3. Keyless Entry System

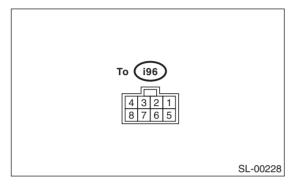
A: WIRING DIAGRAM

1. KEYLESS ENTRY

<Ref. to WI-166, WIRING DIAGRAM, Keyless Entry System.>

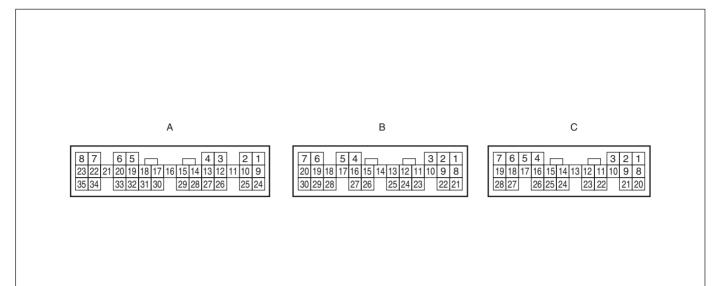
B: ELECTRICAL SPECIFICATION

1. KEYLESS ENTRY CONTROL MODULE



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

2. BODY INTEGRATED UNIT



Remarks	Terminal No.	Measuring condition
Ignition switch (ON)	A1 (INPUT)	Battery voltage is present when ignition switch is turned to ON.
Keyless buzzer	A6 (INPUT)	0 V is present when pressing the LOCK or UNLOCK button of transmitter.
Driver's side front door lock actuator	A7 (OUTPUT)	Battery voltage is present when pressing the transmitter LOCK button.
Door and rear gate lock actuator	A8 (OUTPUT)	Battery voltage is present when pressing the transmitter UNLOCK button.
Keyless entry control module	A9 (INPUT)	Communication line (Cannot be measured because of digital signal)
Trunk lid switch or rear gate latch switch	A17 (INPUT)	0 V is present when opening the trunk lid or rear gate.
Rear door switch RH	A18 (INPUT)	0 V is present when opening the rear door RH.
Front door switch RH	A19 (INPUT)	0 V is present when opening the front door RH.
Ground	A21	0 V is constantly present.
Trunk lid actuator	A22 (OUTPUT)	Battery voltage is present when pressing the TRUNK button of the trans- mitter.
Driver's side front door lock actuator	A23 (OUTPUT)	Battery voltage is present when pressing the transmitter UNLOCK button.
Driver's side power window main	A15	0 V is present when pressing the door lock switch to the LOCK side.
switch (door lock switch) Passenger's side door lock switch	A29	0 V is present when pressing the door lock switch to the UNLOCK side.
Rear door switch LH	A31 (INPUT)	0 V is present when opening the rear door LH.
Front door switch LH	A32 (INPUT)	0 V is present when opening the front door LH.
Power supply	A34	Battery voltage is constantly present.
Room light	B3 (INPUT)	• 0 V is present when pressing the UNLOCK button of keyless transmitter.
		 0 V is present when opening the door.
Power supply	B7	Battery voltage is constantly present.
Horn circuit	B11 (INPUT)	0 V is present when pressing the panic button of transmitter
Turn signal & hazard circuit	B12 (OUTPUT)	0 V is present when pressing the LOCK or UNLOCK button of transmitter.
Ground	B22	0 V is constantly present.
Power supply	C1	Battery voltage is constantly present.
Power supply	C2	Battery voltage is constantly present.
Key warning switch	C7 (INPUT)	Battery voltage is present when inserting the key into ignition switch.
Ground	C8	0 V is constantly present.
Ground	C9	0 V is constantly present.

C: INSPECTION

1. SYMPTOM CHART

Symptom	Repair order	Reference
None of the functions of the keyless entry system operate.	1. Check the transmitter battery.	<ref. check="" keyless<br="" sl-14,="" to="">TRANSMITTER BATTERY AND FUNC- TION, INSPECTION, Keyless Entry Sys- tem.></ref.>
	2. Check the fuse.	<ref. check="" fuse,="" inspec-<br="" sl-15,="" to="">TION, Keyless Entry System.></ref.>
	3. Check the keyless entry control module.	<ref. check="" entry<br="" keyless="" sl-15,="" to="">CONTROL MODULE, INSPECTION, Key- less Entry System.></ref.>
	4. Check the power supply and ground cir- cuit for body integrated unit.	<ref. body="" check="" inte-<br="" sl-16,="" to="">GRATED UNIT POWER SUPPLY AND GROUND CIRCUIT., INSPECTION, Key- less Entry System.></ref.>
	5. Check the key warning switch.	<ref. check="" key="" sl-18,="" to="" warning<br="">SWITCH, INSPECTION, Keyless Entry System.></ref.>
	6. Check the door switch.	<ref. check="" door="" sl-17,="" switch,<br="" to="">INSPECTION, Keyless Entry System.></ref.>
	7. Check the body integrated unit.	<ref. basic="" diagnostic<br="" lan(diag)-2,="" to="">Procedure.></ref.>
The keyless transmitter cannot be registered.	1. Check the key warning switch.	<ref. check="" key="" sl-18,="" to="" warning<br="">SWITCH, INSPECTION, Keyless Entry System.></ref.>
	2. Check the door lock switch signal.	<ref. check="" door="" lock<br="" sl-21,="" to="">SWITCH., INSPECTION, Keyless Entry System.></ref.>
	3. Check the ignition switch.	<ref. check="" ignition<br="" sl-24,="" to="">SWITCH., INSPECTION, Keyless Entry System.></ref.>
	4. Check the door switch.	<ref. check="" door="" sl-17,="" switch,<br="" to="">INSPECTION, Keyless Entry System.></ref.>
	5. Check the body integrated unit.	<ref. basic="" diagnostic<br="" lan(diag)-2,="" to="">Procedure.></ref.>
Door lock or unlock does not operate. NOTE: If the door lock control system does not operate when using the door lock	1. Check the transmitter battery.	<ref. check="" keyless<br="" sl-14,="" to="">TRANSMITTER BATTERY AND FUNC- TION, INSPECTION, Keyless Entry Sys- tem.></ref.>
switch, check the door lock control system. <ref. inspection,<br="" sl-7,="" to="">Door Lock Control System.></ref.>	2. Check the keyless entry control module.	<ref. check="" entry<br="" keyless="" sl-15,="" to="">CONTROL MODULE, INSPECTION, Key- less Entry System.></ref.>
	3. Check the key warning switch.	<ref. check="" key="" sl-18,="" to="" warning<br="">SWITCH, INSPECTION, Keyless Entry System.></ref.>
	4. Check the door switch.	<ref. check="" door="" sl-17,="" switch,<br="" to="">INSPECTION, Keyless Entry System.></ref.>
	5. Check the body integrated unit.	<ref. basic="" diagnostic<br="" lan(diag)-2,="" to="">Procedure.></ref.>

Keyless Entry System

Symptom	Repair order	Reference
The panic alarm does not operate.	1. Check the keyless transmitter battery and function.	<ref. check="" keyless<br="" sl-14,="" to="">TRANSMITTER BATTERY AND FUNC- TION, INSPECTION, Keyless Entry Sys- tem.></ref.>
	2. Check the horn operation.	<ref. check="" horn="" opera-<br="" sl-22,="" to="">TION., INSPECTION, Keyless Entry Sys- tem.></ref.>
	3. Check the body integrated unit.	<ref. basic="" diagnostic<br="" lan(diag)-2,="" to="">Procedure.></ref.>
Trunk lid unlock does not operate. (Sedan model)	1. Check the transmitter battery.	<ref. check="" keyless<br="" sl-14,="" to="">TRANSMITTER BATTERY AND FUNC- TION, INSPECTION, Keyless Entry Sys- tem.></ref.>
	2. Check the keyless entry control module.	<ref. check="" entry<br="" keyless="" sl-15,="" to="">CONTROL MODULE, INSPECTION, Key- less Entry System.></ref.>
	3. Check the key warning switch.	<ref. check="" key="" sl-18,="" to="" warning<br="">SWITCH, INSPECTION, Keyless Entry System.></ref.>
	4. Check the trunk lid lock actuator.	<ref. check="" lid="" lock<br="" sl-20,="" to="" trunk="">ACTUATOR, INSPECTION, Keyless Entry System.></ref.>
	5. Check the body integrated unit.	<ref. basic="" diagnostic<br="" lan(diag)-2,="" to="">Procedure.></ref.>
Buzzer and hazard light do not oper- ate.	1. Check the buzzer operation.	<ref. check="" keyless<br="" sl-23,="" to="">BUZZER, INSPECTION, Keyless Entry System.></ref.>
	2. Check the hazard light operation.	<ref. check="" hazard="" light<br="" sl-19,="" to="">OPERATION, INSPECTION, Keyless Entry System.></ref.>
	3. Check the body integrated unit.	<ref. basic="" diagnostic<br="" lan(diag)-2,="" to="">Procedure.></ref.>
Room light does not operate.	1. Check the room light operation.	<ref. check="" light<br="" room="" sl-18,="" to="">OPERATION, INSPECTION, Keyless Entry System.></ref.>
	2. Check the body integrated unit.	<ref. basic="" diagnostic<br="" lan(diag)-2,="" to="">Procedure.></ref.>
Ignition switch illumination does not operate.	1. Check the ignition switch illumination.	<ref. check="" ignition<br="" sl-22,="" to="">SWITCH ILLUMINATION, INSPECTION, Keyless Entry System.></ref.>
	2. Check the body integrated unit.	<ref. basic="" diagnostic<br="" lan(diag)-2,="" to="">Procedure.></ref.>

2. CHECK KEYLESS TRANSMITTER BATTERY AND FUNCTION

	Step	Check	Yes	No
1	 CHECK KEYLESS TRANSMITTER BAT- TERY. 1) Remove the battery from the transmitter. <ref. removal,="" sl-56,="" to="" transmitter.=""></ref.> 2) Check the battery voltage. <ref. sl-56,<br="" to="">INSPECTION, Transmitter.></ref.> 	Is the voltage more than 2.5 V?	Go to step 2.	Replace the trans- mitter battery. <ref. sl-56,<br="" to="">Transmitter.></ref.>
2	 CHECK KEYLESS TRANSMITTER. Register the keyless transmitter which operates normally on other vehicles to the inspection target vehicle. <ref. li="" sl-56,<="" to=""> REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.> 1) Close all the doors and rear gate of inspection target vehicle. 2) Using the keyless transmitter, lock and unlock the doors and rear gate of vehicle. </ref.>	Is the inspection target vehicle operates lock and unlock nor- mally?	Go to step 3.	Due to vehicle malfunction, con- tinue the keyless entry system diag- nosis.
3	CHECK KEYLESS TRANSMITTER. Register the keyless transmitter of inspection target vehicle to the another vehicle which the keyless system operates normally. <ref. sl-<br="" to="">56, REGISTRATION OF KEYLESS TRANS- MITTER WITH SUBARU SELECT MONITOR, REPLACEMENT, Transmitter.></ref.>	Is the keyless transmitter regis- tered correctly?	Go to step 4.	Replace the key- less transmitter. <ref. sl-56,<br="" to="">REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONI- TOR, REPLACE- MENT, Transmitter.></ref.>
4	 CHECK KEYLESS TRANSMITTER. Check the registered keyless transmitter. 1) Close all the doors and rear gate of the vehicle which operates keyless system normally. 2) Using the keyless transmitter, lock and unlock the doors and rear gate of vehicle. 	Does the vehicle operates lock and unlock normally?	The keyless trans- mitter is OK.	Replace the key- less transmitter. <ref. sl-56,<br="" to="">REGISTRATION OF KEYLESS TRANSMITTER WITH SUBARU SELECT MONI- TOR, REPLACE- MENT, Transmitter.></ref.>

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.)

3. CHECK FUSE

	Step	Check	Yes	No
1	CHECK FUSE. Remove and visually check the fuse No. 3 (in the fuse & relay box) and No. 7 (in the fuse & relay box).	Is the fuse blown out?	Replace the fuse with a new part.	Check the power supply and ground circuit. <ref. to<br="">SL-16, CHECK BODY INTE- GRATED UNIT POWER SUPPLY AND GROUND CIRCUIT., INSPECTION, Keyless Entry Sys- tem.></ref.>

4. CHECK KEYLESS ENTRY CONTROL MODULE

	Step	Check	Yes	No
1	 CHECK DIAGNOSTIC TROUBLE CODE (DTC). 1) Connect the Subaru Select Monitor to the data link connector. 2) Turn the ignition switch to ON. 3) Select {Integ. unit} from main menu. 4) Select the {Diagnostic Trouble Code}. 5) Check that the DTC is displayed. 	Is DTC B0500 "Keyless UART com. Malfunction" displayed?	Go to step 2.	Keyless entry con- trol module is nor- mal.
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 (i96) No. 4 (+) — Chassis ground (-): 	Is the voltage more than 10 V?	Go to step 3 .	Check the harness for open circuits and shorts between the key- less entry control module and fuse.
3	CHECK GROUND CIRCUIT. Measure the resistance between harness con- nector terminal and chassis ground. Connector & terminal (i96) No. 7 — Chassis ground:	Is the resistance less than 10 Ω ?	Go to step 4.	Repair the har- ness.
4	 CHECK KEYLESS ENTRY CONTROL MOD- ULE CIRCUIT. 1) Disconnect the harness connector of body integrated unit. 2) Measure the resistance between harness connector terminals. Connector & terminal (i84) No. 9 — (i96) No. 3: 	Is the resistance less than 10 Ω?	Replace the key- less entry control module. <ref. to<br="">SL-53, Keyless Entry Control Mod- ule.></ref.>	Repair the har- ness.

5. CHECK BODY INTEGRATED UNIT POWER SUPPLY AND GROUND CIRCUIT.

	Step	Check	Yes	No
1	 CHECK POWER SUPPLY OF BODY INTE- GRATED UNIT. 1) Disconnect the harness connector of body integrated unit. 2) Measure the voltage between harness con- nector terminal and chassis ground. Connector & terminal (B280) No. 7 (+) — Chassis ground (-): (B281) No. 2 (+) — Chassis ground (-): 	Is the voltage more than 10 V?	Go to step 2.	Check the harness for open or short between body inte- grated unit and fuse.
2	 CHECK BODY INTEGRATED UNIT GROUND CIRCUIT. 1) Disconnect the harness connector of body integrated unit. 2) Measure the resistance between harness connector terminal and chassis ground. Connector & terminal (B280) No. 22 — Chassis ground: (B281) No. 8 — Chassis ground: (B281) No. 9 — Chassis ground: 	Is the resistance less than 10 Ω ?	Check the body integrated unit. <ref. to<br="">LAN(diag)-2, Basic Diagnostic Proce- dure.></ref.>	Repair the har- ness.

6. CHECK DOOR SWITCH

	Step	Check	Yes	No
1	CHECK DOOR SWITCH CIRCUIT.	Is the voltage 0 V when each	Go to step 2.	Go to step 3.
-	Measure the voltage between the body inte-	door or rear gate is opened?		
	grated unit harness connector terminal and	g		
	chassis ground.			
	Connector & terminal			
	Front door RH:			
	(i84) No. 32 (+) — Chassis ground (–):			
	Front door LH:			
	(i84) No. 19 (+) — Chassis ground (–):			
	Rear door RH:			
	(i84) No. 18 (+) — Chassis ground (–):			
	Rear door LH:			
	(i84) No. 31 (+) — Chassis ground (–):			
	Rear gate:			
	(i84) No. 17 (+) — Chassis ground (–):			
2	CHECK DOOR SWITCH CIRCUIT.	Is the voltage more than 10 V	The door switch is	Go to step 3.
	Measure the voltage between the body inte-	when each door or rear gate is	OK.	
	grated unit harness connector terminal and	closed?		
	chassis ground.			
	Connector & terminal			
	Front door RH:			
	(i84) No. 32 (+) — Chassis ground (–):			
	Front door LH:			
	(i84) No. 19 (+) — Chassis ground (–):			
	Rear door RH:			
	(i84) No. 18 (+) — Chassis ground (–):			
	Rear door LH:			
	(i84) No. 31 (+) — Chassis ground (–):			
	Rear gate:			
	(i84) No. 17 (+) — Chassis ground (–):			
3	CHECK DOOR SWITCH.	Is the resistance more than 1	Go to step 4.	Replace the door
	1) Disconnect the door switch harness con-	$M\Omega$ when door switch is		switch.
	nector.	pushed?		
	2) Measure the resistance between door			
	switch terminals.			
	Connector & terminal			
	(R12) Front RH door switch:			
	(R9) Front LH door switch:			
	(R16) Rear RH door switch:			
	(R22) Rear LH door switch:			
	No. 1 — No. 3:			
	Rear gate latch switch (Wagon model):			
	(D46) No. 1 — No. 2:			-
4	CHECK DOOR SWITCH.	Is the resistance less than 1 Ω		Replace the door
	Measure the resistance between door switch	when door switch is released?	for open or short	switch.
	terminals.		between body inte-	
	Connector & terminal		grated unit and	
	(R12) Front RH door switch:		door switch.	
	(R9) Front LH door switch:			
	(R16) Rear RH door switch:			
	(R22) Rear LH door switch:			
	No. 1 — No. 3:			
	Rear gate latch switch (Wagon model):			
	(D46) No. 1 — No. 2:			
	(D40) NO. 1 — NO. 2:			

7. CHECK KEY WARNING SWITCH

	Step	Check	Yes	No
1	CHECK FUSE. 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 2.
2	 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 (B281) No. 7 (+) — Chassis ground (-): 	Is the voltage more than 10 V?		Go to step 4.
3	 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 (B281) No. 7 (+) — Chassis ground (-): 	Is the voltage 0 V?	The key warning switch is OK.	Go to step 4 .
4	 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: 		Go to step 5 .	Replace the key warning switch.
5	 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 more than 1 MΩ?	Check the follow- ing: • 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.

8. 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 turned to ON.	Does the room light illuminate?	Go to step 2 .	Check the room light circuit.
2	 CHECK HARNESS BETWEEN ROOM LIGHT AND BODY INTEGRATED UNIT. 1) Disconnect the body integrated unit harness connector and room light harness connector. 2) Measure the resistance between the body integrated unit harness connector terminal and room light harness connector terminal. <i>Connector & terminal</i> (B280) No. 3 — (R52) No. 2: 	Ω?	The room light operation circuit is OK.	Check the harness for open or short between body inte- grated unit and room light.

9. CHECK HAZARD LIGHT OPERATION

Step CHECK HAZARD LIGHT OPERATION. Make sure the hazard light blinks when hazard switch is turned to ON. CHECK OUTPUT TO HAZARD LIGHT.	Check Does the hazard light blink?	Yes Go to step 2.	No Check the hazard light circuit.
Make sure the hazard light blinks when hazard switch is turned to ON. CHECK OUTPUT TO HAZARD LIGHT.			
switch is turned to ON. CHECK OUTPUT TO HAZARD LIGHT.			light circuit.
CHECK OUTPUT TO HAZARD LIGHT.			
		_	
	Is output signal is present	Go to step 3.	Check the body
 Turn the ignition switch to OFF. 	when operating the transmitter		integrated unit.
	LOCK/UNLOCK button?		<ref. td="" to<=""></ref.>
connector.			LAN(diag)-2, Basic
3) Connect the Subaru Select Monitor to the			Diagnostic Proce-
data link connector.			dure.>
Turn the ignition switch to ON.			
5) Select {Integ. unit} from main menu.			
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) When operate the LOCK/UNLOCK button			
of transmitter, check the hazard output signal			
	Is the resistance less than 10	Check the body	Repair the har-
1) Disconnect the harness connector of body	Ω?	-	ness.
integrated unit.		<ref. td="" to<=""><td></td></ref.>	
2) Disconnect the turn signal and hazard unit		LAN(diag)-2. Basic	
		dure.>	
	 Disconnect the key warning switch harness connector. Connect the Subaru Select Monitor to the data link connector. Turn the ignition switch to ON. Select {Integ. unit} from main menu. Select {ECM customizing}. Check {Hazard answer-back setup}, and then switch to ON setting if necessary. Select the {Current Data Display & Save}. When operate the LOCK/UNLOCK button of transmitter, check the hazard output signal of body integrated unit. 	 2) Disconnect the key warning switch harness connector. 3) Connect the Subaru Select Monitor to the data link connector. 4) Turn the ignition switch to ON. 5) Select {Integ. unił} from main menu. 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) When operate the LOCK/UNLOCK button of transmitter, check the hazard output signal of body integrated unit. CHECK CIRCUIT OF HAZARD LIGHT. 1) Disconnect the harness connector of body integrated unit. 2) Disconnect the turn signal and hazard unit harness connector. 3) Measure the resistance between harness connector terminals. Connector & terminal 	 2) Disconnect the key warning switch harness connector. 3) Connect the Subaru Select Monitor to the data link connector. 4) Turn the ignition switch to ON. 5) Select {Integ. unit} from main menu. 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) When operate the LOCK/UNLOCK button of transmitter, check the hazard output signal of body integrated unit. CHECK CIRCUIT OF HAZARD LIGHT. 1) Disconnect the harness connector of body integrated unit. 2) Disconnect the turn signal and hazard unit harness connector. 3) Measure the resistance between harness connector terminals. Connector & terminal

10.CHECK TRUNK LID LOCK ACTUATOR

	Step	Check	Yes	No
1	 CHECK TRUNK LID LOCK ACTUATOR. 1) Turn the ignition switch to OFF. 2) Disconnect the key warning switch harness connector. 3) Connect the Subaru Select Monitor to the data link connector. 4) Turn the ignition switch to ON. 5) Select {Integ. unit} from main menu. 6) Select the {Current Data Display & Save}. 7) When operating the TRUNK button of the transmitter, check the trunk unlock output signal of the body integrated unit. 	Is an output signal present when operating the transmitter TRUNK button?	Go to step 2 .	Check the body integrated unit. <ref. to<br="">LAN(diag)-2, Basic Diagnostic Proce- dure.></ref.>
2	 CHECK THE CIRCUIT OF TRUNK LID ACTU- ATOR. 1) Disconnect the harness connector of body integrated unit. 2) Disconnect the trunk lid actuator harness connector. 3) Measure the resistance between harness connectors. Connector & terminal (i84) No. 22 — (R186) No. 2: 	Is the resistance less than 10 Ω ?	Go to step 3.	Repair the har- ness.
3		Is the resistance less than 10 Ω ?	Check the trunk lid lock actuator. <ref. sl-44,<br="" to="">Trunk Lid Lock Assembly.></ref.>	Repair the har- ness.

11.CHECK DOOR LOCK SWITCH.

	Step	Check	Yes	No
1	 CHECK DOOR LOCK SWITCH. Check the input signal from door lock switch to body integrated unit using Subaru Select Monitor. 1) Connect the Subaru Select Monitor to the data link connector. 2) Turn the ignition switch to ON. 3) Select {Integ. unit} from main menu. 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 dis- played when the door lock switch is moved to LOCK/ UNLOCK?	The door lock switch is OK.	Go to step 2.
2	 CHECK DOOR LOCK SWITCH CIRCUIT. 1) Disconnect the harness connector of body integrated unit. 2) Measure the resistance between the harness connector terminal and chassis ground when moving the door lock switch to LOCK. Connector & terminal (i84) No. 15 — Chassis ground: 	Is the resistance less than 10 Ω?	Go to step 3.	Go to step 4.
3	CHECK DOOR LOCK SWITCH CIRCUIT. Measure the resistance between the harness connector terminal and chassis ground when the door lock switch is moved to UNLOCK. Connector & terminal (i84) No. 29 — Chassis ground:	Is the resistance less than 10 Ω ?	The door lock switch is OK.	Go to step 4.
4	 CHECK DOOR LOCK SWITCH. 1) Disconnect the door lock switch harness connector. 2) Measure the resistance between the door lock switch terminals when moving the door lock switch to LOCK. Connector & terminal Driver's side: (D7) No. 4 — No. 7: Passenger's side: (D125) No. 4 — No. 3: 	Is the resistance less than 1 Ω ?	Go to step 5 .	Replace the door lock switch.
5	CHECK DOOR LOCK SWITCH. Measure the resistance between the door lock switch terminals when moving the door lock switch to UNLOCK. Connector & terminal Driver's side: (D7) No. 5 — No. 7: Passenger's side: (D125) No. 1 — No. 3:	Is the resistance less than 1 Ω?	Check the harness for open circuits or shorts between the body inte- grated unit and the door lock switch.	

12.CHECK IGNITION SWITCH ILLUMINATION

	Step	Check	Yes	No
1	CHECK FUSE. Remove and visually check the fuse No. 14 (in	Is the fuse blown out?	Replace the fuse with a new part.	Go to step 2.
	the main fuse box).		with a new part.	
2	 CHECK POWER SUPPLY. 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 more than 10 V?	Go to step 3 .	Check the harness for open circuits and shorts between the igni- tion switch illumi- nation and fuse.
3	 CHECK IGNITION SWITCH ILLUMINATION CIRCUIT. 1) Disconnect the harness connector of body integrated unit and ignition switch illumination harness connector. 2) Measure the resistance between body inte- grated unit harness connector terminal and ignition switch illumination harness connector terminal. Connector & terminal (B280) No. 4 — (B224) No. 1: 	Is the resistance less than 10 Ω?	new part. <ref. th="" to<=""><th>Check the harness for open circuits and shorts between the body integrated unit and ignition switch illu- mination.</th></ref.>	Check the harness for open circuits and shorts between the body integrated unit and ignition switch illu- mination.

13.CHECK HORN OPERATION.

	Step	Check	Yes	No
1	CHECK HORN OPERATION. Make sure the horn sounds when the horn switch is pushed.	Does the horn sound?	Go to step 2.	Check the horn cir- cuit.
2	 CHECK HORN OPERATION. 1) Disconnect the harness connector of body integrated unit. 2) Connect the harness connector terminal to ground using a suitable lead wire. Connector & terminal (B280) No. 11 (+) — Chassis ground (-): 	Does the horn sound?	Check the body integrated unit. <ref. to<br="">LAN(diag)-2, Basic Diagnostic Proce- dure.></ref.>	

14.CHECK KEYLESS BUZZER

	Step	Check	Yes	No
1	 CHECK KEYLESS BUZZER SOUND. 1) Using the Subaru Select Monitor, set the keyless buzzer sound to ON. 2) Operate the LOCK/UNLOCK button of the transmitter and check whether the keyless buzzer sounds or not. 	Does the keyless buzzer sound?	Keyless buzzer is normal.	Go to step 2.
2	 CHECK FOR POWER SUPPLY OF KEYLESS BUZZER. 1) Turn the ignition switch to OFF. 2) Disconnect the keyless buzzer harness connector. 3) Measure the voltage between harness con- nector terminal and chassis ground. Connector & terminal (F102) No. 2 (+) — Chassis ground (-): 	Is the voltage more than 10 V?	Go to step 3.	Check the harness for open circuits and shorts between the key- less buzzer and fuse.
3	 CHECK FOR GROUND CIRCUIT OF KEY- LESS BUZZER. 1) Disconnect the harness connector of body integrated unit. 2) Measure the resistance between harness connector terminals. Connector & terminal (i84) No. 6 — (F102) No. 1: 	Is the resistance less than 10 Ω ?	Go to step 4.	Repair the har- ness.
4	 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?	Check the body integrated unit. <ref. to<br="">LAN(diag)-2, Basic Diagnostic Proce- dure.> <ref. to<br="">GW-9, Power Win- dow Control Switch.></ref.></ref.>	Replace the key- less buzzer.

15.CHECK IGNITION SWITCH.

	Step	Check	Yes	No
1	CHECK FUSIBLE LINK. Remove the fusible link main SBF and SBF-6 (in main fuse box), and visually check.	Is the fusible link blown out?	Replace the fus- ible link main SBF or SBF-6. If the replaced fusible link has blown out easily, repair the short circuit between the fus- ible link and the ignition switch.	Go to step 2.
2	 CHECK FOR POWER SUPPLY OF IGNITION SWITCH. 1) Disconnect the ignition switch harness connector. 2) Measure the voltage between harness connector terminal and chassis ground. <i>Connector & terminal</i> (B72) No. 3 (+) — Chassis ground (-): 	Is the voltage more than 10 V?	Go to step 3.	Check the harness for open circuits and shorts between the igni- tion switch and fusible link.
3	 CHECK IGNITION SWITCH. 1) Insert the ignition key into ignition switch, and turn the each position. 2) Measure the resistance between ignition switch terminals. Connector & 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): 	Is the resistance less than 1 Ω when turning the ignition key to each position?	Ignition switch is normal.	Replace the igni- tion switch with a new part. <ref. to<br="">SL-49, REPLACE- MENT, Ignition Key Lock.></ref.>

CAUTION:

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