SECURITY CONTROL SYSTEM

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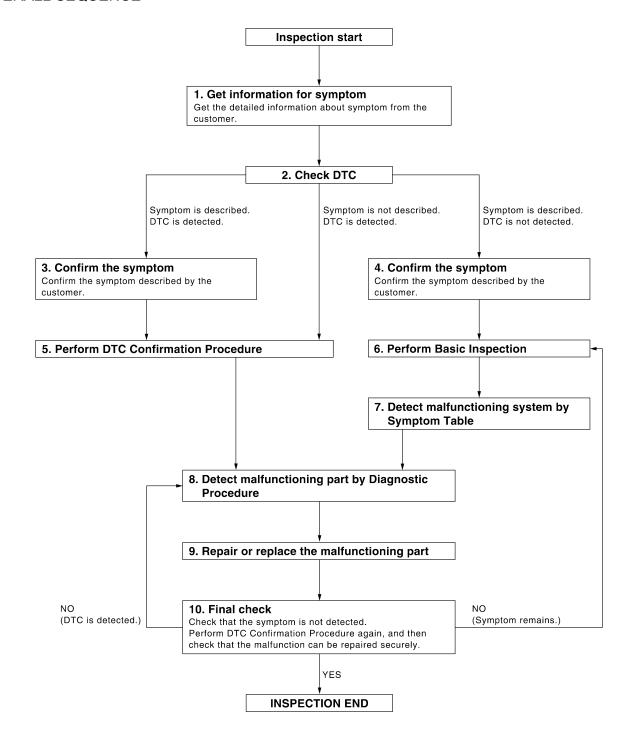
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

$1.\mathsf{GET}$ INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CHECK DTC WITH BCM AND IPDM E/R

- Check "Self Diagnostic Result" with CONSULT.
- Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3.

Symptom is described, DTC is not displayed>>GO TO 4.

Symptom is not described, DTC is displayed>>GO TO 5.

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT to the vehicle in "Data Monitor" mode and check real time diagnosis results.

Verify relationship between the symptom and the condition when the symptom is detected.

>> GO TO 5.

f 4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT to the vehicle in "Data Monitor" mode and check real time diagnosis results.

Verify relationship between the symptom and the condition when the symptom is detected.

>> GO TO 6.

${f 5}$ PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always keep CONSULT connected to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to SEC-115, "DTC Inspection Priority Chart" and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check. If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

YES >> GO TO 8.

NO >> Refer to GI-41, "Intermittent Incident".

$oldsymbol{6}$. PERFORM BASIC INSPECTION

Perform SEC-7, "Pre-Inspection for Multi-System Diagnostic".

Inspection End>>GO TO 7.

/.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to following symptom tables based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptoms.

- Intelligent Key system/engine start function: <u>SEC-158</u>, "Symptom Table".
- Vehicle security system: <u>SEC-159</u>, "Symptom Table".

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SEC-5 Revision: August 2013 2014 Maxima NAM

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Nissan vehicle immobilizer system-NATS: <u>SEC-160</u>, "Symptom Table".

>> GO TO 8.

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 9.

NO >> Check voltage of related BCM terminals using CONSULT.

$9.\mathsf{REPAIR}$ OR REPLACE THE MALFUNCTIONING PART

- 1. Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair or replacement
- 3. Check DTC. If DTC is displayed, erase it.

>> GO TO 10.

10. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction has been fully repaired.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is the inspection result normal?

NO (DTC is detected)>> GO TO 8.

NO (Symptom remains)>>GO TO 6.

YES >> Inspection End.

PRE-INSPECTION FOR DIAGNOSTIC

< BASIC INSPECTION >

PRE-INSPECTION FOR DIAGNOSTIC

Pre-Inspection for Multi-System Diagnostic

The engine start function, door lock function, power distribution system and NATS-IVIS/NVIS are closely related to each other. Narrow down the system in question by performing this inspection to identify which system is malfunctioning. For example, the vehicle security system can operate only when the door lock and power distribution system are operating normally.

1. CHECK DOOR LOCK OPERATION

Check the door lock for normal operation with the Intelligent Key and door request switch.

Successful door lock operation with the Intelligent Key and request switch indicates that the remote keyless entry receiver and inside key antenna required for engine start are functioning normally.

Can the door be locked with the Intelligent Key and door request switch?

YES >> GO TO 2.

NO >> Refer to <u>DLK-183</u>, "Symptom Table".

2.CHECK ENGINE STARTING

Check that the engine starts when the Intelligent Key is inserted into the key slot.

Does the engine start?

YES >> GO TO 3.

NO >> Refer to SEC-158, "Symptom Table".

3.CHECK POWER SUPPLY INDICATOR SWITCHING

Press push-button ignition switch and check that the position indicator switches from LOCK, through ACC to ON.

Is each position indicator illuminating?

YES >> GO TO 4.

NO >> Refer to PCS-65, "Component Function Check".

4. CHECK VEHICLE SECURITY SYSTEM

Check the vehicle security system for normal operation. Refer to SEC-7, "Vehicle Security Operation Check".

Are the inspection results normal?

YES >> Inspection End.

NO >> Repair vehicle security system as necessary.

Vehicle Security Operation Check

1.INSPECTION START

Turn ignition switch "OFF" and remove Intelligent Key from key slot.

NOTE:

Before starting operation check, open front windows.

>> GO TO 2

2.CHECK SECURITY INDICATOR LAMP

- Lock doors using Intelligent Key or mechanical key.
- Check that security indicator lamp illuminates for 30 seconds.

Does security indicator lamp illuminate?

YES >> GO TO 3

NO >> Perform diagnosis and repair. Refer to SEC-92, "Component Function Check".

3. CHECK ALARM FUNCTION

- After 30 seconds, security indicator lamp will start to blink.
- Open any door before unlocking with Intelligent Key or mechanical key, or open trunk lid without Intelligent Key or mechanical key.

Does alarm function properly?

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PRE-INSPECTION FOR DIAGNOSTIC

< BASIC INSPECTION >

YES >> GO TO 4

NO

- >> Check the following.
 - The vehicle security system does not phase in alarm mode. Refer to <u>SEC-159</u>, "Symptom <u>Table"</u>.
 - Alarm (horn, headlamp and hazard lamp) do not operate. Refer to SEC-159, "Symptom Table".

4. CHECK ALARM CANCEL OPERATION

Unlock any door or open trunk lid using Intelligent Key or mechanical key.

Does alarm (horn, headlamp and hazard lamp) stop?

YES >> Inspection End.

NO >> Check door lock function. Refer to <u>SEC-19</u>, "System Description".

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT ECM RE-COMMUNICATING FUNCTION

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ECM RE-COMMUNICATING FUNCTION : Description

Performing following procedure can automatically perform re-communication of ECM and BCM, but only when the ECM has been replaced with a new one (*1).

*1: New one means an ECM which has never been energized on-board.

(In this step, initialization procedure by CONSULT is not necessary)

NOTE:

- When registering new Key IDs or replacing the ECM that is not brand new, refer to CONSULT Immobilizer mode and follow the on-screen instructions.
- If multiple keys are attached to the key holder, separate them before work.
- Distinguish keys with unregistered key ID from those with registered ID.

ECM RE-COMMUNICATING FUNCTION : Special Repair Requirement

INFOID:0000000010051899

1. PERFORM ECM RE-COMMUNICATING FUNCTION

- Install ECM.
- 2. Insert the registered Intelligent Key (*2), turn ignition switch to "ON".

 *2: To perform this step, use the key that has been used before performing ECM replacement.
- 3. Maintain ignition switch in "ON" position for at least 5 seconds.
- 4. Turn ignition switch to "OFF".
- 5. Start engine.

Can engine be started?

YES >> Procedure is completed.

NO >> Initialize control unit. Refer to CONSULT Immobilizer mode and follow the on-screen instructions.

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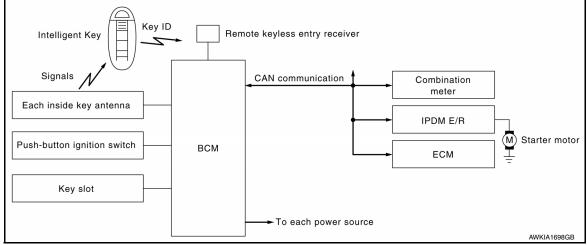
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SYSTEM DESCRIPTION

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

System Diagram

INFOID:000000010051900



System Description

INFOID:0000000010051901

INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to BCM	BCM function	Actuator
Push-button ignition switch	Push switch		
CVT shift selector	P range		
TCM	N, P range	Engine start function	Starter relay (IPDM E/R) Starter control relay (IPDM E/R) Starter motor KEY warning lamp
Stop lamp switch	Brake ON/OFF		
Each inside key antenna	Request signal		
Remote keyless entry receiver	Key ID		
Each door switch	Door open/close		
ECM	Engine status signal		

SYSTEM DESCRIPTION

The engine start function of Intelligent Key system is a system that makes it possible to start and stop the
engine without removing the key. It verifies the electronic ID using two-way communications when pressing
the push-button ignition switch while carrying the Intelligent Key, which operates based on the results of
electronic ID verification for Intelligent Key using two-way communications between the Intelligent Key and
the vehicle.

NOTE:

The driver should carry the Intelligent Key at all times.

- Intelligent Key has 2 IDs [for Intelligent Key and for NVIS (NATS)]. It can perform the door lock/unlock operation and the push-button ignition switch operation when the registered Intelligent Key is carried.
- When the Intelligent Key battery is discharged, it can be used as emergency back-up by inserting the Intelligent Key to the key slot. At that time, perform the NVIS (NATS) ID verification. If it is used when the Intelligent Key is carried, perform the Intelligent Key ID verification.
- When the push-button ignition switch is pressed the ID will be verified. If the ID is successfully verified, starting the engine will be possible.
- If the door lock/unlock operation is performed when the Intelligent Key battery is discharged, all doors lock/ unlock can be performed by operating the driver door key cylinder using the mechanical key set in the Intelligent Key.
- Intelligent Key system can register up to 4 keys (Including the standard Intelligent Key) on request from the owner.

NOTE:

< SYSTEM DESCRIPTION >

• Refer to DLK-24, "INTELLIGENT KEY: System Description" for any functions other than engine start function of Intelligent Key system.

PRECAUTIONS FOR INTELLIGENT KEY SYSTEM

 In the Intelligent Key system of model A35, the transponder [the chip for NVIS (NATS) ID verification] is integrated into the Intelligent Key. (For the conventional models, it is integrated into the mechanical key.) Therefore, the mechanical key cannot perform the ID verification, and thus it cannot start the engine. Instead, the NVIS (NATS) ID verification can be performed by inserting the Intelligent Key into the key slot, and then it can start the engine.

OPERATION WHEN INTELLIGENT KEY IS CARRIED

- 1. When the push-button ignition switch is pressed and brake pedal is depressed, the BCM signals the inside key antenna and transmits the request signal to the Intelligent Key.
- The Intelligent Key sends the request signal and transmits the Intelligent Key ID signal to the BCM via the remote keyless entry receiver.
- The BCM receives the Intelligent Key ID signal and verifies it with the registered ID.
- BCM turns ACC relay ON and transmits the ignition power supply ON signal to IPDM E/R.
- IPDM E/R turns the ignition relay ON and starts the ignition power supply.
- BCM confirms that the shift position is P or N.
- BCM transmits the starter request signal via CAN communication to IPDM E/R and turns the starter relay in IPDM E/R ON if BCM judges that the engine start condition is satisfied.
- IPDM E/R turns the starter control relay ON when receiving the starter request signal.
- Battery power is supplied through the starter relay and the starter control relay to operate the starter motor and to start the cranking.

CAUTION:

If a malfunction is detected in the Intelligent Key system, the "KEY" warning lamp in the combination meter illuminates. At that time, the engine cannot be started.

10. When BCM received feedback signal from ECM acknowledging the engine has been initiated, the BCM transmits a stop signal to IPDM E/R and stops the cranking by turning OFF the starter motor relay. (If the engine initiating has failed, the cranking will stop automatically within 5 seconds.) **CAUTION:**

When the Intelligent Key is carried outside of the vehicle (inside key antenna detection area) with the power supply in ACC or ON position, even if the engine start condition* is satisfied, the engine cannot be started.

*: For the engine start condition, refer to "PUSH-BUTTON IGNITION SWITCH OPERATION PROCEDURE".

OPERATION RANGE

Engine can be started when Intelligent Key is inside the vehicle. However, sometimes engine might not start when Intelligent Key is on instrument panel or in glove box.

OPERATION WHEN KEY SLOT IS USED

When the Intelligent Key battery is discharged, it performs the NVIS (NATS) ID verification between the integrated transponder and BCM by inserting the Intelligent Key into the key slot, and then the engine can be started.

For details relating to starting the engine using key slot, refer to SEC-10. "System Description".

BATTERY SAVER SYSTEM

When all the following conditions are met for 60 minutes, the battery saver system will cut off the power supply to prevent battery discharge.

- · The ignition switch is in the ACC position
- All doors are closed
- CVT selector lever is in the P position
- No Intelligent Key failures (Intelligent Key warning indicator is not ON)

Reset Condition of Battery Saver System

In order to prevent the battery from discharging, the battery saver system will cut off the power supply when all doors are closed, the selector lever is in P position and the ignition switch is left in ACC position for 1 hour. If any of the following conditions are met, the battery saver system is released:

SEC-11

Opening any door

Revision: August 2013

Operating with request switch on door lock

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< SYSTEM DESCRIPTION >

Operating with Intelligent Key on door lock

Press push-button ignition switch and ignition switch will change to ACC position from OFF position.

PUSH-BUTTON IGNITION SWITCH OPERATION PROCEDURE

The power supply position changing operation can be performed with the following operations:

NOTE:

- When an Intelligent Key is within the detection area of inside key antenna or when it is inserted to the key slot, it is equivalent to the operations below.
- When starting the engine, the BCM monitors under the engine start conditions.
- Brake pedal operating condition
- CVT selector lever position
- Vehicle speed
- Engine status
- Unless each start condition is fulfilled, the engine will not respond regardless of how many times the engine switch is pressed. At that time, illumination repeats the position in the order of LOCK→ACC→ON→OFF.

Dower supply position	Engine start/stop condition		Push-button ignition switch op-	
Power supply position	Brake pedal	CVT selector lever position	eration frequency	
$LOCK \to ACC$	Not depressed	Any position	1	
$LOCK \to ACC \to ON$	Not depressed	Any position	2	
$\begin{array}{c} LOCK \to ACC \to ON \to \\ OFF \end{array}$	Not depressed	Any position	3	
LOCK → START ACC → START ON → START (Engine start)	Depressed	P or N position (*1)	I [If the switch is pressed once, the engine starts from any power supply position (LOCK, ACC, and ON)]	
Engine is running → OFF (Engine stop)	_	Any position Vehicle speed < 4 km/h (2 MPH)	1	
Engine is running → ACC (Engine stop)	_	Any position other than P (*2)	1	
Engine stall return operation while driving	_	P position	1	

^{*1:} When the CVT selector lever position is N position, the engine start condition is different according to the vehicle speed.

- · At vehicle speed of 4 km/h (2 MPH) or less, the engine can start only when the brake pedal is depressed.
- At vehicle speed of 4 km/h (2 MPH) or more, the engine can start even if the brake pedal is not depressed. (It is the same as "Engine stall return operation while driving".)

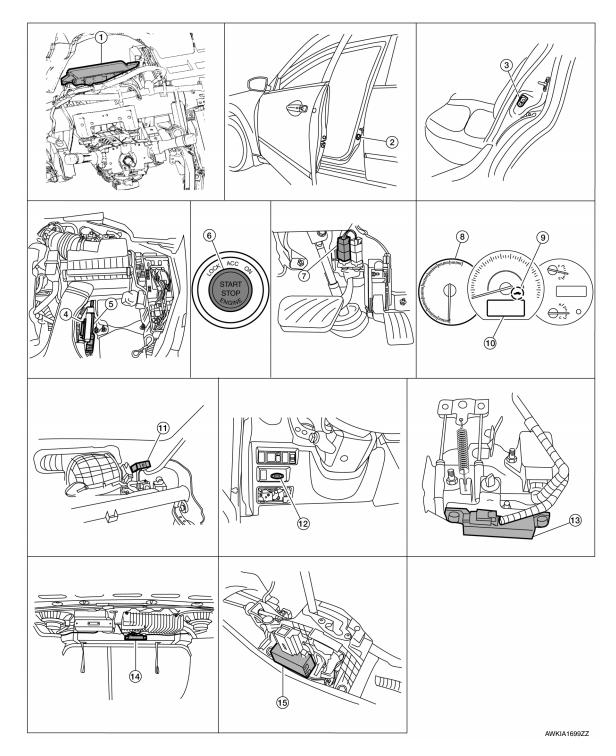
- Press and hold the push-button ignition switch for 2 seconds or more. (When the push-button ignition switch is pressed for too short a time, the operation may be invalid, so properly press and hold to prevent an incorrect operation.)
- Press the push-button ignition switch 3 times or more within 1.5 seconds. (Emergency stop operation)

^{*2:} When the CVT selector lever position is in any position other than P position and when the vehicle speed is 5 km/h (3 MPH) or more, the engine stop condition is different.

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:0000000010051902



- BCM M16, M17, M18, M19, M21 (view with instrument panel removed)
- 4. TCM F15
- Stop lamp switch E38
 (view with lower driver instrument panel removed)
- Front door switch LH B8 RH B108
- 5. ECM E10
- 8. Combination meter M24
- 3. Rear door switch LH B18 RH B116
- 6. Push button ignition switch M38
- 9. Security indicator lamp

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< SYSTEM DESCRIPTION >

10. Information display

11. Remote keyless entry receiver M27 (view with instrument panel removed)

12. Key slot M40

13. Front console antenna M41 (view with center console removed)

14. Rear parcel shelf antenna B29

15. CVT shift selector M78

Component Description

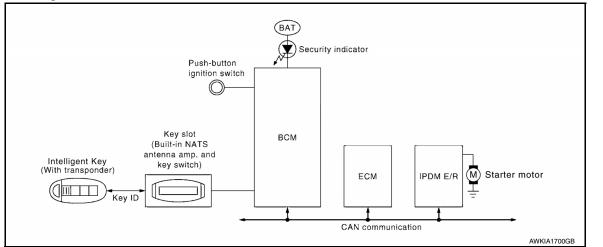
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Component	Reference
BCM	<u>SEC-31</u>
Push-button ignition switch	<u>SEC-46</u>
Door switch	<u>DLK-67</u>
CVT shift selector	<u>SEC-50</u>
Inside key antenna	DLK-60
Remote keyless entry receiver	DLK-110
Stop lamp switch	SEC-43
Starter relay	<u>SEC-63</u>
Starter control relay	SEC-49
Security indicator	SEC-92
Key warning lamp	SEC-91

< SYSTEM DESCRIPTION >

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

System Diagram



System Description

INFOID:0000000010051905

INFOID:0000000010051904

INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to BCM	BCM function	Actuator		
Push-button ignition switch	Push switch	NVIS (NATS)			
CVT shift selector	P range				
TCM	N, P range		Starter relay (IPDM E/R)Starter control relay (IPDM E/R)Starter motor		
Stop lamp switch	Brake ON/OFF				
Key slot	Key ID		KEY warning lamp Security indicator lamp	KEY warning lamp Security indicator lamp	
Each door switch	Door open/close			Coounty manager ramp	
ECM	Engine status signal			0	

SYSTEM DESCRIPTION

- The NVIS (NATS) is an anti-theft system. By registering an Intelligent Key ID into the vehicle, it prevents the
 engine being started by an unregistered Intelligent Key. It has a higher protection against auto thefts than
 duplicate mechanical keys.
- It performs the ID verification when starting the engine in the same way as the Intelligent Key system. But, it
 performs the NVIS (NATS) ID verification when inserting the Intelligent Key and performs the Intelligent Key
 ID verification when carrying the Intelligent Key.
- The Intelligent Key system of A35 is not the same as the conventional models. The mechanical key integrated in the Intelligent Key cannot start the engine. When the Intelligent Key battery is discharged, the NVIS (NATS) ID verification memorized to the transponder integrated with Intelligent Key is performed by inserting the Intelligent Key into the key slot. If the verification results are OK, the engine start operation can be performed by the push-button ignition switch operation.
- Locate the security indicator and apply the anti-theft system equipment sticker, forewarning that the NVIS (NATS) is onboard with the model.
- The security indicator always blinks when the Intelligent Key is removed from the key slot and when the power supply position is in LOCK position.
- Intelligent Key can be registered up to 4 keys (Including the standard ignition key) on request from the owner.
- The specified registration is required when replacing ECM, BCM or Intelligent Key. For registration procedure for NVIS (NATS) and registration procedure for Intelligent Key when installing the BCM, refer to CONSULT Immobilizer mode and follow the on-screen instructions.
- Possible symptom of NVIS (NATS) malfunction is "Engine cannot start". In A35, the engine can be started
 with the Intelligent Key system and NVIS (NATS). Identify the possible causes according to "Work Flow".
 Refer to SEC-4, "Work Flow".

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Revision: August 2013 SEC-15 2014 Maxima NAM

< SYSTEM DESCRIPTION >

If ECM other than Genuine NISSAN is installed, the engine cannot be started. For ECM replacement procedure, refer to <u>SEC-9</u>, "ECM RE-COMMUNICATING FUNCTION: Special Repair Requirement".

PRECAUTIONS FOR KEY REGISTRATION

- The key registration is a procedure that erases the current NVIS (NATS) ID once, and then re-registers a
 new ID operation. Therefore, the registered Intelligent Key is necessary for this procedure. Before starting
 the registration operation collect all registered Intelligent Keys from the customer
- When registering the Intelligent Key, perform only one procedure to register simultaneously both ID (NVIS "NATS" ID registration and Intelligent Key ID registration).
 - The NVIS (NATS) ID registration is the procedure that registers the ID stored into the transponder (integrated in Intelligent Key) to BCM.
- The Intelligent Key ID registration is the procedure that registers the ID to BCM.
- When performing the Intelligent Key system registration only, the engine cannot be started by inserting the key into the key slot. When performing the NVIS (NATS) registration only, the engine cannot be started by the operation when carrying the key. The registrations of both systems should be performed.

SECURITY INDICATOR

- Warns that the vehicle is equipped with NVIS (NATS).
- The security indicator always blinks when the Intelligent Key is removed from the key slot and when the ignition switch is in LOCK position.

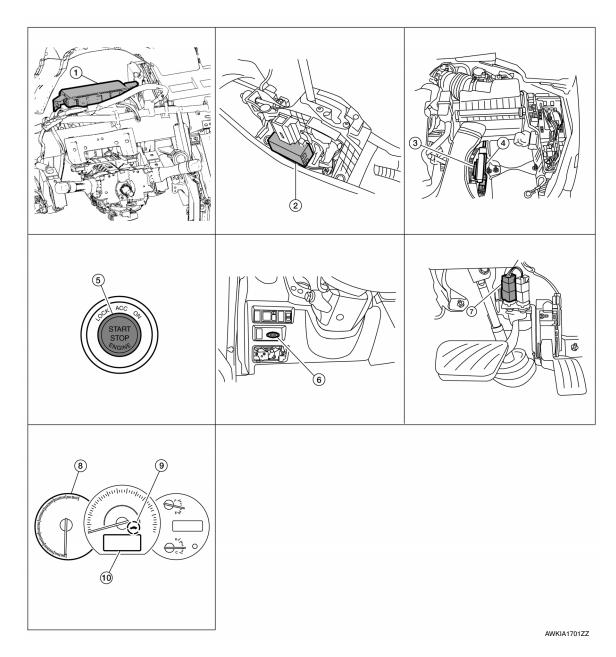
NOTE:

Because security indicator is highly efficient, the battery is barely affected.

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:0000000010051906



- BCM M16, M17, M18, M19, M21 (view with instrument panel removed)
- ECM E10
- Stop lamp switch E38 (view with lower LH instrument panel removed)
- 10. Information display

- CVT shift selector M78
 - Push button ignition switch M38
- Combination meter M24
- TCM F15
- 6. Key slot M40
- Security indicator lamp

Component Description

INFOID:0000000010051907

Component	Reference
BCM	<u>SEC-31</u>
Push-button ignition switch	<u>SEC-46</u>
Door switch	DLK-67
CVT shift selector	<u>SEC-50</u>

SEC-17 Revision: August 2013 2014 Maxima NAM

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< SYSTEM DESCRIPTION >

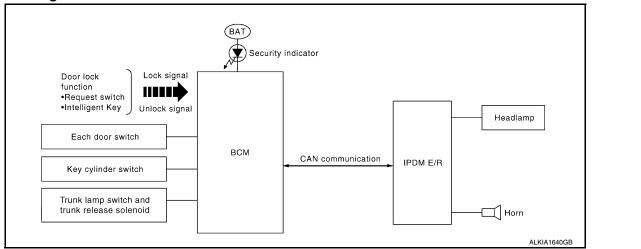
Component	Reference
Inside key antenna	<u>DLK-60</u>
Remote keyless entry receiver	DLK-110
Stop lamp switch	<u>SEC-43</u>
Transmission range switch	<u>SEC-59</u>
Starter relay	<u>SEC-63</u>
Starter control relay	<u>SEC-49</u>
Security indicator	<u>SEC-92</u>
Key warning lamp	<u>SEC-91</u>

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

VEHICLE SECURITY SYSTEM

System Diagram



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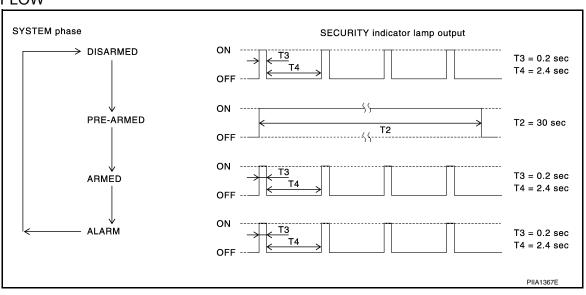
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System Description

INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to BCM	BCM system	Actuator
All door switches			
Trunk lamp switch and trunk release solenoid	Open or close		IPDM E/R Headlamp Horn
Door key cylinder switch			
Door lock and unlock switch	Lock or unlock	Vehicle security system	
Door request switch			Security indicator lamp
Intelligent Koy	Lock or unlock		
Intelligent Key	Panic alarm		

OPERATION FLOW



SETTING THE VEHICLE SECURITY SYSTEM

Initial Condition

Ignition switch is in OFF position.

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VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

Disarmed Phase

- When doors or trunk is open, the vehicle security system is set in the disarmed phase on the assumption that the owner is inside or near the vehicle.
- When the vehicle security system is in the disarmed phase, the security indicator lamp blinks every 2.4 seconds.

Pre-armed Phase and Armed Phase

When the following operation 1 or 2 is performed, the vehicle security system turns into the "pre-armed" phase. (The security indicator lamp illuminates.)

- BCM receives LOCK signal from front door key cylinder switch or Intelligent Key, after trunk and all doors are closed.
- 2. Trunk and all doors are closed after front doors are locked by key or door lock and unlock switch. The security indicator lamp illuminates for 30 seconds. Then, the system automatically shifts into the "armed" phase.

CANCELING THE SET VEHICLE SECURITY SYSTEM

When one of the following operations is performed, the armed phase is canceled.

- 1. Unlock the doors with the key or Intelligent Key.
- 2. Turn ignition switch to "ON" or "ACC" position.

CANCELING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

When unlocking the door with the key or Intelligent Key, the alarm operation is canceled.

ACTIVATING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

Check that the system is in the armed phase. (The security indicator lamp blinks every 2.4 seconds.) When the following operation 1 or 2 is performed, the system sounds the horns and flashes the headlamps for about 50 seconds.

- 1. Trunk or any door is opened during armed phase.
- 2. Disconnecting and connecting the battery connector before canceling armed phase.

PANIC ALARM OPERATION

Intelligent Key system will not operate horn and headlamps if the ignition switch is in the ACC or ON position. When the Intelligent Key system is triggered, ground is supplied intermittently to both headlamp relay and horn relay.

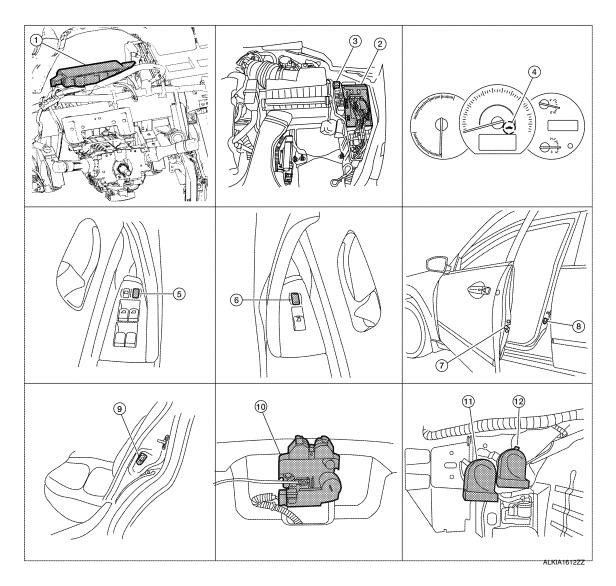
When headlamp relay and horn relay are energized, then power is supplied to headlamps (LH and RH) and horns (HIGH and LOW).

The headlamp flashes and the horn sounds intermittently.

The alarm automatically turns off after 50 seconds or when BCM receives any signal from Intelligent Key.

Component Parts Location

INFOID:0000000010051910



- BCM M16, M17, M18, M19, M21 (view with instrument panel removed)
- 4. Security indicator lamp
- 7. Front door lock assembly LH D10
- 10. Trunk lamp switch and trunk release solenoid T7
- 2. IPDM E/R E17, E18
- Main power window and door lock/un- 6. lock switch D7, D8
- 3. Front door switch LH B8 RH B108
- Horn (low) E215

 (view with front fender protector LH removed)
- 3. Horn relay H-1
- Power window and door lock/unlock switch RH D105
- Rear door switch LH B18 RH B116
- 12. Horn (high) E216

Component Description

INFOID:0000000010051911

Component	Reference
BCM	<u>SEC-19</u>
Horn relay	<u>SEC-88</u>
Security indicator	<u>SEC-92</u>
Door switch	DLK-67
Door lock actuator	DLK-97

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VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

Component	Reference
Trunk lid lock assembly	DLK-103
Door key cylinder switch	<u>DLK-77</u>
Door lock and unlock switch	<u>DLK-70</u>

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work support	Changes the setting for each system function.
Configuration	 Enables to read and save the vehicle specification. Enables to write the vehicle specification when replacing BCM.
CAN Diag Support Mntr	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct D	Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×			
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×	×		
Intelligent Key system	INTELLIGENT KEY			×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Trunk open	TRUNK			×	×			
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

INTELLIGENT KEY

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< SYSTEM DESCRIPTION >

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000010067236

DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH
REQ SW -BD/TR [On/Off]	×	Indicates condition of trunk opener request switch
PUSH SW [On/Off]		Indicates condition of push button ignition switch
IGN RLY2 -F/B [On/Off]		Indicates condition of ignition relay 2
ACC RLY -F/B [On/Off]		Indicates condition of accessory relay
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch
BRAKE SW 2 [On/Off]		Indicates condition of brake switch
DETE/CANCL SW [On/Off]	×	Indicates condition of P position
SFT PN/N SW [On/Off]	×	Indicates condition of P or N position
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor
PUSH SW -IPDM [On/Off]		Indicates condition of push button ignition switch received from IPDM E/R on CAN communication line
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line
SFT PN -IPDM [On/Off]		Indicates condition of P or N position from TCM on CAN communication line
SFT P -MET [On/Off]		Indicates condition of P position from TCM on CAN communication line
SFT N -MET [On/Off]		Indicates condition of N position from IPDM E/R on CAN communication line
ENGINE STATE [Stop/Start/Crank/Run]	×	Indicates condition of engine state from ECM on CAN communication line
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
KEY SW -SLOT [On/Off]		Indicates condition of key slot.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk lid.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-TR/BD [On/Off]		Indicates condition of trunk open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-P/W OPEN [On/Off]		Indicates condition of power window down signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
REVERSE SW [On/Off]		Indicates condition of reverse switch status.

< SYSTEM DESCRIPTION >

ACTIVE TEST

Test Item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
PW REMOTO DOWN SET	This test is able to check power window down operation [On/Off].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [Off/On].
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Key/Knob/Take Out/Off].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY IND/KEY ON/Off].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
LCD	This test is able to check combination meter display information [Off/LK WN/OUTKEY/NO KY/BATT/INSRT/SFT P/ROTAT/ID NG/BP I/BP N].
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation [Open].
FLASHER	This test is able to check hazard lamp operation [Off/LH/RH].
HORN	This test is able to check horn operation [On].
P RANGE	This test is able to check CVT shift selector illumination operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push button ignition switch illumination operation [On/Off].
LOCK INDICATOR	This test is able to check LOCK indicator in push button ignition switch operation [On/Off].
ACC INDICATOR	This test is able to check ACC indicator in push button ignition switch operation [On/Off].
IGNITION ON IND	This test is able to check ignition ON indicator in push button ignition switch operation [On/Off].
KEY SLOT ILLUMI	This test is able to check key slot illumination operation [On/Off].
TRUNK/BACK DOOR	This test is able to check trunk lid opener actuator operation [Open].

WORK SUPPORT

Support Item	Setting		Description		
	MEMORY 1				
	MEMORY 2				
CONFIRM KEY FOB ID	MEMORY 3		Intelligent Key ID code can be checked.	SI	
	MEMORY 4				
	NON REGIST				
_	MODE 4	2 min		_ '	
ALITO LOOK OFT	MODE 3	30 sec	1		
AUTO LOCK SET	MODE 2	5 min	Auto door lock time can be set in this mode.	[\	
	MODE 1*	1 min			
	On*		Door lock/unlock function from Intelligent Key ON.	_	
LOCK/UNLOCK BY I-KEY	Off		Door lock/unlock function from Intelligent Key OFF.	-	
ENGINE START BY I-KEY	On*		Engine start function from Intelligent Key ON.	_	
ENGINE START BY I-KEY	Off		Engine start function from Intelligent Key OFF.	_ (
TRUNKICI ACCULATOU ODEN	On*		Buzzer reminder function by trunk opener request switch ON.	_	
TRUNK/GLASS HATCH OPEN	Off		Buzzer reminder function by trunk opener request switch OFF.		
	MODE 3	1.5 sec		- -	
PANIC ALARM SET	MODE 2	OFF	Panic alarm button set time on Intelligent Key can be set in this mode.		
	MODE 1*	0.5 sec			
	MODE 3	5 sec		=	
PW DOWN SET	MODE 2	OFF	Unlock button press time on Intelligent Key to lower front window can be set in this mode.		
	MODE 1*		_ be set in this mode.		

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< SYSTEM DESCRIPTION >

Support Item	Se	tting	Description		
TRUNK OPEN DELAY	MODE 3	1.5 sec	Trunk button pressing time on Intelligent Key button can be selecte from the following with this mode.		
	MODE 2	OFF			
	MODE 1*	0.5 sec	3		
LO- BATT OF KEY FOB WARN	On*		Intelligent Key low battery warning mode ON.		
LO- BATT OF RET FOR WARN	Off		Intelligent Key low battery warning mode OFF.		
ANTI KEY LOCK IN FUNCTI	On*		Key reminder function mode ON.		
ANTI RET LOCK IN FUNCTI	Off		Key reminder function mode OFF.		
HAZARD ANSWER BACK	Lock/Unlo	ck*	Hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.		
	Unlock On	ıly	Hazard warning lamp activation when doors are unlocked with Intelligent Key.		
	Lock Only		Hazard warning lamp activation when doors are locked with Intelligent Key.		
	Off		No hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.		
	Horn Chirp)	Horn chirp reminder when doors are unlocked with Intelligent Key		
ANS BACK I-KEY LOCK	Buzzer*		Buzzer or horn chirp reminder when doors are unlocked with Intell gent Key		
	Off		No buzzer or horn chirp reminder when doors are unlocked with Intelligent Key		
ANS BACK I-KEY UNLOCK	Off		No buzzer or horn chirp reminder when doors are unlocked with Intelligent Key		
ANS BACK FRET UNLOCK	On*		Buzzer or horn chirp reminder when doors are unlocked with Intelligent Key		
		70 msec			
SHORT CRANKING OUTPUT	Start	100 msec	Starter motor operation duration times.		
SHORT GRAINKING OUTPUT		200 msec			
	End	•			
INSIDE ANT DIAGNOSIS	Start		This function allows inside key antenna self-diagnosis.		
HORN WITH KEYLESS LOCK	Off		No horn reminder activation when doors are locked with Intelligent Key.		
	On*		Horn reminder activation when doors are locked with Intelligent Ke		

^{*:} Initial Setting

IMMU

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000010067238

SELF DIAGNOSTIC RESULT Refer to <u>BCS-64</u>, "<u>DTC Index"</u>.

DATA MONITOR

Monitor Item [Unit]	Description				
CONFRM ID ALL [Yet/DONE]					
CONFIRM ID4 [Yet/DONE]					
CONFIRM ID3 [Yet/DONE]	Switches to DONE when a registered Intelligent Key is inserted into the key slot.				
CONFIRM ID2 [Yet/DONE]					
CONFIRM ID1 [Yet/DONE]					

Monitor Item [Unit]	Description
TP 4 [Yet/DONE]	
TP 3 [Yet/DONE]	DONE indicates the more hand flatellines to Key ID which has been presidented
TP 2 [Yet/DONE]	DONE indicates the number of Intelligent Key ID which has been registered.
TP 1 [Yet/DONE]	
PUSH SW [On/Off]	Indicates condition of push button ignition switch
KEY SW -SLOT [On/Off]	Indicates condition of key slot
ACTIVE TEST	
Test Item	Description
THEFT IND	This test is able to check security indicator operation [On/Off].
THEFT ALM	
THEFT ALM : CONSI	ULT Function (BCM - THEFT ALM)
	·
DATA MONITOR	
Monitored Item	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH
REQ SW -AS [On/Off]	Indicates condition of door request switch RH
REQ SW -BD/TR [On/Off]	Indicates condition of trunk opener request switch
PUSH SW [On/Off]	Indicates condition of push button ignition switch
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor
KEY SW -SLOT [On/Off]	Indicates condition of key slot
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH
DOOR SW-BK [On/Off]	Indicates condition of trunk switch
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch
TR/BD OPEN SW [On/Off]	Indicates condition of trunk lid opener switch
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp switch
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key
RKE-TR/BD [On/Off]	Indicates condition of trunk open signal from Intelligent Key
ACTIVE TEST	
ACTIVE TEST Test Item	Description
	Description This test is able to check security indicator lamp operation [On/Off].
Test Item	·

WORK SUPPORT

FLASHER

This test is able to check turn signal lamp operation [Off/LH/RH].

< SYSTEM DESCRIPTION >

Support Item	Setting	Description
SECURITY ALARM SET	On	Security alarm ON
SECURITY ALARINI SET	Off	Security alarm OFF
	Off/On	The switch which triggered vehicle security alarm is recorded [On]. This mode is able
THEFT ALM TRG	CLEAR	to confirm and erase the record of vehicle security alarm. The trigger data can be erased by touching [CLEAR].

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000010051916

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart, refer to LAN-24, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

CONSULT dis- play description	DTC Detection Condition	Possible cause	F
CAN COMM CIR- CUIT [U1000]	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. • Transmission • Receiving (ECM) • Receiving (VDC/TCS/ABS) • Receiving (METER/M&A) • Receiving (TCM) • Receiving (MULTI AV) • Receiving (IPDM E/R)	G

Diagnosis Procedure

INFOID:0000000010051918

1.PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.

2. Check "Self Diagnostic Result".

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-7, "CAN Communication Control Circuit".

NO >> Refer to GI-41, "Intermittent Incident".

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

CONSULT display description	DTC Detection Condition	Possible cause
CAN COMM CIRCUIT [U1010]	BCM detected internal CAN communication circuit malfunction.	ВСМ

Diagnosis Procedure

INFOID:0000000010051920

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-79, "Removal and Installation".

P1610 LOCK MODE < DTC/CIRCUIT DIAGNOSIS > P1610 LOCK MODE Α Description INFOID:0000000010051921 Performs ID verification through BCM and Intelligent Key when push-button ignition switch is pressed. В Prohibits the start of engine when an unregistered ID of Intelligent Key is used. DTC Logic INFOID:0000000010051922 DTC DETECTION LOGIC Trouble diagnosis D DTC No. DTC detecting condition Possible cause name · Harness or connectors (The key slot circuit is open or Е Inactive communication between key slot and LOCK MODE P1610 shorted) BCM. · Key slot • BCM DTC CONFIRMATION PROCEDURE ${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE Insert Intelligent Key into the key slot. Check "Self Diagnostic Result" with CONSULT. Is DTC detected?

>> Refer to SEC-31, "Diagnosis Procedure".

1. Press the push-button ignition switch.

Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES

YES >> Refer to <u>SEC-31</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram".

1. INSPECTION START

Check the case in which DTC is detected.

- Case1: It is detected when Intelligent Key is inserted into key slot.
- Case2: It is detected after Intelligent Key is inserted into key slot and push-button ignition switch is pressed.

In which case is DTC detected?

Case1. >> GO TO 2 Case2. >> GO TO 4

2.CHECK KEY SLOT INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect key slot harness connector.

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P1610 LOCK MODE

< DTC/CIRCUIT DIAGNOSIS >

Check voltage between key slot harness connector M40 terminal 2 and ground.

Key	slot slot	Ground	Voltage [V]
Connector Terminal		Ground	(approx.)
M40	2	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>SEC-163</u>, "Removal and <u>Installation"</u>.

NO >> GO TO 3

3.CHECK KEY SLOT CIRCUIT

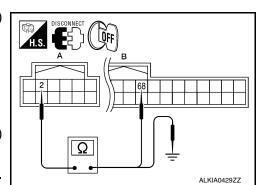
1. Disconnect BCM harness connector.

Check continuity between key slot harness connector M40 (A) terminal 2 and BCM harness connector M19 (B) terminal 68.

Key slot		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: M40	2	B: M19	68	Yes

Check continuity between key slot harness connector M40 (A) terminal 2 and ground.

Key	slot	Ground	Continuity
Connector	Connector Terminal		Continuity
A: M40	2	Ground	No



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Is the inspection result normal?

YES >> GO TO 8

NO >> Repair harness or connector.

4. CHECK PUSH-IGNITION SWITCH OPERATION

Press push-button ignition switch and check if it turns ON.

Does ignition switch turn to ON?

YES >> GO TO 5 NO >> GO TO 7

5.check key slot communication signal

- Turn ignition switch OFF.
- 2. Disconnect key slot harness connector.
- Check voltage between key slot harness connector M40 terminal 3 and ground.

Key	slot	Ground	Voltage [V]	
Connector Terminal		Ground	(approx.)	
M40	3	Ground	Battery voltage	

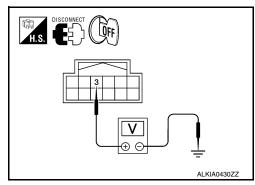
Is the inspection result normal?

YES >> Replace key slot. Refer to <u>SEC-163, "Removal and Installation".</u>

NO >> GO TO 6

$\mathsf{6}.$ CHECK KEY SLOT COMMUNICATION SIGNAL CIRCUIT

1. Disconnect BCM harness connector.



P1610 LOCK MODE

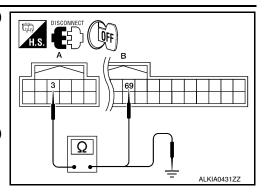
< DTC/CIRCUIT DIAGNOSIS >

Check continuity between key slot harness connector M40 (A) terminal 3 and BCM harness connector M19 (B) terminal 69.

Key slot		ВСМ		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: M40	3	B: M19	69	Yes

3. Check continuity between key slot harness connector M40 (A) terminal 3 and ground.

Key	slot	Ground	Continuity
Connector	Terminal	Ground	Continuity
A: M40	3	Ground	No



Is the inspection result normal?

YES >> GO TO 8

NO >> Repair harness or connector.

7.CHECK KEY SLOT GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect key slot harness connector.
- 3. Check continuity between key slot harness connector M40 terminal 7 and ground.

Key	slot	Ground	Continuity
Connector Terminal		Ground	Continuity
M40	7	Ground	Yes

Is the inspection result normal?

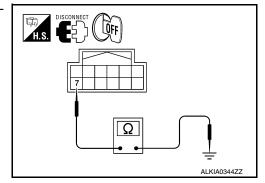
YES >> GO TO 8

NO >> Repair harness or connector.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.



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P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

P1611 ID DISCORD, IMMU-ECM

Description INFOID:000000010051924

BCM performs the ID verification with ECM that allows the engine to start. Start the engine if the ID is OK. ECM prevents the engine from starting if the ID is not registered. BCM starts the communication with ECM if ignition switch is turned ON.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC P1611 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-29</u>, "DTC Logic".
- If DTC P1611 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-30, "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1611	ID DISCORD, IMMU- ECM	The ID verification results between BCM and ECM are NG. The registration is necessary.	• BCM • ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions:
- CVT selector lever is in the P or N position.
- Do not depress the brake pedal.
- 2. Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-34, "Diagnosis Procedure"</u>.

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010051926

1. PERFORM INITIALIZATION

Perform initialization with CONSULT. Re-register all Intelligent Keys.

For initialization and registration of Intelligent Key, refer to "CONSULT Immobilizer mode and follow the onscreen instructions.

Can the system be initialized and can the engine be started with re-registered Intelligent Key?

YES >> ID was unregistered.

NO >> BCM is malfunctioning.

- Replace BCM. Refer to BCS-79, "Removal and Installation".
- · Perform initialization again.
- · Replace ECM.

P1612 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

P1612 CHAIN OF ECM-IMMU

Description INFOID:0000000010051927

BCM performs the ID verification with ECM that allows the engine to start. Start the engine if the ID is OK. ECM prevents the engine from starting if the ID is not registered. BCM starts the communication with ECM if ignition switch is turned ON.

DTC Logic INFOID:0000000010051928

DTC DETECTION LOGIC

NOTE:

- If DTC P1612 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC P1612 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1612	CHAIN OF ECM- IMMU	Inactive communication between ECM and BCM.	Harness or connectors (The CAN communication line is open or shorted) BCM ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON under the following conditions:
- CVT selector lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

>> Refer to SEC-35, "Diagnosis Procedure". YES

NO >> Inspection End.

Diagnosis Procedure

1.REPLACE BCM

- Replace BCM. Refer to BCS-79, "Removal and Installation".
- Perform initialization with CONSULT.

For initialization, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

Does the engine start?

YES >> BCM is malfunctioning.

- Replace BCM. Refer to BCS-79, "Removal and Installation".
- Perform initialization again.

NO >> ECM is malfunctioning.

- · Replace ECM.
- · Perform ECM re-communicating function.

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SEC-35 Revision: August 2013 2014 Maxima NAM

INFOID:0000000010051929

P1615 DIFFRENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

P1615 DIFFRENCE OF KEY

Description INFOID:000000010051930

Performs ID verification through BCM and Intelligent Key when push-button ignition switch is pressed. Prohibits the start of engine when an unregistered ID of Intelligent Key is used.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1615	DIFFERENCE OF KEY	The ID verification results between BCM and Intelligent Key are NG. The registration is necessary.	Intelligent Key

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Insert the Intelligent Key in the key slot. Press the push-button ignition switch.
- 2. Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-36</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010051932

1.PERFORM INITIALIZATION

Perform initialization with CONSULT. Re-register all Intelligent Keys.

For initialization and registration of Intelligent Key, refer to CONSULT Immobilizer mode and follow the onscreen instructions.

Can the system be initialized and can the engine be started with re-registered Intelligent Key?

YES >> Intelligent Key was unregistered.

NO >> BCM is malfunctioning.

- Replace BCM. Refer to BCS-79, "Removal and Installation".
- · Perform initialization again.

B2190 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

B2190 NATS ANTENNA AMP.

Description INFOID:0000000010051933

Performs ID verification through BCM and Intelligent Key when push-button ignition switch is pressed. Prohibits the start of engine when an unregistered ID of Intelligent Key is used.

DTC Logic INFOID:0000000010051934

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2190	NATS ANTENNA AMP	Inactive communication between key slot and BCM.	Harness or connectors (The key slot circuit is open or shorted) Key slot BCM

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

- Insert Intelligent Key into the key slot.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to SEC-37, "Diagnosis Procedure".

NO >> GO TO 2

2.perform dtc confirmation procedure

- Press the push-button ignition switch.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to SEC-37, "Diagnosis Procedure".

>> Inspection End. NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram".

1. INSPECTION START

Check the case in which DTC is detected.

- Case1: It is detected when Intelligent Key is inserted into key slot.
- Case2: It is detected after Intelligent Key is inserted into key slot and push-button ignition switch is pressed.

In which case is DTC detected?

Case1. >> GO TO 2 Case2. >> GO TO 4

2.CHECK KEY SLOT INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect key slot harness connector.

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B2190 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

Check voltage between key slot harness connector M40 terminal 2 and ground.

Key	slot slot	Ground	Voltage [V]	
Connector Terminal		Ground	(approx.)	
M40	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>SEC-163</u>, "Removal and <u>Installation"</u>.

NO >> GO TO 3

3.CHECK KEY SLOT CIRCUIT

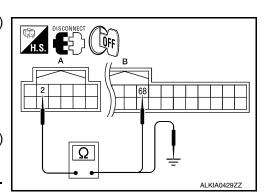
1. Disconnect BCM harness connector.

Check continuity between key slot harness connector M40 (A) terminal 2 and BCM harness connector M19 (B) terminal 68.

Key slot		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: M40	2	B: M19	68	Yes

Check continuity between key slot harness connector M40 (A) terminal 2 and ground.

Key	slot	Ground	Continuity
Connector	Connector Terminal		Continuity
A: M40	2	Ground	No



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Is the inspection result normal?

YES >> GO TO 8

NO >> Repair harness or connector.

4. CHECK PUSH-IGNITION SWITCH OPERATION

Press push-button ignition switch and check if it turns ON.

Does ignition switch turn to ON?

YES >> GO TO 5 NO >> GO TO 7

5. CHECK KEY SLOT COMMUNICATION SIGNAL

- Turn ignition switch OFF.
- Disconnect key slot harness connector.
- Check voltage between key slot harness connector M40 terminal 3 and ground.

Key	slot	Ground	Voltage [V]	
Connector Terminal		Ground	(approx.)	
M40	3	Ground	Battery voltage	

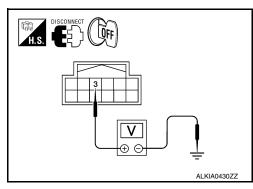
Is the inspection result normal?

YES >> Replace key slot. Refer to <u>SEC-163</u>, "Removal and Installation".

NO >> GO TO 6

$\mathsf{6}.$ CHECK KEY SLOT COMMUNICATION SIGNAL CIRCUIT

1. Disconnect BCM harness connector.



B2190 NATS ANTENNA AMP.

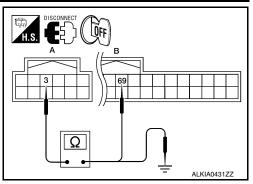
< DTC/CIRCUIT DIAGNOSIS >

Check continuity between key slot harness connector M40 (A) terminal 3 and BCM harness connector M19 (B) terminal 69.

Key slot		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: M40	3	B: M19	69	Yes

3. Check continuity between key slot harness connector M40 (A) terminal 3 and ground.

Key	slot	Ground	Continuity
Connector Terminal		Ground	Continuity
A: M40	3	Ground	No



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Is the inspection result normal?

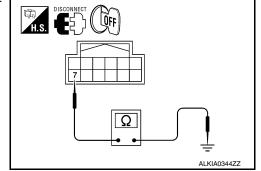
YES >> GO TO 8

NO >> Repair harness or connector.

7.CHECK KEY SLOT GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect key slot harness connector.
- Check continuity between key slot harness connector M40 terminal 7 and ground.

Key	slot	Ground	Continuity
Connector Terminal		Ground	Continuity
M40	7	Ground	Yes



Is the inspection result normal?

YES >> GO TO 8

NO >> Repair harness or connector.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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B2191 DIFFERENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

B2191 DIFFERENCE OF KEY

Description INFOID:0000000010051936

Performs ID verification through BCM and Intelligent Key when push-button ignition switch is pressed. Prohibits the start of engine when an unregistered ID of Intelligent Key is used.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2191	DIFFERENCE OF KEY	The ID verification results between BCM and Intelligent Key are NG. The registration is necessary.	Intelligent Key

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Insert the Intelligent Key in the key slot. Press the push-button ignition switch.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-40</u>, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010051938

1. PERFORM INITIALIZATION

Perform initialization with CONSULT. Re-register all Intelligent Keys.

For initialization and registration of Intelligent Key, refer to CONSULT Immobilizer mode and follow the onscreen instructions.

Can the system be initialized and can the engine be started with re-registered Intelligent Key?

YES >> Intelligent Key was unregistered.

NO >> BCM is malfunctioning.

- Replace BCM. Refer to BCS-79, "Removal and Installation".
- · Perform initialization again.

B2192 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

B2192 ID DISCORD, IMMU-ECM

Description INFOID:0000000010051939

BCM performs the ID verification with ECM that allows the engine to start. Start the engine if the ID is OK. ECM prevents the engine from starting if the ID is not registered. BCM starts the communication with ECM if ignition switch is turned ON.

DTC Logic INFOID:0000000010051940

DTC DETECTION LOGIC

NOTE:

- If DTC B2192 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B2192 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2192	ID DISCORD, IMMU- ECM	The ID verification results between BCM and ECM are NG. The registration is necessary.	• BCM • ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON under the following conditions:
- CVT selector lever is in the P or N position.
- Do not depress the brake pedal.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to SEC-41, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

1.PERFORM INITIALIZATION

Perform initialization with CONSULT. Re-register all Intelligent Keys.

For initialization and registration of Intelligent Key, refer to CONSULT Immobilizer mode and follow the onscreen instructions.

Can the system be initialized and can the engine be started with re-registered Intelligent Key?

YES >> ID was unregistered.

NO >> BCM is malfunctioning.

- Replace BCM. Refer to BCS-79, "Removal and Installation".
- Perform initialization again.
- Replace ECM.

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SEC-41 Revision: August 2013 2014 Maxima NAM

B2193 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

B2193 CHAIN OF ECM-IMMU

Description INFOID:000000010051942

BCM performs the ID verification with ECM that allows the engine to start. Start the engine if the ID is OK. ECM prevents the engine from starting if the ID is not registered. BCM starts the communication with ECM if ignition switch is turned ON.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2193 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-29</u>, "DTC Logic".
- If DTC B2193 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-30</u>, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2193	CHAIN OF ECM- IMMU	Inactive communication between ECM and BCM.	Harness or connectors (The CAN communication line is open or shorted) BCM ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions:
- CVT selector lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-42</u>, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010051944

1.REPLACE BCM

- 1. Replace BCM. Refer to BCS-79, "Removal and Installation".
- 2. Perform initialization with CONSULT.

For initialization, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

Does the engine start?

YES >> BCM is malfunctioning.

- Replace BCM. Refer to BCS-79, "Removal and Installation".
- Perform initialization again.

NO >> ECM is malfunctioning.

- · Replace ECM.
- · Perform ECM re-communicating function.

B2555 STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

B2555 STOP LAMP

Description INFOID:000000010051945

BCM detects the stop lamp status and confirms the stop lamp switch ON/OFF status. BCM confirms the engine start condition according to the stop lamp switch ON/OFF status.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagno- sis name	DTC detecting condition	Possible cause
B2555	STOP LAMP	BCM makes a comparison between the upper voltage and lower voltage of stop lamp switch. It judges from their values to detect the malfunctioning circuit.	Harness or connectors (stop lamp switch circuit is open or shorted) Stop lamp switch Fuse

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Depress the brake pedal and wait for at least 1 second.
- 2. Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-43</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

1. CHECK STOP LAMP SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector.
- 3. Check voltage between BCM harness connector M18 terminal 26 and ground.

BCM		Ground	Stop lamp	Voltage [V]	
Connector	Terminal	Ground	switch position	voitage [v]	
M18	26	Ground	Depressed	Battery volt- age	
			Released	0	

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Is the inspection result normal?

YES >> Stop lamp switch is OK.

NO >> GO TO 2

2.CHECK STOP LAMP SWITCH POWER SUPPLY CIRCUIT

1. Disconnect stop lamp switch harness connector.

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Revision: August 2013 SEC-43 2014 Maxima NAM

B2555 STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

Check voltage between stop lamp harness connector E38 terminal 3 and ground.

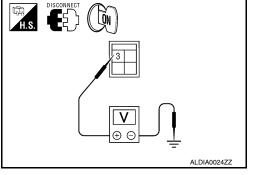
Stop lamp switch		Ground	Voltage [V]
Connector	Connector Terminal		
E38	3	Ground	Battery voltage



Is the inspection result normal?

YES >> GO TO 3

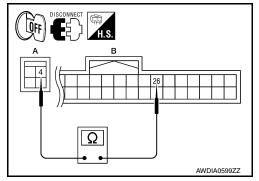
NO >> Check harness for open or short between stop lamp switch and fuse.



3.check stop lamp switch circuit

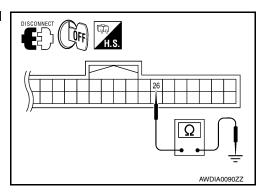
Check continuity between stop lamp switch harness connector E38 (A) terminal 4 and BCM harness connector M18 (B) terminal 26.

Stop lamp switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: E38	4	B: M18	26	Yes



Check continuity between BCM harness connector M18 terminal 26 and ground.

В	BCM		Continuity	
Connector	Terminal	Ground	Continuity	
M18	26	Ground	No	



Is the inspection result normal?

YES >> GO TO 4

>> Repair harness or connector. NO

4. CHECK STOP LAMP SWITCH

Refer to SEC-44, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace stop lamp switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000010051948

1. CHECK STOP LAMP SWITCH

- Turn ignition switch OFF.
- Disconnect stop lamp switch harness connector.

B2555 STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between stop lamp switch terminals under the following conditions.

Stop lan	np switch	- Condition Conti		Continuity
Terr	minal			Continuity
3	4	Brake pedal	Not depressed	No
3	4	Brake pedai	Depressed	Yes

DISCONNECT 3 4 Q AWDIA0419ZZ

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace stop lamp switch.

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B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2556 PUSH-BUTTON IGNITION SWITCH

Description INFOID:0000000010051949

The switch that changes the power supply position. BCM maintains the power supply position status. BCM changes the power supply position with the operation of the push-button ignition switch.

DTC Logic INFOID:0000000010051950

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2556	PUSH-BUTTON IG- NITION SWITCH	BCM detects the push-button ignition switch stuck to ON for 100 seconds or more.	Harness or connectors (Push-button ignition switch circuit is shorted.) Push-button ignition switch

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

- Start the engine and wait for at least 100 seconds.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to SEC-46, "Diagnosis Procedure".

>> Inspection End. NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

${f 1}$.CHECK PUSH-BUTTON IGNITION SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect push-button ignition switch harness connector. 2.
- Check voltage between push-button ignition switch harness connector M38 terminal 4 and ground.

Push-button ignition switch		Ground	Voltage [V]
Connector	Terminal	Ground	voitage [v]
M38	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2 NO >> GO TO 4

2.CHECK PUSH-BUTTON IGNITION SWITCH

Refer to SEC-47, "Component Inspection".

Is the inspection result normal?

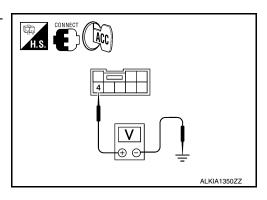
YES >> GO TO 3

NO >> Replace push-button ignition switch. Refer to SEC-164, "Removal and Installation".

3.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.



INFOID:0000000010051951

B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT FOR SHORT

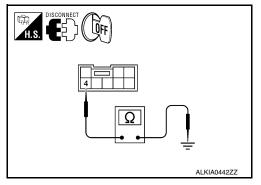
- Disconnect BCM harness connector and IPDM E/R harness connector.
- Check continuity between push-button ignition switch harness connector M38 terminal 4 and ground.

Push-button ignition switch		Ground	Continuity
Connector	Terminal	Ground	Continuity
M38	4	Ground	No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installa-

NO >> Repair harness or connector.



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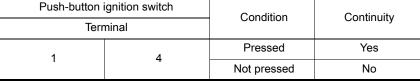
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Component Inspection

1. CHECK PUSH-BUTTON IGNITION SWITCH

- Turn ignition switch OFF.
- Disconnect push-button ignition switch harness connector.
- Check continuity between push-button ignition switch terminals under the following conditions.

Push-button ignition switch		Condition	Continuity
Terminal		Condition	
1	4	Pressed	Yes
I	4	Not pressed	No

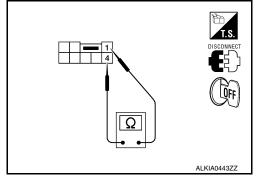


Is the inspection result normal?

YES >> Inspection End.

NO

>> Replace push-button ignition switch. Refer to <u>SEC-164.</u> "Removal and Installation".



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SEC-47 Revision: August 2013 2014 Maxima NAM

B2557 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

B2557 VEHICLE SPEED

Description INFOID:000000010051953

BCM receives the 2 vehicle speed signals via CAN communication. One signal is transmitted by the "combination meter". Another signal is transmitted by "ABS actuator and electric unit (control unit)". BCM compares both signals to detect the vehicle speed.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2557 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B2557 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-30</u>, "DTC Logic".

DTC	Self-diagnosis name	DTC detecting condition	Possible causes
B2557	VEHICLE SPEED	BCM detects the following difference between the vehicle speed from "combination meter" and the one from "ABS actuator and electric unit" for 10 seconds continuously One is 10 km/h or more and the other is 4 km/h or less.	Wheel sensor Combination meter ABS actuator and electric unit (control unit)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Drive the vehicle at the vehicle speed of 10 km/h or more and wait for at least 10 seconds.
- 2. Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-48</u>, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010051955

1. CHECK DTC WITH "ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)"

Check "Self Diagnostic Result" with CONSULT. Refer to BRC-82, "DTC No. Index".

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace malfunctioning parts.

2.CHECK COMBINATION METER.

Check combination meter. Refer to MWI-4, "Work Flow".

>> Inspection End.

B2560 STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

B2560 STARTER CONTROL RELAY

Description INFOID:0000000010051956

Starter control relay, integrated in IPDM E/R, permits the starter relay operation when in N or P position. It is installed in parallel with the starter relay.

DTC Logic INFOID:0000000010051957

DTC DETECTION LOGIC

NOTE:

- If DTC B2560 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B2560 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".

DTC	Self-diagnosis name	DTC detecting condition	Possible causes
B2560	STARTER CONTROL RELAY	BCM detects a mismatch between the OFF request of starter control relay to IPDM E/R and the feedback. (The feedback is ON instead of OFF.)	• IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON under the following conditions and wait for at least 2 seconds:
- CVT selector lever is in the P position.
- Depress the brake pedal.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

>> Refer to SEC-49, "Diagnosis Procedure". YES

>> Inspection End.

Diagnosis Procedure

Check "Self Diagnostic Result" with CONSULT. Refer to PCS-27, "DTC Index".

Is the inspection result normal?

1. CHECK DTC WITH IPDM E/R

YES >> GO TO 2

NO >> Repair or replace malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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2014 Maxima NAM

Revision: August 2013

B2601 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

B2601 SHIFT POSITION

Description

BCM confirms the shift position with the following 2 signals.

- CVT selector lever
- P position signal from IPDM E/R (CAN)

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2601 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B2601 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".
- If DTC B2601 is displayed with DTC B2605, first perform the trouble diagnosis for DTC B2605. Refer to <u>SEC-61, "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2601	SHIFT POSITION	BCM detects when a difference between the shift P input signal and the shift position signal received from IPDM E/R via CAN communication continues for 2 seconds or more	Harness or connectors (CVT shift selector circuit is open or shorted.) CVT shift selector

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions, and wait for at least 2 seconds.
- CVT selector lever is in the P position.
- Do not depress the brake pedal.
- Check "Self diagnostic result" with CONSULT.
- 3. Turn ignition switch ON under the following conditions, and wait for at least 2 seconds.
- CVT selector lever is in other than P position.
- Do not depress the brake pedal.
- 4. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-50</u>, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010051961

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

1. CHECK CVT SHIFT SELECTOR POWER SUPPLY

- Turn ignition switch to ACC.
- 2. Disconnect CVT shift selector harness connector.

B2601 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

Check voltage between CVT shift selector harness connector M78 terminal 8 and ground.

CVT shift selector (park position switch)		Ground	Voltage [V]	
Connector	Terminal	Ground	voltage [v]	
M78	8	Ground	Battery voltage	

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Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

$2.\mathsf{CHECK}$ CVT SHIFT SELECTOR POWER SUPPLY CIRCUIT

- Disconnect BCM harness connector.
- Check continuity between BCM harness connector M19 (A) terminal 84 and CVT shift selector harness connector M78 (B) terminal 8.

В	СМ	CVT shift selector (park position switch)		Continuity
Connector	Terminal	Connector	Terminal	
A: M19	84	B: M78	8	Yes

Check continuity between BCM harness connector M19 (A) terminal 84 and ground.

H.S. DISCONNECT OFF
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всм		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
A: M19	84	Ground	No	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Repair harness or connector.

3.CHECK CVT SHIFT SELECTOR CIRCUIT (BCM)

- 1. Disconnect BCM harness connector and IPDM E/R harness connector.
- Check continuity between BCM harness connector M19 (A) terminal 87 and CVT shift selector harness connector M78 (B) terminal 9.

В	СМ	CVT shift selector (park position switch)		Continuity
Connector	Terminal	Connector	Terminal	
A: M19	87	B: M78	9	Yes

Check continuity between BCM harness connector M19 (A) terminal 87 and ground.

DISCONNECT OFF
A 87
Ω ALKIA0446ZZ

ВСМ		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
A: M19	87	Ground	No	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK CVT SHIFT SELECTOR CIRCUIT (IPDM E/R)

1. Disconnect IPDM E/R harness connector.

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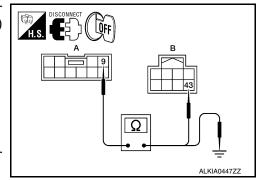
B2601 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

 Check continuity between CVT shift selector harness connector M78 (A) terminal 9 and IPDM E/R harness connector E17 (B) terminal 43.

	CVT shift selector park position switch) IPDM E/R		Continuity	
Connector	Terminal	Connector	Terminal	
A: M78	9	B: E17	43	Yes

3. Check continuity between CVT shift selector harness connector M78 (A) terminal 9 and ground.



CVT shift selector (park position switch)		Ground	Continuity	
Connector	Terminal			
A: M78	9	Ground	No	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair harness or connector.

CHECK CVT SHIFT SELECTOR

Refer to SEC-52, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace CVT shift selector. Refer to TM-170, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

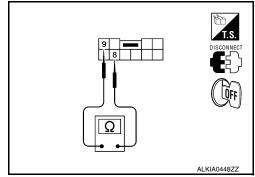
Component Inspection

INFOID:0000000010051962

1. CHECK CVT SHIFT SELECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect CVT shift selector harness connector.
- 3. Check continuity between CVT shift selector terminals as follows.

	elector (park n switch)	Condition		Continuity
Terr	minal			
8	9	CVT selector le-	P position	No
0 9	9	ver	Other than above	Yes



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace CVT shift selector. Refer to TM-170, "Removal and Installation".

B2602 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

B2602 SHIFT POSITION

Description INFOID:0000000010051963

BCM confirms the shift position with the following 2 signals.

- CVT selector lever
- · Speed signal from meter

DTC Logic INFOID:0000000010051964

DTC DETECTION LOGIC

NOTE:

 If DTC B2602 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".

 If DTC B2602 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2602	SHIFT POSITION	BCM detects the following status for 10 seconds. Shift position is in P position Vehicle speed is 4km/h (2 MPH) or more Ignition switch is in the ON position	Harness or connectors (CVT drive circuit is open or shorted) CVT shift selector Combination meter

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Start the engine under the following conditions and wait for at least 10 seconds.
- CVT selector lever is in the P or N position
- Depress the brake pedal.
- Drive the vehicle for at least 10 seconds at a speed greater than 4 km/h (2 MPH).
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-53</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

1. CHECK DTC WITH "COMBINATION METER"

Check "Self diagnostic result" with CONSULT. Refer to PCS-27, "DTC_Index".

Is the inspection result normal?

YFS >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK CVT SHIFT SELECTOR POWER SUPPLY

- Turn ignition switch to ACC.
- Disconnect CVT shift selector harness connector.

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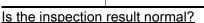
SEC-53 Revision: August 2013 2014 Maxima NAM

B2602 SHIFT POSITION

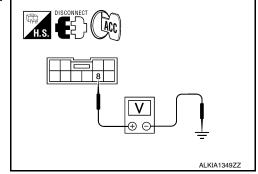
< DTC/CIRCUIT DIAGNOSIS >

3. Check voltage between CVT shift selector harness connector M78 terminal 8 and ground.

CVT shift selector		Ground	Voltage [V]	
Connector	Terminal	Ground	voltage [v]	
M78	8	Ground	Battery voltage	



YES >> GO TO 4. NO >> GO TO 3.



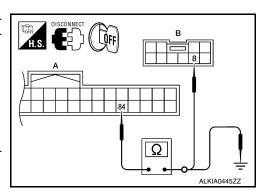
3.CHECK CVT SHIFT SELECTOR POWER SUPPLY CIRCUIT

- 1. Disconnect BCM harness connector.
- Check continuity between BCM harness connector M19 (A) terminal 84 and CVT shift selector harness connector M78 (B) terminal 8.

В	CM	CVT shif	t selector	Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: M19	84	B: M78	8	Yes

Check continuity between BCM harness connector M19 (A) terminal 84 and ground.

ВСМ		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
A: M19	84	Ground	No	



Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Repair harness or connector.

4. CHECK CVT SHIFT SELECTOR CIRCUIT

- 1. Disconnect BCM harness connector.
- Check continuity between CVT shift selector harness connector M78 (B) terminal 9 and BCM harness connector M19 (A) terminal 87.

ВСМ		CVT shift selector		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: M19	87	B: M78	9	Yes

Check continuity between BCM harness connector M19 (A) terminal 87 and ground.

ВСМ		Ground	Continuity
Connector	Terminal	Ground	Continuity
A: M19	87	Ground	No

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair harness or connector.

CHECK CVT SHIFT SELECTOR

Refer to SEC-52, "Component Inspection".

Is the inspection result normal?

B2602 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 6.

NO >> Replace CVT shift selector. Refer to TM-170, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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B2603 SHIFT POSITION STATUS

< DTC/CIRCUIT DIAGNOSIS >

B2603 SHIFT POSITION STATUS

Description INFOID:000000010051966

BCM confirms the shift position with the following 2 signals.

- CVT selector lever
- P/N position switch

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2603 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B2603 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-30, "DTC Logic"</u>.

DTC	Self-diagnosis name	DTC detecting condition	Possible causes
B2603	SHIFT POSITION STATUS	BCM detects the followings status for 500 ms or more when shift is in P position and, ignition switch is in ON position. • transmission range switch: approx. 0V • CVT shift selector: approx. 0V	Harness or connector (CVT shift selector circuit is open or shorted.) Harness or connectors [transmission range switch circuit is open or shorted.] CVT shift selector Transmission range switch

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Start the engine under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P position.
- Do not depress the brake pedal.
- 2. Shift to N and wait for at least 1 second.
- 3. Shift to any gear other than P or N and wait for at least 1 second.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-56</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010051968

Regarding Wiring Diagram information, refer to <u>SEC-147, "Wiring Diagram"</u> or <u>SEC-128, "Wiring Diagram"</u>.

1. CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT. Refer to PCS-27, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK TRANSMISSION RANGE SWITCH CIRCUIT

- Turn ignition switch OFF.
- Disconnect TCM harness connector and BCM harness connector.

B2603 SHIFT POSITION STATUS

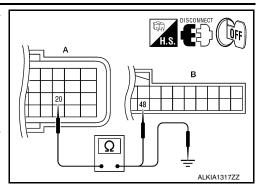
< DTC/CIRCUIT DIAGNOSIS >

Check continuity between TCM harness connector F15 (A) terminal 20 and BCM harness connector M18 (B) terminal 48.

TCM		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: F15	20	B: M18	48	Yes

Check continuity between TCM harness connector F15 (A) terminal 20 and ground.

TCM		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
A: F15	20	Ground	No	



Is the inspection result normal?

>> GO TO 3. YES

NO >> Repair harness or connector.

3.check cvt shift select power supply

- Turn ignition switch OFF.
- Disconnect CVT shift selector harness connector.
- 3. Check voltage between CVT shift selector harness connector M78 terminal 8 and ground.

CVT shift selector		Ground	Voltage [V]	
Connector	Terminal	Ground	voitage [v]	
M78	8	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK CVT SHIFT SELECTOR POWER SUPPLY CIRCUIT

- 1. Disconnect BCM harness connector.
- 2. Check continuity between BCM harness connector M19 (A) terminal 84 and CVT shift selector harness connector M78 (B) terminal 8.

ВСМ		CVT shift selector		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: M19	84	B: M78	8	Yes

Check continuity between BCM harness connector M19 (A) terminal 84 and ground.

BCM		Ground	Continuity
Connector	Terminal	Ground	Continuity
A: M19	84	Ground	No

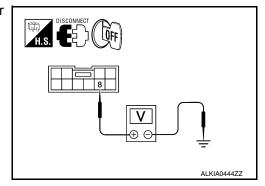
Is the inspection result normal?

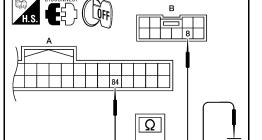
>> Replace BCM. Refer to BCS-79, "Removal and Installation". YES

NO >> Repair harness or connector.

5. CHECK CVT SHIFT SELECTOR CIRCUIT

Disconnect BCM harness connector.





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B2603 SHIFT POSITION STATUS

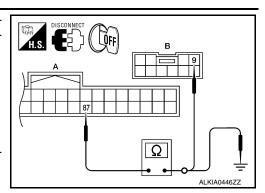
< DTC/CIRCUIT DIAGNOSIS >

Check continuity between BCM harness connector M19 (A) terminal 87 and CVT shift selector harness connector M78 (B) terminal 9.

ВСМ		CVT shift selector		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: M19	87	B: M78	9	Yes

Check continuity between BCM harness connector M19 (A) ter-

J.	minal 87 and ground.				
	BCM Connector Terminal		Ground	Continuity	
			Ground	Continuity	
	A: M19	87	Ground	No	



Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair harness or connector.

6. CHECK CVT SHIFT SELECTOR

Refer to SEC-52, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace CVT shift selector. Refer to TM-170, "Removal and Installation".

7. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

B2604 TRANSMISSION RANGE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2604 TRANSMISSION RANGE SWITCH

Description INFOID:0000000010051969

BCM confirms the shift position with the following 4 signals.

- CVT selector lever
- Transmission range switch
- P position signal from IPDM E/R (CAN)
- P position signal from TCM (CAN)

DTC Logic INFOID:0000000010051970

DTC DETECTION LOGIC

NOTE:

- If DTC B2604 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B2604 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2604	TRANSMISSION RANGE SWITCH	 BCM detects the following status for 500 ms or more when the ignition switch is in the ON position. Transmission range switch indicates vehicle is in P or N shift position. Signal from TCM indicates vehicle is in forward or reverse gear. Transmission range switch indicates vehicle is in forward or reverse gear. Signal from TCM indicates vehicle is in P or N. 	Harness or connectors [The transmission range switch circuit is open or shorted.] Transmission range switch TCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Start the engine under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P position
- Do not depress the brake pedal
- Use CVT selector lever to select each gear one at a time. Wait at each gear for at least 1 second.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to SEC-59, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

1. CHECK DTC WITH TCM

Check "Self diagnostic result" with CONSULT. Refer to PCS-27, "DTC_Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

f 2 .CHECK TRANSMISSION RANGE SWITCH CIRCUIT

- Turn ignition switch OFF.
- Disconnect TCM harness connector and BCM harness connector. 2.

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B2604 TRANSMISSION RANGE SWITCH

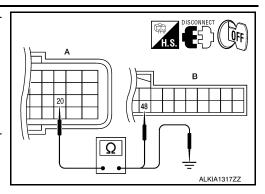
< DTC/CIRCUIT DIAGNOSIS >

Check continuity between TCM harness connector F15 (A) terminal 20 and BCM harness connector M18 (B) terminal 48.

TO	CM	ВС	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: F15	20	B: M18	48	Yes

Check continuity between TCM harness connector F15 (A) terminal 20 and ground.

TO	CM	Ground	Continuity
Connector	Terminal	Ground	Continuity
A: F15	20	Ground	No



Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

B2605 TRANSMISSION RANGE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2605 TRANSMISSION RANGE SWITCH

Description INFOID:0000000010051972

BCM confirms the shift position with the following 4 signals.

- CVT selector lever
- Transmission range switch
- P position signal from IPDM E/R (CAN)
- P position signal from TCM (CAN)

DTC Logic INFOID:0000000010051973

DTC DETECTION LOGIC

NOTE:

- If DTC B2605 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B2605 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2605	TRANSMISSION RANGE SWITCH	 BCM detects the following status for 500 ms or more when the ignition switch is in ON position N position input signal exists. Shift position signal from IPDM E/R does not exist. N position input signal does not exist. Shift position signal from IPDM E/R exists. 	Harness or connectors [The transmission range switch circuit is open or shorted.] Transmission range switch IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P or N position
- Do not depress the brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-61</u>, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

1.CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT. Refer to PCS-27, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace malfunctioning parts.

2.CHECK TRANSMISSION RANGE SWITCH CIRCUIT

- Turn ignition switch OFF.
- Disconnect TCM harness connector and BCM harness connector.

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INFOID:0000000010051974

SEC-61 Revision: August 2013 2014 Maxima NAM

B2605 TRANSMISSION RANGE SWITCH

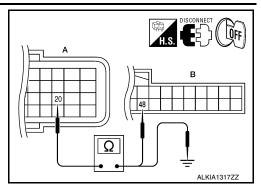
< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between TCM connector F15 (A) terminal 20 and BCM harness connector M18 (B) terminal 48.

To	CM	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: F15	20	B: M18	48	Yes

4. Check continuity between TCM harness connector F15 (A) terminal 20 and ground.

TO	СМ	Ground	Continuity
Connector	Terminal	Ground	Continuity
A: F15	20	Ground	No



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

B2608 STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

B2608 STARTER RELAY

Description INFOID:000000010051975

Located in IPDM E/R, it runs the starter motor. The starter relay is turned ON by the BCM when the ignition switch is in START position. IPDM E/R transmits the starter relay ON signal to BCM via CAN communication.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2608 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B2608 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-30, "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2608	STARTER RELAY	BCM receives starter relay ON signal (CAN) from IPDM E/R even if BCM turns the starter relay OFF	Harness or connectors (starter relay circuit is open or shorted.) IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Press the push-button ignition switch under the following conditions.
- CVT selector lever is in the P or N position.
- Depress the brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to SEC-63, "Diagnosis Procedure".

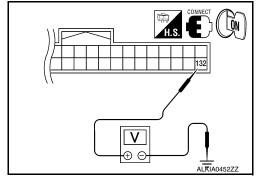
NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>SEC-147</u>, "Wiring Diagram" or <u>SEC-128</u>, "Wiring Diagram".

1. CHECK STARTER RELAY

- 1. Turn ignition switch ON.
- 2. Check voltage between BCM harness connector and ground under the following condition.



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B2608 STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

ВСМ		Ground C		Condition	Voltage (V)
Connector	Terminal	Ground	Condition		Voltage (V)
M21	132	Ground	CVT selector lever	N or P position	Battery voltage
IVIZ I	132	Giodila	CV i selector level	Other than above	0

Is the measurement value within the specification?

YES >> GO TO 3 NO >> GO TO 2

2. CHECK STARTER RELAY CIRCUIT

1. Turn ignition switch OFF.

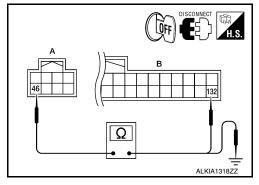
2. Disconnect BCM harness connector M21 and IPDM E/R harness connector E17.

3. Check continuity between IPDM E/R harness connector E17 (A) terminal 46 and BCM harness connector M21 (B) terminal 132.

IPDI	/I E/R	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: E17	46	B: M21	132	Yes

4. Check continuity between IPDM E/R harness connector E17 (A) terminal 46 and ground.

terrimar 40 and ground.				
IPDM E/R		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
A: E17	46	Ground	No	



Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Repair harness or connector.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

B260F ENGINE STATUS

< DTC/CIRCUIT DIAGNOSIS >

B260F ENGINE STATUS Description INFOID:0000000010051978

BCM receives the engine status signal from ECM via CAN communication.

DTC Logic INFOID:0000000010051979

DTC DETECTION LOGIC

NOTE:

- If DTC B260F is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B260F is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B260F	INTERRUPTION OF ENGINE STATUS SIGNAL	BCM has not yet received the engine status signal from ECM when ignition switch is in ON position	• ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON under the following conditions.
- CVT selector lever is in the P position.
- Do not depress the brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to SEC-65, "Diagnosis Procedure".

>> Inspection End. NO

Diagnosis Procedure

1.INSPECTION START

- Turn ignition switch ON.
- Check "Self diagnostic result" with CONSULT.
- Touch "ERASE".
- **Perform DTC Confirmation Procedure.**

See SEC-65, "DTC Logic".

Is the DTC B260F displayed again?

YES >> GO TO 2.

NO >> Inspection End.

2.REPLACE ECM

- Replace ECM.
- Go to EC-17, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".

>> Inspection End.

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B26E1 NO RECEPTION OF ENGINE STATUS SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

B26E1 NO RECEPTION OF ENGINE STATUS SIGNAL

Description INFOID:000000010051981

BCM receives the engine status signal from ECM via CAN communication.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B26E1 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-29</u>, "DTC Logic".
- If DTC B26E1 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26E1	NO RECEPTION OF ENGINE STATUS SIGNAL	BCM does not receive the engine status signal from ECM when ignition switch is in the ON position	• ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions.
- CVT selector lever is in the P or N position.
- Do not depress the brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-66</u>, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010051983

1. INSPECTION START

- 1. Turn ignition switch ON.
- Check "Self diagnostic result" with CONSULT.
- 3. Touch "ERASE".
- 4. Perform DTC Confirmation Procedure.

See SEC-66, "DTC Logic".

Is the DTC B26E1 displayed again?

YES >> GO TO 2.

NO >> Inspection End.

2.REPLACE ECM

- Replace ECM.
- Go to EC-17, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".

>> Inspection End.

B2617 STARTER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

B2617 STARTER RELAY CIRCUIT

Description INFOID:000000010051984

Located in IPDM E/R, it runs the starter motor. The starter relay is turned ON by the BCM when the ignition switch is in START position. IPDM E/R transmits the starter relay ON signal to BCM via CAN communication.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2617 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic".
- If DTC B2617 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".
- If DTC B2617 is displayed with DTC B210E, first perform the trouble diagnosis for DTC B210E. Refer to SEC-67, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2617	STARTER RELAY CIRCUIT	 An immediate operation of starter relay is requested by BCM, but there is no response for more than 1 second BCM is not commanding starter relay activation, but BCM detects starter relay output is active 	Harness or connectors (Starter relay circuit is open or shorted.) IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P position.
- Do not depress the brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-67</u>, "Diagnosis Procedure".

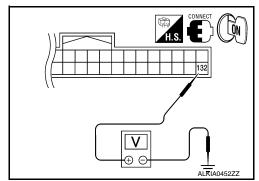
NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

1. CHECK STARTER RELAY

- 1. Turn ignition switch ON.
- 2. Check voltage between BCM harness connector M21 terminal 132 and ground under the following condition.



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Revision: August 2013 SEC-67 2014 Maxima NAM

B2617 STARTER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

ВСМ		Ground Transmission select		Condition	Voltage (V)	
Connector	Terminal	Giodila	lever position	Condition	Voltage (V)	
M21	132	Ground	Park	Ignition switch cranking or request to start	Battery voltage	
				Other than above	0	

Is the measurement value within the specification.

YES >> GO TO 3. NO >> GO TO 2.

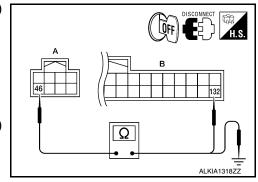
2. CHECK STARTER RELAY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector and IPDM E/R harness connector.
- 3. Check continuity between IPDM E/R harness connector E17 (A) terminal 46 and BCM harness connector M21 (B) terminal 132.

IPDN	M E/R	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: E17	46	B: M21	132	Yes

 Check continuity between IPDM E/R harness connector E17 (A) terminal 46 and ground.

IPDN	/I E/R	Ground	Continuity	
Connector	Terminal	Ground	Continuity	
A: E17	46	Ground	No	



Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Repair harness or connector.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

B210B STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

B210B STARTER CONTROL RELAY

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210B is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-29</u>, "DTC Logic".
- If DTC B210B is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-30</u>, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210B	START CONT RLY ON	When comparing the following items, IPDM E/R detects that starter control relay is stuck in the ON position for 1 second or more. Starter control relay signal (CAN) from BCM Starter relay status signal (CAN) from BCM Starter control relay and starter relay status signal (IPDM E/R input) Starter control relay control signal (IPDM E/R output)	

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn the power supply position to start under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P (Park) or N (Neutral) position.
- Depress the brake pedal
- 2. Check "Self-diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-69</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010052722

1. INSPECTION START

Perform Self Diagnostic Result of IPDM E/R using CONSULT.

Is display history of DTC B210B CRNT?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Refer to GI-41, "Intermittent Incident".

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Revision: August 2013 SEC-69 2014 Maxima NAM

B210C STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

B210C STARTER CONTROL RELAY

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210C is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-29</u>, "DTC Logic".
- If DTC B210C is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".
- When IPDM E/R power supply voltage is low (Approx. 7 8 V for about 1 second), the DTC B210C may be detected.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210C	START CONT RLY OFF CIRC	When comparing the following items, IPDM E/R detects that starter control relay is stuck in the OFF position for 1 second or more. Starter control relay signal (CAN) from BCM Starter relay status signal (CAN) from BCM Starter control relay and starter relay status signal (IPDM E/R input) Starter control relay control signal (IPDM E/R output)	IPDM E/R BCM Battery

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn the power supply position to start under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P (Park) or N (Neutral) position.
- Depress the brake pedal
- 2. Check "Self-diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-70</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010052724

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram".

1.PERFORM SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of IPDM E/R using CONSULT.

Is display history of DTC B210C CRNT?

YES >> GO TO 2.

NO >> Refer to GI-41, "Intermittent Incident".

2.CHECK STARTER CONTROL RELAY CONTROL CIRCUITS VOLTAGE

Check voltage between IPDM E/R connectors and ground.

IPDN	M E/R	Ground	Voltage
Connector Terminal		Orbana	(Approx.)
E17	46	_	Battery voltage

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> GO TO 3.

B210C STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK STARTER CONTROL RELAY CONTROL CIRCUIT CONTINUITY

- 1. Disconnect IPDM E/R connector E17 and BCM connector M21.
- 2. Check continuity between IPDM E/R connector E17 and BCM connector M21.

IPDI	M E/R	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E17	46	M21	132	Yes

3. Check continuity between IPDM E/R connector E17 and ground.

IPD	M E/R	Ground	Continuity
Connector	Terminal	Orodiid	
E17	46	_	No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Repair or replace harness or connectors.

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B210D STARTER RELAY

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210D is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-29</u>, "DTC Logic".
- If DTC B210D is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".
- If DTC B210D is displayed with DTC B2617, first perform the trouble diagnosis for DTC B2617. Refer to <u>SEC-67, "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210D	STARTER RELAY ON CIRC	When comparing the following items, IPDM E/R detects that starter control relay is stuck in the ON position for 5 second or more. Starter control relay signal (CAN) from BCM Starter relay status signal (CAN) from BCM Starter control relay and starter relay status signal (IPDM E/R input) Starter control relay control signal (IPDM E/R output)	

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Ignition switch ON under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P (Park) or N (Neutral) position
- Do not depress the brake pedal
- 2. Check "Self-diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-72</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010052726

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram".

1. PERFORM SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of IPDM E/R using CONSULT.

Is display history of DTC B210D CRNT?

YES >> GO TO 2.

NO >> Refer to GI-41, "Intermittent Incident".

2.CHECK STARTER CONTROL RELAY CONTROL CIRCUITS VOLTAGE

Check voltage between IPDM E/R connectors and ground.

IPDN	M E/R	Ground	Voltage
Connector	Connector Terminal		(Approx.)
E17	46	_	Battery voltage

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> GO TO 3.

B210D STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK STARTER CONTROL RELAY CONTROL CIRCUIT CONTINUITY

- 1. Disconnect IPDM E/R connectors E17 and BCM connector M21.
- 2. Check continuity between IPDM E/R connector E17 and ground.

IPD	M E/R	Ground	Continuity	
Connector	Terminal	Ground	Continuity	
E17	46	_	No	

Is the inspection result normal?

YES >> Refer to <u>SEC-63, "Diagnosis Procedure"</u>.

NO >> Repair or replace harness or connectors.

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B210E STARTER RELAY

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210E is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-29</u>, "DTC Logic".
- If DTC B210E is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-30, "DTC Logic".
- When IPDM E/R power supply voltage is low (Approx. 7 8 V for about 1 second), the DTC B210F may be detected.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210E	STARTER RELAY OFF	When comparing the following items, IPDM E/R detects that starter control relay is stuck in the OFF position for 5 second or more. Starter control relay signal (CAN) from BCM Starter relay status signal (CAN) from BCM Starter control relay and starter relay status signal (IPDM E/R input) Starter control relay control signal (IPDM E/R output)	IPDM E/R BCM Battery

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P (Park) or N (Neutral) position
- Do not depress the brake pedal
- Check Self-diagnostic result with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-74</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010052728

Regarding Wiring Diagram information, refer to <a>SEC-147, "Wiring Diagram".

1. PERFORM SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of IPDM E/R using CONSULT.

Is display history of DTC B210E CRNT?

YES >> GO TO 2.

NO >> Refer to GI-41, "Intermittent Incident".

2.CHECK STARTER CONTROL RELAY CONTROL CIRCUITS VOLTAGE

Check voltage between IPDM E/R connectors and ground.

IPDI	M E/R	Ground	Voltage	
Connector	Connector Terminal		(Approx.)	
E17	46	_	Battery voltage	

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> GO TO 3.

B210E STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK STARTER CONTROL RELAY CONTROL CIRCUIT CONTINUITY

- 1. Disconnect IPDM E/R connector E17 and BCM connector M21.
- 2. Check continuity between IPDM E/R connector E17 and BCM connector M21.

IPDM E/R		ВСМ		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E17	46	M21	132	Yes

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79. "Removal and Installation".

NO >> Repair or replace harness or connectors.

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B210F TRANSMISSION RANGE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B210F TRANSMISSION RANGE SWITCH

Description

IPDM E/R confirms the shift position with the following signals.

- Transmission range switch
- Shift position signal from BCM (CAN)

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210F is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29, "DTC Logic"
- If DTC B210F is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-30, "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210F	TRANSMISSION RANGE SWITCH	IPDM E/R detects a mismatch between the signals below for 1 second or more. Transmission range switch input signal Shift position signal from BCM (CAN)	Harness or connectors Transmission range switch circuit is open or shorted Transmission range switch

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P or N position
- Do not depress the brake pedal
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-76</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

INFOID:000000001005200

1. CHECK DTC WITH BCM

Refer to BCS-64, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2. CHECK TRANSMISSION RANGE SWITCH INPUT SIGNAL

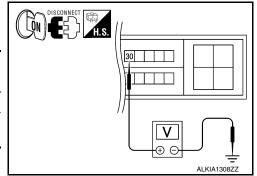
- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R harness connector.
- 3. Turn ignition switch ON.

B210F TRANSMISSION RANGE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

 Check voltage between IPDM E/R harness connector E18 terminal 30 and ground under following condition.

IPDM E/R		Ground	Condition		Voltage (V)	
Connector	Terminal	Ground	Condition		voitage (v)	
			CVT soloctor	P or N	Battery voltage	
E18	30	Ground	CVT selector lever	Other than above	0	



Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-35, "Removal and Installation"</u>.

NO >> GO TO 3.

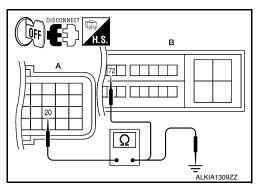
3.check transmission range switch circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect TCM harness connector.
- 3. Check continuity between IPDM E/R harness connector E18 (B) terminal 72 and TCM harness connector F15 (A) terminal 20.

TCM		IPDN	M E/R	Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: F15	20	B: E18	72	Yes

Check continuity between TCM harness connector F15 (A) terminal 20 and ground.

TCM		Ground	Continuity
Connector	Terminal	Glound	Continuity
A: F15	20	Ground	No



Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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B2110 TRANSMISSION RANGE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2110 TRANSMISSION RANGE SWITCH

Description

IPDM E/R confirms the shift position with the following signals.

- Transmission range switch
- Shift position signal from BCM (CAN)

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2110 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-29. "DTC Logic".
- If DTC B2110 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-30</u>, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2110	TRANSMISSION RANGE SWITCH	IPDM E/R detects mismatch between the signal below for 1 second or more. • Transmission range switch input signal	Harness or connectors Transmission range switch circuit is open or shorted Transmission range switch

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn the ignition switch ON under the following conditions and wait for at least 1 second.
- CVT selector lever is in the P or N position
- Do not depress the brake pedal
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-78</u>, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010052004

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

1. CHECK DTC WITH BCM

Refer to BCS-64, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

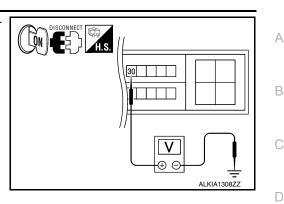
2.CHECK TRANSMISSION RANGE SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R harness connector.
- 3. Turn ignition switch ON.

B2110 TRANSMISSION RANGE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

 Check voltage between IPDM E/R harness connector E18 terminal 30 and ground under following condition.



IPDI	M E/R	Ground	Condition Vol		Voltage (V)
Connector	Terminal	Gloulia			voitage (v)
E18	30	Ground	CVT selector lever	P or N	Battery voltage
LIO	30	Giodila	CV i selector level	Other than above	0

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> GO TO 3.

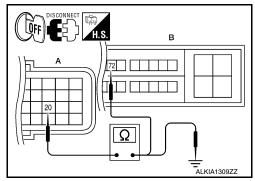
3. CHECK TRANSMISSION RANGE SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect TCM harness connector.
- 3. Check continuity between IPDM E/R harness connector E18 (B) terminal 72 and TCM harness connector F15 (A) terminal 20.

TCM		IPDN	M E/R	Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: F15	20	B: E18	72	Yes

Check continuity between TCM harness connector F15 (A) terminal 20 and ground.

TCM		Ground	Continuity
Connector	Terminal	Ground	Continuity
A: F15	20	Ground	No



Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000010068741

INFOID:0000000010068742

Regarding Wiring Diagram information, refer to BCS-67, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuses or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.
1		Н
11	Battery power supply	10
24		7

Is the fuse or fusible link blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

$oldsymbol{2}$. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- 3. Check voltage between BCM harness connector and ground.

(+)	(-)	Voltage
В	CM		Voltage (Approx.)
Connector	Terminal		
M16	1	Ground	Battery voltage
M17	11		
M18	24		

Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

BCM: Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to BCS-5, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Work Procedure".

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

>> Work End.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) : Diagnosis Procedure

Regarding Wiring Diagram information, refer to PCS-28, "Wiring Diagram".

1. CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
1		В
2	Battery power supply	A, D
36		A, E, L

Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connectors.
- 3. Check voltage between IPDM E/R harness connector and ground.

(+) IPDM E/R		(-)	Voltage (V) (Approx.)
E16	E16 1 Ground		
LIO	2	Ground	Battery voltage
E18	36		

Is the measurement value normal?

YES >> GO TO 3

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

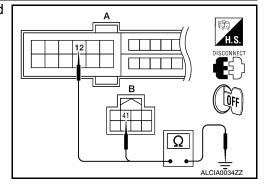
Check continuity between IPDM E/R harness connectors and ground.

IPDM E	E/R		Continuity
Connector	Terminal	Cround	
A: E18	12	- Ground	Yes
B: E17	41		ies

Does continuity exist?

YES >> Inspection End.

NO >> Repair harness or connector.



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KEY SLOT

Diagnosis Procedure

INFOID:0000000010052008

Regarding Wiring Diagram information, refer to <u>SEC-147, "Wiring Diagram"</u> or <u>SEC-128, "Wiring Diagram"</u>.

1. CHECK KEY SLOT POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect key slot connector.
- 3. Check voltage between slot harness connector M40 terminal 1, 5 and ground.

Key slot		Ground	Voltage (V)
Connector	Terminal	Ground	(Approx.)
M40	1	Ground	Battery voltage
WI -1 O	5	Ground	Dattery Voltage

H.S. DISCONNECT 1, 5 ALKIA0419ZZ

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace key slot power supply circuit.

2.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector M40 terminal 7 and ground.

Key	slot	Ground	Continuity
Connector	Terminal	Ground	Continuity
M40	7	Ground	Yes

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Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace key slot ground circuit.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

KEY SLOT ILLUMINATION

Description INFOID:000000010052009

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:000000010052010

1. CHECK FUNCTION

(P) With CONSULT

Check key slot illumination ("KEY SLOT ILLUMI") Active Test mode.

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Is the inspection result normal?

YES >> Key slot function is OK.

NO >> Refer to <u>SEC-83. "Diagnosis Procedure"</u>.

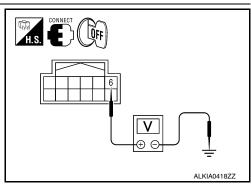
INFOID:0000000010052011

Diagnosis Procedure

Regarding Wiring Diagram information, refer to SEC-147, "Wiring Diagram" or SEC-128, "Wiring Diagram".

1. CHECK KEY SLOT ILLUMINATION OUTPUT SIGNAL

Check voltage between key slot harness connector M40 terminal 6 and ground.



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	Terminals				Voltage (V)
	(+)		Condition	Key slot	
Key slot connector	Terminal	(-)		illumination	(Approx.)
M40	M40 6 Groun		Intelligent Key inserted	OFF	Battery voltage
10140	M40 6 Ground	Intelligent Key removed	ON	0	

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Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

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2. CHECK KEY SLOT POWER SUPPLY CIRCUIT

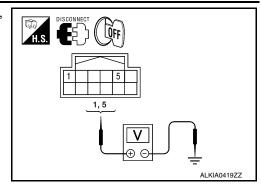
- 1. Turn ignition switch OFF.
- 2. Disconnect key slot connector.

KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

 Check voltage between slot harness connector M40 terminal 1, 5 and ground.

	V 14 0 0		
(+)		(–)	Voltage (V) (Approx.)
Key slot connector	Terminal	(-)	() ,
M40	1	Ground	Ground Battery voltage
10140	M40 Ground 5	Giodila	Dattery voltage



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace key slot power supply circuit.

3.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector M40 terminal 7 and ground.

Key slot connector	Terminal	Ground	Continuity
M40	7		Yes

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Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace key slot ground circuit.

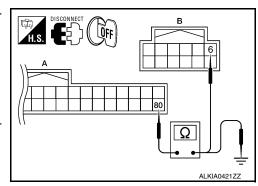
4. CHECK KEY SLOT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and key slot connector.
- 3. Check continuity between BCM harness connector M19 (A) terminal 80 and key slot harness connector M40 (B) terminal 6.

BCM connector	Terminal	Key slot connector	Terminal	Continuity
A: M19	80	B: M40	6	Yes

Check continuity between BCM harness connector M19 (A) terminal 80 and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	80	Ground	No



Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness between BCM and key slot.

CHECK KEY SLOT

Refer to SEC-83, "Description".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace key slot. Refer to <u>SEC-163, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

KEY CYLINDER SWITCH

Description INFOID:0000000010052012

The main power window and door lock/unlock switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signal.

Component Function Check

INFOID:0000000010052013

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1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check KEY CYL UN-SW, KEY CYL UN-SW in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to BCS-19, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Monitor item	Cor	ndition
KEY CYL LK-SW	Lock	: ON
RET GTE EN-SW	Neutral / Unlock	: OFF
KEY CYL UN-SW	Unlock	: ON
RET CTL UN-SW	Neutral / Lock	: OFF

Is the inspection result normal?

YES >> Key cylinder switch is OK.

>> Refer to SEC-85, "Diagnosis Procedure". NO

Diagnosis Procedure

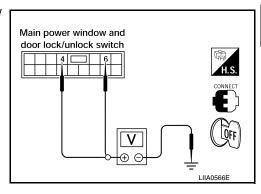
INFOID:0000000010052014

Regarding Wiring Diagram information, refer to <a>SEC-136, "Wiring Diagram".

${f 1}$.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- 1. Turn ignition switch ON.
- Check voltage between main power window and door lock/ unlock switch harness connector D7 terminal 4, 6 and ground.

	Terminals			
(+)	(+)			
Main power window and door lock/unlock switch connector	Terminal	(–)	Key position	Voltage (V) (Approx.)
	4		Lock	0
D7	7	Ground	Neutral / Unlock	5
וט	6	Ground	Unlock	0
			Neutral / Lock	5



Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-107, "Removal and Installation". After that, refer to SEC-87, "Special Repair Requirement".

NO >> GO TO 2

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2.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch connector and front door lock assembly LH connector.

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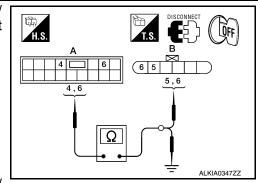
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KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between main power window and door lock/ unlock switch harness connector D7 (A) terminal 4, 6 and front door lock assembly LH harness connector D10 (B) 5, 6.

Main power window and door lock/un- lock switch connec- tor	Terminal	Front door lock assembly LH connector	Terminal	Continuity
A: D7	4	B: D10	6	Yes
A. DI	6	0. ال	5	162



 Check continuity between main power window and door lock/ unlock switch harness connector D7 (A) 4, 6 and ground.

Power window main switch connector	Terminal		Continuity
A: D7	4	Ground	No
A. D1	6		NO

Is the inspection result normal?

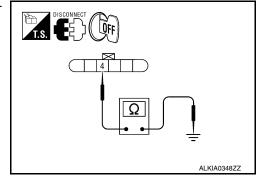
YES >> GO TO 3

NO >> Repair or replace harness.

${f 3.}$ CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly LH harness connector D10 terminal 4 and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D10	4		Yes



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to SEC-86, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

>> Replace front door lock assembly LH. Refer to <u>DLK-221, "FRONT DOOR LOCK: Removal and Installation"</u>. After that, refer to <u>SEC-87, "Special Repair Requirement"</u>.

Component Inspection

NO

INFOID:0000000010052015

COMPONENT INSPECTION

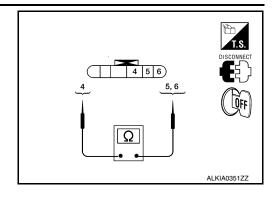
1. CHECK DOOR KEY CYLINDER SWITCH

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Check front door lock assembly LH.

Terminal			
Front door lock assembly LH connector		Key position	Continuity
5	E	Unlock	Yes
3	4	Neutral / Lock	No
4		Lock	Yes
6		Neutral / Unlock	No



Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-221, "FRONT DOOR LOCK: Removal and Installation"</u>. After that, refer to <u>SEC-87, "Special Repair Requirement"</u>

Special Repair Requirement

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure. Refer to PWC-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement" and PWC-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

>> GO TO 2

2. CHECK ANTI-PINCH OPERATION

Check anti-pinch operation. Refer to <u>PWC-7</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</u>: <u>Special Repair Requirement</u>" and <u>PWC-7</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: <u>Special Repair Requirement</u>".

>> End.

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HORN

Description INFOID:000000010052017

Horn (high/low) is located inside of front bumper and operates when theft warning system is in alarm phase.

Component Function Check

INFOID:0000000010052018

1. CHECK FUNCTION

- Select HORN in "ACTIVE TEST" mode with CONSULT.
- 2. Check the horn (high/low) operation.

	Test item		Description	
HORN	ON	Horn relay	ON (for 20 ms)	

Is the operation normal?

YES >> Inspection End.

NO >> Refer to <u>SEC-88</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:000000010052019

Regarding Wiring Diagram information, refer to SEC-136, "Wiring Diagram".

1. CHECK HORN FUNCTION

Check horn function with horn switch

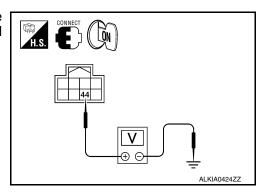
Do the horns sound?

YES >> GO TO 2

NO >> Refer to <u>SEC-136, "Wiring Diagram"</u>.

2.CHECK HORN RELAY POWER SUPPLY

- Turn ignition switch ON.
- 2. Perform "ACTIVE TEST" ("HORN") with CONSULT.
- Using an analog voltmeter or an oscilloscope, check voltage between IPDM E/R harness connector E17 terminal 44 and ground.



IPD	IPDM E/R		Test item		Voltage (V)
Connector	Terminal	Ground	rest item		(Approx.)
E17	44	Ground	HORN	ON	Battery voltage \rightarrow 0 \rightarrow Battery voltage
E17	44 Ground	GIOUIIU HORIN	Other than above	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 3

3. CHECK HORN RELAY CIRCUIT

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HORN

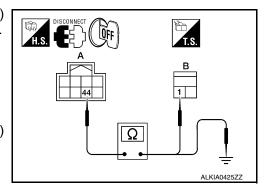
< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R and horn relay connector.
- 3. Check continuity between IPDM E/R harness connector E17 (A) terminal 44 and horn relay harness connector H1 (B) terminal 1.

IPDI	IPDM E/R		Horn relay	
Connector	Terminal	Connector Terminal		Continuity
A: E17	44	B: H-1	1	Yes

 Check continuity between IPDM E/R harness connector E17 (A) terminal 44 and ground.

IPD	M E/R	Ground	Continuity	
Connector	Terminal	Giodila	Continuity	
A: E17	44	Ground	No	



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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HEADLAMP

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP

Description INFOID:000000010052020

Headlamp lighting when theft warning system is in alarm phase.

Component Function Check

INFOID:0000000010052021

1. CHECK HEADLAMP OPERATION

Check if headlamps operate by lighting switch.

Does headlamp come on when turning switch "ON"?

YES >> Headlamp circuit is OK.

NO >> Check headlamp system. Refer to SEC-90, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010052022

1. CHECK HEADLAMP OPERATION

Refer to EXL-6, "Work Flow" (xenon type) or EXL-171, "Work Flow" (halogen type).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace malfunctioning parts.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

WARNING LAMP

Description

- · Warning lamp is built in combination meter.
- Intelligent Key system malfunction is reported to the driver by the warning lamp illumination.

Component Function Check

1.check function

- 1. Perform "INDICATOR" in the "Active Test" mode with CONSULT.
- 2. Check warning lamp operation.

Test item		Description	
INDICATOR	ON	Warning lamp	ON OFF
INDICATOR	OFF	vvairiing iamp	OFF

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to <u>SEC-91, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK "COMBINATION METER."

Check combination meter function. Refer to MWI-4, "Work Flow".

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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VEHICLE SECURITY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

VEHICLE SECURITY INDICATOR

Description INFOID:000000010052026

- Vehicle security indicator is built in combination meter.
- NVIS (Nissan Vehicle Immobilizer System-NATS) and vehicle security system conditions are indicated by blink or illumination of vehicle security indicator.

Component Function Check

INFOID:0000000010052027

1. CHECK FUNCTION

- 1. Perform "THEFT IND" in the "ACTIVE TEST" mode with CONSULT.
- 2. Check vehicle security indicator operation.

Test item		Description		
THEFT IND	ON	Vehicle security indicator	ON	
	OFF	verlicle security indicator	OFF	

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to <u>SEC-92</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010052028

1. CHECK COMBINATION METER

Check combination meter. Refer to MWI-4, "Work Flow".

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- · Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
FR WIPER III	Front wiper switch HI	ON
ED WIDED LOW	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
ED MACHED CM	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
ED WIDED INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED STOD	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CIONIAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI CIONIAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAND CM	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
LII DE AM CW	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CM/4	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
LIEAD LAMB OW	Other than lighting switch 2ND	OFF
HEAD LAMP SW 2	Lighting switch 2ND	ON
DA COINIO OM	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LIGHT OW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOO OW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD CW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON

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Monitor Item	Condition	Value/Status
DOOD SW AS	Passenger door closed	OFF
DOOK 3W-A3	Passenger door opened	ON
DOOD SW DD	Rear door RH closed	OFF
DOOR SW-AS FOOD SW-RR DOOR SW-RR FOOD SW-BK CDL LOCK SW CDL UNLOCK SW KEY CYL LK-SW KEY CYL UN-SW HAZARD SW TR CANCEL SW TR/BD OPEN SW TRNK/HAT MNTR RKE-LOCK RKE-UNLOCK RKE-TR/BD RKE-PANIC RKE-P/W OPEN RKE-MODE CHG OPTICAL SENSOR	Rear door RH opened	ON
DOOD CW DI	Rear door LH closed	OFF
DOOK SW-KL	Rear door LH opened	ON
DOOD SW BK	Trunk door closed	OFF
DOOK SW-BK	Trunk door opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
ODL LINI OOK OW	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
KEN ON TROM	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
VEV CVI LINI CVV	Other than driver door key cylinder UNLOCK position	OFF
NET UTL UN-SW	Driver door key cylinder UNLOCK position	ON
LIAZADD CW	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF
	Trunk lid opener cancel switch ON	ON
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF
	While the trunk lid opener switch is turned ON	ON
TR/BD OPEN SW TRNK/HAT MNTR	Trunk lid closed	OFF
	Trunk lid opened	ON
DKE LOCK	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
DIVE LINILOOK	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
DVE TD/DD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
KKE-1K/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DICE DANIES	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
DICE DAM ODEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
DVE MODE CHO	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
ODTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
RKE-MODE CHG	When outside of the vehicle is dark	Close to 0 V
HAZARD SW REAR DEF SW TR CANCEL SW TR/BD OPEN SW TRNK/HAT MNTR RKE-LOCK RKE-UNLOCK RKE-TR/BD RKE-PANIC RKE-P/W OPEN RKE-MODE CHG	When front door request switch is not pressed (driver side)	OFF
KEQ SW -DR	When front door request switch is pressed (driver side)	ON
DEO 0141 40	When front door request switch is not pressed (passenger side)	OFF
REQ SW -AS	When front door request switch is pressed (passenger side)	ON
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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW -RL	When rear door request switch is not pressed (driver side)	OFF
ALQ SW -IAL	When rear door request switch is pressed (driver side)	ON
REQ SW -RR REQ SW -BD/TR PUSH SW IGN RLY2 -F/B ACC RLY -F/B BRAKE SW 1	When rear door request switch is not pressed (passenger side)	OFF
YEQ 3W -KK	When rear door request switch is pressed (passenger side)	ON
DEO SW/ BD/TD	When trunk opener request switch is not pressed	OFF
NEQ 3W -BD/TK	When trunk opener request switch is pressed	ON
DIICH C/M	When engine switch (push switch) is not pressed	OFF
F03H 3W	When engine switch (push switch) is pressed	ON
ICN DIV2 E/B	Ignition switch OFF or ACC	OFF
IGN INETZ -17D	Ignition switch ON	ON
ACC DIV E/D	Ignition switch OFF	OFF
ACC RLT -F/D	Ignition switch ACC or ON	ON
DDAKE SW 1	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
CET DN/NI CVA/	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
LINILK CEN. DD	Driver door UNLOCK status	OFF
UNLK SEN -DR	Driver door LOCK status	ON
DUOLLOW IDDM	When engine switch (push switch) is not pressed	OFF
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON
GN RLY1 -F/B	Ignition switch OFF or ACC	OFF
IGN RLY1 -F/B	Ignition switch ON	ON
DETE OW IDDM	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
OFT DAL IDDA	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
	When selector lever is in any position other than P	OFF
SFT P -MET	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
SFT N -MET	When selector lever is in N position	ON
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
-	Passenger door UNLOCK status	UNLK

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Monitor Item	Condition	Value/Status
ID OK ELVC	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
DDMT ENG STDT	When the engine start is prohibited	RESET
ID OK FLAG PRMT ENG STRT KEY SW -SLOT RKE OPE COUN1 CONFRM ID ALL CONFIRM ID4 CONFIRM ID3 CONFIRM ID2 CONFIRM ID1 TP 4 TP 3 TP 2 TP 1 AIR PRESS FL AIR PRESS RR AIR PRESS RR AIR PRESS RR	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
KET OW -OLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONERM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
OOM NW ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIRM IDA	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIDM ID2	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIDM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TD 4	The ID of fourth key is not registered to BCM	YET
IP 4	The ID of fourth key is registered to BCM	DONE
TD 2	The ID of third key is not registered to BCM	YET
IP 3	The ID of third key is registered to BCM	DONE
TD 2	The ID of second key is not registered to BCM	YET
11 2	The ID of second key is registered to BCM	DONE
TD 1	The ID of first key is not registered to BCM	YET
IF I	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGGT EL 1	When ID of front LH tire transmitter is registered	DONE
	When ID of front LH tire transmitter is not registered	YET
TP 1 AIR PRESS FL AIR PRESS FR AIR PRESS RR	When ID of front RH tire transmitter is registered	DONE
ID NEGOI FRI	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
ID NEOOT KIKI	When ID of rear RH tire transmitter is not registered	YET

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Monitor Item	Condition	Value/Status
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID REGGI KLI	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
WARNING LAWIF	Tire pressure indicator ON	ON
BU77FR	Tire pressure warning alarm is not sounding	OFF
BUZZER	Tire pressure warning alarm is sounding	ON

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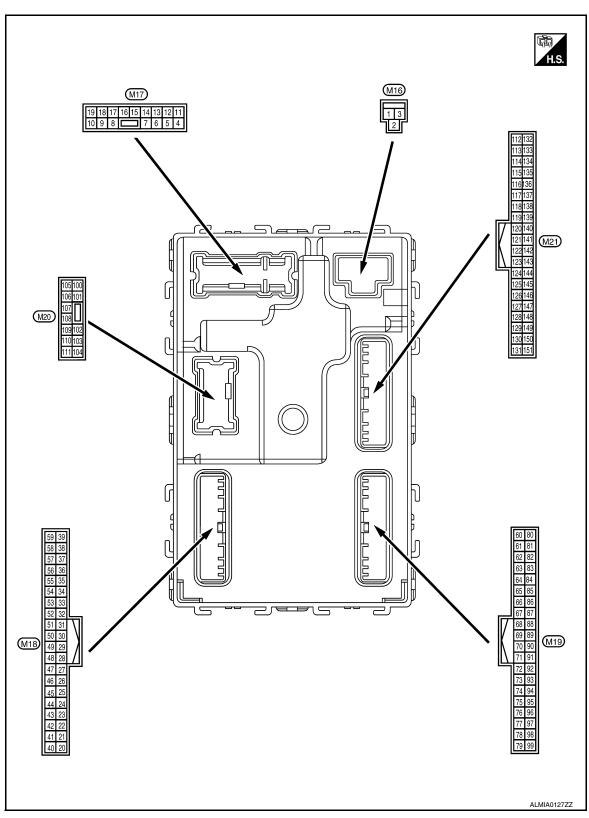
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Terminal Layout



Physical Values

	inal No.	Description				Value	А			
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)				
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	В			
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage	С			
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage				
4	Ground	Interior room lamp	Output	After passing the ir er operation time	terior room lamp battery sav-	0V	D			
(P/W)	Giodila	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage	Е			
5	Cravind	Front door RH UN-	Outrout	Front door DII	UNLOCK (actuator is activated)	Battery voltage				
(G)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	0V	F			
7	Ground	Step lamp	Output	Step lamp	ON	0V				
(R/W)	Ciound	Cicp iamp	Juiput	Stop lattip	OFF	Battery voltage	G			
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage				
(V)	Ground	All doors LOOK	7 III	7 400. 10 20 0.1	7 III 40010 <u>1</u> 0 011	Output	All doors	Other than LOCK (actuator is not activated)	0V	H
9	Ground	Front door LH UN-	nt door LH UN-	Front door LH	UNLOCK (actuator is activated)	Battery voltage	I			
(L)	Ground	LOCK	Output	Tront door Err	Other than UNLOCK (actuator is not activated)	0V				
10	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage				
(G)	Giouna	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V	SE			
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage				
13 (B)	Ground	Ground	_	Ignition switch ON		0V	L			
					OFF	OV				
14 (GR/ W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB	N C			
15		400: 1:	0		OFF	Battery voltage	F			
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	OV				

Term	inal No.	Description				
	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)		Output		Turn simual switch OFF	01/
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0V (V) 15 10 5 0 PKID0926E 6.5 V
		Turn signal switch OFF		0V		
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(Y)	Cround	control	CHIMITIC	lamp	ON	0V
21	Caronno	nsor signal Input Ignition switch	When outside of the vehi- cle is bright	Close to 5V		
(P/B)	0.00		Input Ignition switch	ON	When outside of the vehi- cle is dark	Close to 0V
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is re- leased)	ov
(O/L)	0.00				ON (brake pedal is de- pressed)	Battery voltage
27 (O)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB
					UNLOCK status	0V
29	Ground	Key slot switch	Input	_	ey is inserted into key slot	Battery voltage
(Y)			'	_	ey is not inserted into key slot	0V
31 (G)	Ground	Rear window defog- ger feedback signal	Input	Rear window de-	OFF	0V
(6)		Act teennack sidiligi		fogger switch	ON	Battery voltage

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	inal No. e color)	Description	T		0 100	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
				ON (when front door RH opens)	0V	
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V
				ON	0V	
38 (GR/	Ground	Rear window defog-	Input	Rear window de-	OFF	5V
W)	Giouria	ger ON signal	input	fogger switch	ON	0V
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OF		0V
41	Ground	Engine switch (push	Output	Engine switch (push switch) illu-	ON	5.5V
(W)	Ciouna	switch) illumination	Cutput	mination	OFF	0V
42	0 1		0	LOCK indicator	ON	0V
(R)	Ground	LOCK indicator lamp	Output	lamp	OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V
(V/W)	Ground	power supply output	Output	igilition switch	ACC or ON	5.0V

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	inal No.	Description				
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)
47	Constant	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 64 2 0 • • 0.2s OCC3881D
(G/O)	Ground	er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 ••• 0.2s OCC3880D
48	Ground	Selector lever trans- mission range switch	Input	Selector lever	P or N position	12.0V
(R/G)	Giodila	signal	IIIput	COLOCIOI IEVEI	Except P and N positions	0V
					ON	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	11.3V Battery voltage
					All switch OFF	0V
					Lighting switch 1ST	
				Combination	Lighting switch high-beam	(V)
50 (LG/	Ground	Combination switch	Input	switch	Lighting switch 2ND	10
`B)		OUTPUT 5	•	(Wiper intermit- tent dial 4)	Turn signal switch RH	2 ms JPMIA0031GB
					All switch OFF	0V
					(Wiper intermittent dial 4) Front wiper switch HI	
					(Wiper intermittent dial 4)	(V)
51 (L/W)	Ground	Combination switch OUTPUT 1	Input	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	15 10 5 0 2 ms JPMIA0032GB

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	inal No. e color)	Description			0 199	Value										
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	1									
					All switch OFF (Wiper intermittent dial 4)	0V										
					Front washer switch ON (Wiper intermittent dial 4)	(V)										
52 (G/B)	Ground	Combination switch OUTPUT 2	Input	Input Combination switch	Innut	switch Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	10 5 0									
					All switch OFF	OV										
					Front wiper switch INT											
				Combination	Front wiper switch LO	(V) 15										
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Input	switch	Input switch (Wiper intermit-	10 5 0 2 ms JPMIA0034GB 10.7V										
				All switch OFF	0V											
					Front fog lamp switch ON											
				Combination	Lighting switch 2ND	(V)										
54 (G/Y)	Ground	Combination switch OUTPUT 4	Input switch (Wiper intermittent dial 4)	switch (Wiper intermit-	Lighting switch flash-to- pass	10 5 0										
				tent dial 4)	tent dial									tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB
57 (W)	Ground	Tire pressure warning check switch	Input		_	5V	9									
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V										
					ON (front door LH OPEN)	OV										
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage										
(G/R)	C. 54114	ger relay	Japat	fogger	Not activated	0V										

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	inal No. e color)	Description		Condition		Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
60	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(B/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	
61	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(W/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	
62	Ground	Front outside handle	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(V)	Sidulid	RH antenna (-)	Carput	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

Terminal No. (Wire color)		Description				Value	
(+)	(-)	Signal name Input/ Output		Condition		(Approx.)	
63	0	Front outside handle	0.1.1	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(P)	Ground	RH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
64 (V) Ground	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
65	Ground	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(P)		LH antenna (+)		switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	

Terminal No. (Wire color)		Description		<u>.</u>		Value	
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)	
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
70 (R/B)	Ground	Ignition relay-2 con- trol	Output	Ignition switch	OFF or ACC	0V Battery voltage	
71		Domete kovlese entry	Input/ Output	During waiting		(V) 15 10 5 1 ms JMKIA0064GB	
(L/O)	Ground			When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB	
	Ground	Combination switch INPUT 5	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
75 (R/Y)					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB	

Terminal No. (Wire color)		Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
					Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0	E
76 (R/G)	Ground	Combination switch INPUT 3	Output	tput Combination switch	Lighting switch 2ND	1.3V (V) 15 10 5 0	G H
					(Wiper intermittent dial 4)	2 ms JPMIA0037GB	J
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	SE
78 (P)	Ground	CAN-L	Input/ Output		_	——————————————————————————————————————	
79 (L)	Ground	CAN-H	Input/ Output		_	_	M
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumination	OFF	Battery voltage (V) 15 10 5 0 1 s JPMIA0015GB 6.5V	N O P
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	ON OFF or ACC ON	0V 0V Battery voltage	

Terminal No.		Description				Value
(Wire (+)	e color) (-)	Signal name Inpu		Condition		Value (Approx.)
83	Cround	ACC relay central	Output	Ignition quitab	OFF	0V
(L)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
87	Ground	Selector lever P posi-	Input	Selector lever	P position	0V
(G/B)	Ground	tion switch	iliput	Selector lever	Any position other than P	Battery voltage
					ON (pressed)	OV
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 10 ms JPMIA0016GB 1.0V
					ON (pressed)	0V
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 10 ms JPMIA0016GB 1.0V
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0V
(Y)	Giodila	lay control	Juipui	ignition switch	ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

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	Terminal No. (Wire color) Description				-	Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V
95 (R/W)	Ground	Combination switch INPUT 1	Output	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 JPMIA0036GB 1.3V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Front washer switch ON	(V) 15 10 5 0 2 ms

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	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
96	Ground	Combination switch	Output	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
(P/B)	Sisuna	INPUT 4	Suipui	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V

	inal No.	Description				Value	Λ
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	B C D
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0097GB 1.3V	E F
97 (R/B)	Ground	Combination switch INPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch INT	(V) 15 10 2 ms JPMIA0038GB 1.3V	SEC
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	M
					Pressed	0 V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 10 ms 10 ms JPMIA0012GB 1.1V	Р

	ninal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
103	Ground	Trunk lid opening.	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage
(V)	Ground	Trunk nd Opening.	Output	Trunk iid	Close (trunk lid opener actuator is not activated)	0V
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
(V/W)			'	'	OFF	Battery voltage
114	Ground	Trunk room antenna	m antenna Output Ignition switch OFF When	When Intelligent Key is in the passenger compart- ment	(V) 15 10 0 1 s JMKIA0062GB	
(B)	Glound	1 (-)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
115	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(W)	Siound	1 (+)	Suput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s

Terminal No. Description (Wire color)					Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
118		Door humner enter		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(L/O)	Ground	Rear bumper antenna (-)	Output	lid request switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
119		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(BR/ W)	Ground	na (+)	Output	lid request switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
127 (BR/	Cround	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
W)	Ground	E/R) control	Output	Ignition switch	ON	0V
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON	ON (trunk is open) When selector lever is in P or N position and the brake is depressed When selector lever is in P or N position and the brake is not depressed	0V Battery voltage 0V

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	inal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output	t		(Approx.)
140	Ground	Engine switch (push	Input	Engine switch	Pressed	OV
(BR)	Giodila	switch)	IIIput	(push switch)	Not pressed	Battery voltage
					ON (pressed)	OV
141 (BR)	Ground	Trunk opener request switch	Input	Trunk opener request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V
144	0	Request switch buzz-	0.44	Request switch	Sounding	0V
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	0V
(L/R)	Giodila	switch	IIIput	switch	Not pressed	Battery voltage
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (when rear door RH opens)	0V
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (when rear door LH opens)	ov

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled Power position changes to ACC Receives engine status signal (CAN)

DTC Inspection Priority Chart

INFOID:0000000010068750

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If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC	
1	B2562: LO VOLTAGE	
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM	
4	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SWITCH B2605: PNP SWITCH B2608: STARTER RELAY B260A: IGNITION RELAY B2607: ENG STATE SIG LOST B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2611: ENG STATE NO RECIV 	

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< ECU DIAGNOSIS INFORMATION >

Priority	DTC
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1725: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

DTC Index

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases 1 → 2
 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2190: NATS ANTENNA AMP	×	_	_	<u>SEC-37</u>
B2191: DIFFERENCE OF KEY	×	_	_	SEC-40
B2192: ID DISCORD BCM-ECM	×	_	_	<u>SEC-41</u>
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-42</u>
B2553: IGNITION RELAY	_	_	_	PCS-46
B2555: STOP LAMP	_	_	_	<u>SEC-43</u>
B2556: PUSH-BTN IGN SW	_	×	_	SEC-46
B2557: VEHICLE SPEED	×	×	_	<u>SEC-48</u>
B2560: STARTER CONT RELAY	×	×	_	<u>SEC-49</u>

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2562: LOW VOLTAGE	_	_	_	BCS-35
32601: SHIFT POSITION	×	×	_	SEC-50
32602: SHIFT POSITION	×	×	_	SEC-53
B2603: SHIFT POSI STATUS	×	×	_	SEC-56
B2604: PNP SWITCH	×	×	_	SEC-59
32605: PNP SWITCH	×	×	_	SEC-61
B2608: STARTER RELAY	×	×	_	SEC-63
3260A: IGNITION RELAY	×	×	_	PCS-48
3260F: ENG STATE SIG LOST	×	×	_	SEC-65
32614: ACC RELAY CIRC	_	×	_	PCS-50
32615: BLOWER RELAY CIRC	_	×	_	PCS-53
32616: IGN RELAY CIRC	_	×	_	PCS-56
32617: STARTER RELAY CIRC	×	×	_	<u>SEC-67</u>
32618: BCM	×	×	_	PCS-59
3261A: PUSH-BTN IGN SW	_	×	_	PCS-60
32622: INSIDE ANTENNA	_	_	_	<u>DLK-60</u>
32623: INSIDE ANTENNA	_	_	_	DLK-63
26E1: ENG STATE NO RES	×	×	_	SEC-66
C1704: LOW PRESSURE FL	_	_	×	<u>WT-43</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-43</u>
:1706: LOW PRESSURE RR	_	_	×	<u>WT-43</u>
1707: LOW PRESSURE RL	_	_	×	<u>WT-43</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
:1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
21717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
21719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
: : : : : : : : : : : : : : : : : : :	_	_	×	WT-15
:1723: [CODE ERR] RL	_	_	×	WT-15
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	WT-15
C1727: [BATT VOLT LOW] RL	_	_	×	WT-15

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-20</u>

< ECU DIAGNOSIS INFORMATION >

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status		
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	1,2,3,4		
		A/C switch OFF	Off		
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On		
TAIL A OL D. D.F.O.	Lighting switch OFF		Off		
TAIL&CLR REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On		
	Lighting switch OFF		Off		
HL LO REQ	Lighting switch 2ND HI or AUTO	(Light is illuminated)	On		
	Lighting switch OFF		Off		
HL HI REQ	Lighting switch HI		On		
		Front fog lamp switch OFF	Off		
FR FOG REQ	Lighting switch 2ND or AUTO (Light is illuminated)	 Front fog lamp switch ON Daytime running light activated (Only for Canada models) 	On		
		Front wiper switch OFF	STOP		
ED W//D DEO	1	Front wiper switch INT	1LOW		
FR WIP REQ	Ignition switch ON	Front wiper switch LO	Low		
		Front wiper switch HI	Hi		
		Front wiper stop position	STOP P		
WIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P		
		Front wiper operates normally	Off		
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK		
ION DIVA DEO	Ignition switch OFF or ACC		Off		
IGN RLY1 -REQ	Ignition switch ON		On		
1011 7111	Ignition switch OFF or ACC		Off		
IGN RLY	Ignition switch ON		On		
T. 10.11 0.11	Release the push-button ignition	switch	Off		
PUSH SW	Press the push-button ignition sy	witch	On		
INTERAID OU	Ignition switch ON	CVT selector lever in any position other than P or N	Off		
INTER/NP SW	Ignition switch ON	CVT selector lever in P or N position	On		
CT DLV CONT	Ignition switch ON	Off			
ST RLY CONT	At engine cranking	On			
HIDT DLV DEC	Ignition switch ON		Off		
IHBT RLY -REQ	At engine cranking				

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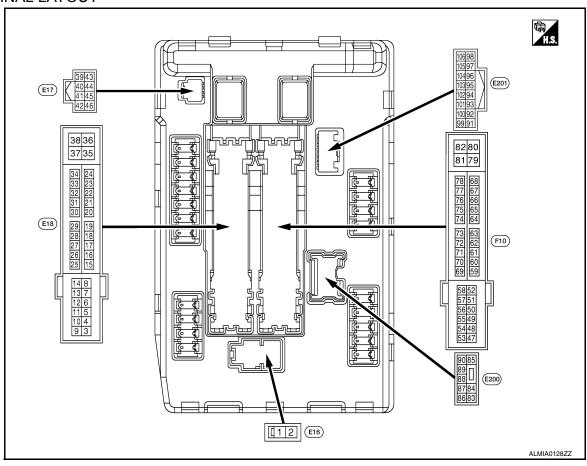
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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Con	dition	Value/Status		
	Ignition switch ON	Off			
	At engine cranking		ST →INHI		
ST/INHI RLY	The status of starter relay or starter of the battery voltage malfunction, etc. starter control relay is OFF	UNKWN			
DETENT SW	Ignition switch ON	Press the selector button with CVT selector lever in P position CVT selector lever in any position other than P	Off		
	Release the CVT selector button with CVT selector lever in P position		On		
DTRL -REQ	DTRL ON	DTRL ON			
DIKL-KEQ	DTRL OFF		Off		
OIL P SW	Ignition switch OFF, ACC or engine	running	Open		
OIL P SW	Ignition switch ON		Close		
	Not operated	Off			
THFT HRN REQ	Panic alarm is activated Horn is activated with VEHICLE SECURITY (THEFT WARNING) SYSTEM		On		
HORN CHIRP	Not operated		Off		
HORN CHIRP	Door locking with Intelligent Key (ho	orn chirp mode)	On		

TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

Signal name		inal No.	Description		Condition		Value	_
Cround Battery power supply Input Ignition switch OFF Battery voltage		- COIOI)	Signal name	•				
Council Ground Ground Front wiper LO Output Ignition Switch OFF OV Switch ON Front wiper switch OFF OV Switch ON Switch OFF Switch ON Switch OFF Switch ON Switch OFF Switch ON Switch OFF Switch O		Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	
Ground Front wiper LO Output Synthology Front wiper switch NO Front wiper switch LO Battery voltage		Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage	
Section of Section o		Ground	Front winer LO	Output		Front wiper switch OFF	0 V	
Front wiper HI Output Switch ON Front wiper witch HI Battery voltage	(LG)	Oround	Tront inport 20	Carpar	switch ON	Front wiper switch LO	Battery voltage	
Ground G		Ground	Front wiper HI	Output				
Ground Interior lamps Output Switch ON Lighting switch 1ST Battery voltage	6	Ground	supply (Canada models	Output	Ignition swi	<u>'</u>		
GR Ground Groun	7		Tail, license plate lamps &	0 1 1	Ignition	Lighting switch OFF	0 V	
Ground ECM relay power supply Output Out		Ground	•	Output		Lighting switch 1ST	Battery voltage	
Ground Common	10				(For a few s	seconds after turning ignition	0 V	
Council Coun		Ground	ECM relay power supply	Output	Ignition switch OFF (More than a few seconds after turn-		Battery voltage	
SB Ground Fuel pump power supply Coutput Coutpu		Ground	Ground	-	Ignition switch ON		0 V	
Caround Fuel pump power supply Output Output Approximately 1 second after turning the ignition switch ON Engine running Ignition switch OFF O V	12						0 V	
Ground Ply Ground Ply Ply		Ground	Fuel pump power supply	Output	the ignition	on switch ON	Battery voltage	
Ply Ignition switch ON Battery voltage	15	Cround	Ignition relay-1 power sup-	Quitaut	Ignition swi	itch OFF	0 V	
19 Ground Input Input	(W)	Ground	ply	Output	Ignition swi	itch ON	Battery voltage	
Refrigerant pressure sensor GR Ground Ground Ground Ground Refrigerant pressure sensor ground GR Ground Ground Ground GR Ground Ground Ground GR Ground Ground Ground GR Groun	16				Ignition	Front wiper stop position	0 V	
Ground Ground Ignition switch ON Ignition switch ON Battery voltage		Ground	Front wiper auto stop	Input			Battery voltage	
Council Coun	19		Ignition relay-1 power sup-	0 1 1	Ignition swi	itch OFF	0 V	
(L) Ground Ambient sensor ground — Ignition switch ON 0V 21 (LG) Ground Ambient sensor — Ignition switch ON 5V 22 (SB) Ground Refrigerant pressure sensor ground — Ignition switch ON 0V 23 (GR) Ground Refrigerant pressure sensor — Both A/C switch and blower motor switch ON (electric compressor operates) 1.0 - 4.0V 24 (G) Ground Refrigerant pressure sensor power supply — Ignition switch ON 5V	(Y)	Ground	ply	Output	Ignition swi	itch ON	Battery voltage	
Company Comp		Ground	Ambient sensor ground	_	Ignition swi	itch ON	ov	
Count Coun		Ground	Ambient sensor	_	Ignition swi	itch ON	5V	
23 (GR) Ground Refrigerant pressure sensor — Both A/C switch and blower motor switch ON (electric compressor operates) 24 (G) Ground Refrigerant pressure sensor power supply - Ignition switch ON 5V		Ground		_	Ignition switch ON		ov	
(G) Ground sor power supply — Ignition switch ON 5V		Ground	- :	_	Both A/C switch and blower motor switch ON (electric compressor oper-		1.0 - 4.0V	
		Ground		_	Ignition swi	itch ON	5V	
25 (GR) Ground Ignition relay-1 power supply Output Ignition switch OFF 0 V Ignition switch OFF Battery voltage	25 (GR)	Ground		Output			0 V	

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	inal No.	Description				Value	
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
27	Ground	Ignition relay monitor	Input	Ignition swi	itch OFF or ACC	Battery voltage	
(W)	Ground	ignition relay monitor	iliput	Ignition swi	tch ON	0 V	
28	Ground	Push-button ignition	Input	Press the p	oush-button ignition switch	0 V	
(SB)	Orodina .	switch	mpat		e push-button ignition switch	Battery voltage	
30	Ground	Starter relay control	Input		or lever in any position other (ignition switch ON)	0 V	
(BR)				CVT select switch ON)	or lever P or N (ignition	Battery voltage	
34	Ground	Cooling fan relay-3 control	Input	Ignition swi	tch OFF or ACC	0 V	
(O)	Cround	Cooming fair rollay o control	mpat	Ignition swi	itch ON	0.7 V	
35	Ground	Cooling fan motor control	Output	Ignition swi	tch OFF or ACC	0 V	
(P)				Ignition swi	tch ON	0.7 V	
36 (G)	Ground	Battery power supply	Input	Ignition swi	tch OFF	Battery voltage	
38	Ground	Cooling fan motor control	Output	Ignition swi	tch OFF or ACC	0 V	
(GR)	Cround	Cooming fair motor control	Output	Ignition switch ON		0.7 V	
39 (P)	_	CAN - L	Input/ Output	_		_	
40 (L)	_	CAN - H	Input/ Output	_		_	
41 (B)	Ground	Ground		Ignition swi	itch ON	0 V	
42	Ground	Cooling fan relay-2 control	Input	Ignition swi	tch OFF or ACC	0 V	
(SB)	Ground	Cooling lan relay-2 control	прис	Ignition swi	tch ON	0.7 V	
					Press the CVT selector button (CVT selector lever P)	Battery voltage	
43 (Y)	Ground	CVT shift selector (Detention switch)	Input	Ignition switch ON	CVT selector lever in any position other than P Release the CVT selector button (CVT selector lever P)	0 V	
44	Ground	Horn relay control	Input	The horn is deactivated		Battery voltage	
(W)	Cround	1.311 Totaly control	прис	The horn is activated		0 V	
45 (GR)	Ground	Anti theft horn relay control	Input	The horn is deactivated The horn is activated		Battery voltage 0 V	
46				CVT selector lever in any position other than P or N (ignition switch ON)		0 V	
(BR)	Ground	Starter relay control	Input	CVT selector lever P or N (ignition switch ON)		Battery voltage	
-					A/C switch OFF	0 V	
48 (W)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
49				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V	
(R/B)	Ground	Ground ECM relay power supply	Output	Ignition s (More that	witch ON witch OFF an a few seconds after turn- on switch OFF)	Battery voltage	
51	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V	
(LG)	Ground	igination roley power supply	Output	Ignition swi	tch ON	Battery voltage	
52	Ground	Ignition relay power supply	Output	Ignition swi		0 V	
(Y/G)		31 113	'	Ignition swi		Battery voltage	
50				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V	
53 (R/W)	Ground	ECM relay power supply	Output	Ignition s (More that	witch ON witch OFF an a few seconds after turn- on switch OFF)	Battery voltage	
<u> </u>				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V	_
54 (G/W)	Ground	Throttle control motor relay power supply Output		()Uffill - lawitian autital ON		Battery voltage	
55 (W/L)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage	
56	Ground	Ignition relay power supply	Output	Ignition switch OFF		0 V	
(R/Y)	Ground	ignition relay power supply	Output	Ignition switch ON		Battery voltage	
57	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V	
(O)	Ground	ignition roley power supply	Catput	Ignition swi	tch ON	Battery voltage	
58	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V	
(Y)		2	- 1	Ignition swi		Battery voltage	
69				Ignition swi (For a few s switch OFF	seconds after turning ignition	Battery voltage	
(W/B)	Ground	ECM relay control	Output	Ignition s (More that	witch ON witch OFF an a few seconds after turn- on switch OFF)	0 - 1.5 V	_
						0 -1.0 V	
70		Throttle control motor re-		Ignition swi	tch ON → OFF	↓ Battery voltage	
(O)	Ground	lay control	Output	ut -		↓ 0 V	
				Ignition swi	tch ON	0 - 1.0 V	
70		Tananania i " " i			CVT selector lever in P or N position	Battery voltage	
72 (R/B)		Ignition switch ON	CVT selector lever in any position other than P or N position	0 V			

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	Terminal No. Description					Value					
	color)	Signal name	Input/		Condition	Value (Approx.)					
+	_		Output		Engine stopped	0 V					
75 (LG)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped Engine running	Battery voltage					
						Dationy voltage					
				Ignition swi	tch ON	(V) 6 4 2 0 1 2 2ms 1 3 JPMIA0001GB					
76 (SB)	Ground	Power generation command signal	Output	Output	Output	Output	Output		40% is set on "Active test", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 20 JPMIA0002GB 3.8 V
				80% is set on "Active test", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 2 2 ms JPMIA0003GB 1.4 V					
77 (CD)	Ground	Fuel pump relay control	Output		nately 1 second after turning on switch ON unning	0 - 1.0 V					
(GR)			·		tely 1 second or more after ignition switch ON	Battery voltage					
80 (B)	Ground	Starter motor	Output	At engine of	ranking	Battery voltage					
83	Ground	Hoadlama LO (PU)	Output	Ignition	Lighting switch OFF	0 V					
(R/Y)	Giound	Headlamp LO (RH)	Output	switch ON	Lighting switch 2ND	Battery voltage					
84	Ground	Headlamp LO (LH)	Output	Ignition	Lighting switch OFF	0 V					
(L)		. , ,	•	switch ON	Lighting switch 2ND	Battery voltage					
86 (W/R)	Ground	Front fog lamp (RH)	Output	Lighting switch 2ND	 Front fog lamp switch ON Daytime running light activated (Only for Canada models) 	Battery voltage					
					Front fog lamp switch OFF	0 V					
87 (L/Y)	Ground	Front fog lamp (LH)	Output	Lighting switch 2ND	 Front fog lamp switch ON Daytime running light activated (Only for Canada models) 	Battery voltage					
					Front fog lamp switch OFF	0 V					

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (vvire	e color)	Signal name	Input/ Output	Condition		(Approx.)
88 (R/W)	Ground	Washer pump power supply	Output	Ignition swi	itch ON	Battery voltage
89 (L/W)	Ground	Headlamp HI (RH)	Output	Ignition switch ON	Lighting switch HI Lighting switch PASS	Battery voltage
(L/VV)				SWILCH ON	Lighting switch OFF	0 V
90 (G)	Ground	Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch HI Lighting switch PASS	Battery voltage
(G)				SWILCH ON	Lighting switch OFF	0 V
91		Parking lamp (RH)		Ignition	Lighting switch 1ST	Battery voltage
(LG/ R)	Ground	Side marker lamp (RH)	Output	switch ON	Lighting switch OFF	0 V
92		Parking lamp (LH)		Ignition	Lighting switch 1ST	Battery voltage
(LG/ B)	Ground	Side marker lamp (LH)	Output	Output switch ON	Lighting switch OFF	0 V
99 (BR/ W)	Ground	Ambient sensor ground	_	Ignition switch ON		0V
100 (SB)	Ground	Ambient sensor	_	Ignition swi	tch ON	5V
101 (W)	Ground	Refrigerant pressure sensor ground	_	Ignition swi	tch ON	0V
102 (R)	Ground	Refrigerant pressure sensor	_	 Ignition switch ON (READY) Both A/C switch and blower motor switch ON (electric compressor operates) 		1.0 - 4.0V
103 (P)	Ground	Refrigerant pressure sensor power supply	_	Ignition switch ON		5V
105	Ground	Daytime light relay control	Output	Ignition switch ON	Daytime light system active	Battery voltage
(V)	Giouila	(Only for Canada models)		Ignition switch ON	Daytime light system inactive	0 V

Fail Safe

CAN COMMUNICATION CONTROL

When CAN communication with ECM and BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If No CAN Communication Is Available With ECM

Control part	Fail-safe in operation
Cooling fan	 Signals cooling fans ON when the ignition switch is turned ON Signals cooling fans OFF when the ignition switch is turned OFF
A/C compressor	A/C relay OFF
Generator	Outputs the power generation command signal (PWM signal) 0%

If No CAN Communication Is Available With BCM

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< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe in operation
Headlamp	 Turns ON the headlamp low relay when the ignition switch is turned ON Turns OFF the headlamp low relay when the ignition switch is turned OFF Headlamp high relay OFF
Parking lampsSide marker lampsLicense plate lampsIlluminationTail lamps	 Turns ON the tail lamp relay when the ignition switch is turned ON Turns OFF the tail lamp relay when the ignition switch is turned OFF
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating.
Front fog lamps (if equipped)	Front fog lamp relay OFF
Horn	Horn OFF
Ignition relay	The status just before activation of fail-safe is maintained.
Starter motor	Starter control relay OFF

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay-1 inside it.
- IPDM E/R judges the ignition relay-1 error if the voltage differs between the contact circuit and the excitation coil circuit.
- If the ignition relay-1 cannot turn OFF due to contact seizure, it activates the tail lamp relay for 10 minutes to alert the user to the ignition relay-1 malfunction when the ignition switch is turned OFF.

DTC	Ignition switch	Ignition relay-1	Tail lamp relay
_	ON	ON	_
_	OFF	OFF	_
B2098: IGN RELAY ON	OFF	ON	ON (10 minutes)
B2099: IGN RELAY OFF	ON	OFF	_

NOTE:

The tail lamp turns OFF when the ignition switch is turned ON.

FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper auto stop signal.

When a front wiper auto stop signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 seconds activation and 20 seconds stop five times.

Ignition switch	Front wiper switch	Auto stop signal
ON	OFF	Front wiper stop position signal cannot be input 10 seconds.
	ON	The signal does not change for 10 seconds.

NOTE:

This operation status can be confirmed on the IPDM E/R "Data Monitor" that displays "BLOCK" for the item "WIP PROT" while the wiper is stopped.

STARTER MOTOR PROTECTION FUNCTION

IPDM E/R turns OFF the starter control relay to protect the starter motor when the starter control relay remains active for 90 seconds.

< ECU DIAGNOSIS INFORMATION >

DTC Index

CONSULT display	Fail-safe	TIME	NOTE	Refer to
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	1 – 39	PCS-15
B2098: IGN RELAY ON	×	CRNT	1 – 39	PCS-16
B2099: IGN RELAY OFF	_	CRNT	1 – 39	PCS-17
B210B: START CONT RLY ON	_	CRNT	1 – 39	<u>SEC-69</u>
B210C: START CONT RLY OFF	_	CRNT	1 – 39	<u>SEC-72</u>
B210D: STARTER RELAY ON	_	CRNT	1 – 39	<u>SEC-72</u>
B210E: STARTER RELAY OFF	_	CRNT	1 – 39	<u>SEC-74</u>
B210F: INTRLCK/PNP SW ON	_	CRNT	1 – 39	<u>SEC-76</u>
B2110: INTRLCK/PNP SW OFF	_	CRNT	1 – 39	<u>SEC-78</u>

NOTE:

The details of TIME display are as follows.

- · CRNT: The malfunctions that are detected now
- 1 39: The number is indicated when it is normal at present and a malfunction was detected in the past. It increases like 0 → 1 → 2 ··· 38 → 39 after returning to the normal condition whenever IGN OFF → ON. It is fixed to 39 until the self-diagnosis results are erased if it is over 39. It returns to 0 when a malfunction is detected again in the process.

SEC

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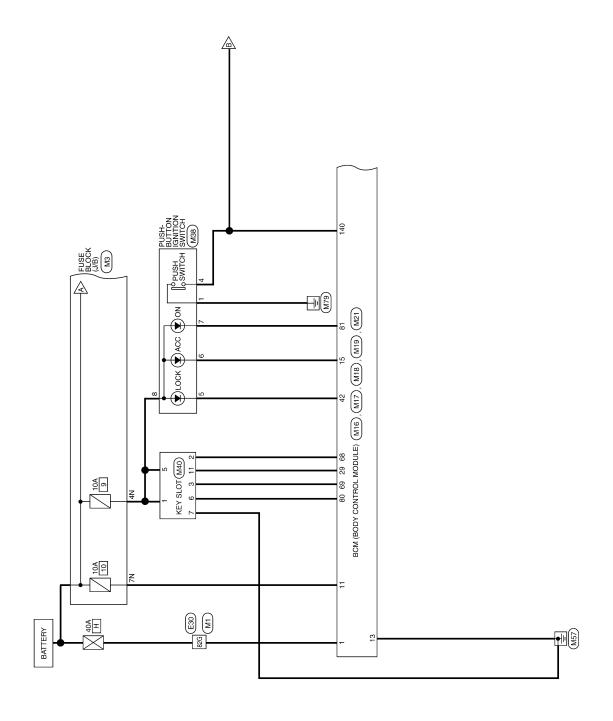
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WIRING DIAGRAM

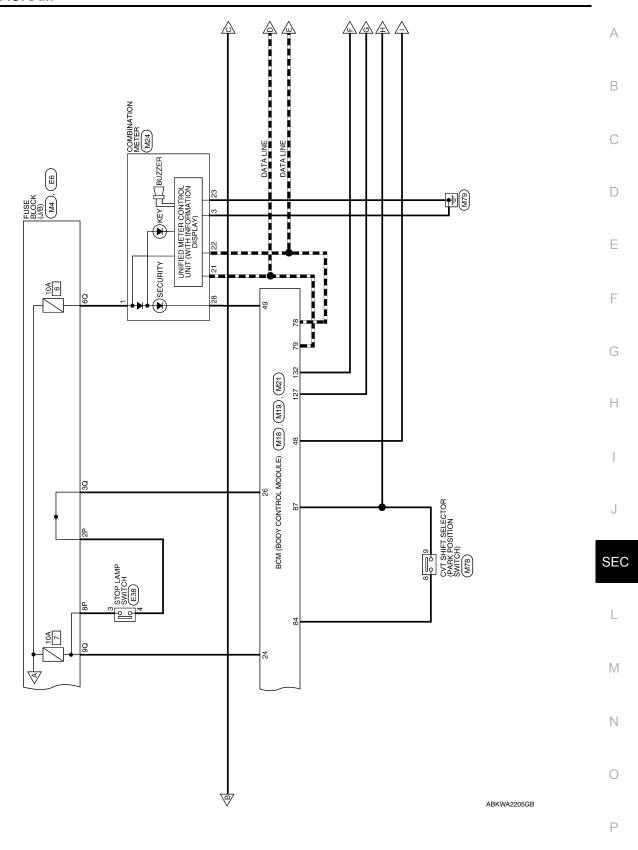
NVIS

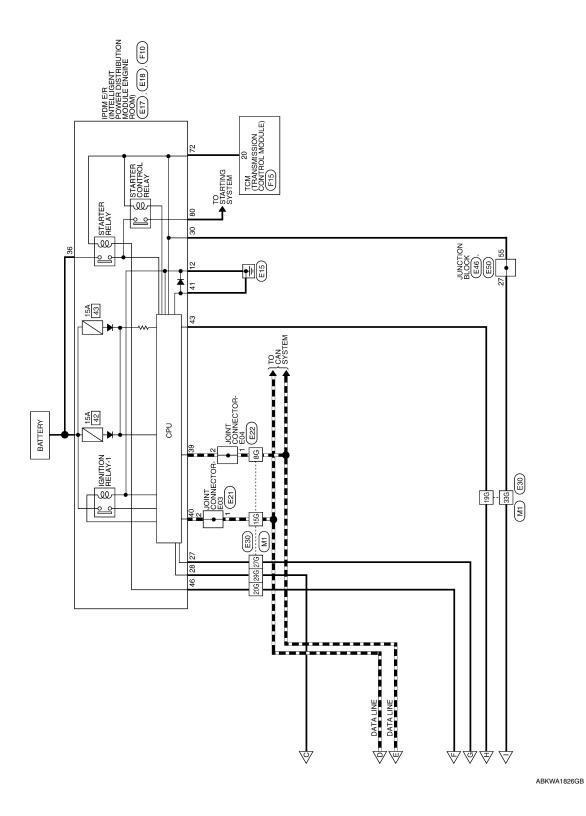
Wiring Diagram



NVIS

ABKWA1179GB





Connector Name FUSE BLOCK (J/B)

Connector No.

nal Name

Connector Color WHITE

NVIS CONNECTORS

Connector No.	No.	M1		Terminal No Milia	Color of	Coic
Connector	Name	Connector Name WIRE TO WIRE			wire	<u></u>
Connector Color WHITE	Color	WHITE		8G	۵	
				15G	_	
E	Į,			19G	G/B	
N I		96 86 76 66 56 46 36		20G	В	
	1761	176 166 156 146 136 126 116 106 26 16		27G	BR/W	
		286 256 246 236 226 216 206		29G	BR	
	346 33	34G 33G 32G 31G 30G 29G 28G 27G 19G 18G		33G	B/G	
		000 000 000		82G	M/B	
	506 4	50G 49G 48G 47G 46G 45G 44G 43G 42G				
		58G 57G 56G 55G	71			
	63G 62	63G 62G 61G 60G 59G 54G 53G 52G 51G				
	72	726 716 706 696 686 676 666				
	80G 79	80G 79G 78G 77G 76G 75G 74G 73G 65G 64G				
		_				

Signal Name

Terminal No. Wire

G/Y Y/R

4 K

Connector No. M16	M16	Connector No. M17	M17
onnector Name	Connector Name BCM (BODY CONTROL MODULE)	Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK	Connector Color WHITE	WHITE

Connector No. M4
Connector Name FUSE BLOCK (J/B)
Connector Color WHITE

	Signal Name	1	_	_
	Color of Wire	7/0	H/Y	M/H
2	Terminal No. Wire	30	D9	D 6

ABKIA3835GB

Signal Name BAT BCM FUSE

> Y/R Y/L

1 5 5

Color of Wire

Signal Name

Terminal No. Wire

BATT (F/L)

M/B

GND1 ACC LED

> L M

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81G

82G

83G

Signal Name	CAN-H	FOB SLOT ILLUMINATION	IGN ON LED	AT DEVICE OUT	SHIFT P/ASCD CANCEL SW
Color of Wire	Т	R/L	LG	Y/R	G/B
Terminal No. Wire	79	80	81	84	87

Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK
Į.	

Connector Name BCM (BODY CONTROL MODULE)

M18

Connector No.

GREEN

Connector Color

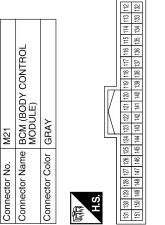


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S	83			18	1	
\$	84		<u>e</u>	;;	DA	
S	85		an	2	Œ.	Ţ
8	98		Z	回	Ы	ż
ò	87		Signal Name	FOB READER CLOCK	FOB READER DATA	CAN-L
8	88] jg		굡	
8	68		",	m	ВC	
?	90			요	Ħ	
_	91					
7/	92		. o	ി	_	
3	93		Color of Wire	g/0	0	Д
/4	94		<u>ٽ </u>			
/3	95		<u> </u>			
9	96		=			
//	97		.⊑	89	69	78
73 29 29 29 29 29 29 29 29 29 29 29 29 29	99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82		ΙE	-	ا آ	
2	66		Terminal No.			
Ť		_				

Signal Name	BRAKE SW 1	BRAKE SW 2	FOB IN SW 1	S/L LOCK LED	SHIFT N/P/NEUTRAL SW	(SECURITY INDICATOR)
Color of Wire	M/M	O/L	>	Я	B/G	r/o
Terminal No. Wire	24	26	29	42	48	49

Connector No.	M38	
Connector Name		PUSH-BUTTON IGNITION SWITCH
Connector Color		BROWN
同 H.S.	- 4	5 6 7 8
Terminal No.	Color of Wire	Signal Name
F	В	ı
4	BR	-
5	Я	-
9	T//A	-
7	Ы	_
8	Д/Ð	_

				19 20 39 40							
4	COMBINATION METER	WHITE		9 10 11 12 13 14 15 16 17 18 1	Signal Name	BAT	GND (POWER)	CAN-H	CAN-L	GND (CIRCUIT)	SECURITY
. M24				6 7 8 26 27 28	Color of Wire	Υ'R	В	٦	۵	В	Ç
Connector No.	Connector Name	Connector Color	原 H.S.	1 2 3 4 5 21 22 23 24 25	Terminal No.	-	က	21	22	23	28

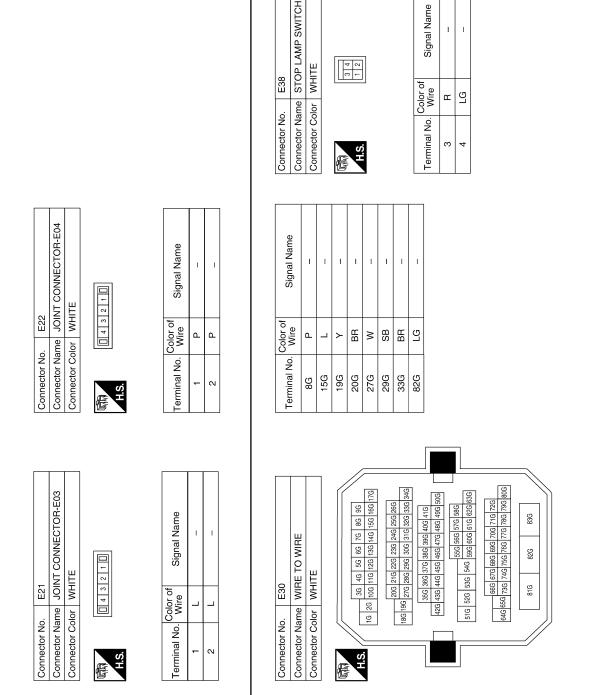


Signal Name	IGN RELAY OUTPUT	ST RELAY OUTPUT	ENG START SW
Color of Wire	BR/W	В	BR
Terminal No.	127	132	140

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		А
OCK (J/B) Signal Name Company Company	Signal Name GND (POWER) IGN SIGNAL PUSH START SW AT ECU F/L IGNSW	В
B B C C C C C C C C C C C C C C C C C C		С
Colo Will I Colo	Color of Wire SB W W BB BB BB	D
Connector No. Connector Name Connector Color Terminal No. 2P LV 8P F	Terminal No. 12 27 28 30 36 36 36 36 36 36	Е
	24 NN) (30 [31 [32 [33 [34]]]	F
M78 CVT SHIFT SELECTOR WHITE 1 3	POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE 13 14 2526272829 3037 7 8 15161771819 2022	G
	E18 IPDM E/R POWER C MADDLE WHITE	Н
		I
Connector No. Connector Colc Connector Colc A.S. H.S. B B B B	Connector Nar Connector Col	J
		SEC
Signal Name	POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE Is of a signal Name Is of CAN-L CAN-H CAN-H	L
MA40		
Connector No. Connector Color Connector Color H.S. 1 G/ 2 G/ 3 C G/ 5 G/ 7 B	Connector No. Connector Name Connector Color Terminal No. W 39 40 41 43 48 E46 E	N O
	ABKIA4889GB	

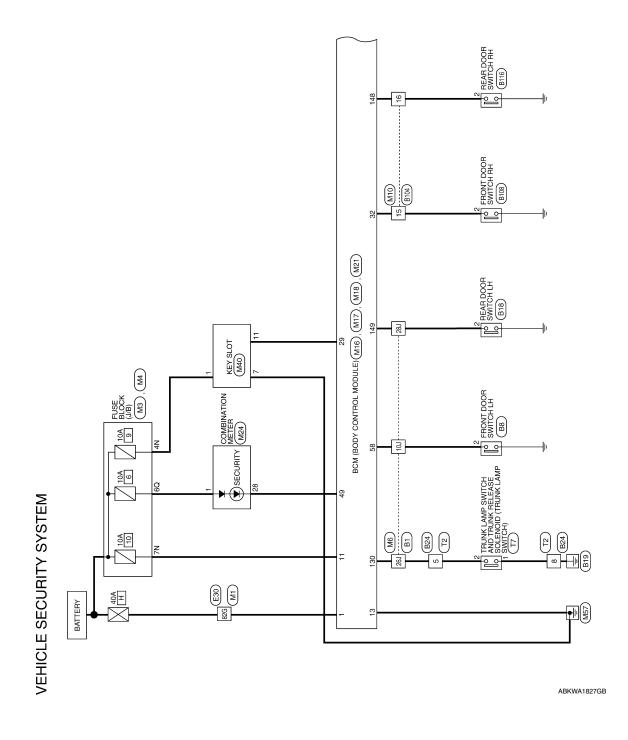


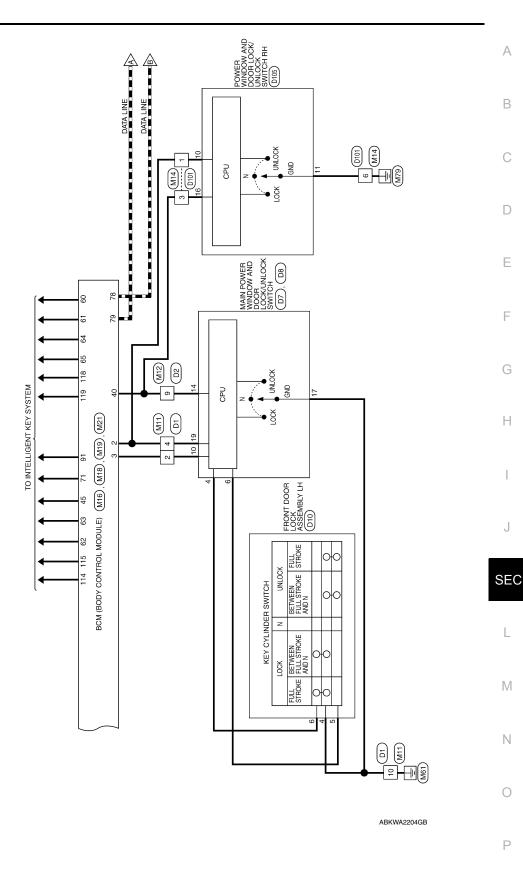
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SSION UULE) OULE) A 40 47 48 44 45 48 45 46 47 48 44 45 48 45 48 45 45 45 45 45 45 45 45 45 45 45 45 45	В
3ANSMI DL MOCE 17 18 19 17 18 19 19 17 18 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18	С
	D
Connector No. Connector Name Connector Color Terminal No. WW	Е
	F
Signal Name NP SW STARTER MOTOR	G
WHITE WHITE Sign Sign Strake S	Н
Colo William B B B B B B B B B B B B B B B B B B B	I
Connector No Connector No Connector No Terminal No.	J
MV (WO) (WO) (WO) (WO) (WO) (WO) (WO) (WO)	SEC
-	L
40.39 38 37 38 38 34 38 32 34 38 34 34 34 34 34 34 34 34 34 34 34 34 34	M
	N
Connector No. Connector Name Connector Color Terminal No. Color Connector Name Connector Name Connector Color At 48 49 50 5	0
I	IKIA2754GB

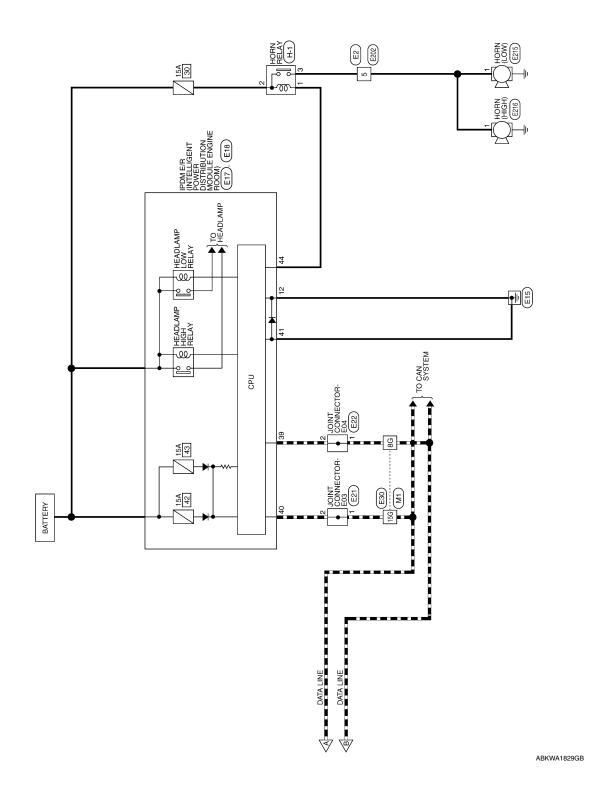
VEHICLE SECURITY SYSTEM

Wiring Diagram





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Connector No. M4 Connector Name FUSE BLOCK (J/B)	Connector Cotor WHITE 100 30 10 10 10 10 10 1	Terminal No. Wire Signal Name 6Q Y/R –					
CTORS Connector No. M3 Connector Name FUSE BLOCK (J/B)	WHILE IN I	Terminal No. Color of Wire Signal Name 4N G/Y - 7N Y/R -					
VEHICLE SECURITY SYSTEM CONNECTORS Connector No. M1 Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE	(本) (12 12 12 13 13 13 13 13	266 256 249 239 220 210 200 346 339 320 310 300 239 289 270 190 186 416 406 336 380 376 456 456 456 426 556 456 456 456 456 456 456 456 456 456 589 570 560 556 589 570 560 556 546 336 526 516	726 716 706 696 686 676 666 800 779 779 776 776 776 776 836 816	Terminal No. Wire Signal Name 8G P -	7	82G W/B –	ABKIA3838GI

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Connector No. M10 Connector Name WIRE TO WIRE Connector Color WHITE To 6 5 4	Connector No. M14
Terminal No. Wire Signal Name 10J SB - 26J W - 28J R/B -	M12 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Connector Color WHITE Connector Color WHITE Color of Color of Color of Signal Name Signal Name Color of Signal Name Color of Color of
Connector No. M6 Connector Name WIRE TO WIRE Connector Color WHITE Soulary 89 77 61 54 43 34 74 74 74 74 74 74 74 74 74 74 74 74 74	Connector No. M11

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				22 21 20 3 42 41 40				<u> </u>	≥								116 115 114 113 112 136 135 134 133 132				m	Ф				В
	BCM (BODY CONTROL MODULE)	EN		39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 20 35 35 35 35 35 35 35 35 35 35 35 35 35	Signal Name	FOB IN SW 1	AS DOOR SW 1	PW K-LINE GND RF2 A/L	IMMO LED (SECURITY INDICATOR)	DR DOOR SW		BCM (BODY CONTROL MODULE)	>				151 150 129 128 127 126 125 124 125 127 120 121 121 131 131 131 131 131 131 131 132 133	Signal Name	TRUNK ANT 1 B	TRUNK ANT 1 A	BACK DOOR ANT B	BACK DOOR ANT A	TRUNK SW	RR DOOR SW	RL DOOR SW	С
		or GREEN		34 33 32 3 54 53 52 5	Color of Wire	>	R/B	P 4/G	9	SB	M21		or GRAY				26 125 124 12: 46 145 144 14:	Color of Wire	В	W	9	BR/W	8	B/W	B/B	D
Connector No.	Connector Name	Connector Color	是 H.S.	39 38 37 36 35 35 59 59 58 58 58 58 59 59 59 59 59 59 59 59 59 59 59 59 59	Terminal No.	59	32	40	49	58	Connector No.	Connector Name	Connector Color		管	H.S.	131 130 129 128 127 13 151 150 149 148 147 14	Terminal No.	114	115	118	119	130	148	149	Е
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]				ne	JSE					9	NT A	IGNAL			E.S.										G
	BCM (BODY CONTROL MODULE)	щ	4 5 6 7 6 7 6 10 10 10 10 10 10 10 10 10 10 10 10 10		Signal Name	BAT BCM FUSE	GND1				Omer I leaving	DR DOOR ANT A	RF1 TUNER SIGNAL	CAN-L	CAN-H	RF POWER SUPPLY 12V										Н
		or WHITE	11 12 13 1		Color of Wire	Υ/R	В				Color of	Wire P	9	۵	_	Z Z										I
Connector No.	Connector Name	Connector Color	H.S.		Terminal No.	=	13				O N legimal	65	71	78	62	91										J
																Ī	80									SEC
COL	BCM (BODY CONTROL MODULE)				Signal Name	BATT (F/L)	P/W POWER	P/W POWER				BCM (BODY CONTROL MODULE)					69 68 67 66 65 64 63 62 61 60 89 88 87 86 85 84 83 82 81 80	Signal Name	ROOM ANT 2 B	ROOM ANT 2 A	AS DOOR ANT B	AS DOOR ANT A	DR DOOR ANT B			L
M16	BCM (BOI MODULE)	BLACK	1 3				_ u				M19	CM (BOI ODULE)	BLACK				2 71 70 69		- B		AS	AS	占			M
		-			Color of Wire	M/B	₽	3				Jame BC					5 74 73 72 71 5 94 93 92 91	Color of Wire	B/R	W/R	>	۵	>			Ν
Connector No.	Connector Name	Connector Color	所.H.S.		Terminal No.	-	8	ო			Connector No.	Connector Name	Connector Color		E	H.S.	79 78 77 76 74 73 72 71 70 69 68 67 66 65 68 67 66 68 67 68 67 68 67 68 68 67 68<	Terminal No.	09	61	62	63	64			0
																						AB	KIA38	839G	В	
																										Р

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VEHICLE SECURITY SYSTEM

Connector No. E2 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. Wire Signal Name 5 O –	Connector No. E21 Connector Name JOINT CONNECTOR-E03 Connector Color WHITE The state of the sta	Terminal No. Wire Signal Name
Connector No. M40 Connector Name KEY SLOT Connector Color WHITE To a 4 5 6 To a 9 10 11 12	Terminal No. Color of Wire Signal Name 1 G/Y - 7 B - 11 Y -	Connector No. E18 Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE H.S.	10 11 12 13 14
Connector No. M24 Connector Name COMBINATION METER Connector Color WHITE M.S. H.S. Table 12 2 24 25 56 27 28 29 30 31 32 33 34 36 36 37 38 39 40	Terminal No. Wire Signal Name 1 Y/R BAT 28 L/O SECURITY	Connector No. E17 Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE	Terminal No. Color of Wire Signal Name 39 P CAN-L 40 L CAN-H 41 B GND (SIGNAL) 44 W HORN RLY

Revision: August 2013 SEC-142 2014 Maxima NAM

VEHICLE SECURITY SYSTEM

																	А
Signal Name	1	ı	ı									IGH)		Signal Name	ı		В
Color of Wire	А		re								E216	HORN (HIGH) BLACK	-		5		С
al No. W											tor No.	Connector Name		Color of Wire			D
Terminal No.	8G	15G	82G								Connector No.	Connec	引 H.S.	Terminal No.	-		Е
		7	(/		ı [<u></u>											F
				76 86 96 146 156 166 174	46 256 266	16 326 336 34	3 48G 49G 50G	G 57G 58G G 61G 62G 63C	70G 71G 72G 7G 78G 79G 8	83G				lame	,		G
	N N N			2G 10G 11G 12G 13G 14G 15G 16G 17G	20G 21G 22G 23G 24G 25G 26G	186 196 276 286 296 306 316 326 336 346	35G 36G 37G 38G 39G 40G 41G 42G 43G 44G 45G 46G 47G 48G 49G 50G	55G 56G 57G 58G 53G 54G 59G 60G 61G 62G 63G	66G 67G 88G 89G 77G 77G 72G 73G 73G 77G 77G 79G 80G	826		I (LOW)		Signal Name			Н
E30	or WHT			36 106 1	206	18G 19G 27G	35G 36 42G 43G 44	51G 52G 53	64G 65G 73G	816	E215	me HORN (Color of Wire	ڻ ق		
Connector No. E30	Connector Color WHITE			oj.							Connector No.	Connector Name HORN (LOW) Connector Color BLACK	H.S.	Terminal No.	-		ı
ÖÖ	8 8		E								Col	<u> </u>		L L			J
		7					_										SEC
T C C	WHITE				Signal Name									Name	1		L
		!	2 1		Signa							TO WIRE	6 5 4	Signal Name			M
			4 3 2		Color of Wire	۵	۵.				. E202	me WIRE T	8 3	Color of Wire	ŋ		N
Connector No.	Connector Color			H.S.	Terminal No.	-	2				Connector No.	Connector Name WIRE TO WIRE Connector Color WHITE	E S	Terminal No.	5		IN
Con	3 5		E	7	Teri						Col	වි වි	E T	Ter		ABKIA3842GB	0
											-					ADNIA3842GB	Р

Revision: August 2013 SEC-143 2014 Maxima NAM

	Connector Name FRON DOOR SWITCH LH			ý,	Terminal No. Color of Signal Name	2 SB				Connector No. B104	WIRE TO WIRE Connector Name WIRE TO WIRE	Connector Color WHITE	[1] 2 3
Terminal No. Wire	10J SB	26J W	28J BR							Connector No. B24	\vdash	Connector Color WHITE	H.S.
B1	Connector Name WIRE 10 WIRE	_		10 20 100/11/12/11/15/15	31/J 32J 33J 94J 35J 36J 37J 38J 32J 40J 41J 42J 42J 43J 44J 45J 46J	42J 48J 55J 51J 58J 53J 55J 55J 55J 55J 55J 55J 55J 55J 55	[64] [65] [65] [65] [65] [67] [68] [67] [78] [78]	C26 C47 827		Connector No. B18	REAR DOOR SWITCH LH	Connector Color WHITE C	所 H.S.

VEHICLE SECURITY SYSTEM

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	9 B		2 141 13	аше	В
E TO WIRE	Signal Name		Name WIRE TO WIRE Color WHITE 12 11 10 9 8 7 6 5 4 12 1 1 1 1 1 1 1 1	Signal Name	С
Connector No. T2 Connector Name WIRE TO WIRE Connector Color WHITE	Color of Wire B		Name WIRE T Color WHITE 12 11 10 9 8 7 24 23 22 21 20 19	Color of Wire	D
Connector No. Connector Name Connector Color	Terminal No. 5	Connector No.	Connector Name Connector Color H.S. 24 22 2	Terminal No. 9	Е
					F
B116 REAR DOOR SWITCH RH WHITE	Signal Name		WHR	Signal Name	G
B116 WHITE	Color of Wire Si	D1	MINE TO WIR	Color of Wire V	Н
Connector No. B116 Connector Name REAR I Connector Color WHITE	Terminal No. Col	Connector No.	ctor Na	Terminal No. W	I
Conne	Term	Conn	Conne Conne H.S.	Term	J
					SEC
Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE	Signal Name -		Connector Name TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID Connector Color WHITE	Signal Name	L
B108 F FRONT [Color of Wire GR	41		Color of Wire B	M
Connector No. B108 Connector Name FRONT Connector Color WHITE H.S.	Terminal No.	Connector No.	Connector Name Connector Color	Terminal No.	N
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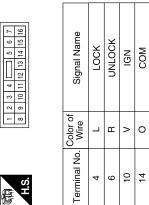
Connector No. D8	D8	Connector No.	D10
Connector Nam	Connector Name AND DOOR LOCK/UNLOCK	Connector Nan	Connector Name FRONT DOOR LOCK ASSEMBLY LH
	SWIICH	Connector Color GRAY	r GRAY
Connector Color WHITE	ır WHITE		
「南南 H.S.	17 18 19	国。 H.S.	20 20 4 4 00 00 00
Terminal No. Wire	color of Signal Name	Terminal No. Wire	olor of Signal Name

	ı	1	ı			Connector Name FUSE AND FUSIBLE LINK BOX (HORN RELAY)			
MIE MIE	В	œ	_		H-1	ne FUS BO	١		
3	4	5	9		Connector No.	Connector Nam	Connector Color	T.S.	_
			1					 	

Signal Name

N SB 0

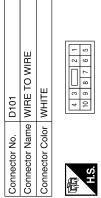
Connector No.	D7
Connector Name	Connector Name AND DOOR LOCK/UNLOCK SWITCH
Connector Color WHITE	WHITE

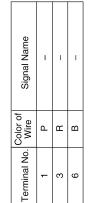


GND BAT

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17 19

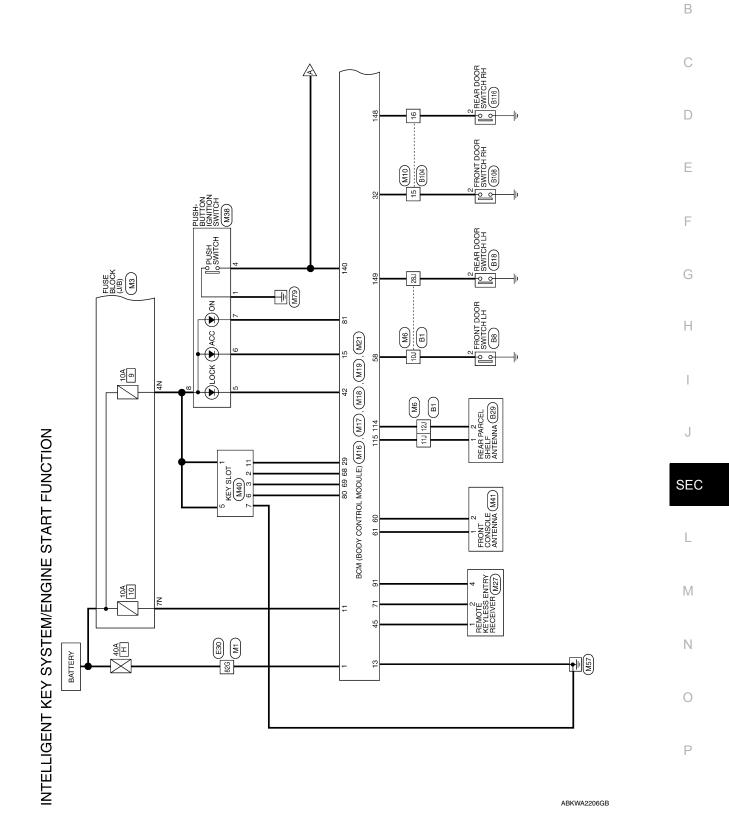


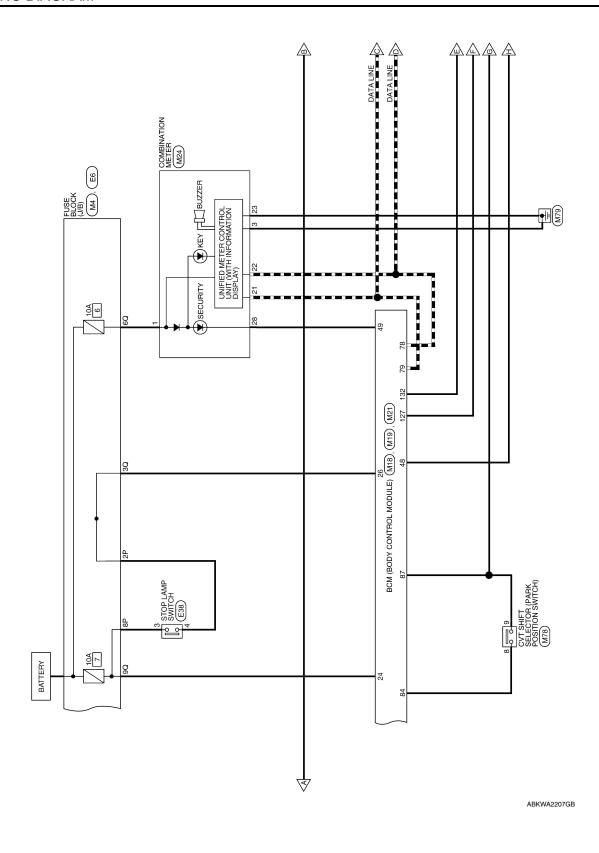


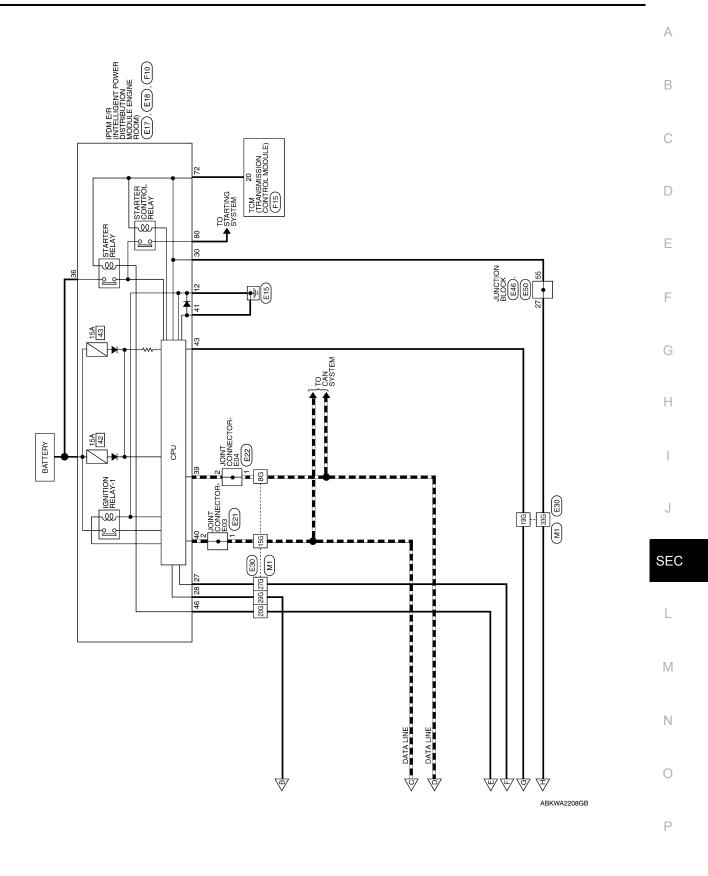
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Wiring Diagram

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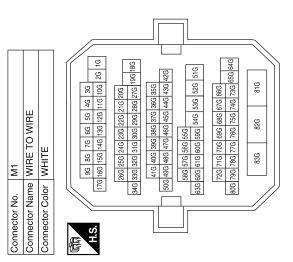




INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION CONNECTORS

Connector No.	e	M3 FUSE BLOCK (J/B)
Connector Color WHITE	or WHI	TE
H.S.		
Terminal No.	Color of Wire	Signal Name
A4	G/Y	ı
NZ	Y/R	1

Signal Name	ı	1	_	_	ĺ	-	I	1	
Color of Wire	۵	٦	G/B	В	BR/W	BR	R/G	M/B	
Terminal No.	86	15G	19G	20G	27G	29G	33G	82G	



M4	Connector Name FUSE BLOCK (J/B)	WHITE	
Connector No.	Connector Name	Connector Color	



Signal Name	ı	-	ı
Color of Wire	O/L	Y/R	B/W
Terminal No.	30	D9	90

ABKIA3831GB

< WIRING DIAGRAM >

ame		A B
M10 NWHITE WHITE WHITE Solor of Side S		С
ctor No.		D
Conne Conne Termi		E
Signal Name	M17	F G H
No. Color of Wire SB	O S S S S S S S S S S S S S S S S S S S	I
Terminal No. 10J 11J 12J 28J	Connector No. Connector Name Connector Color H.S. 11 13 13 15 15 15 15	J
M6 M6 M1 M6 M1 M6 M1 M1	M16 BCM (BODY CONTROL MODULE BLACK T of Signal Name B BATT (F/L)	SEC L
M6 WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE	Connector Name BCM (B MODUL Connector Color BLACK H.S. 1 W/B	N
	ABKIA1807GB	Р

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Signal Name	CAN-L	CAN-H	FOB SLOT ILLUMINATION	IGN ON LED	AT DEVICE OUT	SHIFT P/ASCD CANCEL SW	RF POWER SUPPLY 12V
Color of Wire	Д	Г	B/L	ГG	Y/R	G/B	L/R
Terminal No. Wire	78	62	80	81	84	87	91



Connector Name BCM (BODY CONTROL MODULE) GREEN

Connector Color

M18

Connector No.







	2	4	ı
	27	47	П
-117	78	48 47	
- IV	29	49	il
- 11	30	50	il
	31	51	
	32	52	ı
	83	53	il
	34	54	il
	35	55	
	36	56	
46	37	22	il
H.S.	39 38	58	
7	88	59	

Signal Name	BRAKE SW 1	BRAKE SW 2	FOB IN SW 1	AS DOOR SW 1	S/L LOCK LED	GND RF2 A/L	SHIFT N/P/NEUTRAL SW	(SECURITY INDICATOR)	DR DOOR SW
Color of Wire	B/W	0/L	>	B/B	æ	Ь	B/G	9/1	SB
Terminal No.	24	26	29	32	42	45	48	49	58

FOB READER CLOCK FOB READER DATA RF1 TUNER SIGNAL

> 9 0

> > 71

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ROOM ANT 2 B **ROOM ANT 2 A**

Signal Name

Color of Wire B/B W/R 0/9

Terminal No.

60 68

Signal Name	IGN RELAY OUTPUT	ST RELAY OUTPUT	ENG START SW	WS HOOD RA	MS HOOD JH
Color of Wire	BR/W	В	BR	R/W	B/B
Terminal No.	127	132	140	148	149

M21	Connector Name BCM (BODY CONTROL MODULE)	GRAY	
Connector No.	Connector Name	Connector Color GRAY	



Signal Name	TRUNK ANT 1 B	TRUNK ANT 1 A
Color of Wire	В	W
Terminal No.	114	115

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< WIRING DIAGRAM >

		A	Connector Color	-	BLACK	8	Connector Color		BROWN
雨 H.S.			E		2 3 4		S.	1 4 5 6	7 8
1 2 3 4 5 21 22 23 24 25	6 7 8 26 27 28	9 10 11 12 13 14 15 16 17 18 19 29 30 31 32 33 34 35 36 37 38 39	20			•	<u> </u>		
Terminal No.	Color of Wire	Signal Name	Terminal No.	No. Wire	ار Signal Name	Te	Terminal No.	Color of Wire	Signal Name
-	Y/R	BAT	_	۵	-		-	В	1
က	В	GND (POWER)	2	9	ı		4	BB	ı
21	7	CAN-H	4	L'R	1		2	æ	1
22	Ь	CAN-L					9	Y/L	ı
23	В	GND (CIRCUIT)					7	P	ı
28	9	SECURITY					8	ζ/9	1
Connector No.	O. M40	C	Connector No	No No	-	S	Connector No.	. M78	
Connector Name		KEY SLOT	Connect	or Name FB	Connector Name FBONT CONSOLE ANTENNA	<u> </u> 8	Connector Name	1	CVT SHIFT SELECTOR
Connector Color		WHITE	Connect	Connector Color GRAY	AY.	8	Connector Color	-	ш
明 H.S.	- 1 - 1	3 4 4 5 6 11 12	H.S.				H.S.	2 4 3	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	of Signal Name	Te	Terminal No.	Color of Wire	Signal Name
-	G/Y	1	-	W/R	ı		8	Y/R	1
2	0/9	1	2	B/B	ı		6	G/B	I
က	0	ı							
2	G/Y	ı							
9	B/L	ı							
7	В	1							
11	λ	ı							

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Connector No.		E21
Connector Name		JOINT CONNECTOR-E03
Connector Color		WHITE
H.S.	4	3 2 1 0
Terminal No.	Color of Wire	of Signal Name
1	٦	1
2	٦	ı

Connector No.	E21
Connector Name	Connector Name JOINT CONNECTOR-
Connector Color WHITE	WHITE

al No.	Color of Wire	Signal Name
	В	GND (POWER)
	Χ	IGN SIGNAL
	SB	PUSH START SW
	BR	AT ECU
	В	F/L IGNSW

Signal Name	GND (POWER)	IGN SIGNAL	PUSH START S\	AT ECU	MSN9I T/J
Color of Wire	В	Ν	SB	BR	G
Terminal No.	12	27	58	08	98

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Connector Name Connector No.

Connector Color WHITE

"	Г	_			_	٦
		$ \Gamma $	æ	98	٦	
			37	35		
			25 26 27 28 29 30 31 32 33 34	15 16 17 18 19 20 21 22 23 24		
	F					ጘ
			4	8		
			13	7		
	٦		12	9		Γ
			10 11 12 13	2		
			10	4		
SH			6	3		
7		L				

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Connector No.	E17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color WHITE	WHITE





Signal Name	_	_
Color of Wire	ГG	В
Terminal No.	2P	8P

GND (SIGNAL)

В

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CAN-H CAN-L

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DETENT SW START CONT

BB

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Signal Name

Terminal No. Wire



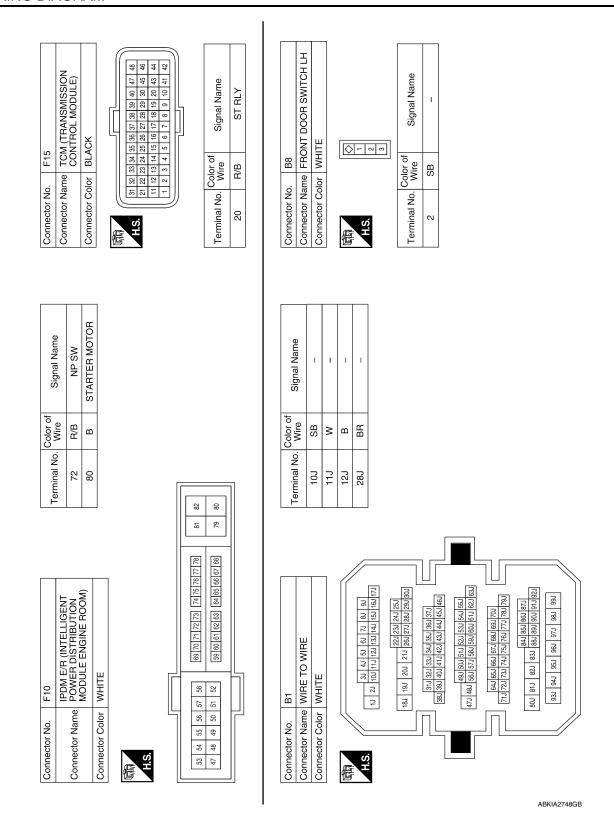
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< WIRING DIAGRAM >

		А
Signal Name	N BLOCK Signal Name	В
	T T T T T T T T T T T T T T T T T T T	С
No. Color of Wire SB	1	D
Terminal No. 8G 8G 15G 20G 29G 29G 33G 82G	Connector No. Connector Color Terminal No. WW	Е
		F
WIRE 150 76 86 96 150 140 150 166 176 150 140 150 166 176 150 240 256 266 150 300 310 320 330 150 210 250 250 266 150 150 250 250 250 150 250 250 250 250 150 250 250 250 250 150 250 250 250 250 150 250 250 250 250 150 250 250 250 250 150 250 250 250 250 150 250 250 250 250 150 250 250 250 250 150 250 250 150 250 250 250 150	ame XX	G
0 V O V S S S S S S S S S S S S S S S S S	E46 JUNCTION BLOCK WHITE	Н
Aame WIRE T	No. E46 Name JUNCT Color of Mire BR	I
Connector No. Connector Name Connector Color H86	Connector No. Connector Name Connector Color H.S. Terminal No. Will	J
		SEC
MHITE WHITE Vol Signal Name	STOP LAMP SWITCH WHITE 3 4	L
	I	IVI
cctor N lal No	ctor Ni	N
Conne Conne Termin		0
	I ABKIA2747GB	Р

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< WIRING DIAGRAM >

	А
O WIRE Signal Name	В
MIRE T WIRE T WHIRE T	С
Connector No. Connector Name Connector Color Terminal No. Terminal No. Terminal No. Terminal No.	D
	E
	F
B29 REAR PARCEL SHELF ANTENNA GRAY GRAY or of Signal Name B116 REAR DOOR SWITCH RH WHITE Or of Signal Name B	G H
Connector No. Connector Name Connector Color Terminal No. Will Connector Name Connector No. Connector No. Connector No. Connector No. A.S. H.S. A.S. A	J
	SEC
TTCH LH WITCH RH	L
B18 REAR DOOR SWITCH LH WHITE Signal Name FRONT DOOR SWITCH RH WHITE Or of Signal Name 1	M
No. B18 No. Color of WHITE Color of WHITE Color of WHITE S. Wire S. W	N
Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. Connector Color Terminal No. W. W. Z. Gold Terminal No. W. Color Terminal No. Color Color	0
1	ABKIA2749GB

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< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION SYMPTOMS

Symptom Table

Engine cannot be started with all Intelligent Keys.

CAUTION:

- Follow Trouble Diagnosis Flowchart referring to "SEC-4, "Work Flow"". Determine malfunctioning condition before performing this diagnosis.
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis.
- Check systems shown in the "Diagnosis/service procedure" column in this order.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- · Engine start function is ON when setting on CONSULT.
- Use Intelligent Key with registered Intelligent Key ID.
- One or more of Intelligent Keys with registered Intelligent Key ID is in the passenger compartment.

Diagnosis/service procedure		Reference page
1 Charles according to the condition of	ВСМ	<u>SEC-80</u>
Check power supply and ground circuit	IPDM E/R	<u>SEC-81</u>
2. Check push button ignition switch		PCS-65
3. Check Intermittent Incident		<u>GI-41</u>

VEHICLE SECURITY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

VEHICLE SECURITY SYSTEM SYMPTOMS

Symptom Table

	Proced	dure	Diagnostic procedure	Pofor to nace
Symptom		tom	Diagnostic procedure	Refer to page
1 tem 0	Vehicle security system cannot be set by	Door switch	Check door switch	DLK-67
		Trunk	Check trunk room lamp switch	DLK-88
		Door outside key	Check key cylinder switch	DLK-77
		Intelligent Key	Check Intelligent Key.	DLK-113
		_	Check Intermittent Incident	<u>GI-41</u>
	Security indicator does not turn ON.		Check vehicle security indicator	<u>SEC-92</u>
	Security indicator does	s not turn Oin.	Check Intermittent Incident	<u>GI-41</u>
* Vehicle security system does not sound alarm when			Check door switch	DLK-67
	system does not sound alarm when ····	Any door is opened.	Check Intermittent Incident	<u>GI-41</u>
		•	Check horn	<u>SEC-88</u>
	alarm does not acti-		Check Intermittent Incident	<u>GI-41</u>
		Head laws slave	Check head lamp alarm	SEC-90
		Head lamp alarm	Check Intermittent Incident	<u>GI-41</u>
	tem cannot be can-		Check key cylinder switch	<u>SEC-85</u>
			Check Intermittent Incident	<u>GI-41</u>
4			Check Intelligent Key	DLK-113
		Intelligent Key	Check Intermittent Incident	<u>GI-41</u>

^{*:} Check that the system is in the armed phase.

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NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS SYMPTOMS

< SYMPTOM DIAGNOSIS >

NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS SYMPTOMS

Symptom Table

Security indicator does not turn ON or flash.

CAUTION:

- Follow Trouble Diagnosis Flowchart referring to "SEC-4, "Work Flow"". Determine malfunctioning condition before performing this diagnosis.
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis.
- Check systems shown in the "Action" column in this order.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- · Intelligent Key is not inserted into key slot.
- · Engine switch is not depressed.

Action	Reference page
Check vehicle security indicator	<u>SEC-92</u>
2. Check Intermittent Incident	<u>GI-41</u>

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRF-TFNSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front

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air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Work INFOID:0000000009725704

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- · Be sure to tighten bolts and nuts securely to the specified torque.
- · After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty

SEC-161

- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Special Service Tool

INFOID:000000009465655

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set	Removing trim components

REMOVAL AND INSTALLATION

KEY SLOT

Removal and Installation

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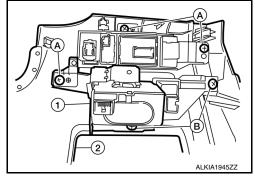
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REMOVAL

- 1. Remove the instrument lower panel LH. Refer to IP-19. "Removal and Installation".
- 2. Remove the switch assembly screws (A), remove the key slot screws (B) and then remove key slot (1) from instrument lower panel LH (2).



INSTALLATION

Installation is in the reverse order of removal.

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PUSH BUTTON IGNITION SWITCH

< REMOVAL AND INSTALLATION >

PUSH BUTTON IGNITION SWITCH

Removal and Installation

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REMOVAL

- 1. Remove push-button ignition switch from cluster lid A, using a suitable tool.
- 2. Disconnect harness connector from push-button ignition switch.

INSTALLATION

Installation is in the reverse order of removal.