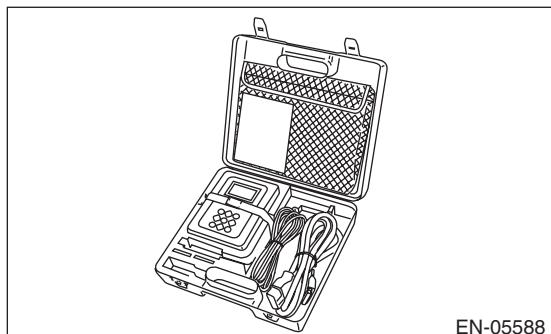


6. Subaru Select Monitor

A: OPERATION

1. READ DIAGNOSTIC TROUBLE CODE (DTC)

- 1) Prepare the Subaru Select Monitor kit. <Ref. to LAN(diag)-7, PREPARATION TOOL, General Description.>

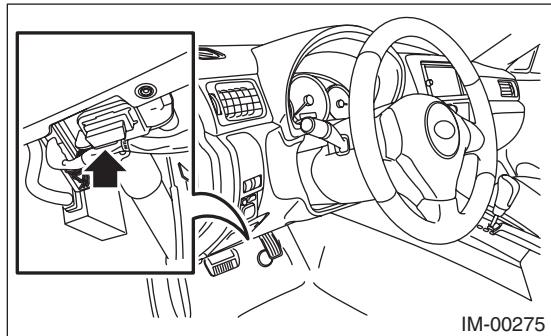


- 2) Prepare PC with Subaru Select Monitor installed.
- 3) Connect the USB cable between SDI (Subaru Diagnosis Interface) and USB port on the personal computer (dedicated port for the Subaru Select Monitor).

NOTE:

The dedicated port for the Subaru Select Monitor means the USB port which was used to install the Subaru Select Monitor.

- 4) Connect the diagnosis cable to SDI.
- 5) Connect SDI to data link connector located in the lower portion of the instrument panel (on the driver's side).



- 6) Start the PC.
- 7) Turn the ignition switch to ON and run the "PC application for Subaru Select Monitor".
- 8) Read the diagnostic trouble code and record it.

NOTE:

For detailed operation procedures, refer to "PC application help for Subaru Select Monitor".

2. READ CURRENT DATA

- 1) On «Main Menu» display, select {Each System Check}.

- 2) On «System Selection Menu» display, select {Integ. unit mode}.
- 3) Select «Current Data Display & Save» screen.
- 4) Using the scroll key, scroll the display screen up or down until the desired data is shown.

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

3. DISPLAY OF DATA

Items to be displayed	Unit of measure	Remarks	Index
BATT voltage (control)	10 — 15 V	Body integrated unit input value	Always
BATT voltage (BACKUP)	10 — 15 V	Body integrated unit input value	Always
IG power supply voltage	10 — 15 V	Body integrated unit input value	Ignition switch ON
ACC voltage	10 — 15 V	Body integrated unit input value	Ignition switch ACC
Illumination VR Voltage	0 — 5 V	Body integrated unit input value	Input value from illumination volume
Illumi. output d-ratio	0 — 100%	Body integrated unit output value	Small light ON Illumination volume is other than bright.
Ambient Temperature	—40 — 87.5°C	CAN data input value	Ignition switch ON
Fuel level voltage	0 — 10 V	Body integrated unit input value	Ignition switch ON
Fuel level resistance	0 — 102.3 Ω	Body integrated unit input value	Ignition switch ON
Key-lock solenoid V	6 — 15 V	Body integrated unit output value	Key warning switch ON, other than parking range Ignition ON
Number of regist.	0 — 4	Number of keyless key registered	Number of transmitter registered is displayed
Front Wheel Speed	km/h	CAN data input value	Reception from VDC module
VDC/ABS latest f-code	DTC display (Temporarily)	CAN data input value	It is normal when DTC is not been input even if this code is displayed. Received from VDC (displayed by hexadecimal number system)
Blower Fan Steps	0 — 2 levels	CAN data input value	0: OFF, 1: Low, 2: 2 levels or more Reception from air conditioner ECM
Fuel level resistance 2	0 — 102.3 Ω	CAN data output value	Reception from body integrated unit
Fuel consumption	cc/s	CAN data input value	Reception from ECM and transmission to center monitor
Engine coolant temperature	—40 — 130°C	CAN data input value	Reception from ECM
Vehicle longitudinal G	m/s ²	CAN data input value	Reception from VDC module
SPORT Shift Stages	0 — 7 levels	CAN data input value	(0: Light OFF; 1 — 5: Gear display; 6: Fail; 7: ATF temperature High/Low) Reception from TCM
Shift position	0 — 7 levels	CAN data input value	0: 1; 1: 2; 2: 3; 3: 4; 4: D, 5: N; 6: R; 7: P shift position (There is no 8 input.) 8 is displayed in manual mode Reception from TCM
VDC/ABS condition	0 — 4	CAN data input value	Reception from VDC module
Destination code	0 — 16	CAN data input value	Reception from combination meter
Touch SW	0 — 64	CAN data input value	Reception from navigation module
Key-lock warning SW	ON/OFF	Body integrated unit input value	On when ignition key is inserted
Stop Light Switch	ON/OFF	Body integrated unit input value	On when brake pedal is depressed
Front fog lamp SW input	ON/OFF	Body integrated unit input value	When front fog light switch is ON
TPMS input	ON/OFF	Body integrated unit input value	Registration done signal
Driver's door SW input	ON/OFF	Body integrated unit input value	On when driver's door is open

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Items to be displayed	Unit of measure	Remarks	Index
P-door SW input	ON/OFF	Body integrated unit input value	On when passenger's door is open
Rear right door SW input	ON/OFF	Body integrated unit input value	On when rear right door is open
Rear left door SW input	ON/OFF	Body integrated unit input value	On when rear left door is open
R Gate SW input	ON/OFF	Body integrated unit input value	On when trunk/rear gate is open
Manual lock SW input	ON/OFF	Body integrated unit input value	Manual lock switch ON
Manual unlock SW input	ON/OFF	Body integrated unit input value	Manual unlock switch ON
Bright SW input	ON/OFF	Body integrated unit input value	ON when bright switch is ON
P SW	ON/OFF	Body integrated unit input value	On when shift range is in parking Shift lever P SW signal
MT Reverse Switch	ON/OFF	Body integrated unit input value	Shift lever is at reverse position
R wiper ON SW input	ON/OFF	Body integrated unit input value	Rear wiper switch ON
R wiper INT SW input	ON/OFF	Body integrated unit input value	Rear wiper switch INT ON
R washer SW input	ON/OFF	Body integrated unit input value	Rear washer switch ON
Wiper deicer SW input	ON/OFF	Body integrated unit input value	Rear defogger switch ON
Rear Defogger SW	ON/OFF	Body integrated unit input value	
Driver's Seat SW input	ON/OFF	Body integrated unit input value	Driver's seat buckle switch ON
P seatbelt SW input	ON/OFF	Body integrated unit input value	With passenger's seat occupied and buckle switch ON
Fr wiper input	ON/OFF	Body integrated unit input value	On when front wiper is operating
Parking Brake Switch Input	ON/OFF	Body integrated unit input value	When parking brake locked
R gate lock status SW input	ON/OFF	Body integrated unit inner memory value	Displays door lock/unlock state, ON when locked
R Gate Release SW input	ON/OFF	Body integrated unit input value	When rear gate opener button is ON
R defogger output	ON/OFF	Body integrated unit output value	On when rear defogger relay is operating
Lock actuat. LOCK output	ON/OFF	Body integrated unit output value	ON when LOCK signal is output
All seat UNLOCK output	ON/OFF	Body integrated unit output value	On when unlock signal is output
D-seat UNLOCK output	ON/OFF	Body integrated unit output value	On when unlock signal is output
R gate/trunk UNLK output	ON/OFF	Body integrated unit output value	On when rear gate/trunk unlock signal is output
R wiper output	ON/OFF	Body integrated unit output value	ON when rear wiper motor is operating
Shift lock solenoid	ON/OFF	Body integrated unit output value	ON when shift lock solenoid is ON (only AT)
Key locking output	ON/OFF	Body integrated unit output value	With ignition switch ON and in other than the shift P range, with key in switch ON
Wiper deicer output	ON/OFF	Body integrated unit output value	ON when wiper deicer relay is operating
Hazard Output	ON/OFF	Body integrated unit output value	ON when answer-back signal is received or when hazard is operating
Keyless Buzzer Output	ON/OFF	Body integrated unit output value	ON when lock/unlock signal is received
Horn Output	ON/OFF	Body integrated unit output value	On when security warning is operating
D-belt warning light O/P	ON/OFF	CAN data output value	ON when ignition switch is turned to ON, and buckle switch is turned off

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Items to be displayed	Unit of measure	Remarks	Index
P-belt warning light O/P	ON/OFF	Body integrated unit output value	On when Ignition switch is turned to ON, occupant is seated, and buckle switch is turned off
Illumination lamp O/P	ON/OFF	Body integrated unit output value	On when illumination is illuminated
Room light output	ON/OFF	Body integrated unit output value	When the room lamp is ON (the switch is in the DOOR position)
Key illumin. lamp o/p	ON/OFF	Body integrated unit output value	On when key illumination light is illuminated
Immobilizer lamp output	ON/OFF	Body integrated unit output value	On when immobilizer pilot light blinks
Keyless operation 1	Registration/Normal	Body integrated unit input value	When keyless is registered
Keyless operation 2	Clear/Normal	Body integrated unit input value	When keyless registration is deleted
CC Main Lamp	On/Off	CAN data input value	Cruise control switch on Reception from ECM and transmission to combination meter
CC Set Lamp	On/Off	CAN data input value	On when cruise control vehicle speed is set Reception from ECM and transmission to combination meter
SPORT Lamp	On/Off	CAN data input value	SPORT mode switch ON Reception from TCM and transmission to combination meter (only AT)
SPORT Blink	Blink/Off	CAN data input value	Blinks when there is an AT failure Reception from TCM and transmission to combination meter (only AT)
ATF Temperature Lamp	On/Off	CAN data input value	When ATF temperature rise (only AT)
ATF Blink	Blink/Off	CAN data input value	Blinks when there is an AT failure Reception from TCM and transmission to combination meter (only AT)
ECO Lamp (AT)	On/Off	CAN data input value	Not applicable
ECO Lamp (MT)	On/Off	CAN data input value	Not applicable
Tire diameter abnormal 1	On/Off	CAN data input value	Lit when FWD fuse is connected (4AT only)
Tire diameter abnormal 2	Blink/Off	CAN data input value	Blinks when the difference in rotation between front and rear wheels is 4% or more Reception from TCM and transmission to combination meter (only AT)
Shift Up Indication	UP/OFF	CAN data input value	ON when shift lever can be operated up (only AT)
Shift Down Indication	DOWN/OFF	CAN data input value	ON when shift lever can be operated down (only AT)
SPORT Shift (buzzer 1)	ON/OFF	CAN data input value	ON while the shift change prohibited warning buzzer is operating Reception from TCM and transmission to combination meter (only AT)

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Items to be displayed	Unit of measure	Remarks	Index
SPORT Shift (buzzer 2)	ON/OFF	CAN data input value	ON when the ATF high temperature warning buzzer is operating Reception from TCM and transmission to combination meter (only AT)
ABS/VDC Judging	ABS/VDC	CAN data input value	Transmission from vehicle dynamic control (VDC) to high speed control module
Small Light SW	ON/OFF	CAN data output value	On when small light is illuminated
Headlamp	ON/OFF	CAN data output value	When headlight LO is ON
High Beam	ON/OFF	CAN data output value	When headlight HI is ON
Large diameter tire	Large diameter/others	CAN data output value	Large diameter when standard tire is 18 in. Reception from combination meter
Number of cylinders	4 cylinders/6 cylinders	CAN data input value	Display engine equipped
Cam shaft specification	SOHC/DOHC	CAN data input value	Display engine equipped
Turbo	Turbo/Non-turbo	CAN data input value	Display engine equipped
E/G displacement (2.5L)	2.5 L/OFF	CAN data input value	Display engine equipped
E/G displacement (3.0L)	3.0 L/OFF	CAN data input value	Display engine equipped
AT Vehicle ID Signal	AT model / MT model	CAN data input value	Display transmission equipped
Blower fan information	ON/OFF	CAN data input value	ON when blower fan is operating (always OFF for auto A/C equipped models)
Center display failure	OK/NG	CAN data input value	NG when there is a center display failure Reception from center display (NAVI monitor)
NAVI Failure	OK/NG	CAN data input value	NG when there is a navigation system failure Reception from Center Display
IE Bus failure	Can not use	CAN data input value	Reception from Center Display
Auto A/C failure	OK/NG	CAN data input value	NG when there is a failure in auto air conditioning system Reception from auto A/C module
EBD Warning Light	ON/OFF	CAN data input value	OK when EBD warning light is illuminated Reception from VDC/ABS and transmission to combination meter
ABS Warning Light	ON/OFF	CAN data input value	OK when ABS warning light is illuminated Reception from VDC/ABS and transmission to combination meter
VDC OFF flag	ON/OFF	CAN data input value	Vehicle dynamics control OFF SW is ON Reception from VDC/ABS and transmission to combination meter
VDC/ABS OK B	OK/NG	CAN data input value	NG when there is an error in VDC/ABS system Reception from VDC/ABS
Lighting I Switch Input	ON/OFF	Body integrated unit input value	ON when lighting switch, illumination is ON

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Items to be displayed	Unit of measure	Remarks	Index
Lighting II Switch Input	ON/OFF	Body integrated unit input value	ON when lighting switch, head-light is ON
Dimmer Hi Switch Input	ON/OFF	Body integrated unit input value	ON when dimmer switch is Hi beam position
Dimmer Pass Switch Input	ON/OFF	Body integrated unit input value	ON when dimmer switch is passing position
Lighting I Lamp Output	ON/OFF	Body integrated unit output value	ON when small light is illuminated
Lighting II Lamp Output	ON/OFF	Body integrated unit output value	ON when headlight is illuminated
Lighting Hi Lamp Output	ON/OFF	Body integrated unit output value	ON when Hi beam is illuminated
Front Fog Lamp Output	ON/OFF	Body integrated unit output value	ON when Front fog light is ON
DRL cancel output	ON/OFF	Body integrated unit output value	ON when lighting switch is "Head-light ON" and dimmer switch is "Hi beam" or "Passing" position
Power Supply Tr	ON/OFF	Body integrated unit output value	ON when lighting switch is "Head" position without inserting key in key cylinder
Spot map lamp output	ON/OFF	Body integrated unit output value	ON when spot map light is illuminated
Echo switch information	ON/OFF	CAN data output value	Not applicable
Off delay time	OFF, Short, Normal, Long	Body integrated unit setting items	Customize setting
Rr defogger op. mode	Continuous/Normal	Body integrated unit setting items	Customize setting
Security Alarm Setup	ON/OFF	Body integrated unit setting items	Customize setting
Impact Sensor Setup	ON/OFF	Body integrated unit setting items	Customize setting
Alarm delay setup	ON/OFF	Body integrated unit setting items	Customize setting
Lockout prevention	ON/OFF	Body integrated unit setting items	Customize setting
Impact sensor	Provided/None	Body integrated unit setting items	Customize setting
Answer-back buzzer setup	ON/OFF	Body integrated unit setting items	Customize setting
Hazard answer-back setup	ON/OFF	Body integrated unit setting items	Customize setting
Ans.-back Buzzer	Provided/None	Body integrated unit setting items	Customize setting
Auto locking	Provided/None	Body integrated unit setting items	Customize setting
Passive Alarm	ON/OFF	Body integrated unit setting items	Customize setting
Door open warning	ON/OFF	Body integrated unit setting items	Customize setting
Dome Light Alarm Setting	ON/OFF	Body integrated unit setting items	Customize setting
Map Light Setting	ON/OFF	Body integrated unit setting items	Customize setting
Belt Warning Switch	ON/OFF	Body integrated unit setting items	Customize setting
Map lamp 30 sec off record	Provided/None	Body integrated unit setting items	Customize setting
A/C ECM setting	Provided/None	Body integrated unit setting items	Customize setting
wiperdeicer	Provided/None	Body integrated unit setting items	Customize setting
Sedan/Wagon Setting	Sedan/wagon	Body integrated unit setting items	Customize setting
MT/AT Setting	MT/AT	Body integrated unit setting items	Customize setting
6MT Setting	6MT/other than 6MT	Body integrated unit setting items	Customize setting
DESTINATION SETTING	0 — 16	Body integrated unit setting items	—
Factory or Market setting	Factory/Market	Body integrated unit setting items	Customize setting

NOTE:

For details concerning the operation procedure, refer to "PC application help for Subaru Select Monitor".

4. CONFIRM CURRENT SETTING.

- 1) On «Main Menu» display, select {Each System Check}.
- 2) On «System Selection Menu» display, select {Integ. unit mode}.
- 3) On «Integ. unit mode failure diag» display, select {Current Data Display & Save}.
- 4) Using the scroll key, scroll the display screen up or down until the desired data is shown.
- 5) Display the following item and record the settings.

Required items for new registration (Except for system not equipped)

Item	Item to confirm				Remarks
Number of regist.	1	2	3	4	Number of registered keys
Off delay time	OFF	Long	Normal	Short	Setting for lighting off time
Rr defogger op. mode	Normal		Continuous		
Security Alarm Setup	ON		OFF		
Impact Sensor Setup	ON		OFF		Option setting
Alarm delay setup	ON		OFF		
Lockout prevention	ON		OFF		
Impact sensor	Yes		No		Option setting
Answer-back buzzer setup	ON		OFF		
Hazard answer-back setup	ON		OFF		
Ans.-back Buzzer	Yes		No		
Passive Alarm	ON		OFF		
Door open warning	Yes		No		
Dome Light Alarm Setting	ON		OFF		
Map Light Setting	ON		OFF		
Belt Warning Switch	ON		OFF		Switch the belt warning lighting and the buzzer sound.
Map lamp 30 sec off record	Yes		No		
A/C ECM setting	Yes		No		Model with auto A/C
Wiperdeicer	Yes		No		Option setting
Sedan/Wagon Setting	Sedan		Wagon		
MT/AT Setting	AT		MT		
6MT Setting	6MT		Other than 6MT		
Factory or Market setting	Factory		Market		Do not change to factory mode.

5. REGISTRATION BODY INTEGRATED UNIT (FUNCTION SETTING)

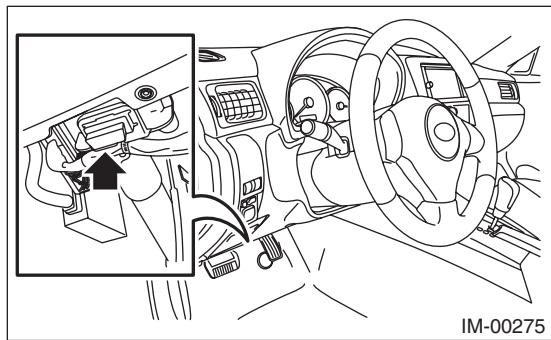
CAUTION:

Body integrated unit is core of LAN system, and also can select the function of all vehicle system control. It is possible to control the original functions of vehicle when registrations of body integrated unit and function setting are corresponded to vehicle equipment.

If registrations and function setting are different from vehicle equipment, vehicle system does not operate normally and diagnosis cannot be performed correctly. Pay attention to following item.

- Be sure to correspond registrations and function settings to vehicle equipment.
- Do not change the settings of vehicle improperly.
- Confirm key illumination does not blink or “Factory or Market setting” of body integrated unit registrations is “Market”. If “Factory or Market setting” is set to “Factory,” key illumination blinks when ignition key is turned ON, to notify that the settings are unconfirmed.
- Key illumination does not blink with ignition switch turned to ON and go off with door closed.
- Be sure to register immobilizer if body integrated unit is replaced with a new part. (models with immobilizer)
- Make a registration of immobilizer when the parts related to immobilizer have been replaced. Refer to the “PC application help for Subaru Select Monitor”.

1) Connect SDI to data link connector located in the lower portion of the instrument panel (on the driver's side).



CAUTION:

Do not connect the scan tools other than the Subaru Select Monitor.

- 2) Start the PC.
- 3) Turn the ignition switch to ON and run the “PC application for Subaru Select Monitor”.
- 4) On «Main Menu» display, select {Each System Check}.

- 5) On «System Selection Menu» display, select {Integ. unit mode}.
- 6) Click the [OK] button after the control module name {Integ. Unit} is displayed.
- 7) On «Integ. unit mode failure diag» display, select {Unit customizing}.
- 8) Change the setting with UP/DOWN key.

- List of body integrated unit registration item

NOTE:

Setting is different depending on the grade of vehicle.

Data	Initial setting	Registration	Remarks
Map lamp 30 sec off record	ON	ON	Set to OFF for models with door interlock switch in map light, ON for models without door interlock switch.
		OFF	
A/C ECM setting	OFF	ON	Set to «ON» in case of model with auto A/C. Set to «OFF» in case of model without auto A/C.
		OFF	
Wiperdeicer (Manufacturer option)	OFF	ON	Be sure to set exactly according to vehicle equipment. ON signal does not output even when the switch is operated, if "OFF" is set.
		OFF	
Sedan/Wagon Setting	Wagon	Sedan	Be sure to set exactly according to vehicle model. This relates to door lock control.
		Wagon	
MT/AT Setting	AT	MT	Be sure to set exactly according to vehicle model. This relates to key interlock control, shift lock control.
		AT	
6MT Setting	Other than 6MT	6MT	Set 6MT for 6MT model, and set Other than 6MT for AT/5AT model.
		Other than 6MT	
Factory or Market setting	Factory	Factory	Be sure to set to "Market". After setting, turn the ignition switch to OFF and settle the changed settings.
		Market	

CAUTION:

- To perform normal operation of vehicle and diagnosis, The above settings must match the actual vehicle equipment.
- When body integrated unit is a new part or "Factory" mode, key illumination blinks to show equipment settings have not been completed. Check the detailed procedures of function setting.
- Be sure not to change Factory or Market setting except when installing a new body integrated unit.

NOTE:

"Factory" mode:

- Body integrated unit has not been set yet. It can be recognized by key illumination blinking with ignition switch turned to ON.
- All replacement body integrated units are set to "Factory" mode. When replacing a body integrated unit, be sure to perform the registration operation.

"Market" mode:

- Each settings have been set. It can be recognized by key ring illumination coming on in concocting with room light and going off with ignition switch turned to ON.

LAN SYSTEM (DIAGNOSTICS)

- 9) Perform the Factory or Market setting. On the «ECM customizing» display screen of Subaru Select Monitor, select the {Factory or Market setting}.
- 10) Change the mode from Factory to Market and then turn the ignition switch to OFF.
- 11) Change the Subaru Select Monitor system selection to «Immobilizer» to register the immobilizer key. (models with immobilizer)
- 12) Perform the operation according to the “PC application help for Subaru Select Monitor”.
- 13) When key registration is completed, “Do you want to register remote engine start?” is displayed. Perform registration only for equipped models.
- 14) Perform the User Customizing.
<Ref. to LAN(diag)-25, USER CUSTOMIZING, OPERATION, Subaru Select Monitor.>

NOTE:

For details concerning the operation procedure, refer to “PC application help for Subaru Select Monitor”.

6. CLEAR MEMORY MODE

- 1) On «Main Menu» display, select {Each System Check}.
- 2) On «System Selection Menu» display, select {Integ. unit mode}.
- 3) Press the [OK] key after the information of body integrated unit type is displayed.
- 4) On «Integ. unit mode failure diag» display, select {Clearing Memory} and press the [OK] key.

Display	Contents to be displayed
Clear Memory ?	Clear function of DTC and freeze frame data

- 5) When “Done” is shown on the display screen, turn the ignition switch to OFF.

NOTE:

For details concerning the operation procedure, refer to “PC application help for Subaru Select Monitor”.

7. FREEZE FRAME DATA

NOTE:

- Data stored at the time of trouble occurrence is shown on display.
- Freeze frame data will be memorized maximum to 20.
- If freeze frame data is not stored in memory correctly (caused by low power supply of body integrated unit), DTC will be displayed with “?” on the head of it in the Subaru Select Monitor display. This shows it may be an unreliable reading.

8. USER CUSTOMIZING

- 1) On «Main Menu» display, select {Each System Check}.
- 2) On «System Selection Menu» display, select {Integ. unit mode}.
- 3) On «Integ. unit mode failure diag» display, select {Unit Customizing}.
- 4) Change the setting with UP/DOWN key and set with the [OK] key.

- List of User Customizing item

Data	Initial setting value	Customize setting	Remarks
Off delay time	Long		Delay time below can be selected by setting.
		OFF	0 seconds
		Short	10 seconds
		Normal	20 seconds
		Long	30 seconds
Rr defogger op. mode	15 min.	15 min.	Wiper deicer stops in 15 minutes automatically after switch is turned to ON.
		Continuous	The wiper deicer activates for 15 minutes and turns inactive for 2 minutes repeatedly until the switch is turned OFF.
Security Alarm Setup	ON	ON	Security alarm (hazard, horn or siren) in active condition
		OFF	Security alarm in inactive condition
Impact Sensor Setup	OFF	ON	Workable when Impact Sensor Setup is set to "ON" Impact sensor function becomes activated.
		OFF	Impact sensor in inactive condition(Set to "OFF" in models without sensors.)
Alarm delay setup	ON		After the keyless lock operation, the alarm monitor starts after the following delay time has passed.
		ON	Delay time is 30 seconds.
		OFF	Delay time is 0 seconds.
Lockout prevention	ON	ON	Lockout prevention in active condition(The function does not operate if safety knob is locked by hand.)
		OFF	Lockout prevention in inactive condition
Impact sensor (OP)	OFF	ON	Vehicle is controlled in impact sensor equipped mode. (Make sure to set to OFF for models without the impact sensor. When "ON", hazard, horn or siren become activated by keyless lock (alarm monitor start).)
		OFF	Vehicle is controlled in no impact sensor mode.

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Data	Initial setting value	Customize setting	Remarks
Answer-back buzzer setup	ON	ON	When lock/unlock is selected by keyless entry system operated, hazard answer-back buzzer operates.
		OFF	When lock/unlock is selected by keyless entry system operated, answer-back buzzer does not sound.
Hazard answer-back setup	ON	ON	When lock/unlock is selected by keyless entry system operated, hazard answer-back buzzer operates.
		OFF	When lock/unlock is selected by keyless entry system operated, hazard answer-back does not operate.
Ans.-back Buzzer	ON	ON	Vehicle is controlled in answer-back buzzer equipped mode.
		OFF	Vehicle is controlled in answer-back buzzer non-equipped mode.(Make sure to set to "OFF" in models without answer back buzzers.)
Initial keyless setting	—	—	—
		Execution	Settings of keyless entry system are initialized.
Initial button setting	—	—	—
		Execution	Settings of each function are initialized.
Passive Alarm	OFF	ON	Setting only for North American models
		OFF	
Door open warning	ON	ON	If detecting door open for 20 minutes, room light, map light, and key ring illumination that are related to doors are turned off to prevent battery run-out.
		OFF	Room light, map light, key illumination and door warning light are not turned off.
Dome Light Alarm Setting	OFF	ON	The room light lights by being interlocked with the activation of the alarm.
		OFF	
Map Light Setting	ON	ON	Illuminates in accordance with the door interlocked room light.(models with sunroof)
		OFF	
Belt Warning Switch	ON	ON	When using normally
		OFF	Stop the belt warning buzzer beep and warning light illumination.

5) After setting, make sure that the setting changed in the {Current Data Display & Save} is same as vehicle equipment.

CAUTION:

- The above settings must match the actual vehicle equipment.
- Do not change settings except for setting above while setting the functions.
- Be sure not to change Factory or Market setting except when installing a new body integrated unit.

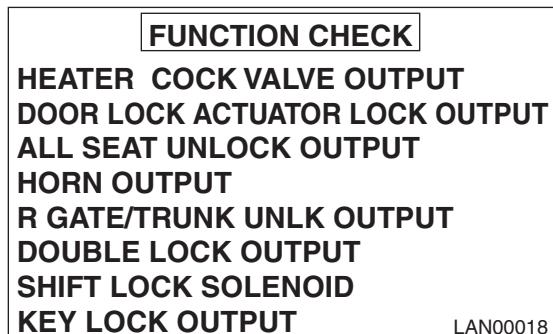
NOTE:

For details concerning the operation procedure, refer to "PC application help for Subaru Select Monitor".

9. FUNCTION CHECK

In order to check the body integrated unit function, inspect the body integrated unit and actuator using Subaru Select Monitor without operating switches.

- 1) On «Main Menu» display, select {Each System Check}.
- 2) On «System Selection Menu» display, select {Integ. unit mode}.
- 3) On «Integ. unit mode failure diag» display, select {Function check}.
- 4) Select the item to be operated on the «Function check» display screen with "UP/Down key" and press the [Next] button.



5) Pressing [Next] starts, [End] cancels the operation and [OK] returns to the System Operation Check Mode display screen.

NOTE:

If not equipped (based on area or condition), process will not go on.

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

B: INSPECTION

1. COMMUNICATION FOR INITIALIZING IMPOSSIBLE

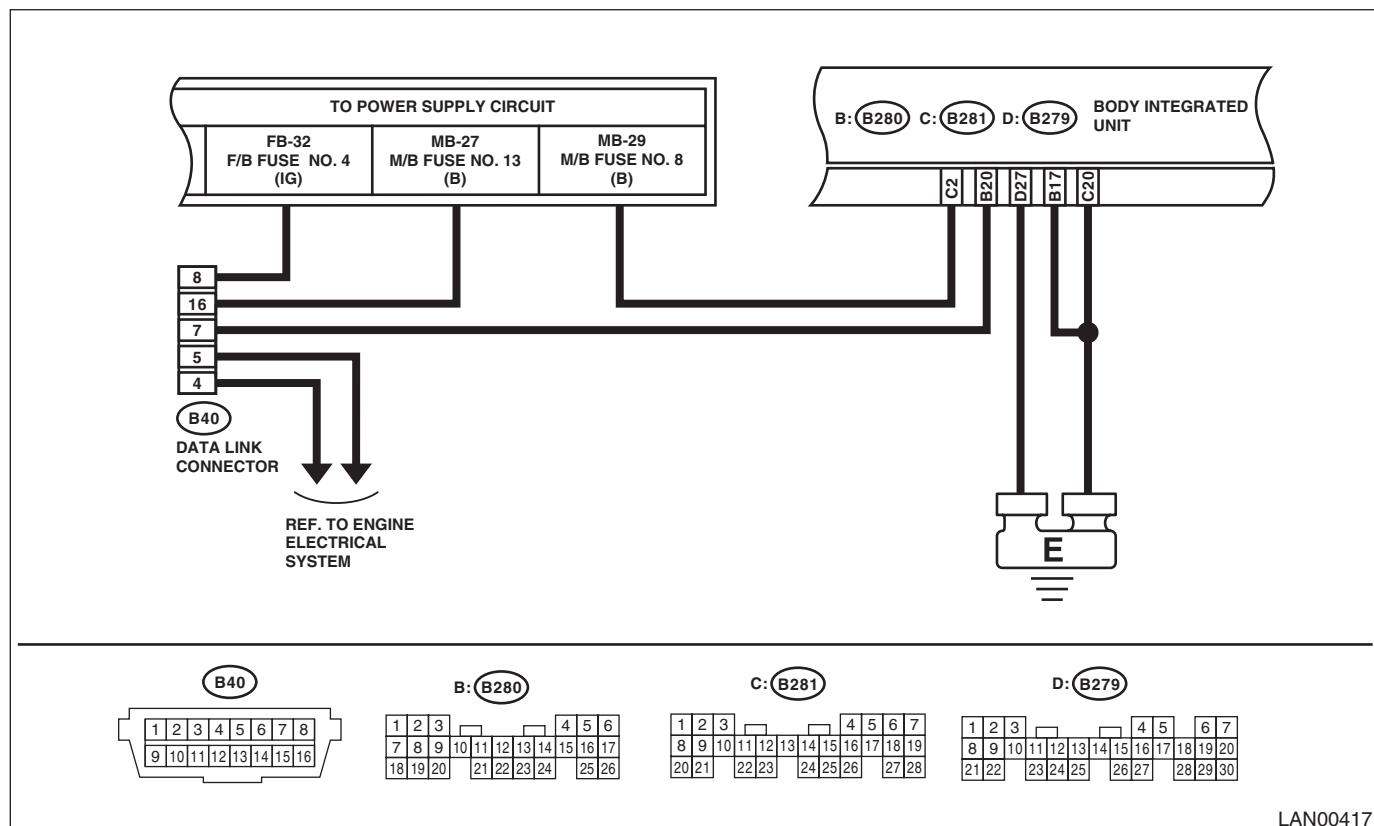
DETECTING CONDITION:

Defective harness connector

TROUBLE SYMPTOM:

Not communicable with Subaru Select Monitor.

WIRING DIAGRAM:



Step	Check	Yes	No
1 CHECK IGNITION SWITCH.	Is the ignition switch ON?	Go to step 2.	Turn the ignition switch to ON, and select Integ. unit mode using Subaru Select Monitor.
2 CHECK BATTERY. 1) Turn the ignition switch to OFF. 2) Measure the battery voltage.	Is the voltage 11 V or more?	Go to step 3.	Charge or replace the battery.
3 CHECK BATTERY TERMINAL.	Is there poor contact at battery terminal?	Repair or tighten the battery terminal.	Go to step 4.
4 CHECK COMMUNICATION OF SUBARU SELECT MONITOR. 1) Turn the ignition switch to ON. 2) Using the Subaru Select Monitor, check whether communication to other systems can be executed normally.	Is the system name displayed?	Go to step 7.	Go to step 5.

Subaru Select Monitor

LAN SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
5 CHECK COMMUNICATION OF SUBARU SELECT MONITOR. 1) Turn the ignition switch to OFF. 2) Disconnect the body integrated unit connector. 3) Turn the ignition switch to ON. 4) Check whether communication to other systems can be executed normally.	Is the system name displayed?	Go to step 7.	Go to step 6.
6 CHECK HARNESS CONNECTOR BETWEEN EACH CONTROL MODULE AND SUBARU SELECT MONITOR. 1) Turn the ignition switch to OFF. 2) Disconnect the body integrated unit connector. 3) Measure the resistance between data link connector and chassis ground. <i>Connector & terminal (B40) No. 7 — Chassis ground:</i>	Is the resistance 1 MΩ or more?	Go to step 7.	Repair the harness and connector between each control module and Subaru Select Monitor.
7 CHECK OUTPUT SIGNAL TO BODY INTEGRATED UNIT. 1) Turn the ignition switch to ON. 2) Measure the voltage between body integrated unit and chassis ground. <i>Connector & terminal (B40) No. 7 (+) — Chassis ground (-):</i>	Is the voltage less than 1 V?	Go to step 8.	Repair the harness and connector between each control module and Subaru Select Monitor.
8 CHECK HARNESS CONNECTOR BETWEEN BODY INTEGRATED UNIT AND DATA LINK CONNECTOR. Measure the resistance between body integrated unit and data link connector. <i>Connector & terminal (B40) No. 7 — (B280) No. 20:</i>	Is the resistance less than 1 Ω?	Go to step 9.	Repair the harness and connector between body integrated unit and Subaru Select Monitor.
9 CHECK BACK-UP FUSE. Check that back-up fuse is not blown out, or check that it is inserted.	Is back-up fuse OK?	Go to step 10.	Replace the back-up fuse, or insert it into the fuse holder.
10 CHECK POWER SUPPLY CIRCUIT. Measure the voltage between body integrated unit connector and chassis ground. <i>Connector & terminal (B281) No. 2 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 11.	Repair the open circuit of harness between body integrated unit and battery.
11 CHECK HARNESS CONNECTOR BETWEEN BODY INTEGRATED UNIT AND CHASSIS GROUND. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from body integrated unit. 3) Measure the resistance of harness between the body integrated unit and chassis ground. <i>Connector & terminal (B280) No. 20 — Chassis ground:</i>	Is the resistance 1 MΩ or more?	Go to step 12.	Repair the poor contact of harness between body integrated unit and ground.
12 CHECK POOR CONTACT OF CONNECTOR.	Is there poor contact of the control unit ground and the Subaru Select Monitor?	Repair the poor contact of connector.	Replace the body integrated unit. <Ref. to SL-49, REMOVAL, Body Integrated Unit.>

CAUTION:

For model with immobilizer, immobilizer registration work is necessary when the body integrated unit replaced. For details, refer to the "PC application help for Subaru Select Monitor".