3. Keyless Entry System

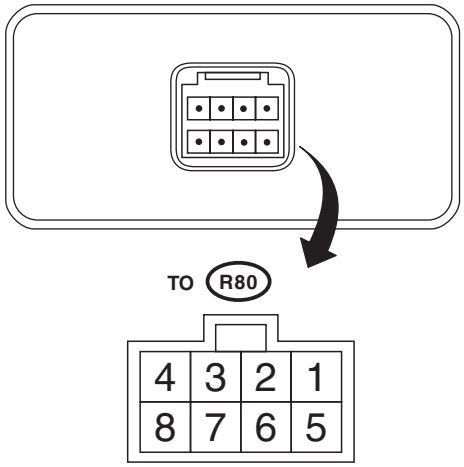
A: WIRING DIAGRAM

Refer to “Keyless Entry System” in WI section. <Ref. to WI-159, WIRING DIAGRAM, Keyless Entry System.>

B: ELECTRICAL SPECIFICATION

1. KEYLESS ENTRY CONTROL MODULE

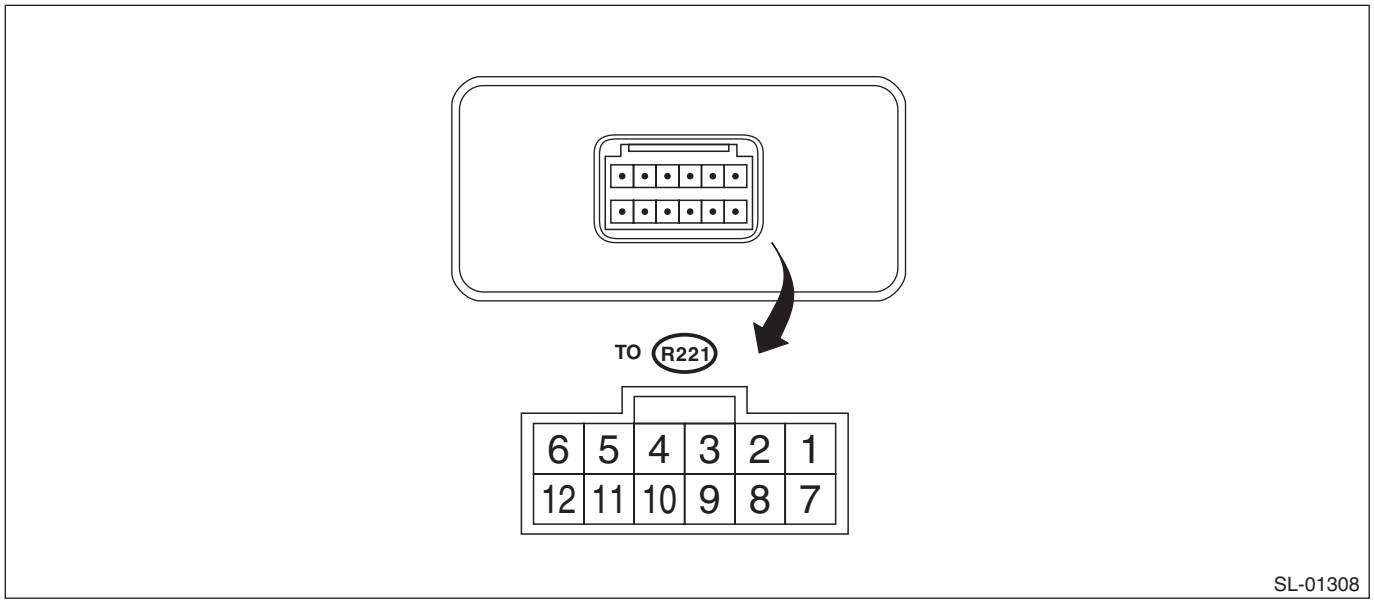
- Model without tire pressure monitoring system



SL-00990

Terminal No.	Item	Measuring condition	Standard
3 (U-ART com.)	—	Cannot be measured	—
4 (+B) ←→ Chassis ground	Voltage	Always	10 — 14 V
7 (GND) ←→ Chassis ground	Resistance	Always	Less than 1 Ω

- Model with tire pressure monitoring system



Terminal No.	Item	Measuring condition	Standard
2 ←→ Chassis ground	Voltage	Tire pressure warning light: Not illuminated → Illuminated	0 V → 10 — 14 V
3 ←→ Chassis ground	Waveform	Speedometer	Pulse generation
4 (IG) ←→ Chassis ground	Voltage	IG OFF → ON	0 V → 10 — 14 V
5 (GND) ←→ Chassis ground	Resistance	Always	Less than 1 Ω
6 (+B) ←→ Chassis ground	Voltage	Always	10 — 14 V
11 (U-ART com.)	—	Cannot be measured	—
12 (SSM communication)	—	Cannot be measured	—

2. BODY INTEGRATED UNIT

Refer to the Control Module I/O Signal of the LAN SYSTEM (DIAGNOSTICS) section. <Ref. to LAN(diag)-10, ELECTRICAL SPECIFICATION, Control Module I/O Signal.>

C: INSPECTION

1. SYMPTOM CHART

Symptoms	Repair order	Reference
None of the functions of the keyless entry system operate.	1. Check the keyless transmitter battery.	<Ref. to SL-17, CHECK KEYLESS TRANSMITTER BATTERY AND FUNCTION, INSPECTION, Keyless Entry System.>
	2. Remove and visually inspect the following fuses. • No. 3 (in fuse & relay box) • No. 7 (in fuse & relay box)	If the fuse is blown out, replace the fuse with a new part. When there is no defective with the fuse, check the power supply and ground circuit. <Ref. to SL-9, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Door Lock Control System.>
	3. Check the keyless entry control module.	<Ref. to SL-18, CHECK KEYLESS ENTRY CONTROL MODULE, INSPECTION, Keyless Entry System.>
	4. Check the power supply and ground circuit for body integrated unit.	<Ref. to SL-18, CHECK BODY INTEGRATED UNIT POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Keyless Entry System.>
	5. Check the key warning switch.	<Ref. to SL-21, CHECK KEY WARNING SWITCH, INSPECTION, Keyless Entry System.>
	6. Check the door switch.	<Ref. to SL-19, CHECK DOOR SWITCH, INSPECTION, Keyless Entry System.>
	7. Check the body integrated unit.	<Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
The keyless transmitter cannot be registered.	1. Check the keyless transmitter battery.	<Ref. to SL-17, CHECK KEYLESS TRANSMITTER BATTERY AND FUNCTION, INSPECTION, Keyless Entry System.>
	2. Check the key warning switch.	<Ref. to SL-21, CHECK KEY WARNING SWITCH, INSPECTION, Keyless Entry System.>
	3. Check the door lock switch signal.	<Ref. to SL-25, CHECK DOOR LOCK SWITCH, INSPECTION, Keyless Entry System.>
	4. Check the body integrated unit.	<Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

Symptoms	Repair order	Reference
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.>	1. Check the keyless transmitter battery.	<Ref. to SL-17, CHECK KEYLESS TRANSMITTER BATTERY AND FUNCTION, INSPECTION, Keyless Entry System.>
	2. Check the keyless entry control module.	<Ref. to SL-18, CHECK KEYLESS ENTRY CONTROL MODULE, INSPECTION, Keyless Entry System.>
	3. Check the key warning switch.	<Ref. to SL-21, CHECK KEY WARNING SWITCH, INSPECTION, Keyless Entry System.>
	4. Check the door switch.	<Ref. to SL-19, CHECK DOOR SWITCH, INSPECTION, Keyless Entry System.>
	5. Check the body integrated unit.	<Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
Trunk lid unlock does not operate. (4 door model)	1. Check the keyless transmitter battery.	<Ref. to SL-17, CHECK KEYLESS TRANSMITTER BATTERY AND FUNCTION, INSPECTION, Keyless Entry System.>
	2. Check the keyless entry control module.	<Ref. to SL-18, CHECK KEYLESS ENTRY CONTROL MODULE, INSPECTION, Keyless Entry System.>
	3. Check the key warning switch.	<Ref. to SL-21, CHECK KEY WARNING SWITCH, INSPECTION, Keyless Entry System.>
	4. Check the trunk lid lock actuator.	<Ref. to SL-23, CHECK TRUNK LID LOCK ACTUATOR, INSPECTION, Keyless Entry System.>
	5. Check the body integrated unit.	<Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>
Buzzer and hazard light do not operate.	1. Check the buzzer operation.	<Ref. to SL-24, CHECK KEYLESS BUZZER, INSPECTION, Keyless Entry System.>
	2. Check the hazard light operation.	<Ref. to SL-22, 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-22, 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-25, CHECK IGNITION SWITCH ILLUMINATION, INSPECTION, Keyless Entry System.>
	2. Check the body integrated unit.	<Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

2. CHECK KEYLESS TRANSMITTER BATTERY AND FUNCTION

CAUTION:
Be sure to reset keyless transmitter of other vehicles registered to the inspection target vehicle, and vehicles to which keyless transmitters were registered for inspection, to the condition before performing the inspection. (Re-register the keyless transmitters.)

	Step	Check	Yes	No
1	**CHECK KEYLESS TRANSMITTER BATTERY.** 1) Remove the battery from the keyless transmitter. <Ref. to SL-49, REMOVAL, Transmitter.> 2) Check the battery voltage. <Ref. to SL-49, INSPECTION, Transmitter.>	Is the voltage 2.5 V or more?	Go to step **2**.	Replace the keyless transmitter battery. <Ref. to SL-49, Transmitter.>
2	**CHECK KEYLESS TRANSMITTER.** Register the keyless transmitter which operates normally on other vehicles to the inspection target vehicle. <Ref. to SL-49, REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.> 1) Close all the doors and rear gate (5 door model) or trunk lid (4 door model) of the inspection target vehicle. 2) Using the keyless transmitter, lock and unlock the doors and rear gate of vehicle. For the 4 door model, unlock the trunk lid.	Can the check vehicle be locked and unlocked properly?	Go to step **3**.	Due to vehicle malfunction, continue the keyless entry system diagnosis.
3	**CHECK KEYLESS TRANSMITTER.** Register the keyless transmitter of the inspected vehicle to another vehicle whose keyless system operates normally. <Ref. to SL-49, REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.>	Is the keyless transmitter registered correctly?	Go to step **4**.	Replace the keyless transmitter. <Ref. to SL-49, REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.>
4	**CHECK KEYLESS TRANSMITTER.** Check the registered keyless transmitter. 1) Close all the doors and rear gate of the vehicle which keyless system operates normally. 2) Using the keyless transmitter, lock and unlock the doors and rear gate of vehicle. For the 4 door model, unlock the trunk lid.	Can lock, unlock of doors and unlock of the trunk lid be performed properly on the vehicle?	Keyless transmitter is OK.	Replace the keyless transmitter. <Ref. to SL-49, REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.>

3. CHECK KEYLESS ENTRY CONTROL MODULE

	Step	Check	Yes	No
1	**CHECK DIAGNOSTIC TROUBLE CODE (DTC).** 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”. 3) On «System Selection Menu» display, select {Integ. unit mode}. 4) Select {Diagnostic Code(s) Display}.	Is DTC B1500 “Keyless UART com. Malfunction” displayed?	Go to step **2**.	Keyless entry control module is normal.
2	**CHECK POWER SUPPLY.** 1) Disconnect the keyless entry control module harness connector. 2) Measure the voltage between harness connector terminal and chassis ground. ***Connector & terminal*** ***Model without tire pressure monitoring system:*** ***(R80) No. 4 (+) — Chassis ground (–):*** ***Model with tire pressure monitoring system:*** ***(R221) No. 6 (+) — Chassis ground (–):***	Is the voltage 10 V or more?	Go to step **3**.	Check the harness for open circuits and shorts between the keyless entry control module and fuse.
3	**CHECK GROUND CIRCUIT.** Measure the resistance between harness connector terminal and chassis ground. ***Connector & terminal*** ***Model without tire pressure monitoring system:*** ***(R80) No. 7 — Chassis ground:*** ***Model with tire pressure monitoring system:*** ***(R221) No. 5 — Chassis ground:***	Is the resistance less than 10 Ω?	Go to step **4**.	Repair or replace the harness.
4	**CHECK KEYLESS ENTRY CONTROL MODULE CIRCUIT.** 1) Disconnect the harness connector of body integrated unit. 2) Measure the resistance between harness connector terminals. ***Connector & terminal*** ***Model without tire pressure monitoring system:*** ***(i84) No. 24 — (R80) No. 3:*** ***Model with tire pressure monitoring system:*** ***(i84) No. 24 — (R221) No. 11:***	Is the resistance less than 10 Ω?	Replace the keyless entry control module. <Ref. to SL-46, Keyless Entry Control Module.>	Repair or replace the harness.

4. CHECK BODY INTEGRATED UNIT POWER SUPPLY AND GROUND CIRCUIT

Refer to the INSPECTION of POWER SUPPLY AND GROUND CIRCUIT of the Door Lock Control System for detailed procedures. <Ref. to SL-9, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Door Lock Control System.>

5. CHECK DOOR SWITCH

	Step	Check	Yes	No
1	**CHECK INPUT CIRCUIT.** 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". 3) On «System Selection Menu» display, select {Integ. unit mode}. 4) Select the {Current Data Display}. 5) Select the {Driver's door SW input}, {P-door SW input}, {Rear right door SW input}, {Rear left door SW input}, and {R Gate SW input}.	Does the display switch between OFF ←→ ON when each door, rear gate or trunk lid is opened/closed?	The door switches, trunk lid latch switch or rear gate latch switch circuit are normal.	Go to step **2**.
2	**CHECK HARNESS.** 1) Disconnect the harness connector of body integrated unit. 2) Disconnect the door switch harness connector that the display does not change. 3) Check the harness between body integrated unit terminal and defective door switch terminal. ***Connector & terminal*** ***Front door RH*** ***(i84) No. 32 — (R12) No. 1:*** ***Front door LH*** ***(i84) No. 19 — (R9) No. 1:*** ***Rear door RH*** ***(i84) No. 6 — (R16) No. 1:*** ***Rear door LH*** ***(i84) No. 20 — (R22) No. 1:*** ***Trunk lid latch switch*** ***(i84) No. 33 — (R186) No. 3:*** ***Rear gate latch switch*** ***(i84) No. 33 — (D46) No. 3:***	Is harness normal?	Go to step **3**.	Repair or replace the harness.
3	**CHECK HARNESS.** Measure the resistance between defective door switch, trunk lid latch switch or rear gate latch switch terminals and chassis ground. ***Connector & terminal*** ***Front door RH*** ***(R12) No. 3 — Chassis ground:*** ***Front door LH*** ***(R9) No. 3 — Chassis ground:*** ***Rear door RH*** ***(R16) No. 3 — Chassis ground:*** ***Rear door LH*** ***(R22) No. 3 — Chassis ground:*** ***Trunk lid latch switch*** ***(R186) No. 1 — Chassis ground:*** ***Rear gate latch switch*** ***(D46) No. 4 — Chassis ground:***	Is the resistance less than 10 Ω?	Go to step **4**.	Repair or replace the harness.

Step		Check	Yes	No
4	**CHECK DOOR SWITCH.** Measure the resistance between terminals of faulty door switch, trunk lid switch or rear gate latch switch. ***Connector & terminal*** ***(R12) Front RH door switch*** ***No. 1 — No. 3:*** ***(R9) Front LH door switch*** ***No. 1 — No. 3:*** ***(R16) Rear RH door switch*** ***No. 1 — No. 3:*** ***(R22) Rear LH door switch*** ***No. 1 — No. 3:*** ***Trunk lid latch switch*** ***(R186) No. 1 — No. 3:*** ***Rear gate latch switch*** ***(D46) No. 3 — No. 4:***	Is the resistance 1 MΩ or more when the door switch is pushed, or the trunk lid or rear gate is closed?	Go to step **5**.	Replace the following parts if defective. • Door switch • Trunk lid latch and actuator ASSY • Rear gate latch and actuator ASSY
5	**CHECK DOOR SWITCH.** Measure the resistance between terminals of faulty door switch, trunk lid switch or rear gate latch switch. ***Connector & terminal*** ***(R12) Front RH door switch*** ***No. 1 — No. 3:*** ***(R9) Front LH door switch*** ***No. 1 — No. 3:*** ***(R16) Rear RH door switch*** ***No. 1 — No. 3:*** ***(R22) Rear LH door switch*** ***No. 1 — No. 3:*** ***Trunk lid switch*** ***(R186) No. 1 — No. 3:*** ***Rear gate latch switch*** ***(D46) No. 3 — No. 4:***	Is the resistance less than 10 Ω when door switch is released, or the trunk lid or rear gate is opened?	Replace the body integrated unit. <Ref. to SL-48, Body Integrated Unit.>	Replace the following parts if defective. • Door switch • Trunk lid latch and actuator ASSY • Rear gate latch and actuator ASSY

6. CHECK KEY WARNING SWITCH

	Step	Check	Yes	No
1	**CHECK KEY WARNING SWITCH.** 1) Prepare the Subaru Select Monitor kit. 2) Run the "PC application for Subaru Select Monitor". 3) On «System Selection Menu» display, select {Integ. unit mode}. 4) Select {Current Data Display & Save}. 5) Select the {key-lock warning SW}.	Is the normal input signal displayed when the key is inserted in/removed from the ignition switch?	The key warning switch is OK.	Go to step **2**.
2	**CHECK FUSE.** Remove and visually check fuse No. 14 (in the main fuse box).	Is the fuse blown out?	Replace the fuse with a new part.	Go to step **3**.
3	**CHECK KEY WARNING SWITCH CIRCUIT.** 1) Disconnect the harness connector of body integrated unit. 2) Insert the key into ignition switch. (LOCK position) 3) Measure the voltage between harness connector terminal and chassis ground. ***Connector & terminal*** ***(B279) No. 2 (+) — Chassis ground (–):***	Is the voltage 9 V or more?	Go to step **4**.	Go to step **5**.
4	**CHECK KEY WARNING SWITCH CIRCUIT.** 1) Remove the key from ignition switch. 2) Measure the voltage between harness connector terminal and chassis ground. ***Connector & terminal*** ***(B279) No. 2 (+) — Chassis ground (–):***	Is the voltage 1.5 V?	Replace the body integrated unit. <Ref. to SL-48, Body Integrated Unit.>	Go to step **5**.
5	**CHECK KEY WARNING SWITCH.** 1) Disconnect the key warning switch harness connector. 2) Insert the key into ignition switch. (LOCK position) 3) Measure the resistance between key warning switch terminals. ***Connector & terminal*** ***(B350) No. 3 — No. 4:***	Is the resistance less than 1 Ω?	Go to step **6**.	Replace the key warning switch.
6	**CHECK KEY WARNING SWITCH.** 1) Remove the key from ignition switch. 2) Measure the resistance between key warning switch terminals. ***Connector & terminal*** ***(B350) No. 3 — No. 4:***	Is the resistance 1 MΩ 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	**CHECK ROOM LIGHT OPERATION.** Make sure the room light illuminates when the room light switch is ON, and goes off when the switch is OFF.	Does the room light illuminate or go off?	Go to step **2**.	Check the room light circuit. <Ref. to LI-34, INSPECTION, Room Light.>
2	**CHECK ROOM LIGHT OPERATION.** 1) Turn the room light switch to the “DOOR” position. 2) Open/close any door (other than trunk).	Does the room light illuminate ←→ go off (including off delay) when the door is opened and closed?	Go to step **3**.	Go to step **4**.
3	**CHECK KEYLESS ENTRY OPERATION.** Press the LOCK/UNLOCK button of the keyless transmitter.	Does it operate properly?	The room light is normal.	Check keyless entry system. <Ref. to SL-15, SYMPTOM CHART, INSPECTION, Keyless Entry System.>
4	**CHECK ROOM LIGHT.** 1) Disconnect the room light connector. 2) Check the room light. <Ref. to LI-34, INSPECTION, Room Light.>	Is room light normal?	Go to step **5**.	Replace the bulb or room light assembly.
5	**CHECK HARNESS.** 1) Disconnect the connector of body integrated unit. 2) Check the harness between body integrated unit connector and room light connector. ***Connector & terminal (B279) No. 5 — (R52) No. 2:***	Is harness normal?	Go to step **6**.	Repair or replace the harness.
6	**CHECK HARNESS.** Measure the voltage between room light harness connector terminal and chassis ground. ***Connector & terminal (R52) No. 3 (+) — Chassis ground (–):***	Is the voltage 10 V or more?	Replace the body integrated unit. <Ref. to SL-48, Body Integrated Unit.>	Repair or replace the harness.

8. CHECK HAZARD LIGHT OPERATION

	Step	Check	Yes	No
1	**CHECK HAZARD LIGHT OPERATION.** 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	**CHECK OUTPUT TO HAZARD LIGHT.** 1) Turn the ignition switch to OFF. 2) Disconnect the connector of key warning switch. 3) Prepare the Subaru Select Monitor kit. 4) Turn the ignition switch to ON (engine OFF) and run the “PC application for Subaru Select Monitor”. 5) On «System Selection Menu» display, select {Integ. unit mode}. 6) Select {Integ. Unit customizing}. 7) Check {Emergency light setup}, and then switch to ON setting if necessary. 8) Select the {Current Data Display & Save}. 9) Select the {Hazard Output}. 10) Remove the key from ignition switch.	Is output signal present when operating the transmitter LOCK/UNLOCK button?	The hazard light operation circuit is OK.	Go to step **3**.

	Step	Check	Yes	No
3	**CHECK HARNESS BETWEEN HAZARD LIGHT AND BODY INTEGRATED UNIT.** 1) Disconnect the body integrated unit connector and turn signal & hazard module connector. 2) Measure the resistance between body integrated unit connector and turn signal & hazard unit connector. ***Connector & terminal*** ***(B281) No. 22 — (B32) No. 8:***	Is the resistance less than 10 Ω?	Check body integrated unit. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>	Repair or replace the harness.

9. CHECK TRUNK LID LOCK ACTUATOR

	Step	Check	Yes	No
1	**CHECK UNLOCK OPERATION OF TRUNK ALONE.** By using the keyless transmitter, perform the UNLOCK operation of trunk alone.	Does answer-back occur?	Go to step **3**.	Go to step **2**.
2	**CHECK KEYLESS ENTRY SYSTEM CIRCUIT.** 1) Remove the keyless entry control module from the vehicle with faults. 2) Install the keyless control module that was removed to the other vehicle which is working normally. 3) Perform the UNLOCK operation by using the keyless transmitter of vehicle with faults.	Does UNLOCK occur?	Check body integrated unit. <Ref. to SL-48, Body Integrated Unit.>	Check the following: • Keyless entry control module • Transmitter
3	**CHECK HARNESS.** 1) Disconnect the body integrated unit connector and trunk lid lock actuator connector. 2) Check the harness between body integrated unit connector and trunk lid lock actuator connector. ***Connector & terminal*** ***(i84) No. 22 — (R186) No. 2:***	Is harness normal?	Go to step **4**.	Repair or replace the harness.
4	**CHECK HARNESS.** Measure the resistance between the trunk lid lock actuator connector and chassis ground. ***Connector & terminal*** ***(R186) No. 1 — Chassis ground:***	Is the resistance less than 10 Ω?	Go to step **5**.	Repair or replace the harness.
5	**CHECK TRUNK LID LOCK ACTUATOR.** Check the trunk lid lock actuator. <Ref. to SL-38, Trunk Lid Latch and Actuator Assembly.>	Is trunk lid lock actuator normal?	Replace the body integrated unit. <Ref. to SL-48, Body Integrated Unit.>	Replace the trunk lid latch & actuator assembly.

10.CHECK KEYLESS BUZZER

	Step	Check	Yes	No
1	**CHECK FUNCTION.** Using the Subaru Select Monitor, check {Buzzer beeping setup}. <Ref. to LAN(diag)-19, CONFIRM CURRENT SETTING, OPERATION, Subaru Select Monitor.>	Is it ON?	Go to step **2**.	Change the setting to ON. <Ref. to LAN(diag)-23, USER CUSTOMIZING, OPERATION, Subaru Select Monitor.>
2	**CHECK OUTPUT TO KEYLESS BUZZER.** 1) Remove the key from ignition switch. 2) Display the {Keyless Buzzer Output} of the body integrated unit using the Subaru Select Monitor. <Ref. to LAN(diag)-13, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.> 3) Press the LOCK/UNLOCK button of the keyless transmitter. NOTE: Due to the screen refresh timing of the Subaru Select Monitor, repeat the operation a few times to confirm, as there may be no change of OFF → ON at first.	Does display change from OFF → ON?	Go to step **3**.	Replace the body integrated unit. <Ref. to SL-48, Body Integrated Unit.>
3	**CHECK KEYLESS BUZZER.** 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?	Go to step **4**.	Replace the keyless buzzer.
4	**CHECK HARNESS.** 1) Disconnect the harness connector of body integrated unit. 2) Disconnect the keyless buzzer harness connector. 3) Measure the resistance between harness connector terminals. ***Connector & terminal*** ***(B279) No. 24 — (B164) No. 1:***	Is the resistance less than 10 Ω?	Go to step **5**.	Repair or replace the harness.
5	**CHECK HARNESS.** Measure the resistance between the keyless buzzer harness connector and chassis ground. ***Connector & terminal*** ***(B164) No. 2 — Chassis ground:***	Is the resistance less than 10 Ω?	Replace the body integrated unit. <Ref. to SL-48, Body Integrated Unit.>	Repair or replace the harness.

11.CHECK DOOR LOCK ACTUATOR AND CIRCUIT

For diagnostic procedures, refer to the INSPECTION of DOOR LOCK ACTUATOR & CIRCUIT of the Door Lock Control System. <Ref. to SL-11, CHECK DOOR LOCK ACTUATOR AND CIRCUIT, INSPECTION, Door Lock Control System.>

12.CHECK DOOR LOCK SWITCH

For operation procedure, refer to the door lock switch inspection of the door lock control system. <Ref. to SL-9, CHECK DOOR LOCK SWITCH, INSPECTION, Door Lock Control System.>

13.CHECK IGNITION SWITCH ILLUMINATION

	Step	Check	Yes	No
1	**CHECK IGNITION CIRCUIT.** Check the ignition circuit.	Is the circuit normal?	Go to step **2**.	Repair or replace.
2	**CHECK DOOR SWITCH CIRCUIT.** Inspect door switch circuit.	Is the circuit normal?	Go to step **3**.	Repair or replace.
3	**CHECK FUSE.** Remove and visually check fuse No. 14 (in the main fuse box).	Is the fuse blown out?	Replace the fuse with a new part.	Go to step **4**.
4	**CHECK HARNESS.** 1) Disconnect the ignition switch illumination harness connector. 2) Measure the voltage between harness connector terminal and chassis ground. ***Connector & terminal*** ***(B224) No. 2 (+) — Chassis ground (–):***	Is the voltage 10 V or more?	Go to step **5**.	Check the harness for open or short circuits between the ignition switch illumination and fuse.
5	**CHECK IGNITION SWITCH ILLUMINATION CIRCUIT.** 1) Disconnect the body integrated unit connector. 2) Check the harness between body integrated unit connector and ignition switch illumination connector. ***Connector & terminal*** ***(B281) No. 23 — (B224) No. 1:***	Is harness normal?	Go to step **6**.	Check the harness for open circuits and shorts between the body integrated unit and ignition switch illumination.
6	**CHECK IGNITION SWITCH ILLUMINATION BULB.** Apply battery voltage to the bulb.	Does the bulb illuminate?	Replace the body integrated unit. <Ref. to SL-48, Body Integrated Unit.>	Replace the ignition switch illumination bulb. <Ref. to LI-37, REMOVAL, Ignition Switch Illumination.>