

## 3. Keyless Entry System

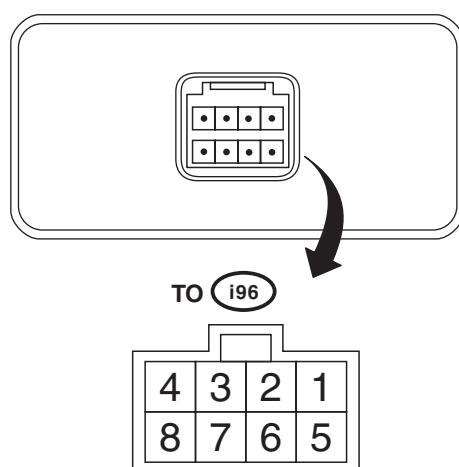
### A: WIRING DIAGRAM

#### 1. KEYLESS ENTRY

<Ref. to WI-150, WIRING DIAGRAM, Keyless Entry System.>

### B: ELECTRICAL SPECIFICATION

#### 1. KEYLESS ENTRY CONTROL MODULE



SL-00946

Description	Terminal No.	Measuring condition
—	1	—
—	2	—
Body integrated unit	3 (OUTPUT)	Battery voltage cannot be measured because of digital signal.
Power supply (Backup)	4	Battery voltage is constantly present.
—	5	—
—	6	—
Ground	7	0 V is constantly present.

### 2. BODY INTEGRATED UNIT

Refer to Control Module I/O Signal in the LAN SYSTEM (DIAGNOSTICS). <Ref. to LAN(diag)-9, ELECTRICAL SPECIFICATION, Control Module I/O Signal.>

### C: INSPECTION

#### 1. SYMPTOM CHART

Symptom	Repair order	Reference
None of the functions of the keyless entry system operate.	<ol style="list-style-type: none"> <li>1. Check the transmitter battery.</li> <li>2. Remove and visually check the fuse No. 3 (in the fuse &amp; relay box) and No. 7 (in the fuse &amp; relay box).</li> <li>3. Check the keyless entry control module.</li> <li>4. Check the power supply and ground circuit for body integrated unit.</li> <li>5. Check the key warning switch.</li> <li>6. Check the door switch.</li> <li>7. Check the body integrated unit.</li> </ol>	<p>&lt;Ref. to SL-15, CHECK TRANSMITTER BATTERY AND FUNCTION, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-16, CHECK BODY INTEGRATED UNIT POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-16, CHECK KEYLESS ENTRY CONTROL MODULE, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-16, CHECK BODY INTEGRATED UNIT POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-18, CHECK KEY WARNING SWITCH, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-17, CHECK DOOR SWITCH, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to LAN(diag)-2, Basic Diagnostic Procedure.&gt;</p>
The transmitter cannot be registered.	<ol style="list-style-type: none"> <li>1. Check the key warning switch.</li> <li>2. Check the door lock switch signal.</li> <li>3. Check the ignition switch.</li> <li>4. Check the door switch.</li> <li>5. Check the body integrated unit.</li> </ol>	<p>&lt;Ref. to SL-18, CHECK KEY WARNING SWITCH, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-21, CHECK DOOR LOCK SWITCH, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-24, CHECK IGNITION SWITCH, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-17, CHECK DOOR SWITCH, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to LAN(diag)-2, Basic Diagnostic Procedure.&gt;</p>
Door lock or unlock does not operate.  NOTE: If the door lock control system does not operate when using the door lock switch, check the door lock control system. <Ref. to SL-8, INSPECTION, Door Lock Control System.>	<ol style="list-style-type: none"> <li>1. Check the transmitter battery.</li> <li>2. Check the keyless entry control module.</li> <li>3. Check the key warning switch.</li> <li>4. Check the door switch.</li> <li>5. Check the body integrated unit.</li> </ol>	<p>&lt;Ref. to SL-15, CHECK TRANSMITTER BATTERY AND FUNCTION, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-16, CHECK KEYLESS ENTRY CONTROL MODULE, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-18, CHECK KEY WARNING SWITCH, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to SL-17, CHECK DOOR SWITCH, INSPECTION, Keyless Entry System.&gt;</p> <p>&lt;Ref. to LAN(diag)-2, Basic Diagnostic Procedure.&gt;</p>

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Symptom	Repair order	Reference
The panic alarm does not operate.	1. Check the keyless transmitter battery and function.	<Ref. to SL-15, CHECK TRANSMITTER BATTERY AND FUNCTION, INSPECTION, Keyless Entry System.>
	2. Check the horn operation.	<Ref. to SL-22, CHECK HORN OPERATION, INSPECTION, Keyless Entry System.>
	3. Check the body integrated unit.	<Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
Buzzer or hazard light does not operate.	1. Check the buzzer operation.	<Ref. to SL-23, CHECK KEYLESS BUZZER, INSPECTION, Keyless Entry System.>
	2. Check the hazard light operation.	<Ref. to SL-19, CHECK HAZARD LIGHT OPERATION, INSPECTION, Keyless Entry System.>
	3. Check the body integrated unit.	<Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
Room light does not operate.	1. Check the room light operation.	<Ref. to SL-19, CHECK ROOM LIGHT OPERATION, INSPECTION, Keyless Entry System.>
	2. Check the body integrated unit.	<Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
Ignition switch illumination does not operate.	1. Check the ignition switch illumination.	<Ref. to SL-22, CHECK IGNITION SWITCH ILLUMINATION, INSPECTION, Keyless Entry System.>
	2. Check the body integrated unit.	<Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

## 2. CHECK TRANSMITTER BATTERY AND FUNCTION

### CAUTION:

Be sure to reset the keyless transmitter of other vehicle which is registered to the inspection target vehicle, and the vehicle to which the keyless transmitter is registered for inspection, to the condition before performing the inspection. (Register the keyless transmitter again.)

Step	Check	Yes	No
1 <b>CHECK TRANSMITTER BATTERY.</b> 1) Remove the battery from the transmitter. <Ref. to SL-52, REMOVAL, Transmitter.> 2) Check the battery voltage. <Ref. to SL-52, INSPECTION, Transmitter.>	Is the voltage 2.5 V or more?	Go to step 2.	Replace the transmitter battery. <Ref. to SL-52, Transmitter.>
2 <b>CHECK KEYLESS TRANSMITTER BATTERY.</b> Register the keyless transmitter which operates normally on other vehicles to the inspection target vehicle. <Ref. to SL-53, REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.> 1) Close all the doors and rear gate of inspection target vehicle. 2) Remove the key from ignition switch. 3) Using the keyless transmitter, lock and unlock the doors and rear gate of vehicle.	Is the inspection target vehicle operates lock and unlock normally?	Go to step 3.	Due to vehicle malfunction, continue the keyless entry system diagnosis.
3 <b>CHECK KEYLESS TRANSMITTER BATTERY.</b> Register the keyless transmitter of inspection target vehicle to the another vehicle which the keyless system operates normally. <Ref. to SL-53, REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.>	Is the keyless transmitter registered correctly?	Go to step 4.	Replace the transmitter. <Ref. to SL-53, REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.>
4 <b>CHECK KEYLESS TRANSMITTER BATTERY.</b> Check the registered keyless transmitter battery. 1) Close all the doors and rear gate of the vehicle which keyless system operates normally. 2) Remove the key from ignition switch. 3) Using the keyless transmitter, lock and unlock the doors and rear gate of vehicle.	Does the vehicle operate lock and unlock normally?	The transmitter is OK.	Replace the transmitter. <Ref. to SL-53, REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.>

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### 3. CHECK KEYLESS ENTRY CONTROL MODULE

Step	Check	Yes	No
<b>1 CHECK DIAGNOSTIC TROUBLE CODE (DTC).</b> 1) Prepare the Subaru Select Monitor kit. 2) Turn the ignition switch to ON (engine OFF) and run the "PC application for Subaru Select Monitor III". 3) On the System Selection Menu, select the {Integ. unit mode}. 4) Select the {Diagnostic Code(s) Display}. 5) Check that the DTC is displayed.	Is DTC B1500 "Keyless UART com. Malfunction" displayed?	Go to step <b>2</b> .	Keyless entry control module is normal.
<b>2 CHECK POWER SUPPLY.</b> 1) Disconnect the keyless entry control module harness connector (i96). 2) Measure the voltage between harness connector terminal and chassis ground. <i>Connector &amp; terminal (i96) No. 4 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step <b>3</b> .	Check the harness for open circuits and shorts between the keyless entry control module and fuse.
<b>3 CHECK GROUND CIRCUIT.</b> Measure the resistance between harness connector terminal and chassis ground. <i>Connector &amp; terminal (i96) No. 7 — Chassis ground:</i>	Is the resistance less than $10\Omega$ ?	Go to step <b>4</b> .	Repair the harness.
<b>4 CHECK KEYLESS ENTRY CONTROL MODULE CIRCUIT.</b> 1) Disconnect the harness connector of body integrated unit (i84). 2) Measure the resistance between harness connector terminals. <i>Connector &amp; terminal (i84) No. 9 — (i96) No. 3:</i>	Is the resistance less than $10\Omega$ ?	Replace the keyless entry control module. <Ref. to SL-49, Keyless Entry Control Module.>	Repair the harness.

### 4. CHECK BODY INTEGRATED UNIT POWER SUPPLY AND GROUND CIRCUIT

Step	Check	Yes	No
<b>1 CHECK POWER SUPPLY OF BODY INTEGRATED UNIT.</b> 1) Disconnect the harness connector of body integrated unit (B280, B281). 2) Measure the voltage between harness connector terminal and chassis ground. <i>Connector &amp; terminal (B280) No. 7 (+) — Chassis ground (-); (B281) No. 2 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step <b>2</b> .	Check the harness for open or short between body integrated unit and fuse.
<b>2 CHECK BODY INTEGRATED UNIT GROUND CIRCUIT.</b> 1) Disconnect the harness connector of body integrated unit (B280, B281). 2) Measure the resistance between harness connector terminal and chassis ground. <i>Connector &amp; terminal (i84) No. 21 — Chassis ground; (B280) No. 22 — Chassis ground; (B281) No. 8 — Chassis ground; (B281) No. 9 — Chassis ground:</i>	Is the resistance less than $10\Omega$ ?	Check the body integrated unit. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>	Repair the harness.

### 5. CHECK DOOR SWITCH

Step	Check	Yes	No
1 <b>CHECK DOOR SWITCH CIRCUIT.</b> Measure the voltage between the body integrated unit harness connector terminal and chassis ground. <i>Connector &amp; terminal</i> <i>Front door RH:</i> <i>(i84) No. 32 (+) — Chassis ground (-):</i> <i>Front door LH:</i> <i>(i84) No. 19 (+) — Chassis ground (-):</i> <i>Rear door RH:</i> <i>(i84) No. 18 (+) — Chassis ground (-):</i> <i>Rear door LH:</i> <i>(i84) No. 31 (+) — Chassis ground (-):</i> <i>Rear gate:</i> <i>(i84) No. 17 (+) — Chassis ground (-):</i>	Is the voltage 0 V when each door or rear gate is opened?	Go to step 2.	Go to step 3.
2 <b>CHECK DOOR SWITCH CIRCUIT.</b> Measure the voltage between the body integrated unit harness connector terminal and chassis ground. <i>Connector &amp; terminal</i> <i>Front door RH:</i> <i>(i84) No. 32 (+) — Chassis ground (-):</i> <i>Front door LH:</i> <i>(i84) No. 19 (+) — Chassis ground (-):</i> <i>Rear door RH:</i> <i>(i84) No. 18 (+) — Chassis ground (-):</i> <i>Rear door LH:</i> <i>(i84) No. 31 (+) — Chassis ground (-):</i> <i>Rear gate:</i> <i>(i84) No. 17 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more when each door or rear gate is closed?	The door switch is OK.	Go to step 3.
3 <b>CHECK DOOR SWITCH.</b> 1) Disconnect the door switch harness connector (R9, R12, R16, R22). 2) Measure the resistance between door switch terminals. <i>Connector &amp; terminal</i> <i>(R12) Front RH door switch:</i> <i>(R9) Front LH door switch:</i> <i>(R16) Rear RH door switch:</i> <i>(R22) Rear LH door switch:</i> <i>No. 1 — No. 3:</i> <i>Rear gate latch switch:</i> <i>(D140) No. 3 — No. 4:</i>	Is the resistance 1 MΩ or more when door switch is pushed?	Go to step 4.	Replace the door switch.
4 <b>CHECK DOOR SWITCH.</b> Measure the resistance between door switch terminals. <i>Connector &amp; terminal</i> <i>(R12) Front RH door switch:</i> <i>(R9) Front LH door switch:</i> <i>(R16) Rear RH door switch:</i> <i>(R22) Rear LH door switch:</i> <i>No. 1 — No. 3:</i> <i>Rear gate latch switch:</i> <i>(D140) No. 3 — No. 4:</i>	Is the resistance less than 1 Ω when door switch is released?	Check the harness for open or short between body integrated unit and door switch.	Replace the door switch.

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### 6. CHECK KEY WARNING SWITCH

Step	Check	Yes	No
<b>1 CHECK FUSE.</b> Remove and visually check the fuse No. 14 (in the main fuse box).	Is the fuse blown out?	Replace the fuse with a new part. Go to step <b>2</b> .	
<b>2 CHECK KEY WARNING SWITCH CIRCUIT.</b> 1) Disconnect the harness connector of body integrated unit (B281). 2) Insert the key into ignition switch. (LOCK position) 3) Measure the voltage between harness connector terminal and chassis ground. <i>Connector &amp; terminal (B281) No. 7 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step <b>3</b> . Go to step <b>4</b> .	
<b>3 CHECK KEY WARNING SWITCH CIRCUIT.</b> 1) Remove the key from ignition switch. 2) Measure the voltage between harness connector terminal and chassis ground. <i>Connector &amp; terminal (B281) No. 7 (+) — Chassis ground (-):</i>	Is the voltage 0 V?	The key warning switch is OK. Go to step <b>4</b> .	
<b>4 CHECK KEY WARNING SWITCH.</b> 1) Disconnect the key warning switch harness connector (B350). 2) Insert the key into ignition switch. (LOCK position) 3) Measure the resistance between key warning switch terminals. <i>Connector &amp; terminal (B350) No. 3 — No. 4:</i>	Is the resistance less than $1\ \Omega$ ?	Go to step <b>5</b> . Replace the key warning switch.	
<b>5 CHECK KEY WARNING SWITCH.</b> 1) Remove the key from ignition switch. 2) Measure the resistance between key warning switch terminals. <i>Connector &amp; terminal (B350) No. 3 — No. 4:</i>	Is the resistance $1\ M\Omega$ or more?	Check the following: • Harness for open circuits and shorts between the key warning switch and fuse • Harness for open or short between the body integrated unit and key warning switch Replace the key warning switch.	

### 7. CHECK ROOM LIGHT OPERATION

Step	Check	Yes	No
1 <b>CHECK ROOM LIGHT OPERATION.</b> Make sure the room light illuminates when the room light switch is turned ON.	Does the room light illuminate?	Go to step 2.	Check the room light circuit.
2 <b>CHECK HARNESS BETWEEN ROOM LIGHT AND BODY INTEGRATED UNIT.</b> 1) Disconnect the body integrated unit harness connector (B280) and room light harness connector (R52). 2) Measure the resistance between the body integrated unit harness connector terminal and room light harness connector terminal.  <i>Connector &amp; terminal</i> (B280) No. 3 — (R52) No. 2:	Is the resistance less than $10\Omega$ ?	The room light operation circuit is OK.	Check the harness for open or short between body integrated unit and room light.

### 8. CHECK HAZARD LIGHT OPERATION

Step	Check	Yes	No
1 <b>CHECK HAZARD LIGHT OPERATION.</b> Make sure the hazard light blinks when hazard switch is turned to ON.	Does the hazard light blink?	Go to step 2.	Check the hazard light circuit.
2 <b>CHECK OUTPUT TO HAZARD LIGHT.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the key warning switch harness connector. 3) Prepare the Subaru Select Monitor kit. 4) Turn the ignition switch to ON (engine OFF), and run the "Application for Subaru Select Monitor III". 5) On the System Selection Menu, select the {Integ. unit mode}. 6) Select {ECM customizing}. 7) Check {Hazard answer-back setup}, and then switch to ON setting if necessary. 8) Select the {Current Data Display & Save}. 9) Remove the key from ignition switch. 10) When operate the LOCK/UNLOCK button of transmitter, check the hazard output signal of body integrated unit.	Is output signal is present when operating the transmitter LOCK/UNLOCK button?	Go to step 3.	Check the body integrated unit. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
3 <b>CHECK CIRCUIT OF HAZARD LIGHT.</b> 1) Disconnect the harness connector of body integrated unit (B280). 2) Disconnect the turn signal and hazard unit harness connector (R32). 3) Measure the resistance between harness connector terminals.  <i>Connector &amp; terminal</i> (B280) No. 12 — (B32) No. 8:	Is the resistance less than $10\Omega$ ?	Check the body integrated unit. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>	Repair the harness.

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### 9. CHECK REAR GATE RELEASE ACTUATOR OPERATION

Step	Check	Yes	No
<b>1</b> <b>CHECK REAR GATE RELEASE ACTUATOR OPERATION.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the key warning switch harness connector. 3) Prepare the Subaru Select Monitor kit. 4) Turn the ignition switch to ON (engine OFF), and run the "Application for Subaru Select Monitor III". 5) On the System Selection Menu, select the {Integ. unit mode}. 6) Select the {Current Data Display & Save}. 7) Check the rear gate release output signal of body integrated unit when operating the LOCK/UNLOCK button of keyless transmitter.	Is output signal is present when operating the transmitter LOCK/UNLOCK button?	Go to step <b>2</b> .	Check the body integrated unit. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
<b>2</b> <b>CHECK CIRCUIT OF REAR GATE RELEASE ACTUATOR.</b> 1) Disconnect the harness connector of body integrated unit (i84). 2) Disconnect the rear gate release actuator harness connector (D140). 3) Measure the resistance between harness connectors. <i>Connector &amp; terminal (i84) No. 22 — (D140) No. 1:</i>	Is the resistance less than $10\Omega$ ?	Go to step <b>3</b> .	Repair the harness.
<b>3</b> <b>CHECK CIRCUIT OF HAZARD LIGHT.</b> 1) Check the ground circuit of rear gate release actuator 2) Disconnect the rear gate release actuator harness connector (D140). 3) Measure the resistance between harness connector terminal and chassis ground. <i>Connector &amp; terminal (D140) No. 2 — Chassis ground:</i>	Is the resistance less than $10\Omega$ ?	Check the rear gate lock actuator. <Ref. to SL-41, INSPECTION, Rear Gate Latch Assembly.>	Repair the harness.

### 10.CHECK DOOR LOCK SWITCH

Step	Check	Yes	No
1 <b>CHECK DOOR LOCK SWITCH.</b> Check the input signal from door lock switch to body integrated unit using Subaru Select Monitor. 1) Prepare the Subaru Select Monitor kit. 2) Turn the ignition switch to ON (engine OFF), and run the "Application for Subaru Select Monitor III". 3) On the System Selection Menu, select the {Integ. unit mode}. 4) Select the {Current Data Display & Save}. 5) Check the input signal to body integrated unit by operating the door lock switch.	Is the normal input signal displayed when the door lock switch is moved to LOCK/UNLOCK?	The door lock switch is OK. Go to step 2.	
2 <b>CHECK DOOR LOCK SWITCH CIRCUIT.</b> 1) Disconnect the harness connector of body integrated unit (i84). 2) Measure the resistance between the harness connector terminal and chassis ground when moving the door lock switch to LOCK. <i>Connector &amp; terminal (i84) No. 15 — Chassis ground:</i>	Is the resistance less than $10\Omega$ ?	Go to step 3. Go to step 4.	
3 <b>CHECK DOOR LOCK SWITCH CIRCUIT.</b> Measure the resistance between the harness connector terminal and chassis ground when the door lock switch is moved to UNLOCK. <i>Connector &amp; terminal (i84) No. 29 — Chassis ground:</i>	Is the resistance less than $10\Omega$ ?	The door lock switch is OK. Go to step 4.	
4 <b>CHECK DOOR LOCK SWITCH.</b> 1) Disconnect the door lock switch harness connector (D7 or D125). 2) Measure the resistance between the door lock switch terminals when moving the door lock switch to LOCK. <i>Connector &amp; terminal Driver's side: (D7) No. 5 — No. 9: Passenger's side: (D125) No. 2 — No. 5:</i>	Is the resistance less than $1\Omega$ ?	Go to step 5. Replace the door lock switch.	
5 <b>CHECK DOOR LOCK SWITCH.</b> Measure the resistance between the door lock switch terminals when moving the door lock switch to UNLOCK. <i>Connector &amp; terminal Driver's side: (D7) No. 5 — No. 8: Passenger's side: (D125) No. 4 — No. 5:</i>	Is the resistance less than $1\Omega$ ?	Check the harness for open circuits or shorts between the body integrated unit and the door lock switch. Replace the door lock switch.	

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### 11.CHECK IGNITION SWITCH ILLUMINATION

Step	Check	Yes	No
<b>1 CHECK FUSE.</b> Remove and visually check the fuse No. 14 (in the main fuse box).	Is the fuse blown out?	Replace the fuse with a new part.	Go to step <b>2</b> .
<b>2 CHECK POWER SUPPLY.</b> 1) Disconnect the ignition switch illumination harness connector (B414). 2) Measure the voltage between harness connector terminal and chassis ground. <i>Connector &amp; terminal (B414) No. 2 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step <b>3</b> .	Check the harness for open circuits and shorts between the ignition switch illumination and fuse.
<b>3 CHECK IGNITION SWITCH ILLUMINATION CIRCUIT.</b> 1) Disconnect the body integrated unit harness connector (B280) and ignition switch light harness connector (B414). 2) Measure the resistance between body integrated unit harness connector terminal and ignition switch illumination harness connector terminal. <i>Connector &amp; terminal (B280) No. 4 — (B414) No. 1:</i>	Is the resistance less than $10\Omega$ ?	Replace the ignition switch illumination bulb with a new part. <Ref. to LI-39, REMOVAL, Ignition Switch Illumination.>	Check the harness for open circuits and shorts between the body integrated unit and ignition switch illumination.

### 12.CHECK HORN OPERATION

Step	Check	Yes	No
<b>1 CHECK HORN OPERATION.</b> Make sure the horn sounds when the horn switch is pushed.	Does the horn sound?	Go to step <b>2</b> .	Check the horn circuit.
<b>2 CHECK HORN OPERATION.</b> 1) Disconnect the harness connector of body integrated unit (B280). 2) Connect the harness connector terminal to ground using a suitable lead wire. <i>Connector &amp; terminal (B280) No. 11 (+) — Chassis ground (-):</i>	Does the horn sound?	Check the body integrated unit. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>	Check the harness for open circuits and/or shorts between the body integrated unit and horn relay.

### 13.CHECK KEYLESS BUZZER

Step	Check	Yes	No
1 <b>CHECK KEYLESS BUZZER OPERATION.</b> Check that the keyless buzzer sounds when LOCK or OPEN button of keyless remote control key is pressed.	Does the keyless buzzer sound?	Keyless buzzer is normal.	Go to step 2.
2 <b>CHECK KEYLESS BUZZER ON/OFF SWITCH.</b>  NOTE: If operations 1-5 are performed with the keyless buzzer OFF, the keyless buzzer will turn ON. 1) Close the driver's side door and remove the key from the ignition key cylinder. 2) Push the door lock switch to the UNLOCK side, and insert the key into the ignition key cylinder. 3) From step 2, pull out ⇔ insert the key 5 times from/to the ignition key cylinder within 10 seconds. 4) From step 3, open → close the driver's side door within 10 seconds. 5) The keyless buzzer sound ON/OFF will switch, and the hazard light will blink 3 times. (If the driver's side door is not open → close within 10 seconds in step 4, the hazard light will blink once and the setting will not be changed.) 6) Check that the keyless buzzer sounds when LOCK or OPEN button of keyless remote control key is pressed.	Does the keyless buzzer sound?	Keyless buzzer is normal.	Go to step 3.
3 <b>CHECK FOR POWER SUPPLY OF KEYLESS BUZZER.</b> 1) Turn the ignition switch to OFF. 2) Disconnect the keyless buzzer harness connector (F102). 3) Press the LOCK/UNLOCK button of the keyless transmitter. 4) Measure the voltage between harness connector terminal and chassis ground.  <i>Connector &amp; terminal</i> <i>(F102) No. 1 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 4.	Check the harness for open circuits and shorts between the keyless buzzer and fuse.
4 <b>CHECK FOR GROUND CIRCUIT OF KEYLESS BUZZER.</b> 1) Disconnect the harness connector of body integrated unit (i84). 2) Measure the resistance between harness connector terminals.  <i>Connector &amp; terminal</i> <i>(i84) No. 6 — (F102) No. 1:</i>	Is the resistance less than 10 $\Omega$ ?	Go to step 5.	Repair the harness.
5 <b>CHECK KEYLESS BUZZER.</b> 1) Remove the keyless buzzer. 2) Install the keyless buzzer to another vehicle which operates keyless buzzer normally, check the buzzer sounds.	Does the keyless buzzer sound?	Check the body integrated unit or door lock switch. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.> <Ref. to GW-8, Power Window Control Switch.>	Replace the keyless buzzer.

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### 14. CHECK IGNITION SWITCH

#### CAUTION:

When the ignition key lock is replaced, all ignition keys also must be registered. (Refer to the "IMMOBILIZER TEACHING OPERATION MANUAL".)

Step	Check	Yes	No
1 <b>CHECK FUSIBLE LINK.</b> Remove the fusible link main SBF and SBF-6 (in main fuse box), and visually check.	Is the fusible link blown out?	Replace the fusible link main SBF or SBF-6. If the replaced fusible link has blown out easily, repair the short circuit between the fusible link and the ignition switch.	Go to step 2.
2 <b>CHECK FOR POWER SUPPLY OF IGNITION SWITCH.</b> 1) Disconnect the ignition switch harness connector (B72). 2) Measure the voltage between harness connector terminal and chassis ground. <i>Connector &amp; terminal (B72) No. 3 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 3.	Check the harness for open circuits and shorts between the ignition switch and fusible link.
3 <b>CHECK IGNITION SWITCH.</b> 1) Insert the ignition key into ignition switch, and turn the each position. 2) Measure the resistance between ignition switch terminals. <i>Connector &amp; terminal No. 3 — No. 4 (ACC position): No. 3 — No. 4 — No. 6 — No. 1 (ON position): No. 3 — No. 6 — No. 1 — No. 2 (ST position):</i>	Is the resistance less than 1 $\Omega$ when turning the ignition key to each position?	Ignition switch is normal.	Replace the ignition switch with a new one. <Ref. to SL-44, REPLACEMENT, Ignition Key Lock.>