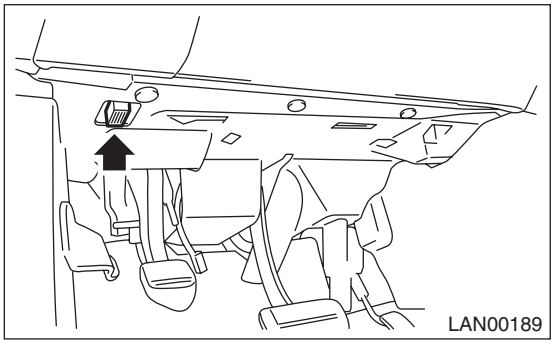
6. Subaru Select Monitor

A: OPERATION

1. READ DIAGNOSTIC TROUBLE CODE (DTC)

NOTE:
• DTC is displayed in the sequence of inputting. (When inputting two DTCs or more simultaneously, they are displayed in the sequence of priority.)
• When more than two DTCs are displayed, perform the diagnosis of top one.

1) Prepare the Subaru Select Monitor kit.
2) Connect the diagnosis cable to Subaru Select Monitor.
3) Connect the Subaru Select Monitor to data link connector.
Data link connector is located in the lower portion of instrument panel (on the driver's side).



CAUTION:
Do not connect the scan tools except for Subaru Select Monitor.

4) Turn the ignition switch to ON (engine OFF) and run the Subaru Select Monitor.
5) On the «Main Menu» display screen, select the {Each System Check}.
6) On the «System Selection Menu» display screen, select the {Integ. unit mode}.
7) On the «Integ. unit mode failure diag» display screen, select the {Diagnostic Code(s) Display}.

NOTE:
It is possible to read the DTC at the {Check all diagnosis codes} on the «Main Menu», and then find the contents to check from the DTC table. <Ref. to LAN(diag)-30, DTC TABLE, LIST, List of Diagnostic Trouble Code (DTC).>

NOTE:
• For details concerning operation procedure, refer to the "SUBARU SELECT MONITOR OPERATION MANUAL".
• For details concerning DTCs, refer to the List of Diagnostic Trouble Code (DTC). <Ref. to LAN(diag)-28, List of Diagnostic Trouble Code (DTC).>

2. READ CURRENT DATA

1) On the «Main Menu» display screen, select the {Each System Check}.
2) On the «System Selection Menu» display screen, select the {Integ. unit mode}.
3) On the «Integ. unit mode failure diag» display screen, select the {Current Data Display & Save}.
4) On the «Current Data Display & Save» display screen, select the {12 Data Display}.
5) Using the scroll key, scroll the display screen up or down until the desired data is shown.

- A support list contains both of analog and digital data, and they are shown in the following table.

3. DISPLAY OF ANALOG DATA

Items to be displayed	Unit of measure	Description	Note
BATT Voltage (Control)	10 — 15 V	Body integrated unit input value	Always
BATT Voltage (BACK UP)	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 output value	Small light switch ON
Illumi. output d-ratio	0 — 100%	Body integrated unit input value	Small light ON Illumination volume is other than bright.
Ambient temp sensor V	0 — 5 V	Body integrated unit input value	Ignition switch ON
Ambient Temperature	–40 — 87.5°C	Body integrated unit output value	Ignition switch ON
Fuel level voltage	0 — 8 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 — 12 V	Body integrated unit output value	Key warning switch ON, in range other than parking Ignition ON
number of regist.	0 — 4	No. of Keyless keys to register	
Front Wheel Speed	km/h	CAN data input value	Reception from VDC unit
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. Reception from VDC
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 resistance2	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
Coolant Temp.	–40 — 130°C	CAN data input value	Reception from ECM
Vehicle lateral G	m/s^2	CAN data input value	Reception from VDC unit
SPORT Shift Stages	0 — 7 levels	CAN data input value	Manual mode operating information (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 (8 indicates no input) On manual mode, 8 is displayed. Reception from TCM
Off delay time	OFF, Short, Normal, Long	Body integrated unit setting items	Customize setting
Auto lock time	20, 30, 40, 50, 60 seconds	Body integrated unit setting items	Customize setting

4. DISPLAY OF ON/OFF DATA

Items to be displayed	Unit of measure	Description	Note
key-lock warning SW	ON/OFF	Body integrated unit input value	ON when ignition key is inserted
Stop light SW	ON/OFF	Body integrated unit input value	ON when brake pedal is depressed
Front fog light SW input	ON/OFF	Body integrated unit input value	When front fog light switch is ON
Rear fog light SW input	ON/OFF	Body integrated unit input value	Not supported by North American specifications
TPMS Input	ON/OFF	Body integrated unit input value	On when TPMS registration completed
lighting SW input	ON/OFF	Body integrated unit input value	ON when headlight is ON from the combination switch
Door key-lock SW input	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Door unlock SW input	ON/OFF	Body integrated unit input value	ON when door key cylinder is moved to the UNLOCK side
Driver's door SW input	ON/OFF	Body integrated unit input value	On when driver's door is open
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
Lock SW (front hood)	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Bright SW input	ON/OFF	Body integrated unit input value	ON when bright switch is ON Except automatic A/C
Shift button SW input	ON/OFF	Body integrated unit input value	ON when shift lever lock button is operated
Economy Switch	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Tiptronic Mode Switch	ON/OFF	Body integrated unit input value	SPORT shift mode ON
TIP UP SW input	ON/OFF	Body integrated unit input value	SPORT shift on and On at up operation
TIP DOWN SW input	ON/OFF	Body integrated unit input value	SPORT shift on and On at down operation
P SW	ON/OFF	Body integrated unit input value	On when shift range is in parking Shift lever P switch signal
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	Wiper deicer switch ON
Rear defogger SW	ON/OFF	Body integrated unit input value	Rear defogger switch ON
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	Passenger's seat occupied and buckle switch ON
Fr wiper input	ON/OFF	Body integrated unit input value	On when front wiper is operating
Registration SW input	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Identification SW input	ON/OFF	Body integrated unit input value	ON when the body type is a wagon
Rr 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
Double lock output	ON/OFF	Body integrated unit output value	Not supported by North American specifications

Items to be displayed	Unit of measure	Description	Note
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 operating
Key locking output	ON/OFF	Body integrated unit output value	Not supported by North American specifications
wiper deicer output	ON/OFF	Body integrated unit output value	ON when wiper deicer is operating
Starter cutting output	ON/OFF	Body integrated unit output value	ON when immobilizer is operating
Hazard Output	ON/OFF	Body integrated unit output value	ON when keyless answer back signal is received or when hazard is operating
Keyless Buzzer Output	ON/OFF	Body integrated unit output value	ON when keyless lock/unlock signal is received
Belt buzzer output	ON/OFF	Body integrated unit output value	ON when signal is output to the belt buzzer
Horn Output	ON/OFF	Body integrated unit output value	On when security warning is operating
Siren Output	ON/OFF	Body integrated unit output value	On when siren is installed, customize settings are enabled, and security warning is operating
D-belt warning light O/P	ON/OFF	Body integrated unit output value	On when Ignition switch is turned to ON, and buckle switch is turned off
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 lamp output	ON/OFF	Body integrated unit output value	On when keyless lock/unlock signal is received (when keyless switch connector is removed)
key illumi. lamp o/p	ON/OFF	Body integrated unit output value	On when key illumination light is illuminated
R fog lamp output	ON/OFF	Body integrated unit output value	Not supported by North American specifications
R fog lamp monitor	ON/OFF	Body integrated unit output value	Not supported by North American specifications
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	Not supported by North American specifications
Keyless operation 2	Clear/Normal	Body integrated unit input value	Not supported by North American specifications
EK alarm output	ON/OFF	Body integrated unit output value	Not supported by North American specifications
TL alarm output	ON/OFF	Body integrated unit output value	Alarm output of the door alarm function. ON when the locked door is improperly opened
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
SPORT Blink	Blink/Off	CAN data input value	Blinks when there is an AT failure Reception from TCM and transmission to combination meter
ATF Temperature Lamp	On/Off	CAN data input value	Not supported by North American specifications

Items to be displayed	Unit of measure	Description	Note
ATF Blink	Blink/Off	CAN data input value	Blinks when there is an AT failure Reception from TCM and transmission to combination meter
ECO Lamp (AT)	On/Off	CAN data input value	Not supported by North American specifications
ECO Lamp (MT)	On/Off	CAN data input value	Not supported by North American specifications
Tire diameter abnormal 1	On/Off	CAN data input value	Not supported by North American specifications
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
Shift UP Indication	UP/OFF	Body integrated unit input value	ON when shift lever can be operated up
Shift Down Indication	DOWN/OFF	Body integrated unit input value	ON when shift lever can be operated down
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
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
ABS/VDC Judging	ABS/VDC	CAN data input value	Transmission from vehicle dynamic control (VDC) to high speed control module
ADA Existence Judging	Yes/No	CAN data input value	Not supported by North American specifications
Small light SW	ON/OFF	Body integrated unit input value	On when small light is illuminated
Headlamp	ON/OFF	Body integrated unit output value	Not supported by North American specifications
High Beam	ON/OFF	Body integrated unit output value	Not supported by North American specifications
Lh turn	ON/OFF	Body integrated unit output value	Not supported by North American specifications
Rh turn	ON/OFF	Body integrated unit output value	Not supported by North American specifications
Rr defogger SW	ON/OFF	Body integrated unit output value	Rear defogger switch ON
Australia Judging Flag	Australia/Others	Body integrated unit output value	North American specifications have others
Large Diameter Tires	Large diameter/ others	Body integrated unit output value	When standard tire is large (18 in. or more) Reception from combination meter
Number of cylinders	4 cylinders/ 6 cylinders	CAN data input value	6 cylinders
Cam shaft specification	SOHC/DOHC	CAN data input value	DOHC
Turbo	Turbo/Non-turbo	CAN data input value	None
E/G displacement (2.5 L)	2.5 L/ OFF	CAN data input value	OFF
E/G displacement (3.0 L)	3.0 L/ OFF	CAN data input value	3.0 L
AT Vehicle ID Signal	AT model / MT model	CAN data input value	AT
Blower fan information	ON/OFF	CAN data input value	ON when blower fan is operating Reception from ECM
Heater cock valve output	ON/OFF	Body integrated unit output value	Not supported by North American specifications
Power Window (UP)	ON/OFF	Body integrated unit output value	Not supported by North American specifications

Items to be displayed	Unit of measure	Description	Note
Power Window (Down)	ON/OFF	Body integrated unit output value	Not supported by North American specifications
Keyless buzzer	ON/OFF	Body integrated unit output value	On when keyless answer-back buzzer operates (when keyless switch connector is removed)
Bright Request	ON/OFF	CAN data input value	ON when operating illumination SW or BRIGHT SW while small light is ON
P/W ECM Failure	OK/NG	CAN data input value	Not supported by North American specifications
Keyless Hook SW	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Door lock SW (Open)	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Door lock SW (Close)	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Door Key SW (Open)	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Door Key SW (Close)	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Under hook registration	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Hook registration end	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Unlock request	ON/OFF	Body integrated unit input value	Not supported by North American specifications
Center display failure	OK/NG	CAN data input value	NG when there is a center display failure Reception from center display (NAVI monitor and MFD)
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	OK/OFF	CAN data input value	OK when EBD warning light is illuminated Reception from VDC/ABS and transmission to combination meter
ABS Warning Light	OK/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
VDC/ABS condition	0 — 4	CAN data input value	Reception from VDC/ABS and transmission to combination meter
Destination	0 — 16	CAN data input value	Reception from combination meter
Touch SW	0 — 64	CAN data input value	Displays the number when operating the navigation monitor touch switch Reception from monitor (except MFD)

NOTE:
For details concerning operation procedure, refer to the “SUBARU SELECT MONITOR OPERATION MANUAL”.

5. CONFIRMATION OF CURRENT SETTING

1) On the «Main Menu» display screen, select the {Each System Check}.
2) On the «System Selection Menu» display screen, select the {Integ. unit mode}.
3) On the «Integ. unit mode failure diag» display screen, select the {Current Data Display & Save}.
4) On the «Current Data Display & Save» display screen, select the {12 Data Display}.
5) Using the scroll key, scroll the display screen up or down until the desired data is shown.
6) Display the following item and record the settings.

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

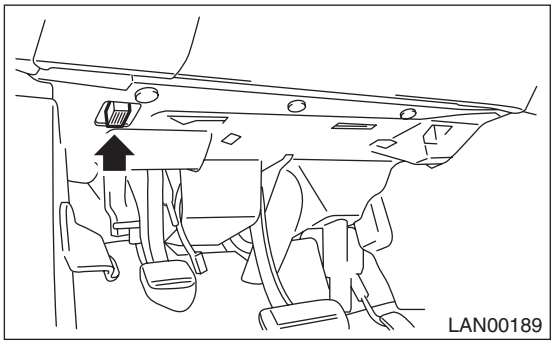
Item	Item to confirm				Remarks
Key No. to register	1	2	3	4	Registered ID type
Off delay	OFF	Long	Normal	Short	Setting for lighting off time
Auto-lock	60, 50, 40, 30, 20		OFF		Not supported by North American specifications(Unit sec.)
Rr defogger op. mode	Normal		Continuous		Normal: Off at 15 minutes of operation Continuous: Operations from switch on to off
Wiper deicer op. mode	Normal		Continuous		Normal: Off at 15 minutes of operation Continuous: Operations from switch ON to OFF, repeats ON for 15 minutes, OFF for 2 minutes
Security Alarm Setup	ON		OFF		ON: Warning device operation possible OFF: Warning device does not operate
Impact Sensor Setup	ON		OFF		ON: Impact sensor operation possible OFF: Impact sensor does not operate Turn OFF for vehicles not equipped with an Impact Sensor
Alarm monitor delay setting	ON		OFF		ON: Monitor after a fixed period of time from reception of the keyless lock signal OFF: Monitor after reception of the keyless lock signal
Lockout prevention	ON		OFF		Not supported by North American specifications
Impact Sensor	Yes		No		Yes: Impact sensor equipped No: Impact sensor not equipped Always set to no for vehicles not equipped with the impact sensor.
Siren setting	Yes		No		Not supported by North American specifications
Answer-back buzzer setup	ON		OFF		ON: Answer-back buzzer operation possible OFF: Answer-back buzzer not operated
Hazard answer-back setup	ON		OFF		ON: Hazard answer-back buzzer operation possible OFF: Hazard answer-back buzzer not operated
Automatic locking setup	ON		OFF		Not supported by North American specifications
Ans.-back Buzzer	Yes		No		Yes: Vehicle equipped with answer-back buzzer No: Vehicle not equipped with answer-back buzzer
Auto locking	Yes		No		Not supported by North American specifications (Set to OFF)
Door open warning (prevention of battery run-out)	Yes		No		Yes: Door interlocked room light goes off when on for 10 minutes consecutively when door is open. No: Room light remains illuminated until door is closed.
Alarm interlocked room light switch	Yes		No		Yes: Room light continuously lit while the alarm is triggered. No: Even if the alarm is triggered, the room light illuminates and then turns off.
Map light interlocked switching	Yes		No		Yes: The map light illuminates together with the door interlocked room light. No: Does not illuminate together with the door interlocked room light.
A/C ECM setting	Yes		No		Model with auto A/C (Set to 'Yes')
P/W ECM setting	Yes		No		Not supported in North American specifications (Set to No)

Item	Item to confirm		Remarks
Center display setting	Yes	No	Yes: Vehicle equipped with MFD and navigation display No: Vehicle not equipped with MFD nor navigation display
Wiper deicer	Yes	No	Yes: Vehicle equipped with wiper deicer No: Vehicle not equipped with wiper deicer
Rear fog light setting	Yes	No	Not supported in North American specifications (Set to No)
Factory initial setting	Factory	Market	Do not change to the factory mode. Set to market when using normally.
Security setting	Yes	No	Not supported by North American specifications

6. REGISTRATION BODY INTEGRATED UNIT (EQUIPMENT 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 initial setting" of body integrated unit registrations is "Market". If "Factory initial setting" is set to "Factory," key illumination blinks with ignition key turned to ON to give warning of unconfirmed settings.
• 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. (Model with immobilizer)
• Make a registration of immobilizer when the parts related to immobilizer have been replaced. Refer to the "REGISTRATION MANUAL FOR IMMOBILIZER".
• Do not install or register an immobilizer related module of other registered vehicles in order to diagnose failures or inspect functions.

1) Turn the ignition switch to OFF.
2) Connect the Subaru Select Monitor to data link connector.



3) Turn the ignition switch to ON and run the Subaru Select Monitor.
4) On the «Main Menu» display screen, select the {Each System Check}.
5) On the «Each System Check» display screen, select the {Integ. Unit mode} and then select the «ECM customizing».
6) Change the setting with UP/DOWN key and select the [OK].
Also, it is possible to set by changing to factory mode and pressing the wiper deicer switch, rear defogger switch, rear fog light switch and door lock switch.

NOTE:
Center display yes/no can be set only by the select monitor.

- List of body integrated unit registration item

NOTE:
Setting is different depending on grade of vehicle and what is equipped.

Data	Initial setting	Registration	Remarks
A/C ECM setting	OFF	ON	Illumination control does not operate if A/C ECM setting is set to “OFF” in case of model with auto A/C.
		OFF	If A/C ECM setting is set to “ON” in case of model without auto A/C, illumination change to night illumination and it is difficult to be recognized.
P/W ECM setting	OFF	ON	Set to “OFF”.
		OFF	
Center display setting	OFF	ON	If center display failure is set to “OFF”, diagnosis for MFD and navigation display cannot be performed.
		OFF	
Wiper deicer setting	OFF	ON	ON signal does not output with operation of wiper deicer switch if wiper deicer is set to “OFF” in models with a wiper deicer.
		OFF	
Rear fog light setting	OFF	ON	Set to “OFF”.
		OFF	
Factory initial setting (Reset of body integrated unit)	Factory	Factory (Reset)	If Factory initial setting is set to “Factory”, registrations of items above is changed to “OFF”. After setting, be sure to set to “Market”.
		Market (Settlement)	

CAUTION:
- **It is possible to control the original functions of vehicle when registrations of body integrated unit and function setting are corresponded to vehicle equipment.**
- **When body integrated unit is a new part or “Factory” mode, key illumination blinks to show equipment settings have not been completed.**
- **Be sure not to change Factory initial setting except installation of 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 body integrated units as spare parts 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 illumination coming on in concocting with room light and going off with ignition switch turned to ON.

7) Perform the Factory initial setting. On the «ECM customizing” display screen of Subaru Select Monitor, select the {Factory initial setting}.
8) Change the mode from Factory to Market.
9) Register the immobilizer key.
10) Perform the registration according to the procedures of the “IMMOBILIZER REGISTRATION OPERATION MANUAL”.
11) When the key registration is completed, perform the function setting (Module customization). <Ref. to LAN(diag)-21, FUNCTION SETTING (ECM CUSTOMIZING), OPERATION, Subaru Select Monitor.>

7. CLEAR MEMORY MODE

1) On the «Main Menu», select the {2. Each System Check}.
2) On the «System Selection Menu» display screen, select the {Integ. unit mode}.
3) Select the [OK] after the information of body integrated unit type is displayed.
4) On the «Integ. Unit mode failure diag» display screen, select the {Clear Memory}.

Display	Contents to be monitored
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 operation procedure, refer to the “SUBARU SELECT MONITOR OPERATION MANUAL”.

8. 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.

9. FUNCTION SETTING (ECM CUSTOMIZING)

1) On the «Main Menu» display screen, select the {Each System Check}.
2) On the «System Selection Menu» display screen, select the {Integ. unit mode}.
3) On the «Integ. Unit mode failure diag» display screen, select the {ECM customizing}.
4) Change the setting.

- List of function setting item (ECM customizing)

NOTE:
Even if changes are made to items that are not equipped, the contents are not confirmed and do not operate.

Data	Initial setting value	Customize setting	Remarks		Destination Specifications
Off delay time	Normal		Delay time below can be selected by setting.		
			After door closed	After key unlock	
		OFF	0 sec.	0 sec.	
		Short	3 sec.	10 sec.	
		Normal	5 sec.	20 sec.	
		Long	8 sec.	30 sec.	
Auto lock time	30 sec.	0 — 60 sec.	Workable when Auto locking is set to “ON” and Automatic locking setup is “ON”. Time can be changed by 10 seconds: 0 (OFF) — 60 (maximum).		Not supported by North American specifications
Rr defogger op. mode	15 min.	15 min.	Automatically stops in 15 minutes after switch is turned to ON.		
		Continuous	Repeats active condition for 15 minutes and inactive condition for 2 minutes until switch is turned to OFF.		
Wiper deicer op. mode	15 min.	15 min.	Automatically stops in 15 minutes after switch is turned to ON.		
		Continuous	Repeats active condition for 15 minutes and inactive condition for 2 minutes until switch is turned to 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 in active condition		
		OFF	Impact sensor in inactive condition (Set Impact Sensor Setup of model without impact sensor to “OFF”.)		
Alarm monitor delay setting	ON		After doors are locked by keyless entry system operated, Alarm monitor starts in following time.		
		ON	Delay time is 30 seconds.		
		OFF	Delay time is 0 seconds.		
Lockout prevention	ON	ON	Lockout prevention in inactive condition (Lockout prevention does not operate if safety knob is locked by hand.)		
		OFF	Lockout prevention in inactive condition		
Impact Sensor	OFF	ON	Vehicle is controlled in impact sensor equipped mode. (Set impact sensor to “OFF” in model without impact sensor. If impact sensor is set to “ON”, hazard, horn or siren operate after doors are locked by keyless entry system operated (Alarm monitor starting).)		Set to “ON” when an optional impact sensor is installed.
		OFF	Vehicle is controlled in impact sensor no-equipped mode.		

Data	Initial setting value	Customize setting	Remarks	Destination Specifications
Siren setting	OFF	ON	Siren sounds when alarm operates. (Set siren setting to “OFF” in model without siren. Horn does not sound if siren setting is set to “ON”.)	Not supported by North American specifications
		OFF	Horn sounds when alarm operates.	
Answer-back buzzer setup	ON	ON	Workable when answer-back buzzer setup is set to “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	Workable when hazard answer-back setup is set to “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.	
Automatic locking setup	ON	ON	Workable when Automatic locking setup is set to “ON” Automatic locking operates.	Not supported by North American specifications
		OFF	Automatic locking does not operate.	
Ans.-back Buzzer	ON	ON	Vehicle is controlled in answer-back buzzer equipped mode.	Not supported by North American specifications
		OFF	Vehicle is controlled in answer-back buzzer non-equipped mode. (Set Ans.-back Buzzer to “OFF” in model without answer back buzzer.)	
Auto locking	ON	ON	Vehicle is controlled in auto locking equipped mode.	Not supported by North American specifications
		OFF	Vehicle is controlled in auto locking non-equipped mode. (Set Auto locking to “OFF” in model without auto locking.)	
Initial Keyless Setting	—	—	—	
		Execution	Settings of keyless entry system are initialized. (Auto-lock time: 30 sec., Answer-back buzzer setup: ON, Hazard answer-back setup: ON, Automatic locking setup: ON, Ans.-back Buzzer: ON)	
Initial button setting	—	—	—	(Off delay time: Normal, R defogger op. mode: 15 min., Wiper deicer op. mode: 15 min., Lockout prevention: ON)
		Execution	Settings of each function are initialized.	
Initial Security setting	—	—	—	Not supported by North American specifications
		Execution	Settings of security system are initialized.	
Passive Alarm (Not used)	OFF	ON	Workable when passive arming is set to “ON.”	
		OFF		
Door open warning (prevention of battery run-out)	OFF	ON	If detecting door open for 30 minutes, room light, key illumination and door warning light are turned off to prevent battery run-out.	
		OFF	Room light, key illumination and door warning light is not turned off.	
Alarm inter-locked room light switch	OFF	ON	The room light lights by being interlocked with the activation of the alarm.	
		OFF	Room light does not illuminate even if the alarm is activated.	

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

CAUTION:
- **It is possible to control the original functions of vehicle when settings above are corresponded to vehicle equipment.**
- **Do not change the settings except for setting above during operation of equipment setting.**
- **Be sure not to change Factory initial setting except installation of new body integrated unit.**

NOTE:
For details concerning operation procedure, refer to the “SUBARU SELECT MONITOR OPERATION MANUAL”.

10.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 the «Main Menu» display screen, select the {Each System Check}.
2) On the «System Selection Menu» display screen, select the {Integ. unit mode}.
3) On the «Integ. Unit mode failure diag» display screen, select the {Function Check}.
4) Select the item to be operated on the «Function Check» display screen and select the [OK].
5) Selecting [OK] starts, [NO] 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.