ignition switch to LOCK.
- b. Disconnect the negative battery cable.
- c. Disconnect the body wire harness connectors B-049 and B-050.
- d. Using a digital multimeter, check for continuity between the body wire harness connectors B-049 and B-050 according to the value(s) in the table below.

| Multimeter Connection    | Condition | Specified Condition |
|--------------------------|-----------|---------------------|
| B-049 (C13) - B-050 (39) | Always    | Continuity          |



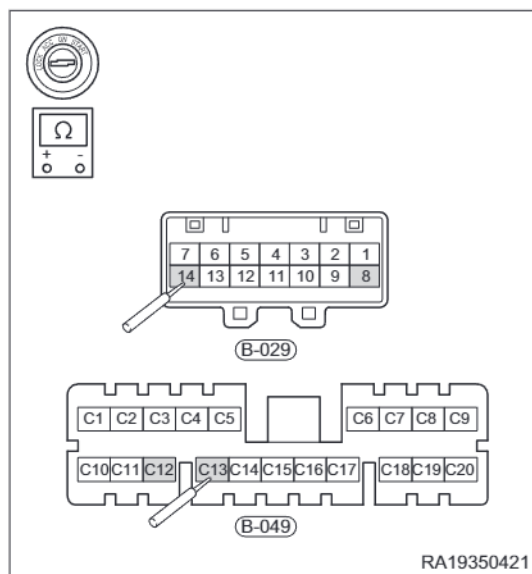
- e. Disconnect the body wire harness connectors B-049 and B-052.
- f. Using a digital multimeter, check for continuity between the body wire harness connectors B-049 and B-052 according to the value(s) in the table below.

| Multimeter Connection    | Condition | Specified Condition |
|--------------------------|-----------|---------------------|
| B-049 (C13) - B-052 (14) | Always    | Continuity          |
| B-049 (C12) - B-052 (8)  | Always    | Continuity          |



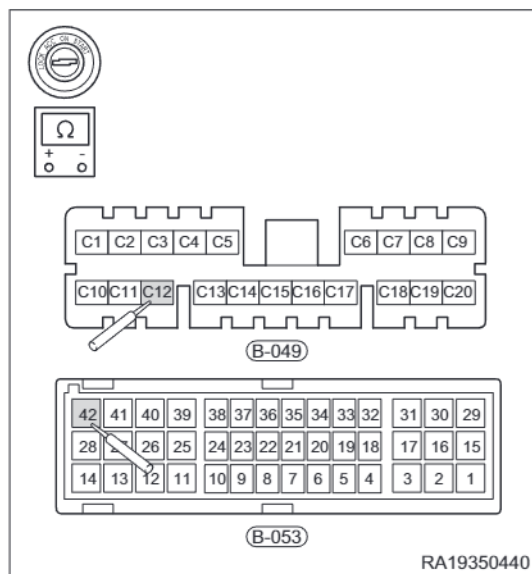
- g. Disconnect the body wire harness connectors B-029 and B-049.
- h. Using a digital multimeter, check for continuity between the body wire harness connectors B-029 and B-049 according to the value(s) in the table below.

| Multimeter Connection    | Condition | Specified Condition |
|--------------------------|-----------|---------------------|
| B-029 (14) - B-049 (C13) | Always    | Continuity          |
| B-029 (8) - B-049 (C12)  | Always    | Continuity          |



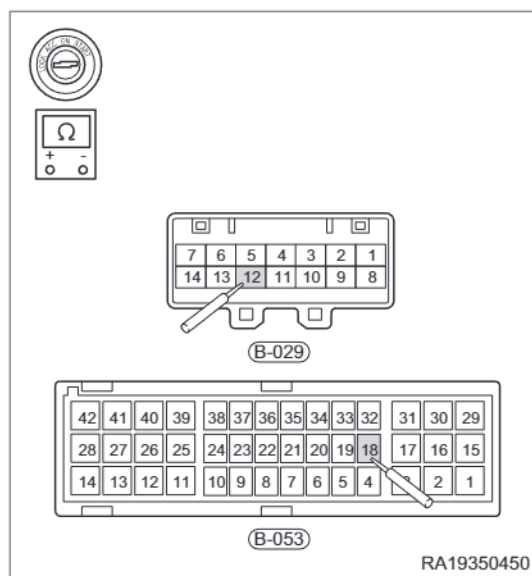
- i. Disconnect the body wire harness connectors B-049 and B-053.
- j. Using a digital multimeter, check for continuity between the body wire harness connectors B-049 and B-053 according to the value(s) in the table below.

| Multimeter Connection    | Condition | Specified Condition |
|--------------------------|-----------|---------------------|
| B-049 (C12) - B-053 (42) | Always    | Continuity          |



- k. Disconnect the body wire harness connectors B-029 and B-053.
- l. Using a digital multimeter, check for continuity between the body wire harness connectors B-029 and B-053 according to the value(s) in the table below.

| Multimeter Connection   | Condition | Specified Condition |
|-------------------------|-----------|---------------------|
| B-029 (12) - B-053 (18) | Always    | Continuity          |

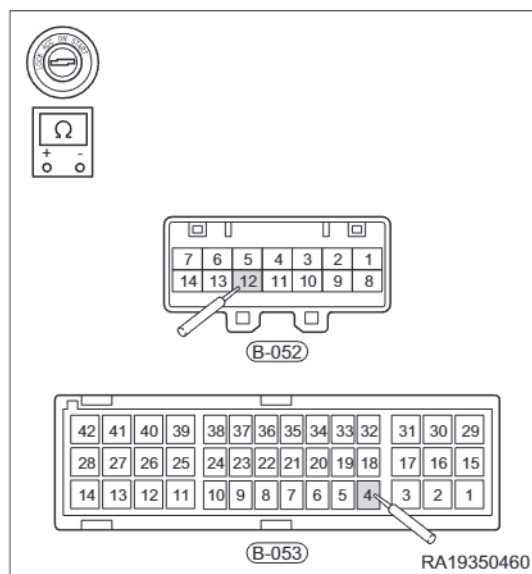


- 35 m. Disconnect the body wire harness connectors B-052 and B-053.
- n. Using a digital multimeter, check for continuity between the body wire harness connectors B-052 and B-053 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| B-052 (12) - B-053 (4) | Always    | Continuity          |

NG

Repair or replace body wire harness and connector

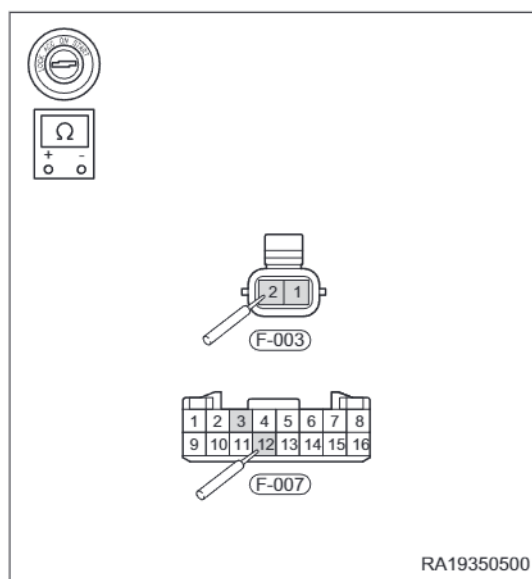


OK

## 5 Check front left door wire harness and connector

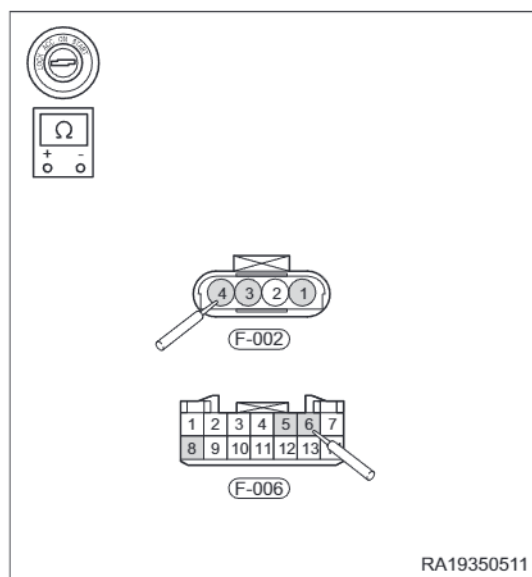
- Turn the ignition switch to LOCK.
- Disconnect the negative battery cable.
- Disconnect the front left door wire harness connectors F-003 and F-007.
- Using a digital multimeter, check for continuity between the front left door wire harness connectors F-003 and F-007 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| F-003 (2) - F-007 (12) | Always    | Continuity          |
| F-003 (1) - F-007 (3)  | Always    | Continuity          |



- Disconnect the front left door wire harness connectors F-002 and F-006.
- Using a digital multimeter, check for continuity between the front left door wire harness connectors F-002 and F-006 according to the value(s) in the table below.

| Multimeter Connection | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| F-002 (1) - F-006 (6) | Always    | Continuity          |
| F-002 (3) - F-006 (5) | Always    | Continuity          |
| F-002 (4) - F-006 (8) | Always    | Continuity          |

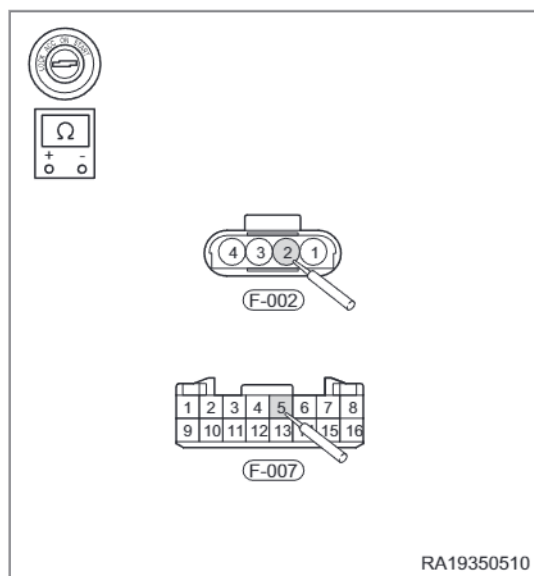


- g. Disconnect the front left door wire harness connectors F-002 and F-007.
- h. Using a digital multimeter, check for continuity between the front left door wire harness connectors F-002 and F-007 according to the value(s) in the table below.

| Multimeter Connection | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| F-002 (2) - F-007 (5) | Always    | Continuity          |

NG

Repair or replace front left door wire harness and connector



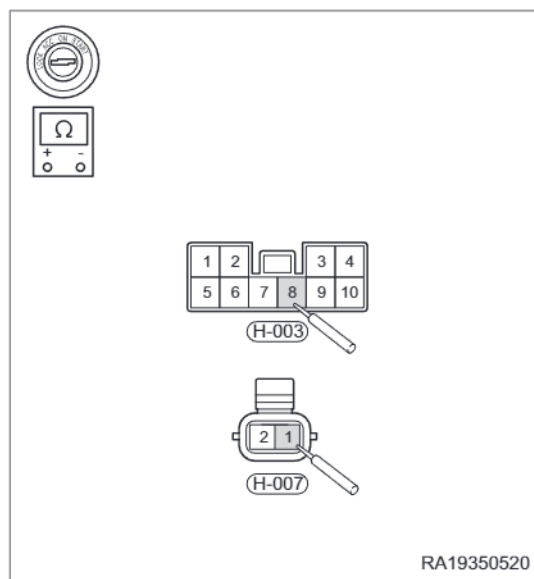
OK

35

## 6 Check front right door wire harness and connector

- a. Turn the ignition switch to LOCK.
- b. Disconnect the negative battery cable.
- c. Disconnect the front right door wire harness connectors H-003 and H-007.
- d. Using a digital multimeter, check for continuity between the front right door wire harness connectors H-003 and H-007 according to the value(s) in the table below.

| Multimeter Connection | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| H-003 (8) - H-007 (1) | Always    | Continuity          |

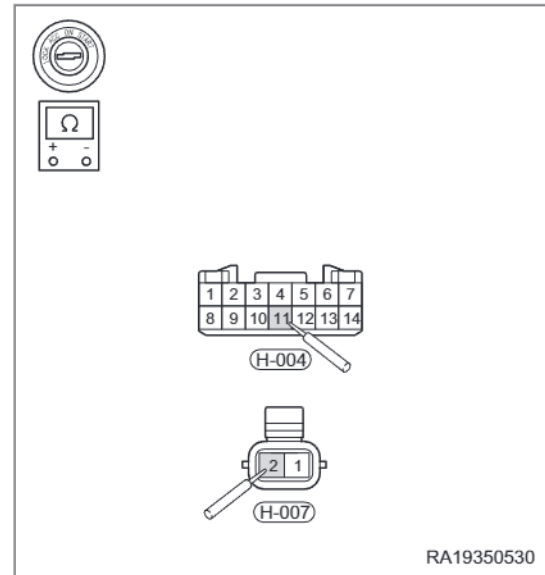


- e. Disconnect the front right door wire harness connectors H-004 and H-007.
- f. Using a digital multimeter, check for continuity between the front right door wire harness connectors H-004 and H-007 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| H-004 (11) - H-007 (2) | Always    | Continuity          |

NG

Repair or replace front right door wire harness and connector



OK

35

## 7

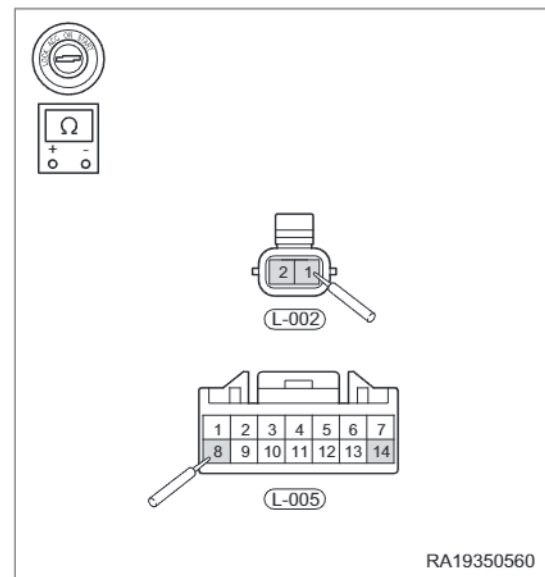
## Check rear left door wire harness and connector

- a. Turn the ignition switch to LOCK.
- b. Disconnect the negative battery cable.
- c. Disconnect the rear left door wire harness connectors L-002 and L-005.
- d. Using a digital multimeter, check for continuity between the rear left door wire harness connectors L-002 and L-005 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| L-002 (1) - L-005 (8)  | Always    | Continuity          |
| L-002 (2) - L-005 (14) | Always    | Continuity          |

NG

Repair or replace rear left door wire harness and connector

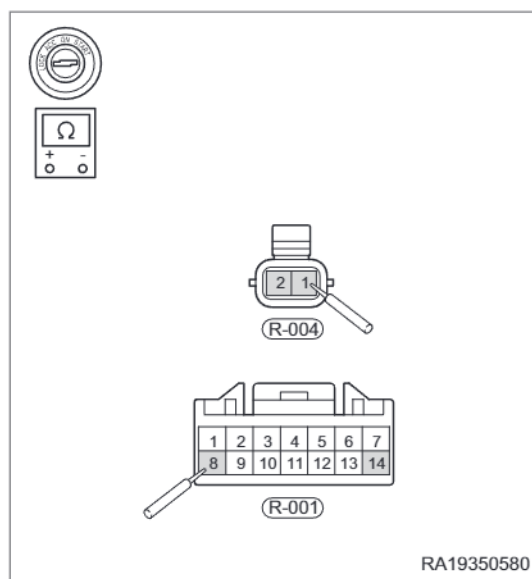


OK

## 8 Check rear right door wire harness and connector

- Turn the ignition switch to LOCK.
- Disconnect the negative battery cable.
- Disconnect the rear right door wire harness connectors R-001 and R-004.
- Using a digital multimeter, check for continuity between the rear right door wire harness connectors R-001 and R-004 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| R-001 (14) - R-004 (2) | Always    | Continuity          |
| R-001 (8) - R-004 (1)  | Always    | Continuity          |



35

NG

Repair or replace rear right door wire harness and connector

OK

## 9 Reconfirm DTCs

- Connect all connectors.
- Connect the negative battery cable.
- Turn the ignition switch to ON.
- Use the X-431 3G diagnostic tester (the latest software) to record and clear the DTCs stored in the Body Control Module (BCM).
- Turn the ignition switch to LOCK and wait for a few seconds.
- Turn the ignition switch to ON.
- Use the X-431 3G diagnostic tester (the latest software) to read the DTCs stored in the Body Control Module (BCM) again.

| Result                                                                    | Proceed to |
|---------------------------------------------------------------------------|------------|
| DTC B101B-18, B101B-19, B101B-71, B101C-18, B101C-19, B101C-71 are output | NG         |
| No DTC output                                                             | OK         |

NG

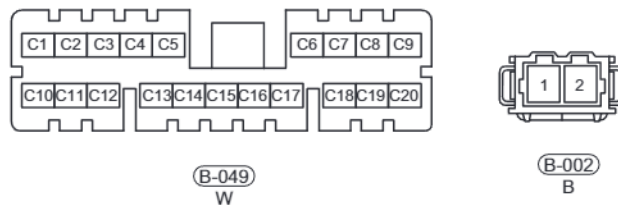
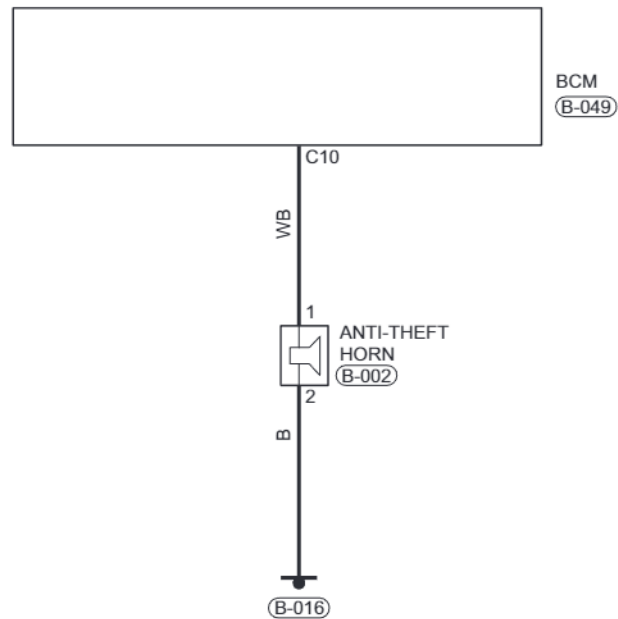
Replace Body Control Module (BCM)

OK

System is normal

|     |          |                                               |
|-----|----------|-----------------------------------------------|
| DTC | B101D-18 | Siren Control Circuit Current Below Threshold |
|-----|----------|-----------------------------------------------|

|     |          |                                               |
|-----|----------|-----------------------------------------------|
| DTC | B101D-19 | Siren Control Circuit Current Above Threshold |
|-----|----------|-----------------------------------------------|



EA19350060

## Self-diagnosis Detection Logic

| DTC Code | DTC Definition                                | DTC Detection Condition | Warning Light Condition | Possible Cause                                                                                                 |
|----------|-----------------------------------------------|-------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------|
| B101D-18 | Siren Control Circuit Current Below Threshold | Ignition switch ON      | ON                      | <ul style="list-style-type: none"> <li>Wire harness or connector</li> <li>Body Control Module (BCM)</li> </ul> |
| B101D-19 | Siren Control Circuit Current Above Threshold |                         |                         |                                                                                                                |

 **CAUTION**

- When performing the circuit diagnosis and test, always refer to the circuit diagram for specific circuit and the component information.

35

**1** Check anti-theft horn

- a. Check the anti-theft horn.

NG

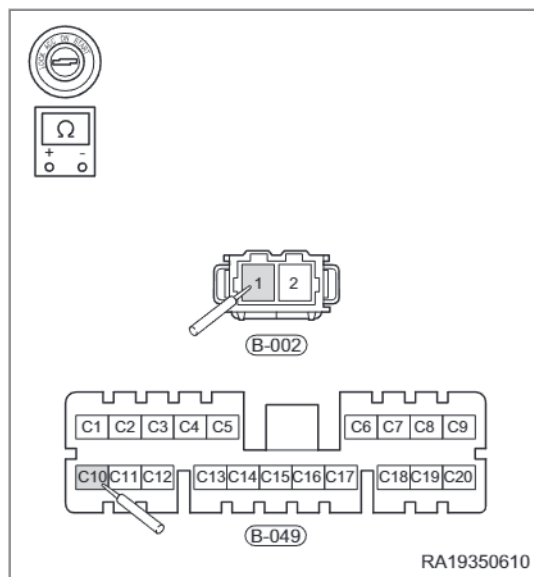
Replace anti-theft horn

OK

**2** Check body wire harness and connector

- a. Turn the ignition switch to LOCK.  
 b. Disconnect the negative battery cable.  
 c. Disconnect the body wire harness connectors B-002 and B-049.  
 d. Using a digital multimeter, check for continuity between the body wire harness connectors B-002 and B-049 according to the value(s) in the table below.

| Multimeter Connection   | Condition | Specified Condition |
|-------------------------|-----------|---------------------|
| B-002 (1) - B-049 (C10) | Always    | Continuity          |

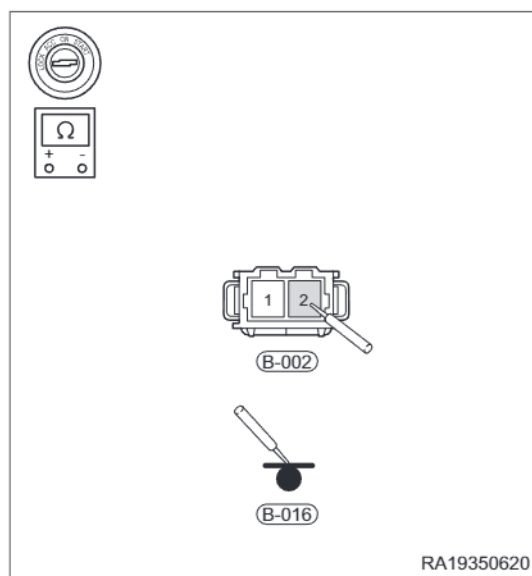


- e. Disconnect the body wire harness connector B-002 and ground B-016.
- f. Using a digital multimeter, check for continuity between the body wire harness connector B-002 and ground B-016 according to the value(s) in the table below.

| Multimeter Connection | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| B-002 (2) - B-016     | Always    | Continuity          |

NG

Repair or replace body wire harness and connector



OK

35

3

Reconfirm DTCs

- a. Connect all connectors.
- b. Connect the negative battery cable.
- c. Turn the ignition switch to ON.
- d. Use the X-431 3G diagnostic tester (the latest software) to record and clear the DTCs stored in the Body Control Module (BCM).
- e. Turn the ignition switch to LOCK and wait for a few seconds.
- f. Turn the ignition switch to ON.
- g. Use the X-431 3G diagnostic tester (the latest software) to read the DTCs stored in the Body Control Module (BCM) again.

| Result                           | Proceed to |
|----------------------------------|------------|
| B101D-18 and B101D-19 are output | NG         |
| No DTC output                    | OK         |

NG

Replace Body Control Module (BCM)

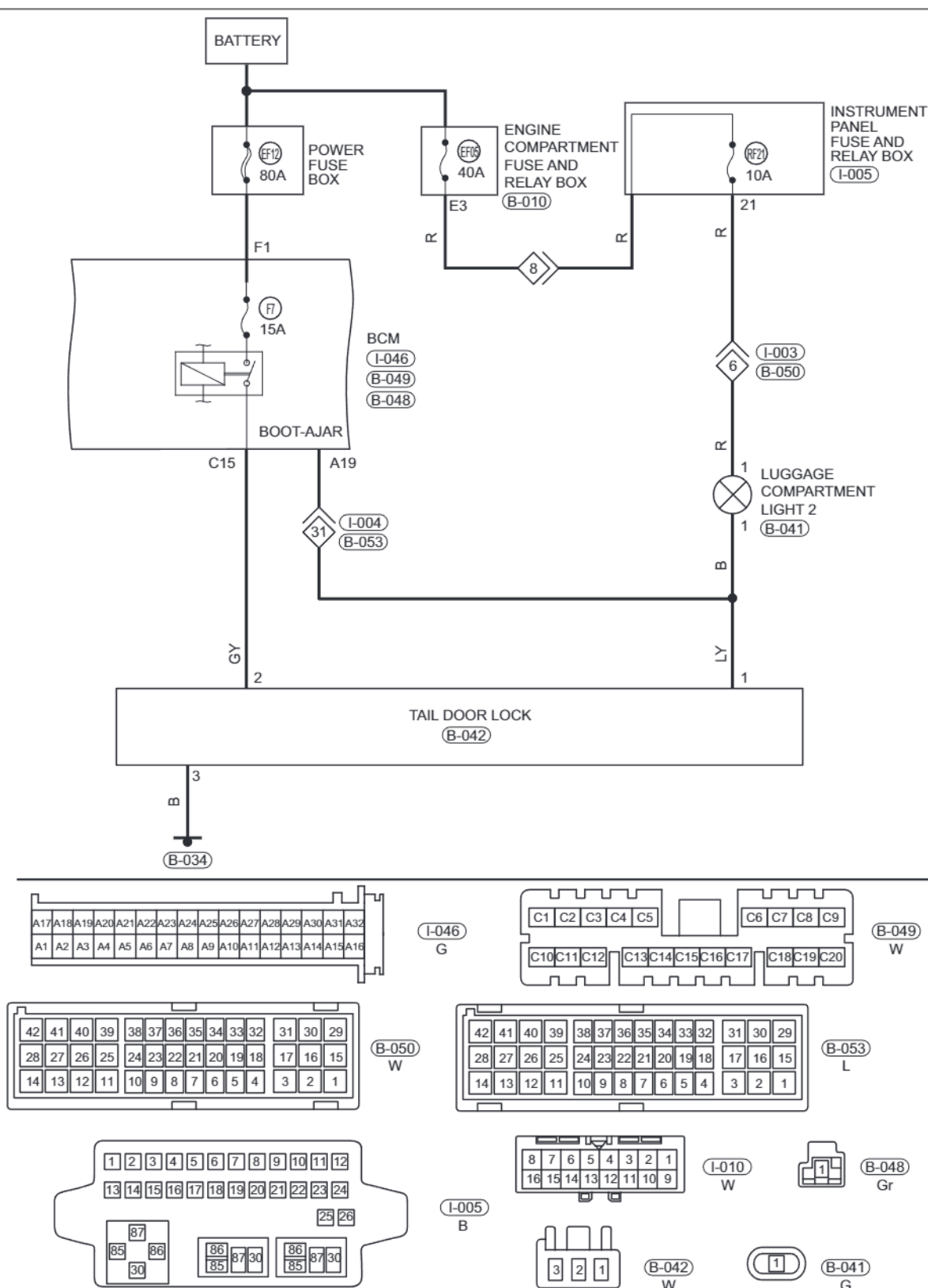
OK

System is normal

|     |          |                                       |
|-----|----------|---------------------------------------|
| DTC | B101F-11 | Trunk Control Circuit Short to Ground |
|-----|----------|---------------------------------------|

|     |          |                            |
|-----|----------|----------------------------|
| DTC | B101F-13 | Trunk Control Circuit Open |
|-----|----------|----------------------------|

35



EA19350070

## Self-diagnosis Detection Logic

| DTC Code | DTC Definition                        | DTC Detection Condition | Warning Light Condition | Possible Cause                                                                                                                                            |
|----------|---------------------------------------|-------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| B101F-11 | Trunk Control Circuit Short to Ground | Ignition switch ON      | ON                      | <ul style="list-style-type: none"> <li>Luggage compartment lock assembly</li> <li>Wire harness or connector</li> <li>Body Control Module (BCM)</li> </ul> |
| B101F-13 | Trunk Control Circuit Open            |                         |                         |                                                                                                                                                           |

## CAUTION

- When performing the circuit diagnosis and test, always refer to the circuit diagram for the specific circuit and the component information.

35

## Diagnosis Procedure

## 1 Check luggage compartment lock assembly

- a. Check the luggage compartment lock assembly ([See page 35-51](#)).

NG

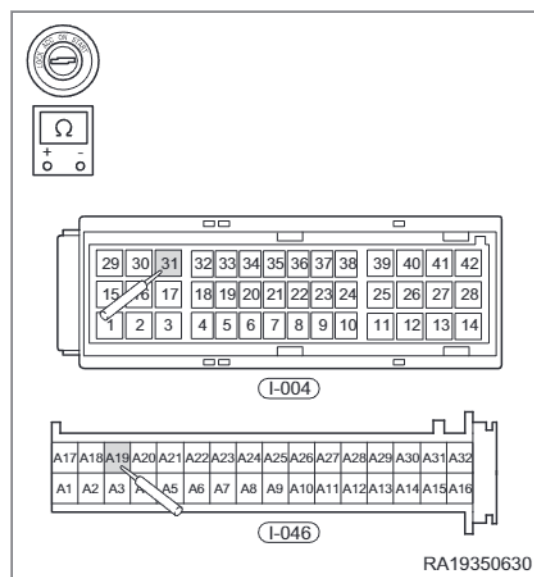
Replace luggage compartment lock assembly

OK

## 2 Check instrument panel wire harness and connector

- a. Turn the ignition switch to LOCK.  
b. Disconnect the negative battery cable.  
c. Disconnect the instrument panel wire harness connectors I-004 and I-046.  
d. Using a digital multimeter, check for continuity between the instrument panel wire harness connectors I-004 and I-046 according to the value(s) in the table below.

| Multimeter Connection    | Condition | Specified Condition |
|--------------------------|-----------|---------------------|
| I-004 (31) - I-046 (A19) | Always    | Continuity          |

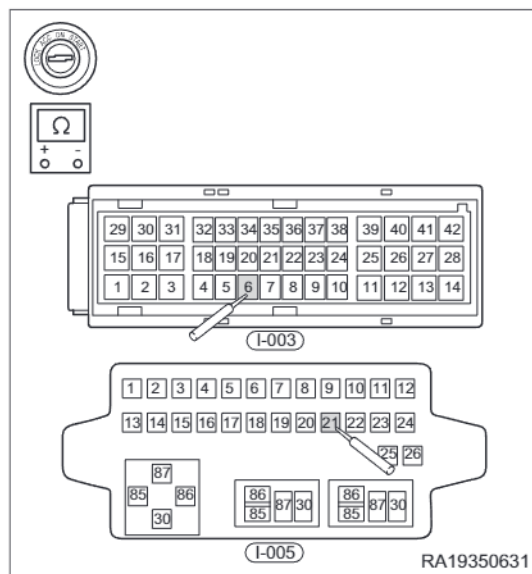


- e. Disconnect the instrument panel wire harness connectors I-003 and I-005.
- f. Using a digital multimeter, check for continuity between the instrument panel wire harness connectors I-003 and I-005 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| I-003 (6) - I-005 (21) | Always    | Continuity          |

NG

Repair or replace instrument panel wire harness and connector



OK

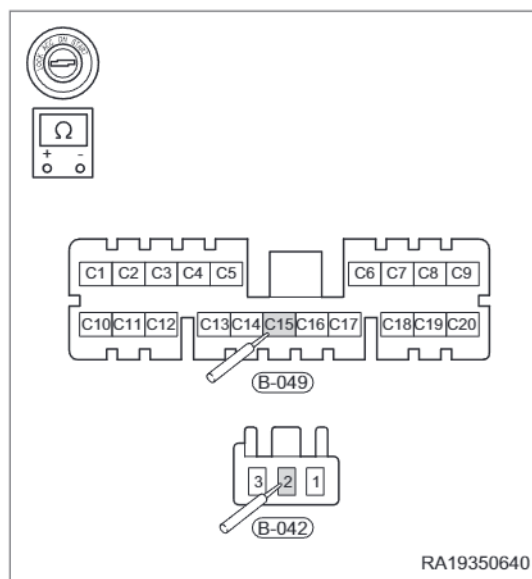
35

3

## Check body wire harness and connector

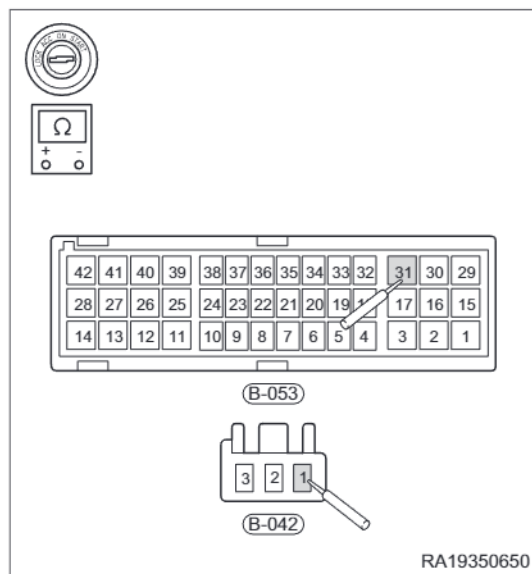
- a. Turn the ignition switch to LOCK.
- b. Disconnect the negative battery cable.
- c. Disconnect the body wire harness connectors B-049 and B-042.
- d. Using a digital multimeter, check for continuity between the body wire harness connectors B-049 and B-042 according to the value(s) in the table below.

| Multimeter Connection   | Condition | Specified Condition |
|-------------------------|-----------|---------------------|
| B-049 (C15) - B-042 (2) | Always    | Continuity          |



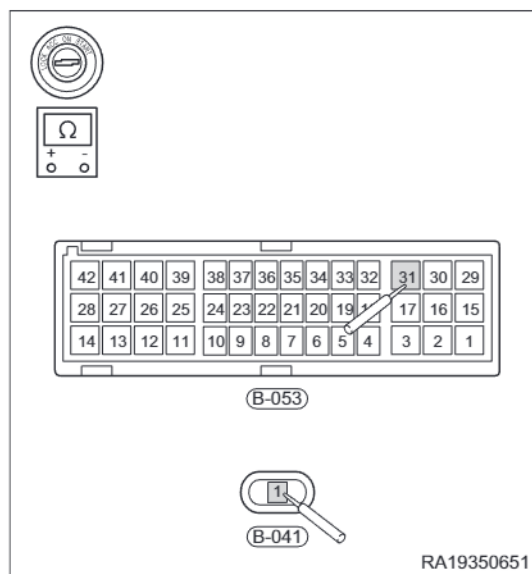
- e. Disconnect the body wire harness connectors B-053 and B-042.
- f. Using a digital multimeter, check for continuity between the body wire harness connectors B-053 and B-042 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| B-053 (31) - B-042 (1) | Always    | Continuity          |



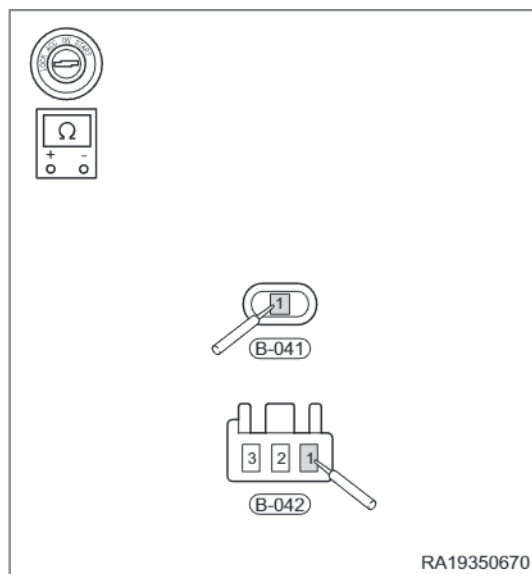
- g. Disconnect the body wire harness connectors B-053 and B-041.
- h. Using a digital multimeter, check for continuity between the body wire harness connectors B-053 and B-041 according to the value(s) in the table below.

| Multimeter Connection  | Condition | Specified Condition |
|------------------------|-----------|---------------------|
| B-053 (31) - B-041 (1) | Always    | Continuity          |



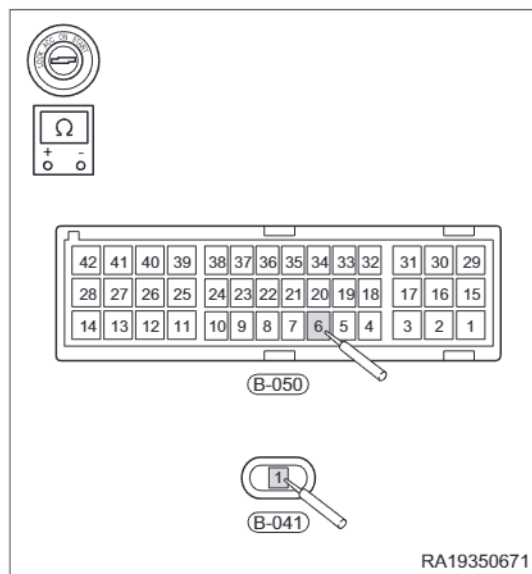
- i. Disconnect the body wire harness connectors B-041 and B-042.
- j. Using a digital multimeter, check for continuity between the body wire harness connectors B-041 and B-042 according to the value(s) in the table below.

| Multimeter Connection | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| B-041 (1) - B-042 (1) | Always    | Continuity          |



- k. Disconnect the body wire harness connectors B-041 and B-050.
- l. Using a digital multimeter, check for continuity between the body wire harness connectors B-041 and B-050 according to the value(s) in the table below.

| Multimeter Connection | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| B-041 (1) - B-050 (6) | Always    | Continuity          |

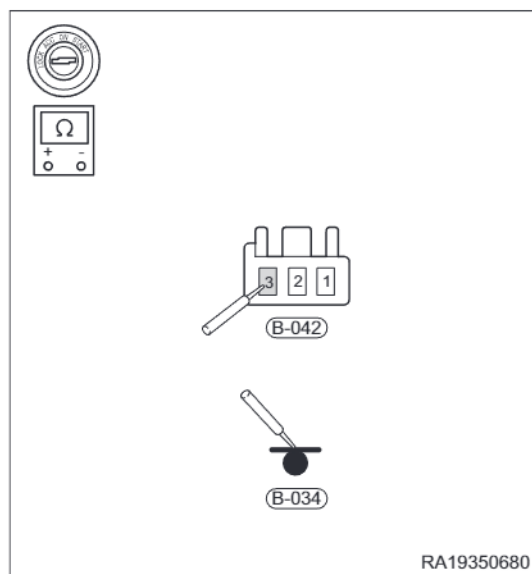


- 35** m. Disconnect the body wire harness connector B-042 and ground B-034.
- n. Using a digital multimeter, check for continuity between body wire harness connector B-042 and ground B-034 according to the value(s) in the table below.

| Multimeter Connection | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| B-042 (3) - B-034     | Always    | Continuity          |

NG

Repair or replace body wire harness and connector



OK

## 4

## Reconfirm DTCs

- Connect all connectors.
- Connect the negative battery cable.
- Turn the ignition switch to ON.
- Use the X-431 3G diagnostic tester (the latest software) to record and clear the DTCs stored in the Body Control Module (BCM).
- Turn the ignition switch to LOCK and wait for a few seconds.
- Turn the ignition switch to ON.
- Use the X-431 3G diagnostic tester (the latest software) to read the DTCs stored in the Body Control Module (BCM) again.

| Result                           | Proceed to |
|----------------------------------|------------|
| B101F-11 and B101F-13 are output | NG         |
| No DTC output                    | OK         |

NG

Replace Body Control Module (BCM)

OK

System is normal

## ON-VEHICLE SERVICE

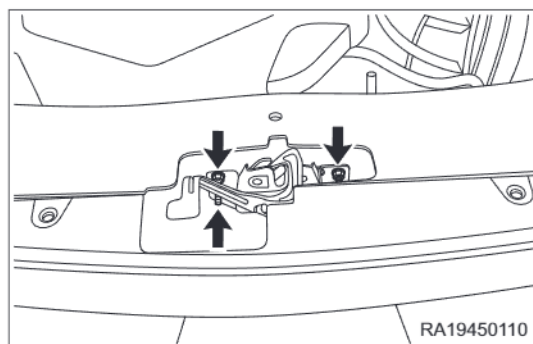
### Engine Hood Lock Assembly

#### Removal

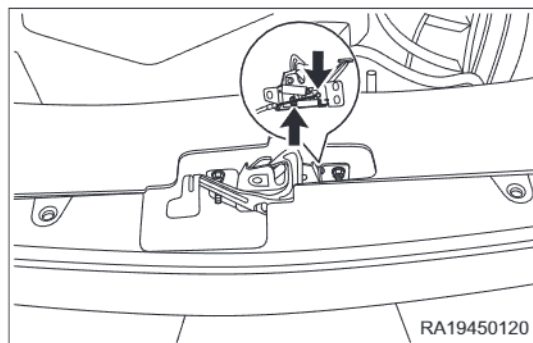
##### CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when removing the engine hood lock assembly.
- Try to prevent the body paint surface from being scratched when removing the engine hood lock assembly.

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the engine hood lock assembly.
  - a. Remove 3 fixing nuts (arrow) from the engine hood lock assembly.  
(Tightening torque:  $7 \pm 1.5 \text{ N}\cdot\text{m}$ )



- b. Disconnect the engine hood cable (arrow) assembly.



- c. Remove the engine hood lock assembly.

#### Installation

Installation is in the reverse order of removal.

##### CAUTION

- Check if the engine hood operates properly after installing the engine hood lock assembly.

## Front Door Lock Assembly

### Removal

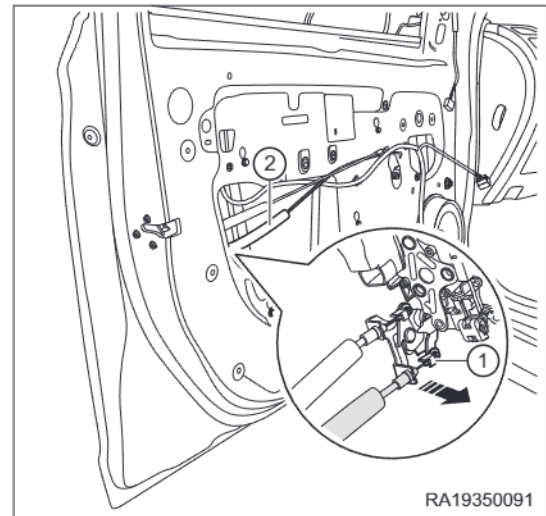
#### HINT:

- Use the same procedures for the right side and left side.
- The procedures listed below are for the left side.

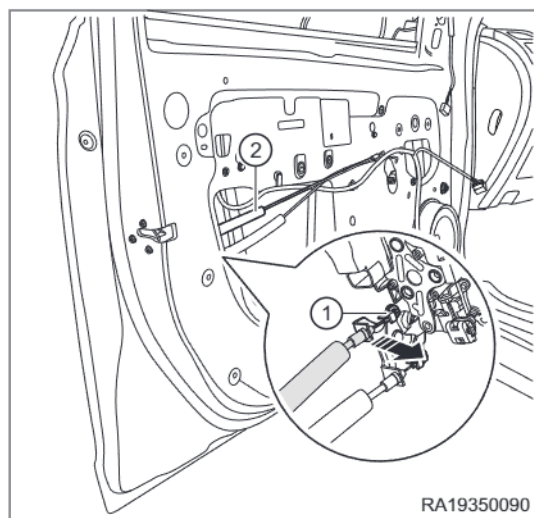
#### CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when removing the front door lock assembly.
- Try to prevent the body paint surface from being scratched when removing the front door lock assembly.

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the front left door inner protector assembly ([See page 45-19](#)).
4. Remove the front left door protector bracket ([See page 45-24](#)).
5. Remove the front left door protective film assembly ([See page 45-24](#)).
6. Remove the front left door lock cable.
  - a. Disengage the front door lock cable from the slot in the direction of arrow as shown in the illustration.
  - b. Disconnect the clip (1) from the front door lock cable and remove the front left door lock cable (2).

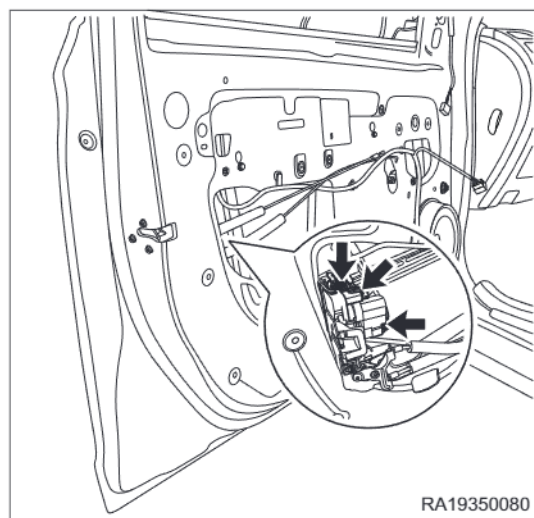


7. Remove the front left door inner open cable.
  - a. Disengage the front door inner open cable from the slot in the direction of arrow as shown in the illustration.
  - b. Disconnect the clip (1) from the front door inner open cable, and remove the front left door inner open cable (2).

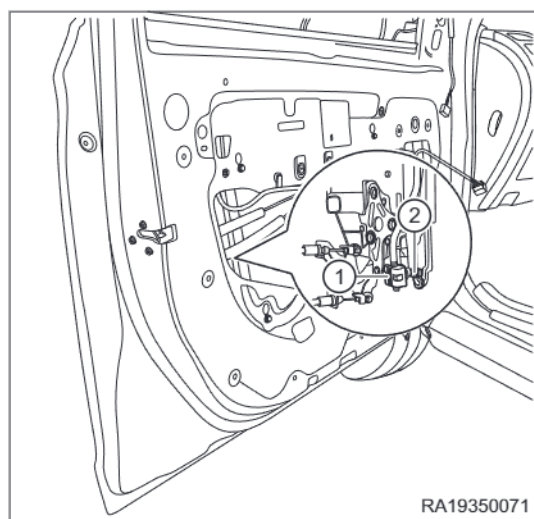


35

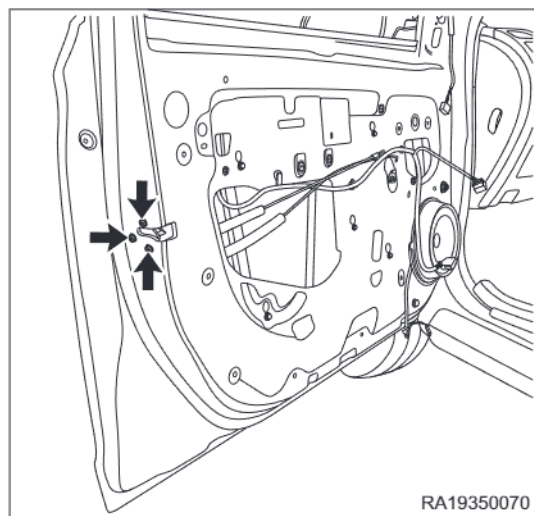
8. Remove the front left door lock assembly.
  - a. Disconnect the connectors (arrow) from the front door lock assembly.



- b. Disconnect the clip (1) from the front door outside lever and the clip (2) from the front door key cylinder lever.



- c. Remove 3 fixing screws (arrow) from the front door lock assembly, and remove the front door lock assembly.  
(Tightening torque:  $7 \pm 1.5 \text{ N}\cdot\text{m}$ )



## Inspection

1. Check the front left door lock assembly (fastener assembly).
  - a. Apply battery voltage to the terminals of front door lock assembly (fastener assembly) connector and check the operation of front door lock assembly according to the table below.

**OK**

| Measurement Condition                                                  | Specified Condition |
|------------------------------------------------------------------------|---------------------|
| Battery positive (+) - Terminal 2<br>Battery negative (-) - Terminal 1 | Lock                |
| Battery positive (+) - Terminal 1<br>Battery negative (-) - Terminal 2 | Unlock              |

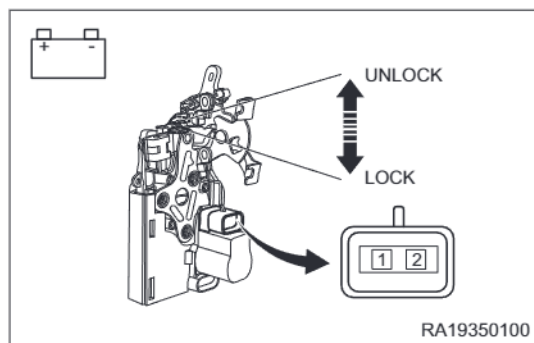
If the result is not as specified, replace the front left door lock assembly.

## Installation

Installation is in the reverse order of removal.

### CAUTION

- Check if the connectors are installed correctly when installing the front door lock assembly.
- Install the clips on the lever in place when installing the front door lock assembly.
- Check if the front door lock operates properly after installing the front door lock assembly.



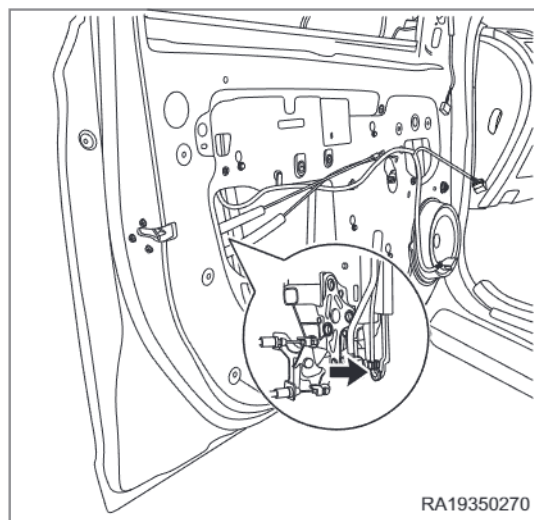
## Front Door Key Cylinder

### Removal

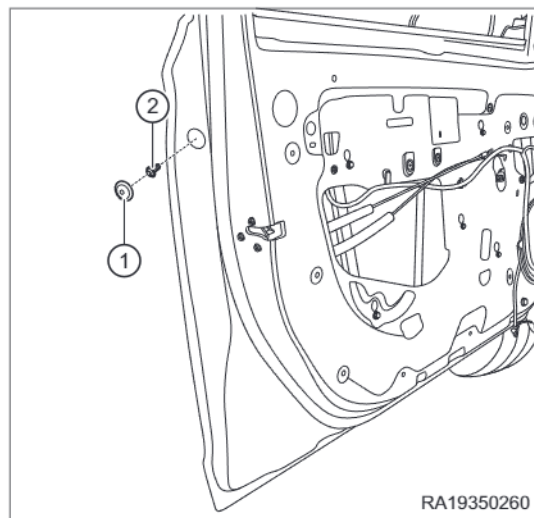
#### CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when removing the front door key cylinder.
- Try to prevent the body paint surface from being scratched when removing the front door key cylinder.

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the front left door inner protector assembly (See page 45-19).
4. Remove the front left door protector bracket (See page 45-24).
5. Remove the front left door protective film assembly (See page 45-24).
6. Remove the front left door key cylinder protective cover.
  - a. Disconnect the clip (arrow) from the front door key cylinder protective cover lever.

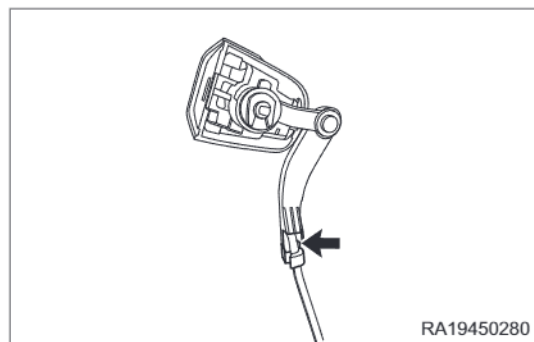


- b. Using a screwdriver wrapped with protective tape, remove the front door key cylinder protective cover block cover (1).
- c. Remove the fixing screw (2) from the front door key cylinder protective cover. (Tightening torque:  $7 \pm 0.7$  N·m)

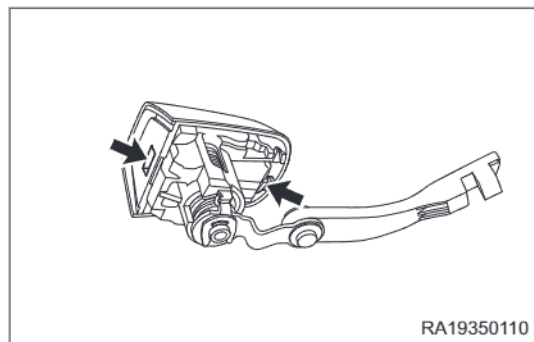


- d. Remove the front door key cylinder protective cover.

7. Remove the front left door key cylinder.
  - a. Disconnect the clip (arrow) from the front door key cylinder protective cover lever.



- b. Using a screwdriver wrapped with protective tape, disengage the clips (arrow) and separate the front door key cylinder protective cover from the front door key cylinder.



35

## Installation

Installation is in the reverse order of removal.

### CAUTION

- Install the clips on the lever in place when installing the front door key cylinder.
- Check if the front door key cylinder operates properly after installing the front door key cylinder.

## Front Door Lock Striker

### Removal

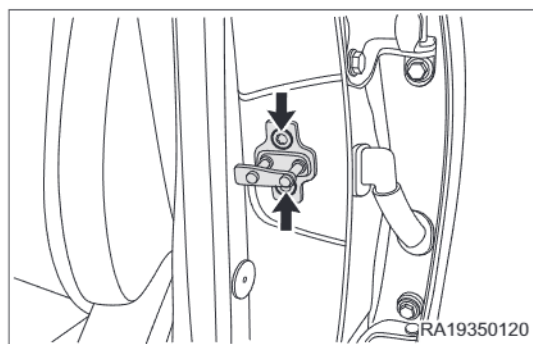
#### HINT:

- Use the same procedures for the right side and left side.
- The procedures listed below are for the left side.

#### CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when removing the front door lock striker.
- Try to prevent the body paint surface from being scratched when removing the front door lock striker.

1. Turn off all the electrical equipment and ignition switch.
2. Remove the front left door lock striker.
  - a. Remove 2 fixing screws (arrow) from the front door lock striker.  
(Tightening torque:  $20 \pm 2 \text{ N}\cdot\text{m}$ )



- b. Remove the front left door lock striker.

### Installation

Installation is in the reverse order of removal.

#### CAUTION

- Try to prevent the body paint surface from being scratched when installing the front door lock striker.

## Rear Door Lock Assembly

### Removal

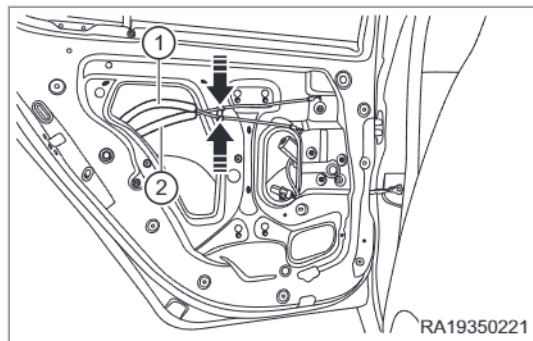
#### HINT:

- Use the same procedures for the right side and left side.
- The procedures listed below are for the left side.

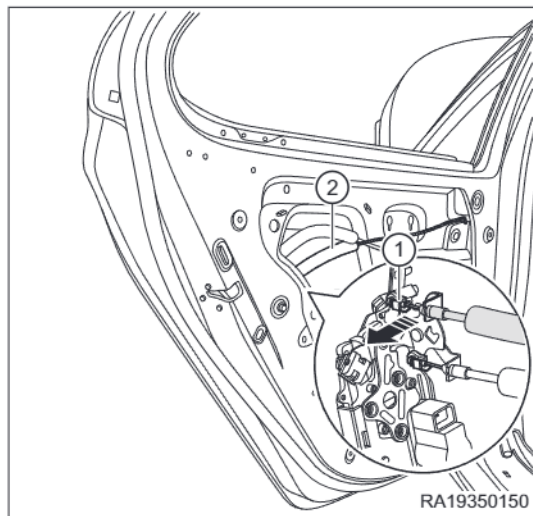
#### CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when removing the rear door lock assembly.
- Try to prevent the body paint surface from being scratched when removing the rear door lock assembly.

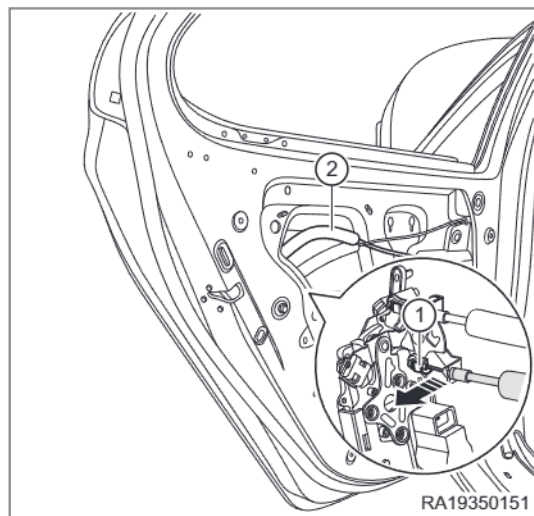
1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the rear left door inner protector assembly (See page 45-34).
4. Remove the rear left door protector bracket. (See page 45-38).
5. Remove the rear left door protective film assembly (See page 45-38).
  - a. Disengage the rear door inner open cable (1) and rear door lock cable (2) from the clips in the direction of arrow as shown in the illustration.



6. Remove the rear left door lock cable.
  - a. Disengage the front door lock cable from the slot in the direction of arrow as shown in the illustration.
  - b. Disconnect the clip (1) from the rear door lock cable, and remove the rear left door lock cable (2).

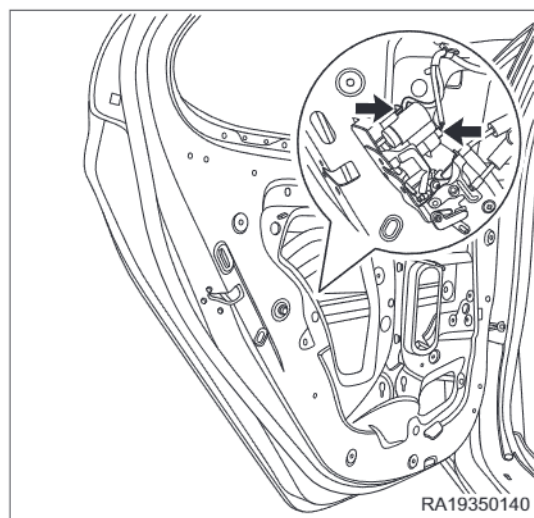


7. Remove the rear left door inner open cable.
  - a. Disengage the rear door inner open cable from the slot in the direction of arrow as shown in the illustration.
  - b. Disconnect the clip (1) from the rear door inner open cable, and remove the rear left door inner open cable (2).

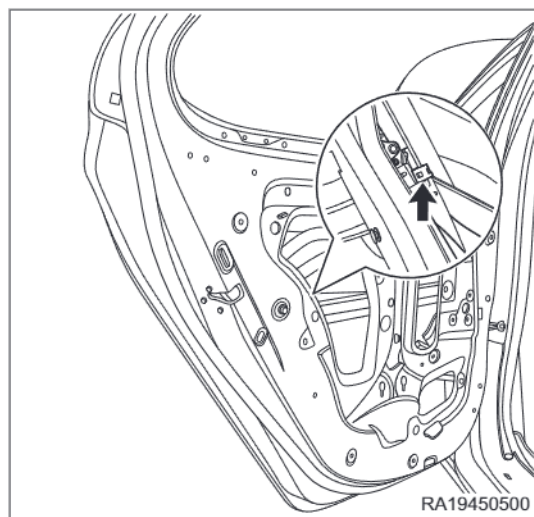


35

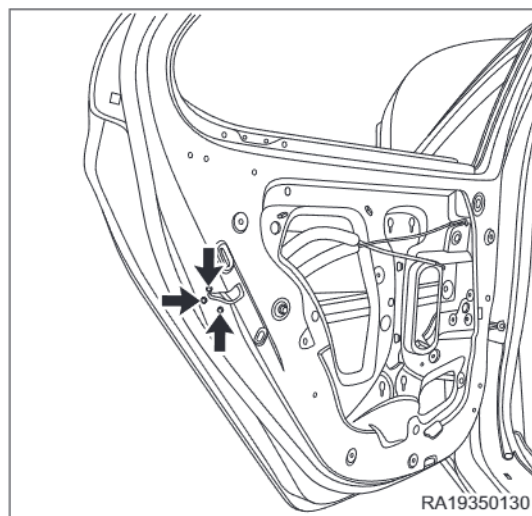
8. Remove the rear left door lock assembly.
  - a. Disconnect the connectors (arrow) from the rear door lock assembly.



- b. Disconnect the clip (arrow) from the rear door outside lever.



- c. Remove 3 fixing screws (arrow) from the rear door lock assembly, and remove the rear door lock assembly.  
(Tightening torque:  $7 \pm 1.5 \text{ N}\cdot\text{m}$ )



## Inspection

1. Check the rear left door lock assembly (fastener assembly).
  - a. Apply battery voltage to the terminals of rear door lock assembly (fastener assembly) connector and check the operation of rear door lock assembly according to the table below.

**OK**

| Measurement Condition                                                  | Specified Condition |
|------------------------------------------------------------------------|---------------------|
| Battery positive (+) - Terminal 2<br>Battery negative (-) - Terminal 1 | Lock                |
| Battery positive (+) - Terminal 1<br>Battery negative (-) - Terminal 2 | Unlock              |

If the result is not as specified, replace the rear left door lock assembly.

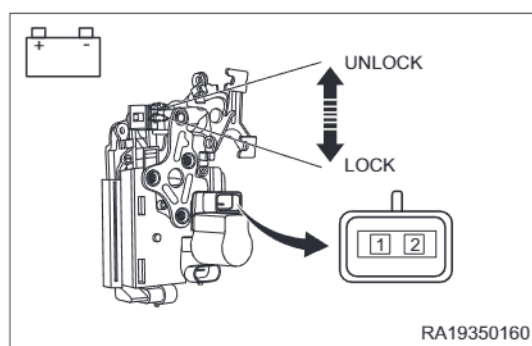
## Installation

Installation is in the reverse order of removal.

### CAUTION

- Check if the connectors are installed correctly when installing the rear door lock assembly.
- Install the clip on the lever in place when installing the rear door lock assembly.
- Check if the rear door lock operates properly after installing the rear door lock assembly.

**35**



## Rear Door Lock Striker

### Removal

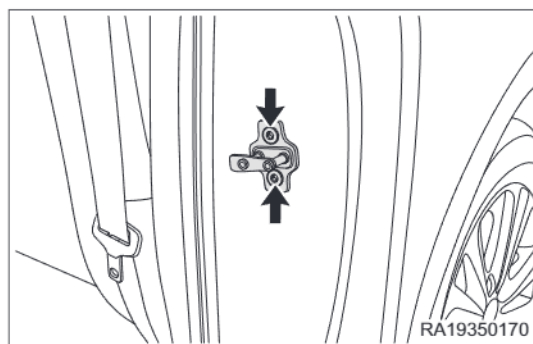
#### HINT:

- Use the same procedures for the right side and left side.
- The procedures listed below are for the left side.

#### CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when removing the rear door lock striker.
- Try to prevent the body paint surface from being scratched when removing the rear door lock striker.

1. Turn off all the electrical equipment and ignition switch.
2. Remove the rear left door lock striker.
  - a. Remove 2 fixing screws (arrow) from the rear door lock striker.  
(Tightening torque:  $20 \pm 2 \text{ N}\cdot\text{m}$ )



- b. Remove the rear left door lock striker.

### Installation

Installation is in the reverse order of removal.

#### CAUTION

- Try to prevent the body paint surface from being scratched when installing the rear door lock striker.

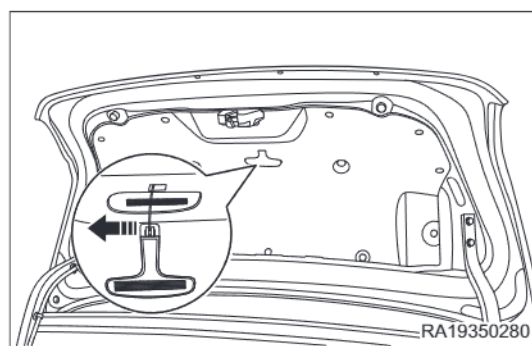
## Luggage Compartment Lock Assembly

### Removal

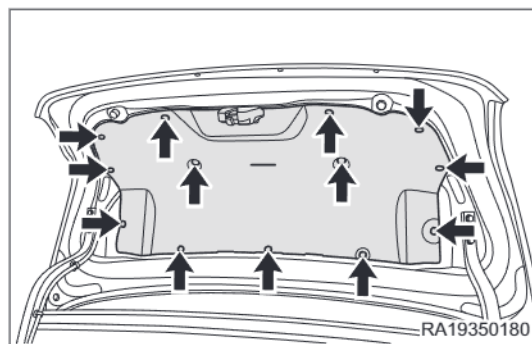
#### CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when removing the luggage compartment lock assembly.
- Try to prevent the body paint surface from being scratched when removing the luggage compartment lock assembly.

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the luggage compartment door opener handle.
  - a. Remove the luggage compartment door opener handle.
  - b. Disconnect the cable in the direction of arrow as shown in the illustration.

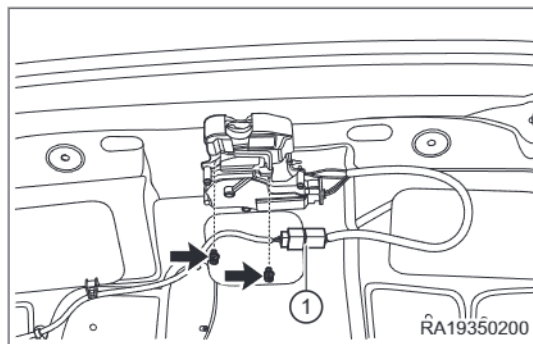
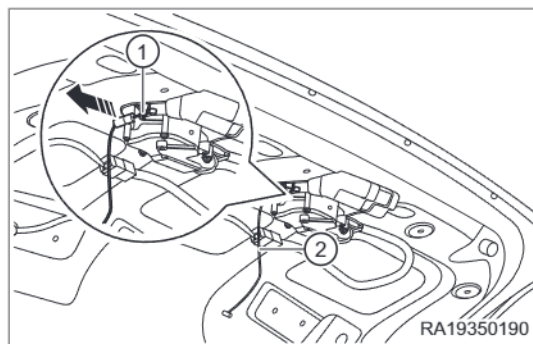


- c. Remove the luggage compartment door opener handle.
4. Remove the luggage compartment door protector assembly.
    - a. Remove the clips (arrow) from the luggage compartment door protector assembly.



- b. Remove the luggage compartment door protector assembly.

5. Remove the luggage compartment lock assembly.
  - a. Disengage the luggage compartment door inner open cable from the slot in the direction of arrow as shown in the illustration.
  - b. Disengage the luggage compartment door inner open cable (1).
  - c. Remove the luggage compartment door inner open cable (2).
  - d. Disconnect the connector (1) from the luggage compartment lock assembly.
  - e. Remove 2 fixing bolts (arrow) from the luggage compartment lock assembly.  
(Tightening torque:  $7 \pm 1.5 \text{ N}\cdot\text{m}$ )



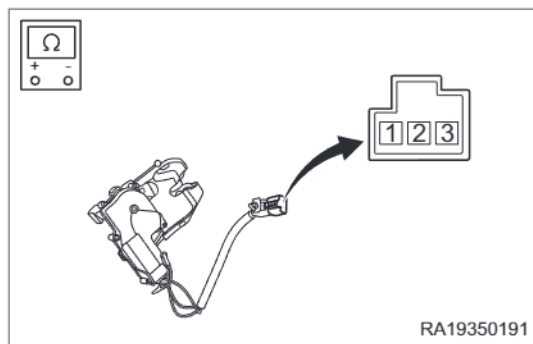
- f. Remove the luggage compartment lock assembly.

## Inspection

1. Check the luggage compartment lock assembly.
  - a. Using a digital multimeter, measure the continuity between each terminal of the luggage compartment lock assembly according to the table below.

| Multimeter Connection | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| 1 - 3                 | On        | Continuity          |
|                       | On        | No continuity       |

If the result is not as specified, replace the left outside rear view mirror assembly.

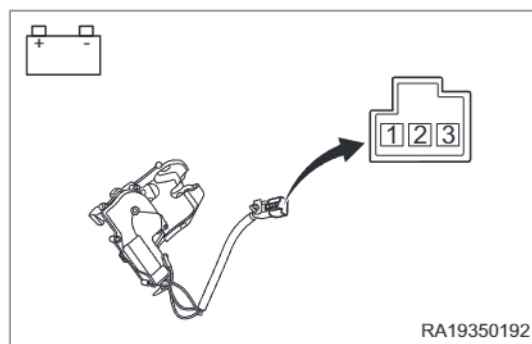


## 2. Check the luggage compartment lock assembly.

- a. Apply battery voltage to the terminals of luggage compartment lock assembly connector and check the operation of luggage compartment lock assembly according to the table below.

OK

| Measurement Condition             | Specified Condition |
|-----------------------------------|---------------------|
| Battery positive (+) - Terminal 2 | On                  |
| Battery negative (-) - Terminal 3 |                     |



## Installation

Installation is in the reverse order of removal.

### CAUTION

- Check if the connectors are installed correctly when installing the luggage compartment lock assembly.
- Install the cable clip in place when installing the luggage compartment lock assembly.
- Check if the luggage compartment lock operates properly after installing the luggage compartment lock assembly.

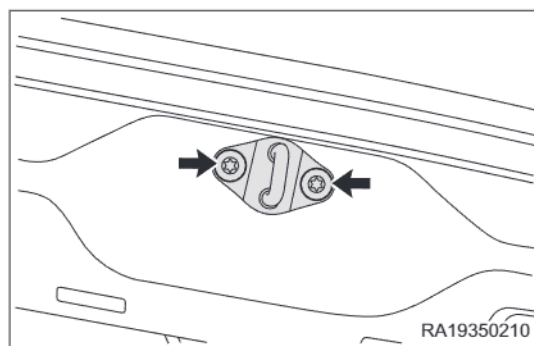
## Luggage Compartment Lock Latch

### Removal

#### CAUTION

- Be sure to wear the necessary safety equipment to prevent accidents when removing the luggage compartment lock latch.
- Try to prevent the body paint surface from being scratched when removing the luggage compartment lock latch.

1. Turn off all the electrical equipment and ignition switch.
2. Remove the rear luggage compartment trim assembly ([See page 47-21](#)).
3. Remove the luggage compartment lock latch.
  - a. Remove 2 fixing screws (arrow) from the luggage compartment lock latch.  
(Tightening torque:  $12 \pm 2 \text{ N}\cdot\text{m}$ )



- b. Remove the luggage compartment lock latch.

### Installation

Installation is in the reverse order of removal.

#### CAUTION

- Try to prevent the body paint surface from being scratched when installing the luggage compartment lock latch.

## Wireless Key

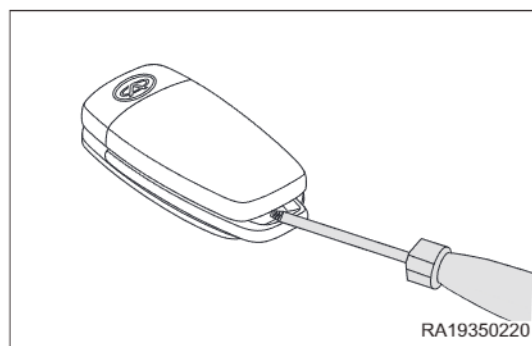
### Removal

#### CAUTION

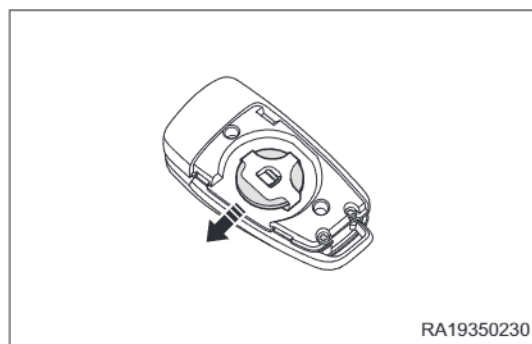
- DO NOT push the terminals with your hands when removing the wireless key cover.
- Install the battery positive and negative correctly when removing the wireless key cover.
- DO NOT pry up the battery forcibly when removing the wireless key cover; otherwise, the terminals may be damaged.
- DO NOT touch the battery with wet hands when removing the wireless key cover; otherwise, the water may cause rust.
- DO NOT touch or move any components inside the transmitter when removing the wireless key cover. Failure to do so may interfere with proper operation.

#### 1. Remove the wireless key.

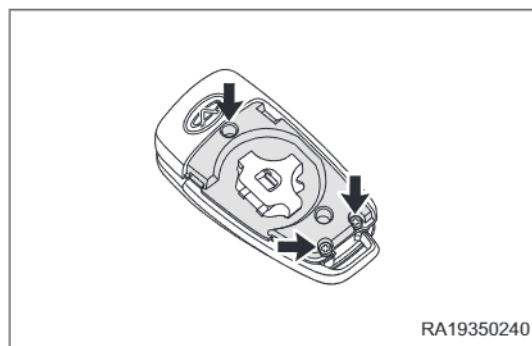
- Using a flat tip screwdriver wrapped with protective tape, pry out the wireless key cover.



- Remove the wireless key battery in the direction of arrow as shown in the illustration.

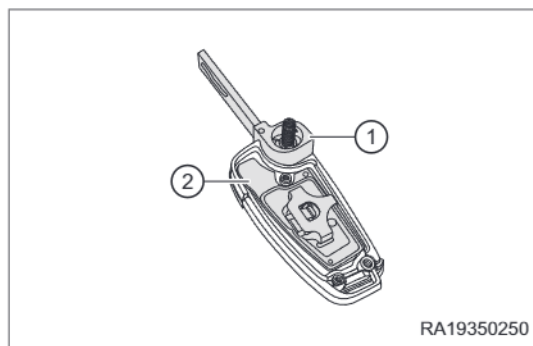


- Remove 3 fixing screws (arrow) from the wireless key upper cover.  
(Tightening torque:  $1.5 \pm 0.5$  N·m)



- Remove the wireless key upper cover.

- e. Remove the wireless key billet (1).
- f. Remove the wireless key chip (2).



## Installation

Installation is in the reverse order of removal.

### CAUTION

- Check that the wireless key operates properly after installing the wireless key.

