SECURITY CONTROL SYSTEM

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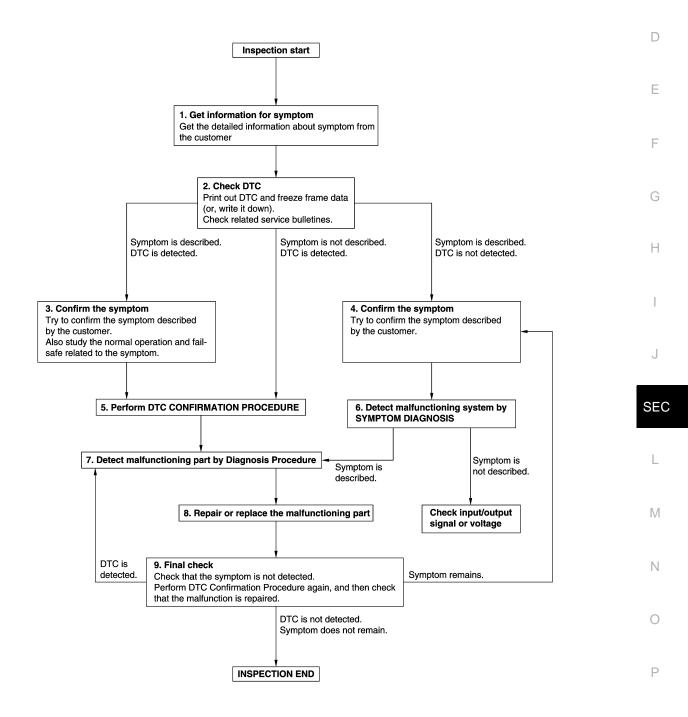
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[INTELLIGENT KEY SYSTEM]

1.GET INFORMATION FOR SYMPTOM

- Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
- 2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is detected.
- Record DTC and freeze frame data (Print them out using CONSULT.)
- Erase DTC
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

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

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to BCS-83. "DTC Inspection Priority Chart" (BCM), PCS-32. "DTC Index" (IPDM E/R), 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 on 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 CONFIR-MATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-39, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-SULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-39, "Intermittent Incident".

8.repair or replace the malfunctioning part

1. Repair or replace the malfunctioning part.

- Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
- 3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

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

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[INTELLIGENT KEY SYSTEM]

INSPECTION AND ADJUSTMENT ECM RE-COMMUNICATING FUNCTION

ECM RE-COMMUNICATING FUNCTION: Description

INFOID:0000000011489143

Performing the 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 a virgin 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, follow the instruction of CONSULT display.
- If multiple keys are attached to the key holder, separate them before beginning work.
- Distinguish keys with unregistered key IDs from those with registered IDs.

ECM RE-COMMUNICATING FUNCTION: Work Procedure

INFOID:0000000011489144

1. PERFORM ECM RE-COMMUNICATING FUNCTION

- 1. Install ECM.
- 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 the "ON" position for at least 5 seconds.
- 4. Turn ignition switch to "OFF".
- 5. Start engine.

Can engine be started?

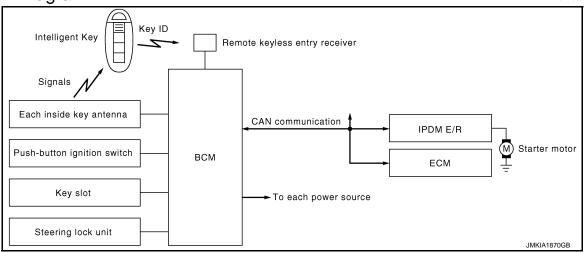
YES >> Procedure is completed.

NO >> Initialize control unit.

SYSTEM DESCRIPTION

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

System Diagram



System Description

INFOID:0000000011489146

INFOID:0000000011489145

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 communication 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 communication 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.
- If the ID is successfully verified, and when push-button ignition switch is pressed, steering lock will be released and 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.
- Up to 4 Intelligent Keys can be registered (Including the standard Intelligent Key) on request from the owner.
 NOTE:
 - Refer to <u>SEC-9</u>, "<u>System Description</u>" for any functions other than engine start function of Intelligent Key system.

PRECAUTIONS FOR INTELLIGENT KEY SYSTEM

In the Intelligent Key system, 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, the BCM signals the inside key antenna and transmits the request signal to the Intelligent Key.
- The Intelligent Key receives 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.

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INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

- 4. BCM transmits the steering lock unlock signal to steering lock unit and IPDM E/R if the verification results are OK.
- 5. IPDM E/R turns the steering lock relay ON and supplies power to the steering lock unit.
- Release of the steering lock.
- BCM transmits the power supply stop signal to IPDM E/R when it confirms that the steering lock is in the unlock condition.
- 8. IPDM E/R turns the steering lock relay OFF and stops power supply to the steering lock unit.
- 9. BCM turns ACC relay ON and transmits the ignition power supply ON signal to IPDM E/R.
- 10. IPDM E/R turns the ignition relay ON and starts the ignition power supply.
- 11. BCM confirms that the shift position is P or N.
- 12. 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.
- 13. IPDM E/R turns the starter control relay ON when receiving the starter request signal.
- 14. 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.

15. When BCM receives 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 the 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-15, "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
- Shift lever is in the P position

Reset Condition of Battery Saver System

If any of the following conditions are met the battery saver system is released and the steering will change automatically to the lock position from the OFF position.

- Opening any door
- Operating with request switch on door lock
- Operating with Intelligent Key on door lock

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

STEERING LOCK OPERATION

Steering is locked by steering lock unit when ignition switch is in the OFF position, shift lever is in the P position and any of the following conditions are met.

- Opening door
- · Closing door
- Door is locked with request switch
- Door is locked with Intelligent Key

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

POWER SUPPLY POSITION CHANGE TABLE BY PUSH-BUTTON IGNITION SWITCH OPERATION

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 and 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
- Shift lever position
- Vehicle speed

Vehicle speed: less than 4 km/h (2.5 MPH)

Engine start/stop condition		Push-button ignition switch	
Power supply position –	Shift lever position	Brake pedal operation condition	operation frequency
$LOCK \to ACC$	_	Not depressed	1
$LOCK \to ACC \to ON$	_	Not depressed	2
$LOCK \to ACC \to ON \to OFF$	_	Not depressed	3
$\begin{array}{c} LOCK \to START \\ ACC \to START \\ ON \to START \end{array}$	P or N position	Depressed	1
Engine is running → OFF	_	_	1

Vehicle speed: 4 km/h (2.5 MPH) or more

Power supply position	Power supply position Engine start/stop condition Shift lever position Brake pedal operation condition		Push-button ignition switch
i ower supply position			operation frequency
Engine is running → ACC	_	_	Emergency stop operation
Engine stall return operation while driving	N position	Not depressed	1

Emergency stop operation

- Press and hold the push-button ignition switch for 2 seconds or more.
- Press the push-button ignition switch 3 times or more within 1.5 seconds.

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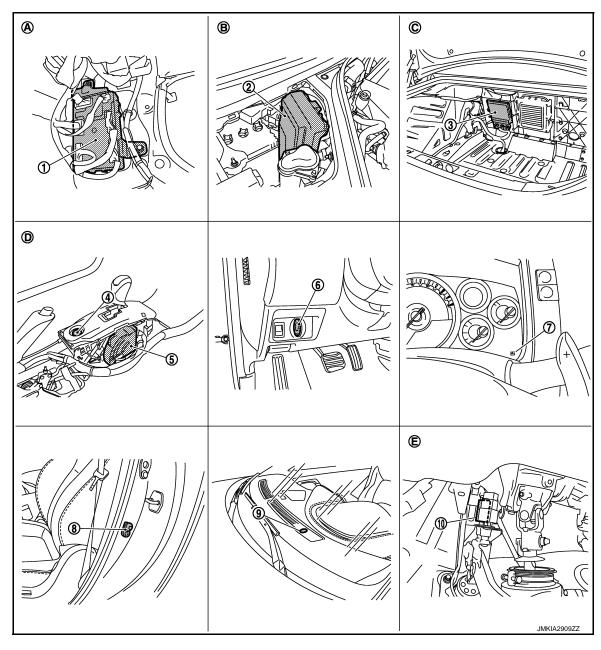
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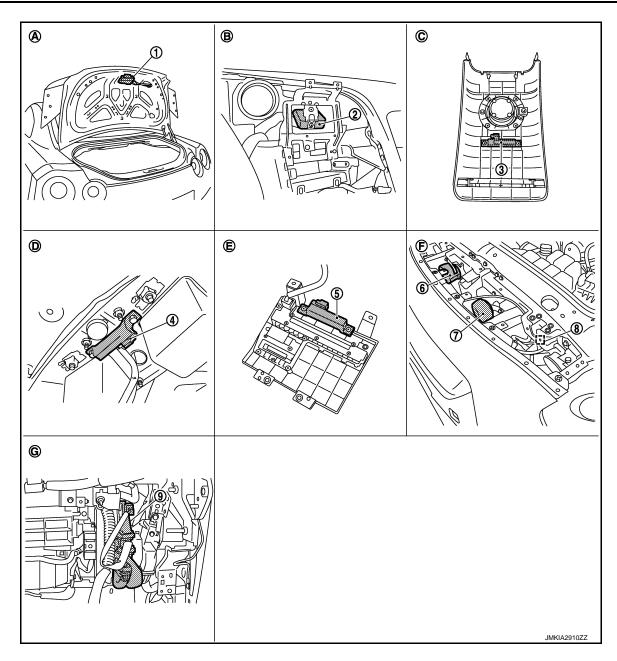
Component Parts Location



- 1. BCM M118, M119, M121, M122, M123
- 4. Push-button ignition switch M131
- 7. Combination meter (Key warning lamp) M53
- 10. Stop lamp switch E110
- A. Behind the instrument lower panel RH
- D. View with center console assembly removed

- 2. IPDM E/R E4, E5, E6, E7
- 5. A/T shift selector (detention switch)
- 8. Driver side door switch B21
- B. Engine room dash panel (RH)
- E. View with instrument lower panel (driver) removed

- 3. TCM B45
- 6. Key slot M60
- 9. Security indicator lamp M29
- C. View with trunk front finisher removed



- Trunk lid lock assembly (trunk room 2. lamp switch) B352
- 4. Inside key antenna (trunk room) B41 5.
- 7. Horn (low) E81, E82
- A. View with trunk lid finisher removed
- D. Behind the trunk front finisher
- G. Behind the instrument lower panel (assist)

- Remote keyless entry receiver M134 3.
- Inside key antenna (instrument cen- 6. ter) M75
- 8. Hood switch E83
- B. Behind the display unit
- E. Back of the cluster kid C (lower)
- Inside key antenna (console) M146
- Horn (high) E79, E80
- 9. ECM M107
- C. Back of the rear console assembly
- F. Behind the front bumper

Component Description

INFOID:0000000011489148

Component	Reference
BCM	SEC-90
Steering lock unit	SEC-78
Push-button ignition switch	SEC-91

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INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

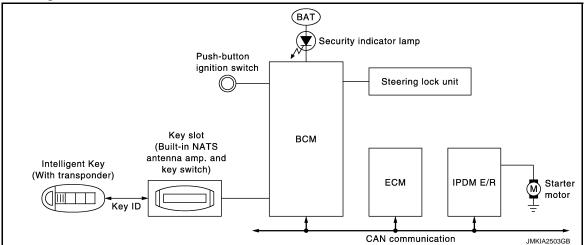
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[INTELLIGENT KEY SYSTEM]

Component	Reference
Door switch	DLK-63
A/T shift selector (detention switch)	<u>SEC-58</u>
Inside key antenna	DLK-56
Remote keyless entry receiver	DLK-74
Stop lamp switch	<u>SEC-52</u>
TCM	<u>SEC-65</u>
Steering lock relay	<u>SEC-69</u>
Starter relay	SEC-102
Starter control relay	<u>SEC-100</u>
Security indicator lamp	<u>SEC-114</u>
Key warning lamp	<u>SEC-116</u>

NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS

System Diagram



System Description

INFOID:0000000011489150

INFOID:0000000011489149

- The NVIS (NATS) is an anti-theft system by registering an Intelligent Key ID in to the vehicle and prevents
 the engine being started by an unregistered Intelligent Key. It has a higher protection against auto thefts that
 duplicate mechanical key.
- 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 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, forewarn that the NVIS (NATS) is onboard with the model.
- The security indicator always blinks when the power supply position is in any position except the ON position.
- Up to 4 Intelligent Keys can be registered (Including the standard ignition key) on request from the owner.
- The specified registration is required when replacing ECM, BCM or Intelligent Key. The registrations procedure for NVIS (NATS) and registration procedure for Intelligent Key when installing the BCM, follow the instruction of CONSULT display.
- Possible symptom of NVIS (NATS) malfunction is "Engine can not start". The engine can be started with the Intelligent Key system and NVIS (NATS). Identify the possible causes according to "Work Flow". Refer to SEC-5, "Work Flow".
- If ECM other than Genuine NISSAN is installed, the engine cannot be started. For ECM replacement procedure, refer to SEC-8, "ECM RE-COMMUNICATING FUNCTION: Work Procedure".

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, performs only one procedure to register simultaneously both IDs (NVIS "NATS" ID registration and Intelligent Key ID registration).
 - The NVIS (NATS) ID registration is the procedure that registers the IDs 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 pressing the push-button ignition switch when carrying the Intelligent Key. The registrations of both systems should be performed.

SECURITY INDICATOR LAMP

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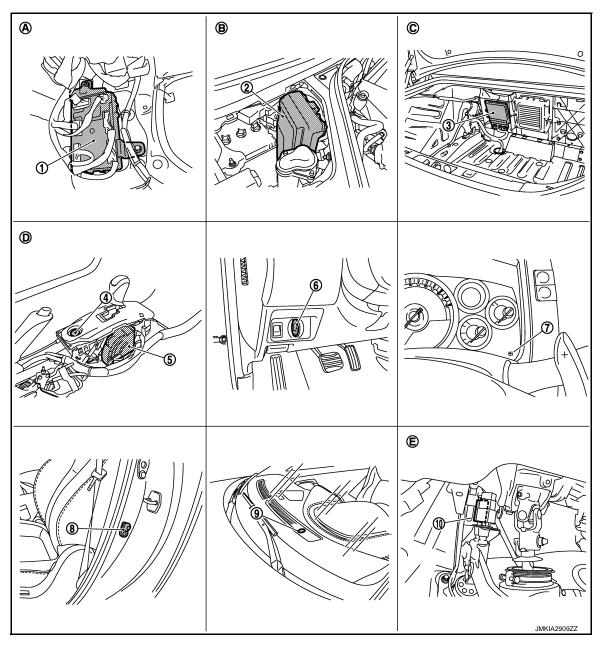
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- Warns that the vehicle is equipped with NVIS (NATS).
- The security indicator lamp always blinks when the ignition switch is in any position except the ON position. **NOTE:**

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

Component Parts Location

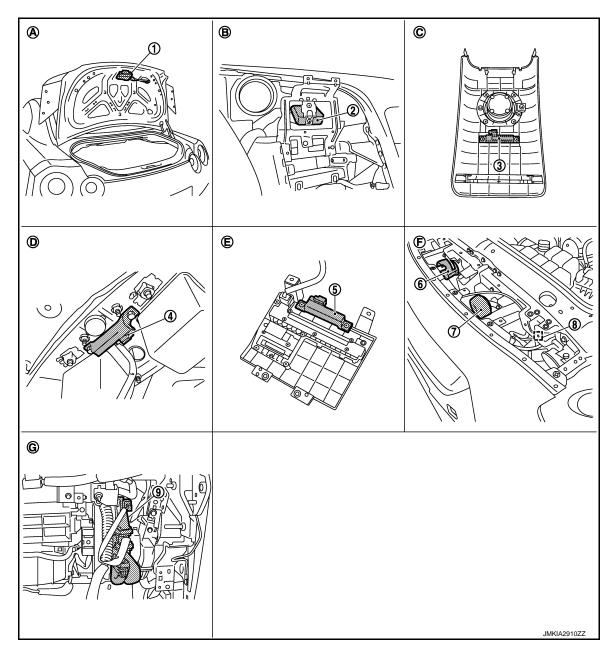
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- 1. BCM M118, M119, M121, M122, M123
- 4. Push-button ignition switch M131
- 7. Combination meter (Key warning lamp) M53
- 10. Stop lamp switch E110
- A. Behind the instrument lower panel RH
- D. View with center console assembly removed

- 2. IPDM E/R E4, E5, E6, E7
- 5. A/T shift selector (detention switch)
 B20
- 8. Driver side door switch B21
- B. Engine room dash panel (RH)
- View with instrument lower panel (driver) removed

- 3. TCM B45
- 6. Key slot M60
- 9. Security indicator lamp M29
- View with trunk front finisher removed



- Trunk lid lock assembly (trunk room 2. lamp switch) B352
- 4. Inside key antenna (trunk room) B41 5.
- 7. Horn (low) E81, E82
- A. View with trunk lid finisher removed
- D. Behind the trunk front finisher
- G. Behind the instrument lower panel (assist)

- Remote keyless entry receiver M134 3.
- Inside key antenna (instrument cen- 6. ter) M75
- 8. Hood switch E83
- B. Behind the display unit
- E. Back of the cluster kid C (lower)
- Inside key antenna (console) M146
- Horn (high) E79, E80
- 9. ECM M107
- C. Back of the rear console assembly
- F. Behind the front bumper

Component Description

INFOID:0000000011489152

Component	Reference
BCM	<u>SEC-90</u>
Steering lock unit	<u>SEC-78</u>
Push-button ignition switch	<u>SEC-54</u>

Revision: 2015 June SEC-17 GT-R

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NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS

< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

Component	Reference
Door switch	DLK-63
Key slot	DLK-94
A/T shift selector (detention switch)	<u>SEC-58</u>
Stop lamp switch	<u>SEC-52</u>
TCM	<u>SEC-65</u>
Steering lock relay	<u>SEC-69</u>
Starter relay	<u>SEC-72</u>
Starter control relay	<u>SEC-100</u>
Security indicator lamp	<u>SEC-114</u>
Key warning lamp	SEC-116

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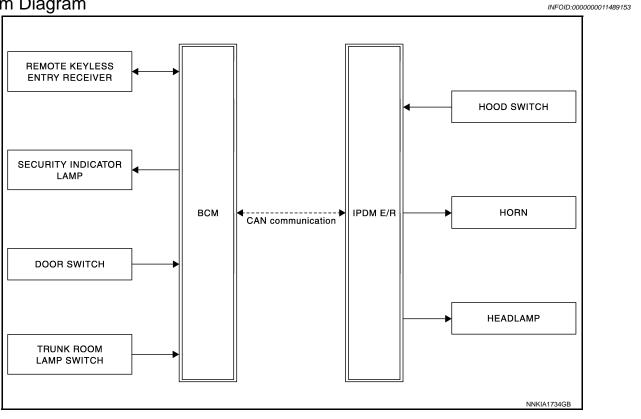
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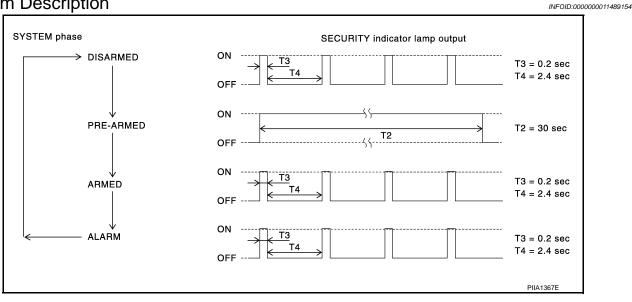
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VEHICLE SECURITY SYSTEM

System Diagram



System Description



SETTING THE VEHICLE SECURITY SYSTEM

Initial Condition

• Ignition switch is in OFF position.

Disarmed Phase

- When any door 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.

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

Pre-armed Phase and Armed Phase

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

- BCM receives LOCK signal from front door request switch, Intelligent Key, after trunk and all doors are closed.
- 2. 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 all doors with the door request switch, Intelligent Key.
- 2. Turn ignition switch "ON" or "ACC" position.

CANCELING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

When unlocking the all doors with the door request switch, 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 may or may not operate vehicle security system (horn and headlamps) as required. 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 (high beam and low beam) and horns (high, low and vehicle security horn).

The headlamps flash and the horn sounds intermittently.

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

Component Parts Location

INFOID:0000000011489155

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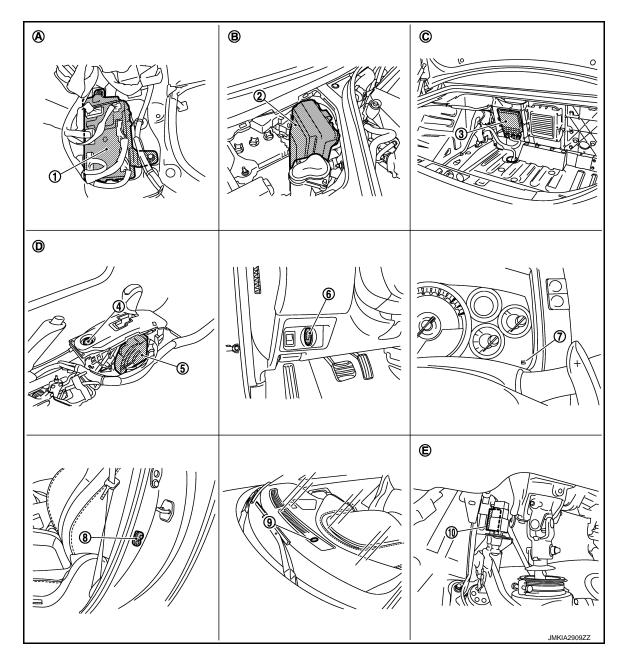
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- 1. BCM M118, M119, M121, M122, M123
- 4. Push-button ignition switch M131
- 7. Combination meter (Key warning lamp) M53
- 10. Stop lamp switch E110
- A. Behind the instrument lower panel RH
- D. View with center console assembly removed

- 2. IPDM E/R E4, E5, E6, E7
- 5. A/T shift selector (detention switch)
- 8. Driver side door switch B21
- B. Engine room dash panel (RH)
- E. View with instrument lower panel (driver) removed

- 3. TCM B45
- 6. Key slot M60
- 9. Security indicator lamp M29
- C. View with trunk front finisher removed

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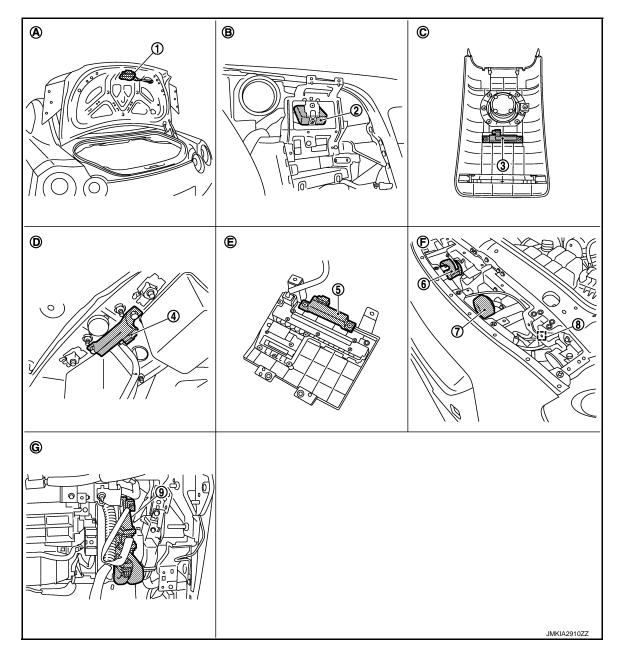
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Revision: 2015 June SEC-21 GT-R



- Trunk lid lock assembly (trunk room 2. lamp switch) B352
- 4. Inside key antenna (trunk room) B41 5.
- 7. Horn (low) E81, E82
- A. View with trunk lid finisher removed
- D. Behind the trunk front finisher
- G. Behind the instrument lower panel (assist)

- Remote keyless entry receiver M134 3.
- Inside key antenna (instrument cen- 6. ter) M75
- 8. Hood switch E83
- B. Behind the display unit
- E. Back of the cluster kid C (lower)
- Inside key antenna (console) M146
- Horn (high) E79, E80
- 9. ECM M107
- C. Back of the rear console assembly
- F. Behind the front bumper

Component Description

INFOID:0000000011489156

Component	Reference
BCM	BCS-7
Horn relay 1	SEC-117
Horn relay 2	<u>SEC-117</u>

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

Component	Reference
Security indicator lamp	<u>SEC-114</u>
Door switch	DLK-63
Trunk lid lock assembly (trunk room lamp switch)	DLK-63

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< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011802305

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

x: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	X
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
_	AIR CONDITONER*			
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid opener system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×

^{*:} This item is displayed, but is not used.

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

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CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and shift lever is except P position.)	
RL	CRANK>RUN	Power position status of the moment a particular DTC is detected	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"	
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode	
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	The number is 0 wher number increases whenever ignition swit	It ignition switch is turned ON after DTC is detected a malfunction is detected now. It is like $1 \rightarrow 2 \rightarrow 338 \rightarrow 39$ after returning to the normal condition in the OFF \rightarrow ON. In 39 until the self-diagnosis results are erased if it is over 39.	

INTELLIGENT KEY

BCM CONSULT FUNCTION

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	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

Monitor item	Description
REMO CONT ID CONFIR	It can be checked whether Intelligent Key ID code is registered or not in this mode.
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 5 minutes • MODE 3: 30 seconds • MODE 4: 2 minutes
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side and passenger side) mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by trunk lid opener request switch can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following wit this mode. • MODE 1: 0.5 sec. • MODE 2: OFF: Non-operation • MODE 3: 1.5 sec.
PW DOWN SET	This item is displayed, but cannot be used.
TRUNK OPEN DELAY	Trunk button pressing on Intelligent Key button can be selected as per the following in this mode. • MODE 1: Press and hold • MODE 2: Press twice • MODE 3: Press and hold, or press twice
LO-BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (WITH) or not operate (WITH-OUT) in this mode.
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following in this mode. • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operational
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following is this mode. • Horn chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • OFF: Non-operational
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) in this mode.
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. • 70 msec • 100 msec • 200 msec
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) in this mode.

SELF-DIAG RESULT

Refer to BCS-84, "DTC Index".

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

[INTELLIGENT KEY SYSTEM]

Monitor Item	Condition
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -BD/TR	Indicates [ON/OFF] condition of trunk opener request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY-FB	NOTE: This item is displayed, but cannot be monitored.
CLUTCH SW	NOTE: This item is displayed, but cannot be monitored.
BRAKE SW 1	Indicates [ON/OFF]* condition of brake switch power supply.
BRAKE SW 2	Indicates [ON/OFF] condition of brake switch.
DETE/CANCL SW	Indicates [ON/OFF] condition of P position.
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position.
S/L -LOCK	Indicates [ON/OFF] condition of steering lock unit (LOCK).
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock unit (UNLOCK).
S/L RELAY -F/B	Indicates [ON/OFF] condition of steering lock relay.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.
DETE SW -IPDM	Indicates [ON/OFF] condition of P position.
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position.
SFT P -MET	Indicates [ON/OFF] condition of P position.
SFT N -MET	Indicates [ON/OFF] condition of N position.
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states.
S/L LOCK-IPDM	Indicates [ON/OFF] condition of steering lock unit (LOCK).
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock unit (UNLOCK).
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay.
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h].
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [Km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status.
ID OK FLAG	Indicates [SET/RESET] condition of key ID.
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.
PRMT RKE STRT	NOTE:
KEY SW -SLOT	This item is displayed, but cannot be monitored.
	Indicates [ON/OFF] condition of key slot.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.
RKE-P/W OPEN	NOTE: This item is displayed, but cannot be monitored.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.

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< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

Monitor Item	Condition
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.
REVERSE SWITCH	NOTE: This item is displayed, but cannot be monitored.

^{*:} OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated when "ON" on CONSULT screen is touched.
PW REMOTO DOWN SET	NOTE: This item is displayed, but cannot be used.
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer will be activated when "ON" on CONSULT screen is touched.
INSIDE BUZZER	This test is able to check warning chime in combination meter operation. Take away warning chime sounds when "TAKE OUT" on CONSULT screen is touched. Key warning chime sounds when "KEY" on CONSULT screen is touched. P position warning chime sounds when "KNOB" on CONSULT screen is touched.
INDICATOR	This test is able to check warning lamp operation. • "KEY" Warning lamp illuminates when "KEY ON" on CONSULT screen is touched. • "KEY" Warning lamp blinks when "KEY IND" on CONSULT screen is touched.
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp will be activated when "ON" on CONSULT screen is touched.
LCD	This test is able to check meter display information • Engine start information displays when "BP N" on CONSULT screen is touched. • Engine start information displays when "BP I" on CONSULT screen is touched. • Key ID warning displays when "ID NG" on CONSULT screen is touched. • Steering lock information displays when "ROTAT" on CONSULT screen is touched. • P position warning displays when "SFT P" on CONSULT screen is touched. • Intelligent Key insert information displays when "INSRT" on CONSULT screen is touched. • Intelligent Key low battery warning displays when "BATT" on CONSULT screen is touched. • Take away warning displays when "OUTKEY" on CONSULT screen is touched. • OFF position warning displays when "LK WN" on CONSULT screen is touched.
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation. This actuator opens when "OPEN" on CONSULT screen is touched.
FLASHER	This test is able to check security hazard lamp operation. The hazard lamps will be activated when "RH" or "LH" on CONSULT screen is touched.
HORN	This test is able to check horn operation. The horn will be activated when "ON" on CONSULT screen is touched.
P RANGE	This test is able to check control device power supply Control device power is supplied when "ON" on CONSULT screen is touched.
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched.
LOCK INDICATOR	This test is able to check LOCK indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.
ACC INDICATOR	This test is able to check ACC indicator in push-ignition switch operation. ACC indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.
IGNITION ON IND	This test is able to check ON indicator in push-ignition switch operation. ON indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.

< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

Test item	Description
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination illuminates when "ON" on CONSULT screen is touched.
TRUNK/BACK DOOR	This test is able to check trunk lid opener actuator open operation. This actuator opens when "OPEN" on CONSULT screen is touched.

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitored Item	Description	Н
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).	
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).	
REQ SW -RR	NOTE: This is displayed even when it is not equipped.	
REQ SW -RL	NOTE: This is displayed even when it is not equipped.	J
REQ SW -BD/TR	Indicates [ON/OFF] condition of trunk lid opener request switch.	
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch	SEC
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.	SEC
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.	
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch LH.	L
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch RH.	
DOOR SW-RR	NOTE: This is displayed even when it is not equipped.	M
DOOR SW-RL	NOTE: This is displayed even when it is not equipped.	
DOOR SW-BK	NOTE: This is displayed even when it is not equipped.	N
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/unlock switch LH and RH.	
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch LH and RH.	0
KEY CYL LK-SW	NOTE: This is displayed even when it is not equipped.	
KEY CYL UN-SW	NOTE: This is displayed even when it is not equipped.	— Р
KEY CYL SW-TR	NOTE: This is displayed even when it is not equipped.	
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk lid opener switch.	
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.	

SEC-29 Revision: 2015 June GT-R

< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

Monitored Item	Description	
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.	
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.	
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.	

WORK SUPPORT

Test Item	Description
SECURITY ALARM SET This mode is able to confirm and change security alarm ON-OFF setting.	
THEFT ALM TRG	The switch which triggered vehicle security alarm is recorded. This mode is able to confirm and erase the record of vehicle security alarm. The trigger data can be erased by touching "CLEAR" on CONSULT screen.

ACTIVE TEST

Test Item	Description	
THEFT IND	This test is able to check security indicator lamp operation. The lamp will be turned on when "ON on CONSULT screen is touched.	
VEHICLE SECURITY HORN	This test is able to check vehicle security horn operation. The horns will be activated for 0.5 seconds after "ON" on CONSULT screen is touched.	
HEADLAMP(HI)	This test is able to check vehicle security lamp operation. The headlamps will be activated for 0.5 seconds after "ON" on CONSULT screen is touched.	
FLASHER	This test is able to check vehicle security hazard lamp operation. The hazard lamps will be activated after "ON" on CONSULT screen is touched.	

IMMU

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000011489160

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description	
DATA MONITOR	The BCM input/output signals are displayed.	
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.	

DATA MONITOR

NOTE

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Content	
CONFRM ID ALL		
CONFIRM ID4		
CONFIRM ID3	Indicates [YET] at all time. Switches to [DONE] when a registered Intelligent Key is inserted into the key slot.	
CONFIRM ID2	Owneriod to [DONE] when a registered intelligent recy to indented into the key did.	
CONFIRM ID1		
TP 4		
TP 3	Indicates the number of ID which has been registered	
TP 2	Indicates the number of ID which has been registered.	
TP 1		
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.	
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.	

< SYSTEM DESCRIPTION >

[INTELLIGENT KEY SYSTEM]

ACTIVE TEST

Test item Description	
THEFT IND	This test is able to check security indicator lamp operation. The lamp will be turned on when "ON" on CONSULT screen touched.

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DTC/CIRCUIT DIAGNOSIS

P1610 LOCK MODE

Description INFOID:000000011489161

When the starting operation is carried more than five times consecutively under the following conditions, NATS will shift to the mode which prevents the engine from being started.

- Unregistered Intelligent Key is used.
- BCM or ECM is malfunctioning.

DTC Logic INFOID:0000000011489162

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1610	LOCK MODE	When the starting operation is carried out five or more times consecutively under the following conditions. • Unregistered Intelligent Key • BCM or ECM is malfunctioning.	_

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-32, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489163

1. CHECK ENGINE START FUNCTION

- Perform the check for DTC except DTC P1610.
- Use CONSULT to erase DTC after fixing.
- Turn ignition switch OFF.
- 4. Turn ignition switch ON when registered Intelligent Key is inserted into key slot and wait for 5 seconds.
- 5. Turn the ignition switch OFF and wait 5 seconds.
- 6. Repeat steps 4 and 5 twice (total of 3 cycles).
- 7. Check that engine can start when registered Intelligent Key is inserted into key slot.

>> INSPECTION END

P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

P1611 ID DISCORD, IMMU-ECM

Description INFOID:0000000011489164

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:0000000011489165

DTC DETECTION LOGIC

NOTE:

- If DTC B1611 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B1611 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

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

DTC CONFIRMATION PROCEDURE

PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to SEC-33, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.PERFORM INITIALIZATION

Perform initialization with CONSULT. Reregister all Intelligent Keys.

For initialization and registration of Intelligent Key, follow the instruction of CONSULT display.

Can the system be initialized and can the engine be started with reregistered Intelligent Kev?

YES >> INSPECTION END

NO >> GO TO 2.

2. $_{ m REPLACE}$ BCM

- Replace BCM. Refer to BCS-89, "Removal and Installation".
- Perform initialization with CONSULT. For initialization, follow the instruction of CONSULT display.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

YES >> INSPECTION END

NO >> GO TO 3.

3. REPLACE ECM

- Replace ECM. Refer to EC-20, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement (GT-R certified NISSAN dealer)".
- Perform initialization with CONSULT.

For initialization, follow the instruction of CONSULT display.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

YES >> INSPECTION END

NO >> GO TO 4.

Revision: 2015 June

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INFOID:0000000011489166

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P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

P1612 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

P1612 CHAIN OF ECM-IMMU

Description INFOID:0000000011489167

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:0000000011489168

DTC DETECTION LOGIC

NOTE:

 If DTC P1612 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".

 If DTC P1612 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "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.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

1.REPLACE BCM

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

NO >> INSPECTION END

Diagnosis Procedure

Replace BCM. Refer to BCS-89, "Removal and Installation".

Perform initialization with CONSULT.

For initialization, follow the instruction of CONSULT display.

Does the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE ECM

Replace ECM. Refer to EC-20, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement (GT-R certified NISSAN dealer)".

>> INSPECTION END

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INFOID:0000000011489169

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P1614 CHAIN OF IMMU-KEY

Description INFOID:0000000011489170

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

DTC Logic INFOID:000000011489171

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1614	CHAIN OF IMMU- KEY	Inactive communication between key slot and BCM.	Harness or connectors (The key slot circuit is open or shorted) Key slot BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE 1

- 1. Insert Intelligent Key into the key slot.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-36, "Diagnosis Procedure".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

- 1. Press the push-button ignition switch.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-36, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489172

INSPECTION START

Perform inspection in accordance with DTC Confirmation procedure. Refer to SEC-40, "DTC Logic".

Which procedure confirms DTC?

DTC confirmation procedure 1>>GO TO 2.

DTC confirmation procedure 2>>GO TO 4.

2. CHECK KEY SLOT INPUT SIGNAL

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

(+)			Voltage (V)
Key slot Connector Terminal		(-)	(Approx.)
M60	2	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>DLK-264</u>, "Removal and Installation".

NO >> GO TO 3.

3. CHECK KEY SLOT CIRCUIT

P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

1. Disconnect BCM connector.

2. Check continuity between key slot harness connector and BCM harness connector.

Key	slot	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M60	2	M122	80	Existed

3. Check continuity between key slot harness connector and ground.

Key slot			Continuity
Connector Terminal		Ground	Continuity
M60	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK PUSH-BUTTON 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 connector.
- 3. Check voltage between key slot harness connector and ground.

(+) Key slot		(-)	Voltage (V) (Approx.)
Connector	Terminal		(, 4, 1, 2,)
M60	3	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>DLK-264</u>, "Removal and Installation".

NO >> GO TO 6.

6. CHECK KEY SLOT COMMUNICATION SIGNAL CIRCUIT

1. Disconnect BCM connector.

2. Check continuity between key slot harness connector and BCM harness connector.

Key slot		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M60	3	M122	81	Existed

3. Check continuity between key slot harness connector and ground.

Key slot			Continuity
Connector	Terminal	Ground	Continuity
M60	3		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

7. CHECK KEY SLOT GROUND CIRCUIT

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

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P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

3. Check continuity between key slot harness connector and ground.

Key slot			Continuity
Connector	Terminal	Ground	Continuity
M60	7		Existed

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

P1615 DIFFRENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

P1615 DIFFRENCE OF KEY

Description INFOID:0000000011489173

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

DTC Logic INFOID:0000000011489174

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Press the push-button ignition switch.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-39, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. PERFORM INITIALIZATION

Perform initialization with CONSULT. Reregister all Intelligent Keys.

For initialization and registration of Intelligent Key, follow the instruction of CONSULT display.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

YES >> INSPECTION END

NO >> GO TO 2.

2.replace intelligent key

Replace Intelligent Kev.

Perform initialization with CONSULT. For initialization and registration of Intelligent Key, follow the instruction of CONSULT display.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

>> INSPECTION END YES

NO >> GO TO 3.

3.check intermittent incident

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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INFOID:0000000011489175

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[INTELLIGENT KEY SYSTEM]

B2190 NATS ANTENNA AMP.

Description INFOID:0000000011489176

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

DTC Logic INFOID:0000000011489177

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

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Insert Intelligent Key into the key slot.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-40, "Diagnosis Procedure".

NO >> GO TO 2.

2.perform dtc confirmation procedure

- 1. Press the push-button ignition switch.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489178

INSPECTION START

Perform inspection in accordance with DTC Confirmation procedure. Refer to SEC-40, "DTC Logic".

Which procedure confirms DTC?

DTC confirmation procedure 1>>GO TO 2.

DTC confirmation procedure 2>>GO TO 4.

2.CHECK KEY SLOT INPUT SIGNAL

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

(+) Key slot		(-)	Voltage (V) (Approx.)
Connector	Terminal		(* FF)
M60	2	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>DLK-264</u>, "Removal and Installation".

NO >> GO TO 3.

3. CHECK KEY SLOT CIRCUIT

B2190 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

- 1. Disconnect BCM connector.
- 2. Check continuity between key slot harness connector and BCM harness connector.

Key slot		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M60	2	M122	80	Existed

3. Check continuity between key slot harness connector and ground.

Key slot			Continuity
Connector	Terminal	Ground	Continuity
M60	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK PUSH-BUTTON 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 connector.
- 3. Check voltage between key slot harness connector and ground.

(+) Key slot		(-)	Voltage (V) (Approx.)
Connector	Terminal		(+ +
M60	3	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>DLK-264</u>, "Removal and Installation".

NO >> GO TO 6.

6.CHECK KEY SLOT COMMUNICATION SIGNAL CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between key slot harness connector and BCM harness connector.

Key	Key slot		ВСМ		
Connector	Terminal	Connector Terminal		Continuity	
M60	3	M122	81	Existed	

3. Check continuity between key slot harness connector and ground.

Key slot			Continuity	
Connector Terminal		Ground	Continuity	
M60	3		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

7. CHECK KEY SLOT GROUND CIRCUIT

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

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B2190 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

3. Check continuity between key slot harness connector and ground.

Key	/ slot		Continuity
Connector Terminal		Ground	Continuity
M60	7		Existed

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

B2191 DIFFERENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2191 DIFFERENCE OF KEY

Description INFOID:0000000011489179

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

DTC Logic INFOID:0000000011489180

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Press the push-button ignition switch
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-43, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. PERFORM INITIALIZATION

Perform initialization with CONSULT. Reregister all Intelligent Keys.

For initialization and registration of Intelligent Key, follow the instruction of CONSULT display.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

YES >> INSPECTION END

NO >> GO TO 2.

2.replace intelligent key

Replace Intelligent Kev.

Perform initialization with CONSULT. For initialization and registration of Intelligent Key, follow the instruction of CONSULT display.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

>> INSPECTION END YES

NO >> GO TO 3.

3.check intermittent incident

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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INFOID:000000001148918:

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[INTELLIGENT KEY SYSTEM]

B2192 ID DISCORD, IMMU-ECM

Description INFOID:000000011489182

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:0000000011489183

DTC DETECTION LOGIC

NOTE:

- If DTC B2192 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2192 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to <u>SEC-44</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489184

1. PERFORM INITIALIZATION

Perform initialization with CONSULT. Reregister all Intelligent Keys.

For initialization and registration of Intelligent Key, follow the instruction of CONSULT display.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE BCM

- 1. Replace BCM. Refer to BCS-89, "Removal and Installation".
- Perform initialization with CONSULT.

For initialization, follow the instruction of CONSULT display.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

YES >> INSPECTION END

NO >> GO TO 3.

3. REPLACE ECM

- Replace ECM. Refer to <u>EC-20</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: <u>Special Repair Requirement (GT-R certified NISSAN dealer)</u>".
- Perform initialization with CONSULT.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

YES >> INSPECTION END

NO >> GO TO 4.

B2192 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >	[INTE

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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[INTELLIGENT KEY SYSTEM]

B2193 CHAIN OF ECM-IMMU

Description INFOID:000000011489185

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 BCS-36, "DTC Logic".
- If DTC B2193 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2193	CHAIN OF BCM- ECM	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.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489187

1. REPLACE BCM

- 1. Replace BCM. Refer to BCS-89, "Removal and Installation".
- Perform initialization with CONSULT. For initialization, follow the instruction of CONSULT display.

Does the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE ECM

Replace ECM. Refer to EC-20, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement (GT-R certified NISSAN dealer)".

>> INSPECTION END

B2195 ANTI-SCANNING

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2195 ANTI-SCANNING

Description INFOID:0000000011489188

When ignition switch is turned ON, BCM performs ID verification with ECM. If ID verification that is out of the specified specification is detected, BCM prohibits further ID verification and engine cranking.

DTC Logic INFOID:0000000011489189

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2195	ANTI-SCANNING	ID verification between BCM and ECM that is out of the specified specification is detected	ID verification request out of the specified specification

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

>> Refer to SEC-47, "Diagnosis Procedure". YES

NO >> INSPECTION END.

Diagnosis Procedure

${f 1}$.CHECK SELF-DIAGNOSTIC RESULT-1

- Perform "Self-diagnostic result" of BCM using CONSULT.
- 2. Erase DTC.
- Perform DTC Confirmation Procedure. Refer to SEC-47, "DTC Logic".

Is DTC 2195 detected?

YES >> GO TO 2.

NO >> INSPECTION END

2.CHECK EQUIPMENT OF THE VEHICLE

Check that unspecified accessory part related to engine start is not installed.

Is unspecified accessory part related to engine start installed?

YES >> GO TO 3.

NO >> Replace BCM. Refer to BCS-89, "Removal and Installation".

3.CHECK SELF-DIAGNOSTIC RESULT-2

- Obtain the customers approval to remove unspecified accessory part related to engine start, and then remove it.
- Perform "Self-diagnostic result" of BCM using CONSULT.
- Erase DTC.
- Perform DTC Confirmation Procedure. Refer to <u>SEC-47</u>, "DTC Logic".

Is DTC 2195 detected?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> INSPECTION END SEC

INFOID:0000000011489190

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B2013 STEERING LOCK UNIT

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2013 STEERING LOCK UNIT

Description INFOID:000000011489191

BCM performs the ID verification with the steering lock unit and releases the steering lock if both BCM and steering lock unit ID are same. BCM starts the communication with the steering lock unit when Intelligent Key is carried into the passenger compartment and the push-button ignition switch is pressed.

DTC Logic INFOID:000000011489192

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2013	ID DISCORD BCM-S/L	The ID verification result between BCM and steering lock unit is NG. The registration is necessary.	Steering lock unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Lock steering.
- 2. Press the push-button ignition switch.
- 3. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489193

1. PERFORM INITIALIZATION

Perform initialization with CONSULT.

For initialization, follow the instruction of CONSULT display.

Does steering lock operate?

YES >> INSPECTION END

NO >> GO TO 2.

2. REPLACE STEERING LOCK UNIT

- 1. Replace steering lock unit.
- Perform initialization with CONSULT.

For initialization, follow the instruction of CONSULT display.

Does steering lock operate?

YES >> INSPECTION END

NO >> GO TO 3.

${f 3.}$ CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

B2014 CHAIN OF STRG-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2014 CHAIN OF STRG-IMMU

Description INFOID:0000000011489194

BCM performs the ID verification with the steering lock unit to release the steering. BCM starts the communication with the steering lock unit when Intelligent Key is carried into the passenger compartment and the pushbutton ignition switch is pressed.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2014	CHAIN OF S/L-BCM	Inactive communication between steering lock unit and BCM	Harness or connectors (Steering lock unit circuit is open or shorted) Steering lock unit BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Lock steering.
- 2. Press the push-button ignition switch.
- 3. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-49</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK STEERING LOCK UNIT POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect steering lock unit connector.
- 3. Check voltage between steering lock unit harness connector and ground.

	+) lock unit	(–)	Condition		Condition		Voltage (V) (Approx.)
Connector	Terminal				(11)		
M40	7	Ground	Ignition switch	OFF or ACC	Battery voltage		
10140	,	Ground	ignition switch	ON	0		

Is the inspection normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK STEERING LOCK UNIT POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- Check continuity between steering lock unit harness connector and BCM harness connector.

Steering	Steering lock unit		всм		
Connector	Terminal	Connector Terminal		Continuity	
M40	7	M122	106	Existed	

^{4.} Check continuity between steering lock unit harness connector and ground.

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B2014 CHAIN OF STRG-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

Steering	lock unit		Continuity
Connector	Terminal	Ground	Continuity
M40	7		Not existed

Is the inspection normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK STEERING LOCK UNIT GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between steering lock unit and ground.

Steering	g lock unit		Continuity
Connector	Terminal	Ground	Continuity
M40	5	Ground	Existed
IVI40	6		Existed

Is the inspection normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK STEERING LOCK UNIT COMMUNICATION SIGNAL

- 1. Connect steering lock unit connector.
- 2. Read voltage signal between steering lock unit harness connector and ground.

(+ Steering		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				\ \ \ \ \
				Lock status	Battery voltage
M40	2	Ground	Steering lock unit	Lock or unlock	(V) 15 10 5 0 50 ms JMKIA0066GB
				For 15 seconds after unlock	Battery voltage
				15 seconds or later after unlock.	0

Steering is locked : Opening the door when ignition switch is ON to OFF.

Steering is unlocked : Ignition switch is OFF to ACC.

Is the inspection normal?

YES >> Replace steering lock unit.

NO >> GO TO 5.

5. CHECK STEERING LOCK UNIT COMMUNICATION CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect steering lock unit and BCM connector.
- 3. Check continuity between steering lock unit harness connector and BCM harness connector.

B2014 CHAIN OF STRG-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

Steering	lock unit	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	2	M122	111	Existed

Check continuity between steering lock unit harness connector and ground.

Steering	J lock unit		Continuity
Connector	Terminal	Ground	Continuity
M40	2		Not existed

Is the inspection normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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B2555 STOP LAMP

Description INFOID:000000011489197

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.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-52</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489199

1. CHECK STOP LAMP SWITCH INPUT SIGNAL

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

(+) BCM		(-)	Voltage (V) (Approx.)
Connector	Connector Terminal		,
M123	116	Ground	Battery voltage

Is the inspection normal?

YES >> GO TO 2.

NO >> Check the following.

- 10A fuse [No. 7, located in the fuse block (J/B)]
- Harness for open or short between BCM and fuse.

2.CHECK STOP LAMP SWITCH POWER SUPPLY CIRCUIT

- Disconnect stop lamp switch connector.
- 2. Check voltage between stop lamp harness connector and ground.

(+) Stop lamp switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal			
E110	1	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.

B2555 STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

3.check stop lamp switch circuit

Check continuity between stop lamp switch harness connector and BCM harness connector.

Stop lan	np switch	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E110	2	M123	118	Existed

Check continuity between stop lamp switch harness connector and ground.

Stop lan	np switch		Continuity
Connector	Terminal	Ground	Continuity
E110	2		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK STOP LAMP SWITCH

Refer to SEC-53, "Component Inspection".

Is the inspection result normal?

>> GO TO 5. YES

>> Replace stop lamp switch. Refer to BR-21, "Removal and Installation (GT-R certified NISSAN NO dealer)".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK STOP LAMP SWITCH

- Turn ignition switch OFF.
- 2. Disconnect stop lamp switch connector.
- Check continuity between stop lamp switch terminals.

Stop lamp switch		Condition		Continuity
Terr	minal	COTI	uition	Continuity
1	2	Brake pedal	Not depressed	Not existed
ı	2	brake pedar	Depressed	Existed

Is the inspection result normal?

YES >> INSPECTION END

>> Replace stop lamp switch. Refer to BR-21, "Removal and Installation (GT-R certified NISSAN NO dealer)".

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B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2556 PUSH-BUTTON IGNITION SWITCH

Description INFOID:0000000011489201

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

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2556	PUSH-BTN IGN SW	BCM detects the push-button ignition switch stuck at ON for 100 seconds or more	Harness or connectors (Push-button ignition switch circuit is shorted.) Push-button ignition switch BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Start the engine and wait for at least 100 seconds.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-54, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489203

1. CHECK PUSH-BUTTON IGNITION SWITCH INPUT SIGNAL

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

(+) Push-button ignition switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 -)	
M131	4	Ground	Battery voltage	

Is the inspection normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT (BCM)

- 1. Disconnect BCM connector and IPDM E/R connector.
- 2. Check continuity between BCM harness connector and push-button ignition switch harness connector.

В	CM	Push-button ignition switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M122	89	M131	4	Existed	

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M122	89		Not existed

Is the inspection normal?

B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

3.check push-button ignition switch

Refer to SEC-55, "Component Inspection".

Is the inspection normal?

YES >> GO TO 4.

NO >> Replace push-button ignition switch. Refer to PCS-120, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK PUSH-BUTTON IGNITION SWITCH

- Turn ignition switch OFF.
- Disconnect push-button ignition switch connector. 2.
- Check continuity between push-button ignition switch terminals.

Push-button ignition switch		Condition	Continuity
Terminals		Condition	
1	4	Pressed	Existed
I		Not pressed	Not existed

Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace push-button ignition switch. Refer to PCS-120, "Removal and Installation".

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B2557 VEHICLE SPEED

Description INFOID:000000011489205

BCM receives the 2 vehicle speed signals via CAN communication. 1 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 INFOID:0000000011489206

DTC DETECTION LOGIC

NOTE:

- If DTC B2557 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2557 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "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 (6.2 MPH) or more and the other is 4 km/h (2.5 MPH) 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 (6.2 MPH) or more and wait for at least 10 seconds.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-56, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489207

${f 1}$.CHECK DTC WITH "ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)"

Check "Self diagnostic result" with CONSULT. Refer to <u>BRC-133, "DTC No. Index (GT-R certified NISSAN dealer)"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DTC WITH "COMBINATION METER"

Check "Self diagnostic result" with CONSULT. Refer to MWI-100, "DTC Index".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

f 3.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

B2560 STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2560 STARTER CONTROL RELAY

Description INFOID:000000011489208

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2560 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic"
- If DTC B2560 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

DTC	Self-diagnosis name	DTC detecting condition	Possible causes
B2560	STARTER CONT 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

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

Is DTC detected?

YES >> Go to SEC-57, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489210

1. CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT. Refer to PCS-32, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

2. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident"

>> INSPECTION END

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B2601 SHIFT POSITION

Description INFOID:0000000011489211

BCM confirms the shift position with the following 4 signals.

- A/T shift selector (detention switch) signal
- P/N position switch from TCM
- P position signal from IPDM E/R (CAN)
- P/N position signal from TCM (CAN)

DTC Logic INFOID:000000011489212

DTC DETECTION LOGIC

NOTE:

- If DTC B2601 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2601 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

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 (A/T shift selector circuit is open or shorted) A/T shift selector (detention switch)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to SEC-58, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489213

1.CHECK A/T SHIFT SELECTOR POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect A/T shift selector (detention switch) connector.
- 3. Check voltage between A/T shift selector (detention switch) harness connector and ground.

(+) A/T shift selector (detention switch)		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(, 4, 1, 2, 1, 1)	
B20	1	Ground	Battery voltage	

Is the inspection result normal?

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

2.CHECK A/T SHIFT SELECTOR POWER SUPPLY CIRCUIT

- Disconnect BCM connector.
- Check continuity between A/T shift selector (detention switch) harness connector and BCM harness connector.

A/T shift selector	(detention switch)	ВСМ		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B20	1	M122	96	Existed

3. Check continuity between A/T shift selector (detention switch) harness connector and ground.

A/T shift selector	(detention switch)		Continuity
Connector	Terminal	Ground	Continuity
B20	1		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK A/T SHIFT SELECTOR CIRCUIT (BCM)

1. Disconnect BCM connector and IPDM E/R connector.

Check continuity between A/T shift selector (detention switch) harness connector and BCM harness connector.

A/T shift selector	(detention switch) BCM Continuity		BCM	
Connector	Terminal	Connector	Terminal	Continuity
B20	2	M122	99	Existed

3. Check continuity between A/T shift selector (detention switch) harness connector and ground.

A/T shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
B20	2		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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

 Check continuity between A/T shift selector (detention switch) harness connector and IPDM E/R harness connector.

A/T shift selector	(detention switch)	IPDM E/R		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B20	2	E11	43	Existed

2. Check continuity between A/T shift selector (detention switch) harness connector and ground.

A/T shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
B20	2		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK A/T SHIFT SELECTOR (DETENTION SWITCH)

Refer to SEC-60, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace A/T shift selector. Refer to TM-375, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

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B2601 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011489214

1. check a/t shift selector (detention switch)

- 1. Turn ignition switch OFF.
- 2. Disconnect A/T shift selector connector.
- 3. Check continuity between A/T shift selector (detention switch) terminals.

A/T shift selector	A/T shift selector (detention switch)		Condition	
Teri	minal	Condition		Continuity
1	2	Shift lever	P position	Not existed
ı	2	Stillt level	Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace A/T shift selector. Refer to TM-375, "Removal and Installation".

B2602 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2602 SHIFT POSITION

Description INFOID:0000000011489215

BCM confirms the shift position with the following 4 signals.

- A/T shift selector (detention switch) signal
- P/N position switch from TCM
- P position signal from IPDM E/R (CAN)
- P/N position signal from TCM (CAN)

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2602 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2602 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "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 the P position • Vehicle speed is 4 km/h (2.5 MPH) or more • Ignition switch is in the ON position	Harness or connectors (A/T shift selector circuit is open or shorted) A/T shift selector (detention switch) ABS actuator and electric unit (control unit) BCM	G

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Start the engine under the following conditions and wait for at least 10 seconds.
- Shift lever is in the P or N position.
- Depress the brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK DTC WITH "ABS ACTUATOR AND ELECTRIC UNIT"

Check "Self diagnostic result" with CONSULT. Refer to <u>BRC-133, "DTC No. Index (GT-R certified NISSAN dealer)"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK A/T SHIFT SELECTOR POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect A/T shift selector (detention switch) connector.
- Check voltage between A/T shift selector (detention switch) harness connector and ground.

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B2602 SHIFT POSITION

[INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

	+)		Voltage (V)	
A/T shift selector	A/T shift selector (detention switch)		(Approx.)	
Connector	Terminal		, , ,	
B20	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK A/T SHIFT SELECTOR POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector.
- Check continuity between A/T shift selector (detention switch) harness connector and BCM harness connector.

A/T shift selector	(detention switch)	ВСМ		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B20	1	M122	96	Existed	

3. Check continuity between A/T shift selector (detention switch) harness connector and ground.

A/T shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
B20	1		No existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK A/T SHIFT SELECTOR CIRCUIT

- 1. Disconnect BCM connector and IPDM E/R connector.
- Check continuity between A/T shift selector (detention switch) harness connector and BCM harness connector.

A/T shift selector	(detention switch)	ВСМ		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B20	2	M122	99	Existed

3. Check continuity between A/T shift selector (detention switch) harness connector and ground.

A/T shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
B20	2		No existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK A/T SHIFT SELECTOR (DETENTION SWITCH)

Refer to SEC-60, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace A/T shift selector. Refer to <u>TM-375</u>, "Removal and Installation".

O.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

[INTELLIGENT KEY SYSTEM]

B2603 SHIFT POSITION

Description INFOID:0000000011489218

BCM confirms the shift position with the following 4 signals.

- A/T shift selector (detention switch) signal
- P/N position switch from TCM
- P position signal from IPDM E/R (CAN)
- P/N position signal from TCM (CAN)

DTC Logic INFOID:0000000011489219

DTC DETECTION LOGIC

NOTE:

- If DTC B2603 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2603 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".
- If DTC B2603 is displayed with DTC B210F for IPDM E/R, first perform the trouble diagnosis for DTC B210F. Refer to SEC-105, "DTC Logic".
- If DTC B2603 is displayed with DTC B2601 for IPDM E/R, first perform the trouble diagnosis for DTC B2601. Refer to SEC-58, "DTC Logic".

DTC	Self-diagnosis name	DTC detecting condition	Possible causes
B2603	SHIFT POSI STATUS	BCM detects the followings status for 500 ms or more when shift is in P position, and ignition switch is in the ON position. • P/N position signal (from TCM): approx. 0 V • A/T shift selector (detention switch): approx. 0 V	Harness or connector (A/T shift selector circuit is open or shorted) Harness or connectors [TCM circuit is open or shorted] TCM BCM

DTC CONFIRMATION PROCEDURE

${f 1}$. PERFORM DTC CONFIRMATION PROCEDURE

- Start the engine under the following conditions and wait for at least 1 second.
- Shift lever is in the P position.
- Do not depress the brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK DTC WITH TCM

Check "Self diagnostic result" with CONSULT for TCM.

Are any DTC detected?

YES >> Refer to <u>SEC-105</u>, "DTC Logic".

NO >> GO TO 2.

2.CHECK TCM CIRCUIT

- Turn ignition switch OFF. 1.
- 2. Disconnect TCM connector and BCM connector.
- Check continuity between TCM harness connector and BCM harness connector.

TO	TCM BCM		BCM	
Connector	Terminal	Connector	Terminal	Continuity
B45	19	M122	140	Existed

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B2603 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

4. Check continuity between TCM harness connector and ground.

TCM			Continuity
Connector	Terminal	Ground	Continuity
B45	19		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TCM OUTPUT

- 1. Connect TCM connector.
- 2. Check voltage between BCM harness connector and ground.

	+) CM	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(+ +)
M122	140	Ground	Shift lover P or N position		Battery voltage
IVI 122	140	Ground	Stillt lovel	Other than above	0

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Exploded View".

NO >> Replace TCM. Refer to TM-373, "Removal and Installation (GT-R certified NISSAN dealer)".

[INTELLIGENT KEY SYSTEM]

B2604 SHIFT POSITION

Description INFOID:0000000011489221

BCM confirms the shift position with the following 4 signals.

- A/T shift selector (detention switch) signal
- P/N position switch from TCM
- P position signal from IPDM E/R (CAN)
- P/N position signal from TCM (CAN)

DTC Logic INFOID:0000000011489222

DTC DETECTION LOGIC

NOTE:

- If DTC B2604 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2604 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2604	PNP SW	 BCM detects the following status for 500 ms or more when the ignition switch is in the ON position. N position input signal exists. Shift position signal from TCM does not exist. N position input signal does not exist. Shift position signal from TCM exists. 	Harness or connectors [TCM circuit is open or shorted] TCM BCM

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

- Start the engine under the following conditions and wait for at least 1 second.
- Shift lever is in the P or N position
- Do not depress the brake pedal
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK DTC WITH TCM Check "Self diagnostic result" with CONSULT for TCM.

Are any DTC detected?

YES >> Refer to SEC-105, "DTC Logic".

NO >> GO TO 2.

2.CHECK TCM CIRCUIT

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

T	ТСМ		ВСМ		
Connector	Terminal	Connector Terminal		- Continuity	
B45	19	M122	140	Existed	

Check continuity between TCM harness connector and ground.

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B2604 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

TO	CM		Continuity	
Connector	Terminal	Ground	Continuity	
B45	19		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TCM OUTPUT

- 1. Connect TCM connector.
- 2. Check voltage between BCM harness connector and ground.

	(+) BCM (-)		Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 -)
M122	140	Ground	Shift lover P or N position Other than above		Battery voltage
IVI I Z Z	140	Giodila			0

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Exploded View".

NO >> Replace TCM. Refer to TM-373, "Removal and Installation (GT-R certified NISSAN dealer)".

B2605 SHIFT POSITION

Description INFOID:000000011489224

BCM confirms the shift position with the following 4 signals.

- A/T shift selector (detention switch) signal
- P/N position switch from TCM
- P position signal from IPDM E/R (CAN)
- P/N position signal from TCM (CAN)

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2605 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2605 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".
- If DTC B2605 is displayed with DTC U1010, first perform the trouble diagnosis for DTC B2603. Refer to <u>SEC-63, "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2605	PNP SW	 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 [TCM circuit is open or shorted] BCM IPDM E/R TCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to SEC-67, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK TCM CIRCUIT

- Turn ignition switch OFF.
- Disconnect IPDM E/R connector.
- 3. Check continuity between IPDM E/R harness connector and TCM harness connector.

IPDI	IPDM E/R		TCM		
Connector	Terminal	Connector Terminal		Continuity	
E5	30	B45	19	Existed	

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

IPDI	M E/R		Continuity
Connector Terminal		Ground	Continuity
E5	30		Not existed

Is the inspection result normal?

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B2605 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

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

NO >> Repair or replace harness.

B2606 STEERING LOCK RELAY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2606 STEERING LOCK RELAY

Description INFOID:000000011489227

The steering lock relay ON signal is transmitted to IPDM E/R by BCM via CAN communication. IPDM E/R turns the steering lock relay ON and transmits the release of the steering to BCM.

DTC Logic INFOID:0000000011489228

DTC DETECTION LOGIC

NOTE:

- If DTC B2606 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2606 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2606	S/L RELAY	BCM detects that there is a mismatch between the following statuses. • Steering lock unit ON signal transmitted by IPDM E/R • The steering lock unit status feedback	Steering lock relay (Built into IPDM E/R)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- 2. Turn ignition switch OFF.
- 3. Press driver side door switch and wait for at least 1 second.
- 4. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-69, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT. Refer to PCS-32, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

2.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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INFOID:0000000011489229

< DTC/CIRCUIT DIAGNOSIS >

B2607 STEERING LOCK RELAY

Description INFOID:0000000011489230

BCM requests to IPDM E/R to supply power to steering lock unit. After receiving the power, the steering lock unit transmits an ON signal to BCM.

DTC Logic INFOID:0000000011489231

DTC DETECTION LOGIC

NOTE:

- If DTC B2607 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2607 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2607	S/L RELAY	BCM detects that there is a difference between the following statuses. • Steering lock unit ON signal transmitted by IPDM E/R • The steering lock unit status feedback	Harness or connectors (Steering lock unit power supply circuit is open or shorted) Steering lock relay (Built into IPDM E/R)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON under the following conditions.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- Turn ignition switch OFF.
- 3. Press driver side door switch and wait for at least 1 second.
- 4. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

>> Go to SEC-70, "Diagnosis Procedure". YES

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489232

[INTELLIGENT KEY SYSTEM]

1. CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT. Refer to PCS-32, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK STEERING LOCK UNIT POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect steering lock unit connector.
- Check voltage between steering lock unit harness connector and ground.

	+) Jock unit	(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(/ ipproxi)
M40	1	Ground	Press push-button ignition switch when steering lock is in lock condition.	Battery voltage

Is the inspection result normal?

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

B2607 STEERING LOCK RELAY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

$\overline{3}$.check steering lock unit circuit

- 1. Turn ignition switch OFF.
- Disconnect IPDM E/R connector.
- 3. Check continuity between steering lock unit harness connector and IPDM E/R harness connector.

Steering	lock unit	IPDM E/R Connector Terminal		Continuity
Connector	Terminal			Continuity
M40	1	E5	11	Existed

4. Check continuity between steering lock unit harness connector and ground.

Steering	lock unit		Continuity	
Connector	Terminal	Ground	Continuity	
M40	1		Not existed	

Is the inspection result normal?

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

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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SEC-71 Revision: 2015 June GT-R

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B2608 STARTER RELAY

Description INFOID:000000011489233

Located in IPDM E/R, the starter relay runs the starter motor. The starter relay is turned ON by the BCM when the ignition switch is in the 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 BCS-36, "DTC Logic".
- If DTC B2608 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".
- If DTC B2608 is displayed with DTC B210D for IPDM E/R, first perform the trouble diagnosis for DTC B210D. Refer to <u>SEC-102</u>, "<u>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. Turn ignition switch ON under the following conditions.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-72, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489235

1. CHECK BCM POWER SUPPLY CIRCUIT

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

(+) BCM		(-) C		ondition	Voltage (V) (Approx.)
Connector	Terminal				
M121	52	Ground	Shift lever	N or P position	Battery voltage
				Other than above	0

Is the inspection result normal?

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

2.CHECK STARTER RELAY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect BCM connector and IPDM E/R connector.
- 3. Check continuity between IPDM E/R harness connector and BCM harness connector.

B2608 STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

IPDI	M E/R	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E6	46	M121	52	Existed

4. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E6	46		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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Description INFOID:000000011489236

There are 2 switches in the steering lock unit (steering lock/unlock switch 1 and 2). BCM compares those 2 switches conditions to judge the present steering status.

DTC Logic INFOID:000000011489237

DTC DETECTION LOGIC

NOTE:

- If DTC B2609 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2609 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2609	S/L STATUS	BCM detects the malfunction of steering lock unit switches for 1 second.	Harness or connectors [Steering lock unit circuit (BCM side) is open or shorted] Harness or connectors [Steering lock unit circuit (IPDM E/R side) is open or shorted] Steering lock unit IPDM E/R BCM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE 1

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

Is DTC detected?

YES >> Go to SEC-74, "Diagnosis Procedure".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF.
- 3. Press driver side door switch and wait for at least 1 second.
- 4. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-74, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489238

1. INSPECTION START

Perform inspection in accordance with DTC Confirmation procedure. Refer to SEC-40, "DTC Logic".

Which procedure confirms DTC?

DTC confirmation procedure 1>>GO TO 2.

DTC confirmation procedure 2>>GO TO 6.

2.CHECK BCM OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect steering lock unit connector and IPDM E/R connector.

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

3. Check voltage between steering lock unit harness connector and ground.

(+)			Voltage (V) (Approx.)
Steering lock unit		(-)	
Connector Terminal			, , ,
M40	8	Ground	Battery voltage

Is the inspection result normal?

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

3. CHECK STEERING LOCK UNIT CIRCUIT-1

Disconnect BCM connector.

2. Check continuity between steering lock unit harness connector and BCM harness connector.

Steering	Steering lock unit BCM Continuit		BCM	
Connector	Terminal	Connector	Terminal	Continuity
M40	8	M122	98	Existed

3. Check continuity between steering lock unit harness connector and ground.

Steering lock unit			Continuity
Connector	Terminal	Ground	Continuity
M40	8		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-89</u>, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK IPDM E/R OUTPUT SIGNAL

- 1. Connect IPDM E/R connector.
- Disconnect BCM connector.
- 3. Check voltage between steering lock unit harness connector and ground.

(+) Steering lock unit		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 /	
M40	8	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace steering lock unit.

NO >> GO TO 5.

5. CHECK STEERING LOCK UNIT CIRCUIT-2

- 1. Disconnect IPDM E/R connector.
- 2. Check continuity between steering lock unit harness connector and IPDM E/R harness connector.

Steering	lock unit	IPDM E/R		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	8	E5	33	Existed

Check continuity between steering lock unit harness connector and ground.

Steering lock unit			Continuity
Connector	Terminal	Ground	Continuity
M40	8		Not existed

Is the inspection result normal?

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< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

YES >> Replace IPDM E/R. Refer to PCS-32, "DTC Index".

NO >> Repair or replace harness.

6.CHECK BCM OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect steering lock unit connector and IPDM E/R connector.
- Check voltage between steering lock unit harness connector and ground.

(+)			Voltage (V)	
Steering lock unit Connector Terminal		(–)	(Approx.)	
Connector	Terminal			
M40	3	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 7.

7.CHECK STEERING LOCK UNIT CIRCUIT-3

- Disconnect BCM connector.
- 2. Check continuity between steering lock unit harness connector and BCM harness connector.

Steering	lock unit	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	3	M122	97	Existed

3. Check continuity between steering lock unit harness connector and ground.

Steering lock unit			Continuity
Connector	Terminal	Ground	Continuity
M40	3		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

8. CHECK IPDM E/R OUTPUT SIGNAL

- 1. Connect IPDM E/R connector.
- Disconnect BCM connector.
- Check voltage between steering lock unit harness connector and ground.

(+) Steering lock unit		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M40	3	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace steering lock unit.

NO >> GO TO 9.

9. CHECK STEERING LOCK UNIT CIRCUIT-4

- Disconnect IPDM E/R connector.
- Check continuity between steering lock unit harness connector and IPDM E/R harness connector.

Steering	lock unit	IPDN	M E/R	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	3	E5	32	Existed

Check continuity between steering lock unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

Steering lock unit			Continuity
Connector	Terminal	Ground	Continuity
M40	3		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

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< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B260B STEERING LOCK UNIT

Description INFOID:000000011489239

The steering lock unit performs the check by itself according to the steering status.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B260B	STEERING LOCK UNIT	BCM detects malfunctioning of steering lock unit before steering unlocking.	Steering lock unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Press the push-button ignition switch, when steering is locked.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-78, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489241

1. INSPECTION START

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

See SEC-78, "DTC Logic".

Is the DTC B260B displayed again?

YES >> Replace steering lock unit.

NO >> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B260C STEERING LOCK UNIT

Description INFOID:0000000011489242

The steering lock unit performs the check by itself according to the steering status.

DTC Logic INFOID:0000000011489243

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B260C	STEERING LOCK UNIT	BCM detects malfunctioning of steering lock unit before steering locking.	Steering lock unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Turn ignition switch OFF.
- Press driver side door switch.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-79, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. INSPECTION START

- Turn ignition switch ON. 1.
- Check "Self diagnostic result" with CONSULT.
- Touch "ERASE".
- Perform DTC Confirmation Procedure. See SEC-79, "DTC Logic".

Is the DTC B260C displayed again?

YES >> Replace steering lock unit.

NO >> INSPECTION END

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SEC-79 Revision: 2015 June GT-R

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< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B260D STEERING LOCK UNIT

Description INFOID:000000011489245

The steering lock unit performs the check by itself according to the steering lock status (before lock, after lock and unlock).

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B260D	STEERING LOCK UNIT	BCM detects malfunctioning of steering lock unit after steering locking.	Steering lock unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF.
- 3. Press driver side door switch.
- 4. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-80, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489247

1. INSPECTION START

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

See SEC-80, "DTC Logic".

Is the DTC B260D displayed again?

YES >> Replace steering lock unit.

NO >> INSPECTION END

B260F ENGINE STATUS

[INTELLIGENT KEY SYSTEM] < DTC/CIRCUIT DIAGNOSIS > **B260F ENGINE STATUS** Α Description INFOID:0000000011489248 BCM receives the engine status signal from ECM via CAN communication. В DTC Logic INFOID:0000000011489249 DTC DETECTION LOGIC NOTE: If DTC B260F is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic". D If DTC B260F is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic". Е DTC No. Trouble diagnosis name DTC detecting condition Possible cause BCM has not yet received the engine status sig-B260F ENG STATE SIG LOST nal from ECM when ignition switch is in the ON **ECM** F position DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE Turn ignition switch ON under the following conditions. Shift lever is in the P or N position. Н Do not depress brake pedal. Check "Self diagnostic result" with CONSULT. Is DTC detected? >> Go to SEC-81, "Diagnosis Procedure". YES >> INSPECTION END NO Diagnosis Procedure INFOID:0000000011489250 1. INSPECTION START Turn ignition switch ON. **SEC** Check "Self diagnostic result" with CONSULT. Touch "ERASE". **Perform DTC Confirmation Procedure.** See SEC-81, "DTC Logic". Is the DTC B260F displayed again? YES >> GO TO 2. M NO >> GO TO 3. 2.replace ecm Replace ECM. Refer to EC-20, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement (GT-R certified NISSAN dealer)". >> INSPECTION END

3.CHECK INTERMITTENT INCIDENT Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Revision: 2015 June SEC-81 GT-R

[INTELLIGENT KEY SYSTEM]

B26E9 STEERING STATUS

Description INFOID:000000011489251

There are 2 switches in the steering lock unit (steering lock/unlock switch 1 and 2). BCM compares those 2 switches conditions to judge the present steering status.

DTC Logic

DTC DETECTION LOGIC

NOTE:

 If DTC B26E9 is displayed with DTC B2609, first perform the trouble diagnosis for DTC B2609. Refer to SEC-74, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26E9	S/L STATUS	BCM requests lock to steering lock unit, then steering lock unit transmits a recognition signal to BCM, but steering lock unit remains unlocked.	Steering lock unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- 2. Turn ignition switch OFF.
- Press driver side door switch and wait for at least 1 second.
- 4. Turn ignition switch ON.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-82, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489253

1. INSPECTION START

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

Refer to SEC-82, "DTC Logic".

Is the DTC B26E9 displayed again?

YES >> GO TO 2.

NO >> GO TO 3.

2.REPLACE STEERING LOCK UNIT

- Replace steering lock unit.
- Perform DTC confirmation procedure. Refer to <u>SEC-82, "DTC Logic"</u>.

Is the DTC B26E9 displayed again?

YES >> GO TO 3.

NO >> INSPECTION END

3.check intermittent incident

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

B26EA KEY REGISTRATION

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B26EA KEY REGISTRATION

Description INFOID:0000000011489254

When the registered Intelligent Key is carried, the door lock/unlock operation and the push-button ignition switch operation become possible.

DTC Logic INFOID:0000000011489255

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26EA	KEY REGISTRA- TION	Intelligent Key is not registered successfully.	Improper registration operationIntelligent KeyBCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Perform initialization with CONSULT. Reregister all Intelligent Keys. For initialization and registration of Intelligent Key, follow the instruction of CONSULT display.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

>> Go to SEC-83, "Diagnosis Procedure" YES

>> INSPECTION END NO

Diagnosis Procedure

1 . PERFORM INITIALIZATION

- Perform initialization with CONSULT. Reregister all Intelligent Keys. For initialization and registration of Intelligent Key, follow the instruction of CONSULT display.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> GO TO 2.

NO >> INSPECTION END

2.REPLACE INTELLIGENT KEY

- Replace Intelligent Key. Reregister all Intelligent Keys
- Perform initialization with CONSULT. For initialization, follow the instruction of CONSULT display.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> INSPECTION END SEC

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INFOID:0000000011489256

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SEC-83 Revision: 2015 June GT-R

Description INFOID:000000011489257

There are 2 switches in the steering lock unit. IPDM E/R compares those 2 switch conditions to judge the present steering status and transmit the result to BCM via CAN communication.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2612 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B2612 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

DTC	Self-diagnosis name	DTC detecting condition	Possible causes
B2612	S/L STATUS	BCM detects the difference between the following status for 1 second • Steering lock or unlock • Feedback of steering lock status from IPDM E/R (CAN)	Harness or connectors [Steering lock unit circuit (BCM side) is open or shorted] Harness or connectors [Steering lock unit circuit (IPDM E/R side) is open or shorted] Steering lock unit IPDM E/R BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE 1

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

Is DTC detected?

YES >> Go to SEC-84, "Diagnosis Procedure".

NO >> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE 2

- Turn ignition switch ON.
- Turn ignition switch OFF.
- Press door switch.
- 4. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-84, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489259

1. INSPECTION START

Perform inspection in accordance with DTC Confirmation procedure. Refer to SEC-40, "DTC Logic".

Which procedure confirms DTC?

DTC confirmation procedure 1>>GO TO 2.

DTC confirmation procedure 2>>GO TO 6.

2.CHECK BCM OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect steering lock unit connector and IPDM E/R connector.
- Check voltage between steering lock unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

	(+)		V 16 0.0	
Steering lock unit		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 /	
M40	8	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.check steering lock unit circuit-1 $\,$

- Disconnect BCM connector.
- Check continuity between steering lock unit harness connector and BCM harness connector.

Steering	lock unit	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	8	M122	98	Existed

Check continuity between steering lock unit harness connector and ground.

Steering	lock unit		Continuity
Connector	Terminal	Ground	Continuity
M40	8		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK IPDM E/R OUTPUT SIGNAL

- Connect IPDM E/R connector.
- 2. Disconnect BCM connector.
- Check voltage between steering lock unit harness connector and ground.

(Steering	(+) ering lock unit (-) Voltage (Appro		Voltage (V) (Approx.)
Connector	Terminal		,
M40	8	Ground	Battery voltage

Is the inspection result normal?

>> Replace steering lock unit. YES

NO >> GO TO 5.

${f 5.}$ CHECK STEERING LOCK UNIT CIRCUIT-2

- Disconnect IPDM E/R connector.
- Check continuity between steering lock unit harness connector and IPDM E/R harness connector.

Steering	Steering lock unit		IPDM E/R	
Connector	Terminal	Connector Terminal		Continuity
M40	8	E5	33	Existed

3. Check continuity between steering lock unit harness connector and ground.

Steering	lock unit		Continuity	
Connector Terminal		Ground	Continuity	
M40	8		Not existed	

Is the inspection result normal?

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

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< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

NO >> Repair or replace harness.

6.CHECK BCM OUTPUT SIGNAL

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

(+) Steering lock unit		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M40	3	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 7.

7.CHECK STEERING LOCK UNIT CIRCUIT-3

- 1. Disconnect BCM connector.
- Check continuity between steering lock unit harness connector and BCM harness connector.

Steering lock unit		всм		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M40	3	M122	97	Existed	

3. Check continuity between steering lock unit harness connector and ground.

Steering lock unit			Continuity	
Connector	Connector Terminal		Continuity	
M40	3		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation"

NO >> Repair or replace harness.

f 8.CHECK IPDM E/R OUTPUT SIGNAL

- Connect IPDM E/R connector.
- 2. Disconnect BCM connector.
- 3. Check voltage between steering lock unit harness connector and ground.

(+) Steering lock unit		(-)	Voltage (V) (Approx.)	
Connector	Terminal		,	
M40	3	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace steering lock unit.

NO >> GO TO 9.

9. CHECK STEERING LOCK UNIT CIRCUIT-4

- 1. Disconnect IPDM E/R connector.
- 2. Check continuity between steering lock unit harness connector and IPDM E/R harness connector.

Steering lock unit		IPDM E/R		Continuity
Connector	Terminal	Connector Terminal		Continuity
M40	3	E5	32	Existed

Check continuity between steering lock unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

Steering lock unit			Continuity
Connector	Terminal	Ground	Continuity
M40	3		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

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B2617 STARTER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2617 STARTER RELAY CIRCUIT

Description INFOID:000000011489260

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 the 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 BCS-36, "DTC Logic".
- If DTC B2617 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".
- If DTC B2617 is displayed with DTC B210E for IPDM E/R, first perform the trouble diagnosis for DTC B210E. Refer to <u>SEC-103</u>, "<u>DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2617	STARTER RELAY CIRC	An immediate operation of starter relay is requested by BCM, but there is no response for more than 1 second	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.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-88, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489262

1. CHECK STARTER RELAY

- 1. Turn ignition switch ON.
- Check voltage between BCM harness connector and ground.

	+) CM	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
M121	52	Ground	Shift lever	N or P position	Battery voltage
IVITZT	52	Ground	Stillt level	Other than above	0

Is the inspection result normal?

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

2.CHECK STARTER RELAY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector and IPDM E/R connector.
- 3. Check continuity between IPDM E/R harness connector and BCM harness connector.

B2617 STARTER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

IPDI	IPDM E/R		ВСМ		
Connector	Terminal	Connector Terminal		Continuity	
E6	46	M121	52	Existed	

4. Check continuity between IPDM E/R harness connector and ground.

IPDI	M E/R		Continuity
Connector Terminal		Ground	Continuity
E6	46		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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[INTELLIGENT KEY SYSTEM]

B2619 BCM

Description INFOID:000000011489263

BCM requests IPDM E/R to supply power to steering lock unit. After receiving the power, the steering lock unit transmits an ON signal to BCM.

DTC Logic INFOID:000000011489264

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2619	ВСМ	BCM detects a mismatch between the power supplied to the steering lock unit and the feedback for one second or more.	ВСМ

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to <u>SEC-90</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489265

1. INSPECTION START

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

See SEC-90, "DTC Logic".

Is the DTC B2619 displayed again?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> INSPECTION END

B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B261A PUSH-BUTTON IGNITION SWITCH

Description INFOID:0000000011489266

BCM transmits the change in the power supply position with the push-button ignition switch to IPDM E/R via the CAN communication. IPDM E/R transmits the power supply position status via CAN communication to BCM.

DTC Logic INFOID:0000000011489267

DTC DETECTION LOGIC

NOTE:

- If DTC B261A is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B261A is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B261A	PUSH-BTN IGN SW	BCM detects the difference between the following for 1 second or more Power supply position with push-button ignition switch Power supply position from IPDM E/R (CAN)	Harness or connectors (Push-button ignition switch circuit is open or shorted) BCM IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

>> Go to SEC-91, "Diagnosis Procedure". YES

>> INSPECTION END NO

Diagnosis Procedure

INFOID:0000000011489268

1. CHECK BCM OUTPUT

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

(+) IPDM E/R		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
E5	28	Ground	Battery voltage	

Is the inspection result normal?

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

NO >> GO TO 2.

2.check push-button ignition switch circuit

- Disconnect BCM connector.
- Check continuity between BCM harness connector and IPDM E/R harness connector.

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B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

ВСМ		IPDM E/R		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M122	89	E5	28	Existed

3. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M122	89		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

B261E VEHICLE TYPE

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B261E VEHICLE TYPE

Description INFOID:0000000011489269

There are two types of vehicles.

- HEV
- Conventional

DTC Logic INFOID:0000000011489270

DTC DETECTION LOGIC

NOTE:

- If DTC B261E is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-36, "DTC Logic".
- If DTC B261E is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-37, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B261E	VEHICLE TYPE	Difference of BCM configuration	BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-93, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. INSPECTION START

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

See SEC-93, "DTC Logic".

Is the 1st trip DTC B261E displayed again?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

>> INSPECTION END NO

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B2108 STEERING LOCK RELAY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2108 STEERING LOCK RELAY

Description INFOID:000000011489272

The steering lock relay ON signal is transmitted to IPDM E/R by BCM via CAN communication. IPDM E/R turns the steering lock relay ON and transmits the release of the steering to BCM.

DTC Logic INFOID:0000000011489273

DTC DETECTION LOGIC

NOTE:

If DTC B2108 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-14, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2108	STRG LCK RELAY ON	IPDM E/R detects that the relay is stuck in the ON position for about 1 second even if the IPDM E/R receives steering lock relay ON/OFF signal from BCM.	

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to SEC-94, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489274

1. CHECK STEERING LOCK RELAY

Check voltage between IPDM E/R harness connector and ground.

·	(+) IPDM E/R		Condition		Voltage (V) (Approx.)
Connector	Terminal				, , , ,
			Ignition switch OFF	A few seconds after opening the driver door	Battery voltage
E5	11	Ground	Ignition switch LOCK	Press the push- button ignition switch	Battery voltage
			Ignition switch ACC	or ON	0

Is the inspection normal?

YES >> GO TO 2.

NO >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

2. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

B2109 STEERING LOCK RELAY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2109 STEERING LOCK RELAY

Description INFOID:0000000011489275

The steering lock relay ON signal is transmitted to IPDM E/R by BCM via CAN communication. IPDM E/R turns the steering lock relay ON and transmits the release of the steering to BCM.

DTC Logic INFOID:0000000011489276

DTC DETECTION LOGIC

NOTE:

- If DTC B2109 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-14, "DTC Logic".
- When IPDM E/R power supply voltage is low (Approx. 7 8 V for about 1 second), the DTC B2109 may be detected.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2109	STRG LCK RELAY OFF	IPDM E/R detects that the relay is stuck in the OFF position for about 1 second even if the IPDM E/R receives steering lock relay ON/OFF signal from BCM.	Harness or connector (Power supply circuit) IPDM E/R Battery

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

>> Go to SEC-95, "Diagnosis Procedure". YES

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT

Check IPDM E/R power supply circuit. Refer to SEC-109, "IPDM E/R: Diagnosis Procedure".

Is the circuit normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2. CHECK FUSE

- Turn ignition switch OFF.
- Check 10 A fuse (No. 48, located in IPDM E/R).

Is the inspection normal?

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

NO >> Check the following.

- Harness for open or short between IPDM E/R and battery
- Fuse

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Description INFOID:000000011489278

There are 2 switches in the steering lock unit. IPDM E/R compares those 2 switches conditions to judge the present steering status and transmit the result to BCM via CAN communication.

DTC Logic INFOID:000000011489279

DTC DETECTION LOGIC

NOTE:

If DTC B210A is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-14, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210A	STRG LCK STATE SW	IPDM E/R detects the difference between steering condition switches 1 and 2 for 1 second	Harness or connectors [Steering lock unit circuit (BCM side) is open or shorted] Harness or connectors [Steering lock unit circuit (IPDM E/R side) is open or shorted] Steering lock unit IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE 1

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

Is DTC detected?

YES >> Go to SEC-96, "Diagnosis Procedure".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

- 1. Turn ignition switch ON.
- 2. Turn ignition switch OFF.
- Press driver side door switch and wait for at least 1 second.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-96</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489280

1.INSPECTION START

Check the case in which DTC is detected.

- Case1: It is detected after ignition switch is changed from OFF to ON
- Case2: It is detected after ignition switch is changed from ON to OFF and door switch is pressed

In which case is DTC detected?

Case1 >> GO TO 2.

Case2 >> GO TO 6.

2.CHECK BCM OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect steering lock unit connector and IPDM E/R connector.
- Check voltage between steering lock unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

	(+)		V-16 0.0	
Steering lock unit		(–)	Voltage (V) (Approx.)	
Connector Terminal			, , ,	
M40	8	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.check steering lock unit circuit-1 $\,$

- Disconnect BCM connector.
- Check continuity between steering lock unit harness connector and BCM harness connector.

Steering	lock unit	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	8	M122	98	Existed

Check continuity between steering lock unit harness connector and ground.

Steering lock unit			Continuity
Connector	Terminal	Ground	Continuity
M40	8		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK IPDM E/R OUTPUT SIGNAL

- Connect IPDM E/R connector.
- 2. Disconnect BCM connector.
- Check voltage between steering lock unit harness connector and ground.

(+) Steering lock unit		(-)	Voltage (V) (Approx.)
Connector	Terminal		,
M40	8	Ground	Battery voltage

Is the inspection result normal?

>> Replace steering lock unit. YES

NO >> GO TO 5.

${f 5.}$ CHECK STEERING LOCK UNIT CIRCUIT-2

- Disconnect IPDM E/R connector.
- Check continuity between steering lock unit harness connector and IPDM E/R harness connector.

Steering	Steering lock unit IPDM E/R Contin		IPDM E/R	
Connector	Terminal	Connector	Terminal	Continuity
M40	8	E5	33	Existed

3. Check continuity between steering lock unit harness connector and ground.

Steering lock unit			Continuity
Connector	Terminal	Ground	Continuity
M40	8		Not existed

Is the inspection result normal?

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

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< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

NO >> Repair or replace harness.

6.CHECK BCM OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect steering lock unit connector and IPDM E/R connector.
- 3. Check voltage between steering lock unit harness connector and ground.

(+) Steering lock unit		(-)	Voltage (V) (Approx.)
Connector	Terminal		(+ +
M40	3	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 7.

7.CHECK STEERING LOCK UNIT CIRCUIT-3

- 1. Disconnect BCM connector.
- Check continuity between steering lock unit harness connector and BCM harness connector.

Steering	lock unit	ВСМ		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	3	M122	97	Existed

3. Check continuity between steering lock unit harness connector and ground.

Steering lock unit			Continuity
Connector	Terminal	Ground	Continuity
M40	3		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness.

f 8.CHECK IPDM E/R OUTPUT SIGNAL

- Connect IPDM E/R connector.
- 2. Disconnect BCM connector.
- 3. Check voltage between steering lock unit harness connector and ground.

(+) Steering lock unit		(-)	Voltage (V) (Approx.)
Connector	Terminal		, , ,
M40	3	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace steering lock unit.

NO >> GO TO 9.

9. CHECK STEERING LOCK UNIT CIRCUIT-4

- 1. Disconnect IPDM E/R connector.
- 2. Check continuity between steering lock unit harness connector and IPDM E/R harness connector.

Steering	lock unit	IPDM E/R		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M40	3	E5	32	Existed	

Check continuity between steering lock unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

Steering lock unit			Continuity
Connector	Terminal	Ground	Continuity
M40	3		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

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B210B STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B210B STARTER CONTROL RELAY

Description INFOID:000000011489281

Starter control relay, integrated in IPDM E/R, permits the starter relay operation when in the N or P position and the steering is locked or unlocked. It is installed in parallel with the starter 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 PCS-14, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210B	START CONT RLY ON	IPDM E/R detects that the relay is stuck in the ON position even if the followings conditions are met for about 1 second. • Starter control relay ON/OFF signal from BCM • P/N position signal from TCM	IPDM E/R

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.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-100, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489283

1. INSPECTION START

- Turn ignition switch ON.
- Check "Self diagnostic result" for IPDM E/R with CONSULT.
- 3. Touch "ERASE".
- 4. Perform DTC Confirmation Procedure.

See PCS-32, "DTC Index".

Is the DTC B210B displayed again?

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

NO >> INSPECTION END

B210C STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B210C STARTER CONTROL RELAY

Description INFOID:0000000011489284

Starter control relay, integrated in IPDM E/R, permits the starter relay operation when in the N or P position and the steering is locked or unlocked. It is installed in parallel with the starter 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 PCS-14, "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	IPDM E/R detects that the relay is stuck in the OFF position even if the followings conditions are met for about 1 second. • Starter control relay ON/OFF signal from BCM • P/N position signal from TCM	IPDM E/R 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.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-101, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. INSPECTION START

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

See SEC-101, "DTC Logic".

Is the DTC B210C displayed again?

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

NO >> INSPECTION END

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B210D STARTER RELAY

Description INFOID:000000011489287

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 the START position. IPDM E/R transmits the starter relay ON signal to BCM via CAN communication.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210D is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-14, "DTC Logic".
- If DTC B210D is displayed with DTC B2617, first perform the trouble diagnosis for DTC B2617. Refer to <u>SEC-88</u>, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210D	STARTER RELAY ON	IPDM E/R detects that the relay is stuck in the ON position even if the followings conditions are met for about 1 second. • Starter control relay ON/OFF signal from BCM • P/N position signal from TCM	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.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-102</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489289

1. INSPECTION START

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" for IPDM E/R with CONSULT.
- 3. Touch "ERASE".
- 4. Perform DTC Confirmation Procedure.

See SEC-102, "DTC Logic".

Is the DTC B210D displayed again?

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

NO >> INSPECTION END

[INTELLIGENT KEY SYSTEM]

B210E STARTER RELAY

Description

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 the START position. IPDM E/R transmits the starter relay ON signal to BCM via CAN communication.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210E is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-14, "DTC Logic".
- If DTC B210E is displayed with DTC B2110 for IPDM E/R, first perform the trouble diagnosis for DTC B2110. Refer to SEC-107, "DTC Logic".
- If DTC B210E is displayed with DTC B2617 for BCM, first perform the trouble diagnosis for DTC B2617. Refer to SEC-88, "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	IPDM E/R detects that the relay is stuck in the OFF position even if the followings conditions are met for about 1 second. • Starter control relay ON/OFF signal from BCM • P/N position signal from TCM	Harness or connector (Starter relay circuit is open or short) IPDM E/R 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.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-103, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK STARTER RELAY OUTPUT SIGNAL

1. Check voltage between BCM harness connector and ground.

	+) CM	(–)	Condition		Voltage (V) (Approx.)	
Connector	Terminal		Ignition switch	Brake pedal	Shift lever	(11 -)
					P or N	Battery voltage
M121	52	Ground	ON	Depressed	Other than above	0

Is the inspection result normal?

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

2. CHECK STARTER RELAY OUTPUT SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect IPDM E/R connector.
- Disconnect BCM connector.

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B210E STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

4. Check continuity between BCM harness connector and IPDM E/R harness connector.

В	CM	IPDI	M E/R	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M121	52	E6	46	Existed

5. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M121	52		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

3.check starter relay power supply circuit

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

(+) IPDM E/R		(-)	Voltage (V) (Approx.)
Connector	Terminal		, , ,
E6	36	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Check harness for open or short between IPDM E/R and battery.

4.REPLACE BCM

- 1. Replace BCM. Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Work Procedure".
- 2. Perform DTC CONFIRMATION PROCEDIURE. Refer to SEC-103, "DTC Logic".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

B210F SHIFT POSITION/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B210F SHIFT POSITION/CLUTCH INTERLOCK SWITCH

Description INFOID:000000011489293

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

- P/N position signal from TCM
- 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 PCS-14, "DTC Logic"

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210F	INTER LOCK/PNP SW ON	IPDM E/R detects the difference between the signals below for 1 second or more. • P/N position signal from TCM • Shift position signal from BCM (CAN)	Harness or connectors (TCM circuit is open or shorted) TCM BCM 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.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-105, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011489295

1. CHECK BCM INPUT SIGNAL

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

	(+) CM	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 - 7
M123	140	Ground	Shift lever	P or N position	Battery voltage
IVI 123	140	Ground	Shiit level	Other than above	0

Is the inspection normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> GO TO 2.

2.CHECK PNP SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- 3. Check continuity between IPDM E/R harness connector and BCM harness connector.

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B210F SHIFT POSITION/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

IPDI	M E/R	В	СМ	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E5	30	M123	140	Existed

4. Check continuity between IPDM E/R harness connector and ground.

IPDI	M E/R		Continuity
Connector	Terminal	Ground	Continuity
E5	30		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

B2110 SHIFT POSITION/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

B2110 SHIFT POSITION/CLUTCH INTERLOCK SWITCH

Description INFOID:000000011489296

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

- P/N position signal from TCM
- 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 PCS-15, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2110	INTER LOCK/PNP SW	IPDM E/R detects the difference between the signals below for 1 second or more. • P/N position signal from TCM • Shift position signal from BCM (CAN)	Harness or connectors (TCM circuit is open or shorted) TCM IPDM E/R BCM

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.
- Shift lever is in the P or N position.
- Do not depress brake pedal.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-107, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK BCM INPUT SIGNAL

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

(+) BCM		(–)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(* .pp. 3/4)	
M123	140	Ground	Shift lever	P or N position	Battery voltage	
WIIZS				Other than above	0	

Is the inspection normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> GO TO 2.

2.CHECK PNP SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- 3. Check continuity between IPDM E/R harness connector and BCM harness connector.

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Revision: 2015 June SEC-107 GT-R

B2110 SHIFT POSITION/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

IPDI	M E/R	В	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
E5	30	M123	140	Existed	

4. Check continuity between IPDM E/R harness connector and ground.

IPDI	/I E/R		Continuity
Connector	Terminal	Ground	
E5	30		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000011489299

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1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Signal name	Fuse and fusible link No.
Ratton, power cumby	1
Battery power supply	10

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

(+) (-)			Voltage
ВСМ			(Approx.)
Connector	Terminal	Ground	
M118	1	Glound	Battery voltage
M119	11		Battery Voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector Terminal		Ground	Continuity
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

IPDM E/R

Revision: 2015 June

IPDM E/R : Diagnosis Procedure

1. CHECK FUSES AND FUSIBLE LINK

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

Signal name	Fuses and fusible link No.	
Battery power supply	С	
	50	
	51	

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INFOID:0000000011489300

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

Is the fuse fusing?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

Terminals			
(+)		(-)	Voltage
IPDN	M E/R	()	(Approx.)
Connector	Terminal	Ground	
E4	1	Giodila	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3. CHECK GROUND CIRCUIT

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

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E5	12	Ground	Existed
E6	41		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

HOOD SWITCH

Description INFOID:0000000011489301

Hood switch is built into hood lock (RH) and connected to IPDM E/R which detects the open/close condition of hood.

Component Function Check

1. CHECK FUNCTION

- 1. Select "HOOD SW" in "Data Monitor" mode with CONSULT.
- 2. Check the hood switch signal under the following condition.

Test item	Condition		Status
HOOD SW	Hood	Open	ON
HOOD SW	11000	Close	OFF

Is the indication normal?

YES >> Hood switch is OK.

NO >> Go to <u>SEC-111, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK HOOD SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connector E9 and hood switch connector.
- 3. Check continuity between IPDM E/R harness connector and hood switch harness connector.

IPDM E/R		Hood switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E9	104	E83	2	Existed

4. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R			Continuity
Connector Terminal		Ground	Continuity
E9	104		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK IPDM E/R OUTPUT

- Connect IPDM E/R connector.
- Check voltage between IPDM E/R harness connector and ground.

IPD	(+) M E/R	(–)	Voltage (V)
Connector	Terminal	(Approx	(Approx.)
E9	104	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

3. CHECK HOOD SWITCH

Refer to SEC-112, "Component Inspection".

Is the inspection result normal?

Revision: 2015 June SEC-111 GT-R

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HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

YES >> GO TO 4.

NO >> Replace hood switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011489304

1. CHECK HOOD SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect hood switch connector.
- 3. Check continuity between hood switch terminals.

Hood switch		Condition		Continuity
Terr	minal	Condition		Continuity
1	2	Hood switch	Press	Not existed
ı	2	Hood Switch	Release	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace hood switch. (Built is hood lock RH.)

HEADLAMP [INTELLIGENT KEY SYSTEM] < DTC/CIRCUIT DIAGNOSIS > **HEADLAMP** Α Description INFOID:0000000011489305 Headlamp lighting when vehicle security system is alarm phase. В Component Function Check INFOID:0000000011489306 1. CHECK HEADLAMP OPERATION Check if headlamp operate by lighting switch. Does headlamp come on when turning switch "ON"? D YES >> Headlamp circuit is OK. >> Go to SEC-113, "Diagnosis Procedure". NO Diagnosis Procedure Е INFOID:0000000011489307 1. CHECK HEADLAMP OPERATION Refer to SEC-113, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> repair or replace the malfunctioning parts. 2.CHECK INTERMITTENT INCIDENT Refer to GI-39, "Intermittent Incident". Н

>> INSPECTION END

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SECURITY INDICATOR LAMP

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

SECURITY INDICATOR LAMP

Description INFOID:000000011489308

NVIS (Nissan Vehicle Immobilizer System-NATS) and vehicle security system conditions are indicated by blink or illumination of security indicator lamp.

Component Function Check

INFOID:0000000011489309

1. CHECK FUNCTION

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

Test item		Description	
THEFT IND	ON	Vehicle security indicator	Illuminates
	OFF	verilide security indicator	Does not illuminate

Is the inspection result normal?

YES >> INSPECTION END

NO >> Go to SEC-114, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011489310

1. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect security indicator lamp connector.
- 3. Check voltage between security indicator lamp harness connector and ground.

(+) Security indicator lamp		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M29	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following.

- 10 A fuse [No. 6, located in the fuse block (J/B)]
- Harness for open or short between security indicator lamp and fuse.

2. CHECK SECURITY INDICATOR LAMP CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between security indicator lamp harness connector and BCM harness connector.

Security in	dicator lamp	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M29	2	M123	141	Existed

Check continuity between security indicator lamp harness connector and ground.

Security indicator lamp			Continuity
Connector	Connector Terminal		Continuity
M29	2		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SECURITY INDICATOR LAMP

SECURITY INDICATOR LAMP

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

Refer to SEC-115, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Replace security indicator lamp. Refer to <u>SEC-209</u>, "Removal and Installation".

Component Inspection

INFOID:0000000011489311

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1. CHECK SECURITY INDICATOR LAMP

- 1. Disconnect security indicator lamp connector.
- 2. Check continuity between security indicator lamp terminals.

Terminal		
Security indicator lamp		Continuity
(+)	(-)	
1	2	Existed
2	1	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace security indicator lamp.

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Revision: 2015 June SEC-115 GT-R

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

KEY WARNING LAMP

Description INFOID:0000000011489312

- Key warning lamp is located on combination meter.
- Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:0000000011489313

1. CHECK FUNCTION

Check the operation with "INDICATOR" in "Active Test" mode with CONSULT.

Test item	Condition		
INDICATOR	KEY ON	Key warning lamp (red) illuminates	
INDICATOR	KEY IND	Key warning lamp (red) blinks	

Is the inspection result normal?

YES >> Key warning lamp in combination meter is OK.

NO >> Refer to <u>SEC-116</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000011489314

1. CHECK KEY WARNING LAMP

Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

Yes >> GO TO 2.

No >> Repair or replace key warning lamp circuit.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

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INFOID:0000000011489316

INFOID:0000000011489317

HORN

Description INFOID:0000000011489315

Perform answer-back for each operation with horn.

Component Function Check

1. CHECK FUNCTION

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

	Test item		Desc	ription
HORN	ON	Horn relay		ON (for 20 ms)

Is the operation normal?

YES >> Horn function is OK.

NO >> Go to SEC-117, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK HORN FUNCTION

Check horn function with horn switch.

Do the horns sound?

YES >> GO TO 2.

NO >> Refer to <u>HRN-2</u>, "Wiring <u>Diagram - HORN -"</u>.

2.CHECK HORN RELAY 1 POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Perform "ACTIVE TEST" ("HORN") with CONSULT.
- 3. Check voltage between horn relay 1 connector and ground.

Horn relay 1			Test item		Voltage (V)
Connector	Terminal		(Approx.)		(Approx.)
E11	1	Ground HORN		ON	Battery voltage → 0 → Battery voltage
				Other than above	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3.CHECK HORN RELAY 1 CIRCUIT 1

- 1. Turn ignition switch OFF.
- 2. Disconnect horn relay 1 connector and diode connector.
- 3. Check continuity between horn relay 1 harness connector and diode harness connector.

Horn	relay 1	Dic	ode	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E11	1	E107	3	Existed

4. Check continuity between horn relay 1 harness connector and ground.

Horr	relay 1		Continuity
Connector	Terminal	Ground	Continuity
E11	1		Not existed

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK HORN RELAY 1 CIRCUIT 2

- Disconnect IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and diode connector.

IPD	M E/R	Dic	ode	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E6	44	E107	2	Existed

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

IPD	M E/R		Continuity
Connector	Connector Terminal		Continuity
E6	44		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK DIODE

Refer to SEC-118, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace diode.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

>> INSPECTION END

Component Inspection

INFOID:0000000011489318

1. CHECK DIODE

- 1. Turn ignition switch OFF.
- 2. Disconnect diode.
- 3. Check the continuity between diode terminals under the following conditions.

Terminal		Continuity
(+)*	(+)*	
3	2	Existed
2	3	Not existed

^{*:} For a digital tester.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace diode.

VEHICLE SECURITY HORN

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY HORN

Description INFOID:0000000011489319

Perform answer-back for each operation with horn.

Component Function Check

1. CHECK FUNCTION

- 1. Select "HORN" in "ACTIVE TEST" mode with CONSULT.
- Check the vehicle security horn operation.

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

Is the operation normal?

YES >> Vehicle security horn function is OK.

>> Go to SEC-119, "Diagnosis Procedure". NO

Diagnosis Procedure

1.CHECK FUSE

Turn ignition switch OFF.

- Check that the following fuse are not fusing.
- 10A fuse [No.10 located in fuse block (J/B)]

Is the inspection result normal?

YFS >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK HORN RELAY 2 POWER SUPPLY

- Disconnect horn relay 2 connector.
- Check voltage between horn relay 2 connector and ground.

Horn re	elay 2		Voltage (V)
Connector Terminal		Ground	(Approx.)
E18	1	-	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check horn relay 2 power supply circuit.

3.check vehicle security horn power supply

- Connect horn relay 2 connector.
- Turn ignition switch ON.
- Perform "ACTIVE TEST" ("HORN") with CONSULT.
- Check voltage between vehicle security horn connector and ground.

Vehicle security horn			Test item		Voltage (V)
Connector	Terminal		rest item		(Approx.)
E32	1	Ground	HORN	ON	Battery voltage → 0 → Battery voltage
				Other than above	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

f 4.CHECK VEHICLE SECURITY HORN GROUND

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SEC-119 Revision: 2015 June GT-R

VEHICLE SECURITY HORN

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

- 1. Turn ignition switch OFF.
- Disconnect vehicle security horn connector.
- 3. Check continuity between vehicle security horn connector and ground.

Vehicle s	ecurity horn		Continuity
Connector	Terminal	Ground	Continuity
E33	2		Existed

Is the inspection result normal?

YES >> Replace vehicle security horn.

NO >> Repair or replace harness.

5. CHECK HORN RELAY 2 CIRCUIT

- 1. Disconnect horn relay 2 connector.
- 2. Check continuity between vehicle security horn harness connector and horn relay 2 connector.

Vehicle security horn		Horn r	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
E32	1	E18	2	Existed

Check continuity between driver seat control unit harness connector and ground.

Vehicle s	security horn		Continuity
Connector	Terminal	Ground	Continuity
E32	1		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK HORN RELAY 2

Check horn relay 2.

Refer to SEC-121, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace horn relay 2.

7. CHECK HORN RELAY 2 CIRCUIT 1

- 1. Disconnect diode connector.
- 2. Check continuity between diode harness connector and horn relay 2 harness connector.

Diode		Horn r	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
E107	1	E18	3	Existed

Check continuity between diode harness connector and ground.

D	iode		Continuity
Connector	Connector Terminal		Continuity
E107	1		Not existed

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness.

8.CHECK HORN RELAY 2 CIRCUIT 2

- 1. Disconnect IPDM E/R connector.
- Check continuity between diode harness connector and IPDM E/R harness connector.

VEHICLE SECURITY HORN

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

Diode		IPDM	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
E107	2	E6	44	Existed

3. Check continuity between diode harness connector and ground.

D	Piode		Continuity
Connector Terminal		Ground	Continuity
E107	2		Not existed

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace harness.

9.CHECK DIODE

Check diode.

Refer to SEC-121, "Component Inspection".

Is the inspection result normal?

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

NO >> Replace diode.

Component Inspection

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HORN RELAY 2

1. CHECK HORN RELAY 2

- Turn ignition switch OFF.
- 2. Disconnect horn relay 2.
- 3. Check horn relay 2.

Horn relay 2	Condition	Voltage
Terminal	Condition	(Approx.)
2	12 V direct current supply between terminals 1 and 3.	12 V
	No current supply	0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace horn relay 2.

DIODE

1. CHECK DIODE

- Turn ignition switch OFF.
- 2. Disconnect diode.
- Check the continuity between diode terminals under the following conditions.

Teri	Continuity	
(+)*	(-)*	Continuity
1	2	Existed
2	1	Not existed

^{*:} For a digital tester.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace diode.

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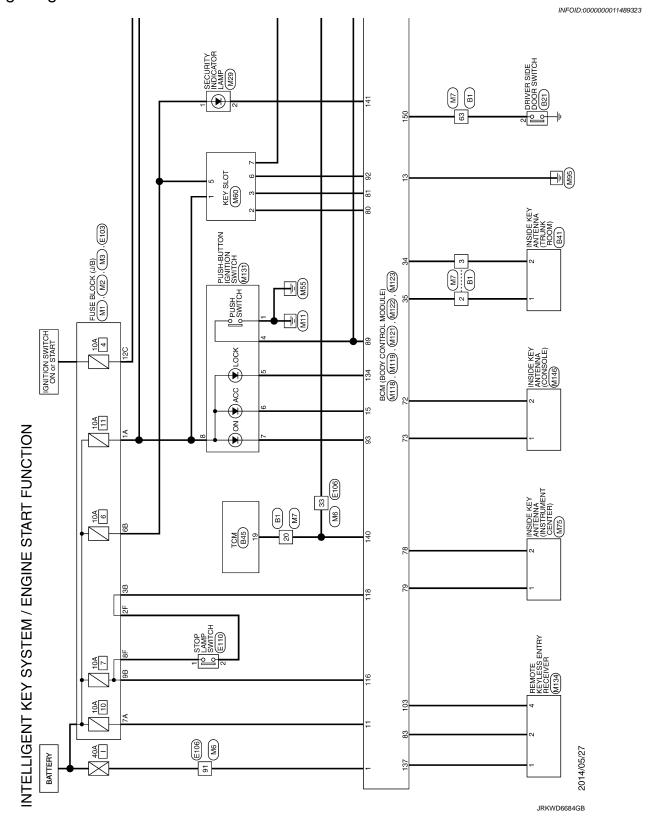
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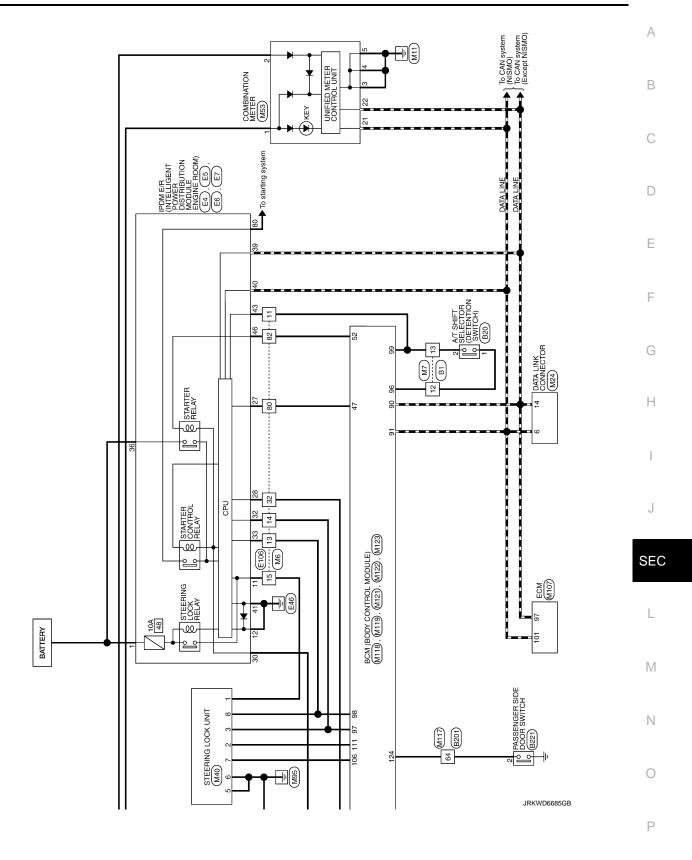
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SEC-121 Revision: 2015 June GT-R

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

Wiring Diagram - INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION -





Revision: 2015 June SEC-123 GT-R

DRIVER SIDE DOOR SWITCH

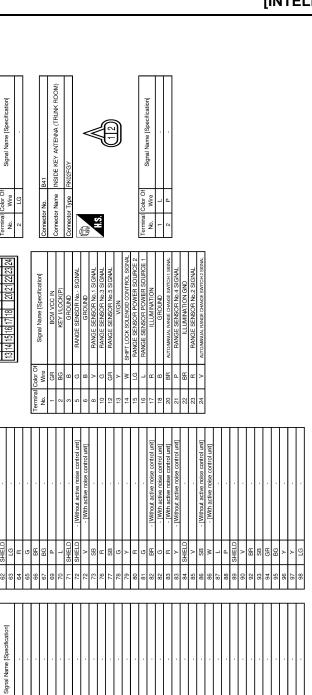
A/T SHIFT SELECTOR

Connector Name

INTELLIGENT KEY SYSTEM / ENGINE START FUNCTION

WIRE TO WIRE

Connector Name



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INTEL	INTELLIGENT KEY SYSTEM / ENGINE START FUNCTION	GINE	STAR	T FUNCTION						
Connector No.	No. B45	S	Connector No.	B201	Н		Connector No.	П		
Connector Name	Name TCM	Conr	Connector Name	ne WIRE TO WIRE	99 BR		Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	
Connector Type	Type RH40FB-RZ8-L-LH-Z	Š	Connector Type	e TH80FW-CS16-TM4	4		Connector Type	Т	2-M4-1V	
			١					1		
·····································	44 A 20 00 00 00 10 10 10 10 10 10 10 10 10 10	修	~ ±		Connector No. B22:	B221 PASSENGER SIDE DOOR SWITCH	個	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	47 44 38 33 31 25 17 14 10 46 42 38 33 25 17 9 5 1	•	1		Connector Type A(A03FW		4 5 6 2 6 7 5	191	
					匮					
Terminal Color Of No. Wire	Solor Of Signal Name [Specification]	Termi	Terminal Color Of No. Wire	r Of Signal Name [Specification]	Ĉ.	<u> </u>	Terminal C No.	Color Of Signal	Signal Name [Specification]	
-	W POWER SUPPLY (MEMORY BACK-UP)-2	Ľ	6 G			ī	4	^		
ო			\dashv				2	7		
4	T	<u>"</u>	7				g	>	,	
ω h	W POWER SUPPLY (MEMORY BACK-UP)-3	٠ <u>٠</u>	8 9		Terminal Color Of	Signal Name [Specification]	\ \$	ar 3		
- α		2 ₹	$^{+}$		$^{+}$		2 =	A G		
0	POWER SUPPI	8	- E		┨		12	BW		
10	LG BACK-UP LAMP SIGNAL	33	H				13	ш		
11	L CAN-H	34	4		Connector No. E4	+	16	FG		
14	V POWER OFF	40	0 P		Connector Name	IPDM E/R (INTELLISENT POWER DISTRIBUTION MODULE	22	BG		
15		4	Ĭ			GINE POOM)	27	*		
16		45	7		Connector Type LC	L02FB-MC	58	ŋ		
17	IGNITION SWIT	43	+		Q		8	GR	ů.	
10	+	44	+		唐		32			
R	BH AUTO/MANUAL RANGE CHANGE SWITCH 1 SIGNAL	4	+		S I	1	3	1		
8 8	L HANGE SENSOR POWER SOURCE 1	5 2	- S	m er		-]	98	FG		
27	╀	8 8	╀			2				
28	V AUTOMANUAL RANGE CHANGE SWITCH 2 SIGNAL	54	>]	Connector No.	No. E6		
31	SB ENGINE SPEED SIGNAL	09	0 B				Connector Name		IPDM E/R (NTELLIGENT POWER DISTRIBUTION MODULE	
33	RANGE SENSOR	6	-		la Te	Signal Name [Specification]		ENGINE HOOM)		
8	SAVE MODE SW	62	+		No. Wire		Connector Type	lype TH08FW-NH		
3 32	G HANGE SENSOH NO.3 SIGNAL	2 2	$^{+}$		* >		Œ			
è %	B RANGE SENSOR NO 2 SIGNAL	4 8	5 0		+		季	!	K	
38	PADDLE SHIFTER (SHIFT	2	\vdash				<u>S</u>		Ŀ	
45	L PADDLE SHIFTER (SHIFT-DOWN SWITCH) SIGNAL	7	-						47 41 40 38	
43	RANGE SENSOR	8	Н						46 44 43	
44	å	8	*							
42	T	8 8	+				T-1-0	10000		
94 6	W SHIFT LOCK SOLENOID CONTROL SIGNAL	8 8	+	9 >			No No		Signal Name [Specification]	
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		8 8	σ	-			40			
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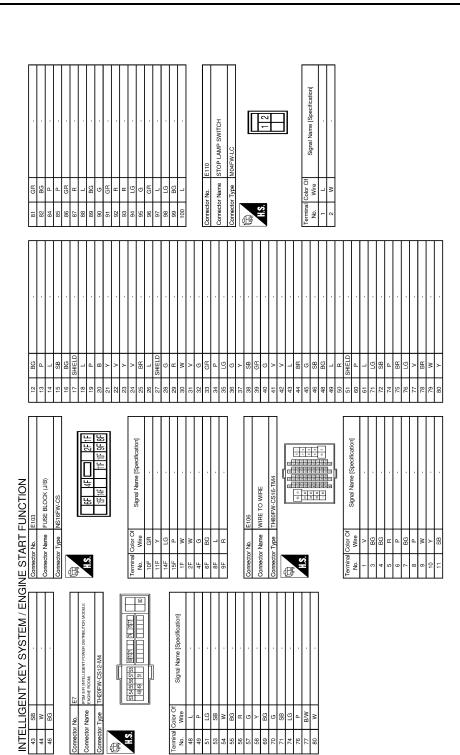
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Revision: 2015 June SEC-125 GT-R



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SEC-126 Revision: 2015 June GT-R

INTELLIGENT RET STSTEW/E	NGINE START FUNCTION
< DTC/CIRCUIT DIAGNOSIS >	[INTELLIGENT KEY SYSTEM]

	86 GR		900 T W 16	92 R	98 W	Н	- T 96	\dashv	· \ 86	+	100 L			Connector No. M7	Connector Name MIRE TO WIRE		Connector Type TH80MW-CS16-TM4			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				0.1.0	Terminal Color Of Signal Name [Specification]		-	4	9	7 W		H		11 W	F	13	14 W	╀	+	+	+	. SB 2B	+	+	T (4
	16 R	Н	Н	22 GR	+	П		27 SHIELD -	П	П	Т	31 V	\dashv	33 GR -	34 LG .	35 P -		37 W -	38	39 GR	⊢		╀	43 ×	+	+	45 G	+	+	49 L	П	51 SHIELD		┰	H	┝	74 R	Ͱ	╁	╁	+	+	M :	+	+	+	× 488	\dashv
NOITONI E TANTO EN	Connector Name FUSE BLOCK (J/B)	Connector Type NS12FW-CS	E	H.S.	09010101001	000			Terminal Color Of Signal Name (Specification)	wire	4	4	12C W -	_	\dashv	9C BR .			Connector No. M6	г	Connector Name WIRE U WIRE	Connector Type TH80MW-CS16-TM4	1				0					па	Wire	Г		H	>	- d	F	+	╀		+	+	+	+	14 L	\dashv
ONE / WETSAS AS THE OTHER	Connector Name FUSE BLOCK (JB) Connector Name	Connector Type NS06FW-M2		જું	A 7A RA	National No.			Terminal Color Of Signal Name (Specification)		V A!	. SA G	3A L	4A LG	5A SB .	6A Y	7A R				Connector No. M2	101 1010011100	Connector Name FUSE BLOCK (J/B)	Connector Type NS10FW, CS	_	₫.				(108 98 78 168 58 158 158 158 158 158 158 158 158 158	11			Terminal Color Of	No. Wire Signal Name [Specification]	10B Y	┝	┞	╀	╀	╀	+	+	. 888 H	4			

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NTTELLIGENT KEY SYSTEM / ENGINE START FUNCTION 24 SHELD Cornector lung SEC Cornector lung		M29 Connector No. M53	Connector Name SECURITY INDICATOR LAMP Connector Name COMBINATION METER	TKD2FBR Connector Type SAB40FW	od framework		H.S.	1 2 3 4 5 6 7 8 9 9 12 12 12 13 14 15 16 16 16 15 15 15 15 15 15 15 15 15 15 15 15 15			Townian Onlay Of		- BATTERY POWER SUPPLY	- GNITION POWER SUPPLY	3 B GROUND	4 B		ť	8 SB	6	12 L VEHICLE SPEED SIGNAL (2:PULSE)	>	B OIL PRE	15 R	16 H LED HEAD LAMP (HH) WAHNING SIGNAL	1 00	Μ	21 L	S/L 12V (MECHANICAL) 22 P CAN-L	24 BB	25 G		27		o o	TC SE	>	В >	_	GR	×	g	39 Y LED HEAD LAMP (LH) WARNING SIGNAL
STEM / ENGINE START FU B4 SHELD B5 LC B6 LC B6 LC B6 LC B7 LC B7 LC B8 LC B9 SHELD B9 SHELD B9 CC B0 C		-	Connector Name S	Т	1	F	H.S.				Torminol Color Of	No. Wire	>	Н		-	Τ	Connector Name S	Connector Type			Ě	112				Terminal Color Of	\dashv	$^{+}$			H	7 P										
STEM / ENGINE START STEM / ENGINE START ST	UNCTION		- IMMelout action or included	- [With active noise control unit]	Sample report of the sample sa	-				•							200	VIZ4	DATA LINK CONNECTOR	3D16FW		L	11 14 16		4 5 6 7			Signal Name [Specification]															
BA BA BA BA BA BA BA BA	ART	SHELD	> 9	2 ×	: _	Ь	SHELD	, 9	>	g i	r >	- @	g	_	Μ		Г	Τ	or Name									I Color Of	Wire		В	٦	>	g	g	۵	>						
BN	INE ST	84	88	8 8	87	88	SS 6	92	93	94	S S	96	88	66	100			000	Connect	Connect	4	厚	Ě	CIT CIT				Termina	ġ «	4	2	9	7	80	Ξ	4	16						
	ENG		T									T																					e control unit]	control unit]								control unit]	control unit]
	ENT KEY SYSTEM /									,																		•			٠		 [Without active noise 	- [With active noise								- [Without active noise	- [With active noise

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Commondon No.	me WIRE TO WIRE	Connector Type TH80MW-CS16-TM4	SI.		Sgral Name (Specification) Terminal Color Of Signal Name (Specification) 13	9 1	SERSOR POWER SUIP-ITY / V	9 W Terminal C	TCH 10 L . Wire	SERANDRICHOUND 31 Y	33 BR 3 W	34	40 G	\neg	TCH 43		NAL 45 G .	- 2	25	M (BACK-UP) 53 R	24 GR - 17 18 14 15 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	T	62	63 Y Terminal Color Of	THROTTLE CONTROL MOTOR RELAY 64 LG . Wire signal Name [Specification]	. 4	L 5 G PASSENGER	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	> (G DHIVEH DOOH,	BH BA	83 B G G G G G G G G G G G G G G G G G G	 	SB 15 Y	SB 15 Y N 17 W
IAKI FUNCIIC	9	Connector Type RH24FGY-RZ8-R-LH-Z	1881		Color Of Wire	Ц	SENSO SENSO			GR ACCELERATOR	H	Н	BG	L ACCELERATOR		GR	ENG		œ	>		N POWER		H	G THROTTLE C	В									
	Connect	Connect	優 (B		Terminal	97	10 88	101	102	103	105	106	107	80 2	12	==	113	114	117	118	120	130	124	126	127	128									
INTELLIGENT REY SYSTEM/ ENGINE START FUNCTION	KEY SLOT	TH12FW-NH		7 2 3 5 6	Signal Name [Specification]	BAT	CLOCK	ILL BAT	ILL	GND KEY SWITCH SIGNAL			M75	INSIDE KEY ANTENNA (INSTRUMENT CENTER)	RK02FGY		<	«	{	((1 2)))			Signal Name [Specification]		•									
	Connector Name KEY SLOT	Connector Type TH12FW-NH	· · ·	l	Terminal Color Of	Н	¥ -	Н	7	7 t	1		Connector No.	Connector Name	Connector Type	١	E E	S I					Terminal Color Of	No. Wire	1 BR	2 ×									

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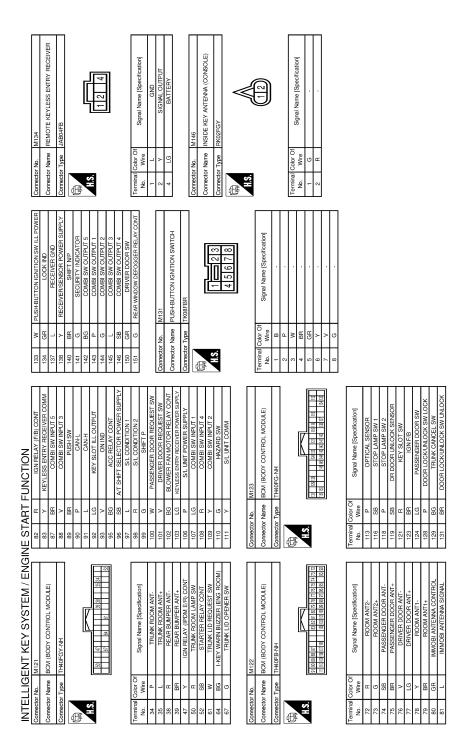
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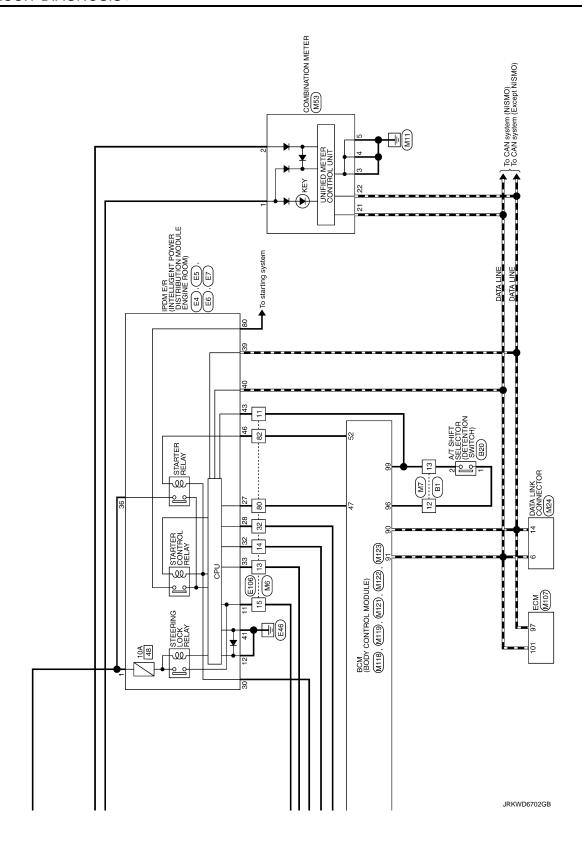
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Revision: 2015 June SEC-130 GT-R

< DTC/CIRCUIT DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS Α Wiring Diagram - NVIS -INFOID:0000000011489324 В STEERING LOCK UNIT C D 64 M117 B201 Е F (S) (M) KEY SLOT G WS55 Н O PUSH SWITCH M123 15 134 89 BCM (BODY CONTROL MODULE) (M118), (M12) , (M122) , (PUSH-BUTTON IGNITION SWITCH (M131) ,E103) Lock FUSE BLOCK (J/B) (MZ), (M3), (ACC J lacksquareNO(▶ SEC IGNITION SWITCH ON or START NISSAN VEHICLE IMMOBILIZER SYSTEM E100 _ 9W ₹ 104 L (B) (M7) TCM B45 20 M Ν 0 2014/05/27 91 Me 106 40A BATTERY Р JRKWD6701GB



[INTELLIGENT KEY SYSTEM]

	Connector No. B21		Connector Name DRIVER SIDE DOOR SWITCH	Connector Type A03FW			X X		2	<u>:T</u>]	lal	No. Wire Ogna name [Specification]	2 LG .			Connector No. B45	MOT complete Name		Connector Type RH40FB-RZ8-L-LH-Z	Ć.		28	47 43 39 35 31 27 23 19	14 10	[[49]]/[37] [38] [39] [1] [1] [1] [1]			펻	_	W POWER SUPPL	8	В	POWER SUPPL	8	В	P POWER	LG BACK-UF	7	V PC	15 P CAN-L	16 W STOP LAMP SWITCH SIGNAL	17 Y IGNITION SWITCH SIGNAL	19 GR STARTER RELAY SIGNAL	23 BR AUTOMANUAL RANGE CHANGE SWITCH 1 SIGNAL	25 L RANGE SENSOR POWER SOURCE 1	LG RA	27 G BANGE CENSOR NO. SIGNAL
	Н	100 G	1		Connector No. B20	COTO TIME OF A	Connector Ivame Art Smirt Selection	Connector Type TH24FW-NH	á.		<u>[</u>	123 56 8 10 12	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	[13]14[15]16[17]18			Terminal Color Of Sizeal Nome (Secontine)	No. Wire Ognia ranie Operination	1 GR BCM VCC IN	2 BG KEY I/LOCK(P)	3 B GROUND	G RANGE SI	6 B GROUND	>	ŋ	GR RANGE SENS	>	M	P	L RANGE SE	В	В	BR AUT	P	BB	α	24 V AUTOMMNUAL RANGE CHANGE SWITCH 2 SIGNAL.												
													- · · · · · · · · · · · · · · · · · · ·					-				_	 [With active noise control unit] 							-	'			- [Without active noise control unit]		4		 [With active noise control unit] 			01								
TEM	П	SO SHIELD	Т	52 B	L	54 B	56 R	57 G	58 G	59 R	60 BR	61 Y	ά	e3 LG	64 R	65 G	BB 99	67 BG	69 P	70 L	71 SHIELD	72 SHIELD	72 V	-	-	-	+	_	\dashv	+	7	+	83	ヿ	84 SHELD	+	+	86 W	\dashv	┪	89 SHIELD	90 V	92 BR	93 SB	94 GR	95 BG	96 Y	97 Y	98 FC
NISSAN VEHICLE IMMOBILIZER SYSTEM	Connector No. B1		Connector Name WIRE TO WIRE	Connector Type TH80FW-CS16-TM4		<u> </u>	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	# G	8 8 8 8 8 8			nal		2 L .	3 Р	9	7 W	8 W	-	10 B .	\dashv	12 GR .	13 BG .	_	4	+	-	\dashv	+	+	+	+	24 BG	+	26 P	+	\dashv	31 GR .	4	\dashv	34 BG ·	39 G ·	40 LG .	41 Y .		43 P	47 B -	

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Revision: 2015 June SEC-133 GT-R

	Connector No. E6	Connector Name PROME INTELLIGENT POWER DISTRIBUTION MODULE	Т	Connector Type TH08FW-NH	4	<u>K</u>		11.3	00 04 14 74	46 44 43			E S	Wire	39 P	+	-	+	+	+	46 BG :		Connector No. E7	-	COLLECTOR INGLINE FROM)	Connector Type TH20FW-CS12-M4			65758 88/4/7 14 /9/7				Terminal Color Of	No. Wire Signal Name [Specification]		49 P		53 SB		F	H	57 G	. × 89		Н	71 SB .	74 LG .	
	Connector No. E4	Connector Name PROWNED BOOMS	- 1	Connector Type L02FB-MC	¢				<u>T</u>	7			ᡖ	a	1 W	2 Y		Γ	Connector No. E5	Connector Name PROM ERROR NATIONAL POWER DISTRIBUTION MODULE PAGENT PAGENT	Commeter Time THOSEM CO19 Ma 1V	Collificator Type Theoryw-Colle-104-17			1.5.	30 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			la la	Wire	y -		7 R		11 SB .	12 B/W -	13 R	16 LG		\vdash	28 G	Ľ	32 L	33 P	36 LG .			
l	61 P	+	+	4	69 P	70 L	71 R		81 SB .	82 V	83 B	84 Y	┪	တ်	+	+	+	4			Councefor No Doos	Τ	Connector Name PASSENGER SIDE DOOR SWITCH	Connector Type A03FW			T.S.	2	1		Terminal Color Of	No. Wire Signal Name [Specification]	2 GR															
	V AUTOM	gg :	33 V RANGE SENSOR NO.1 SIGNAL	BG	g	GR R MODE SV	α	39 W PADDLE SHIFTER (SHIFT-UP SWITCH) SIGNAL	42 L PADDLE SHIFTER (SHIFT-DOWN SWITCH) SIGNAL	43 P RANGE SENSOR NO.4 SIGNAL	RANGE SENS	_	W SHIFT LOCK SOLEN	47 G SAVE MODE LAMP SIGNAL		ſ	Connector No. B201	Connector Name WIRE TO WIRE	1	Connector Lype TH80FW-CS16-TM4		0.000	2 C C C C C C C C C C C C C C C C C C C	9	9 - 回回の - 回回		nal Color Of	No. Wire	. 5	+	. 59 × 0	+	┝	32 LG	33 BR .	34 L	40 P	41 GR .	42 Y	43 ×	. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	45 W	51 SB .	52 G	53 BR .	54 ν .	60 R	

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< DTC/CIRCUIT DIAGNOSIS > [INTELLIGENT KEY SYSTEM]

Connection No.	Τ	Connector Name FUSE BLOCK (J/B)	Connector Type NS06FW-M2	7			34 L ZA1A	DA 74 64 44	TATUNION Y				ğ.	No. Wire	\ \ \ \	ď	y -		+	. SA SB	. × ¥9	L	ŀ	4			Connector No. M2		Connector Name FUSE BLOCK (J/B)	_	Connector Type NS10FW-CS	4			48 38 18	1 B B B 1 B B B B B B B B B B B B B B B				No Wire Signal Name [Specification]	2	- 1	1 2 2	4	4B G .	H	>	0	+	- R	H	ł				
0 31	+	78 88	╀		81 GB	BG	84 P	85 P	Ľ	╁		+	. BB		- GH	╁	$^{+}$	E	+		- US 96	┝	ł	D 06	+	100 L			1	Connector No.	Connector Name STOP LAMP SWITCH		Connector Type M04FW-LC				1.0	<u>T</u>			Toring Color Of	Signal Name [Specification]	1		2 W	l										
IEM 7	2 a	- M	ł	. 87	12 BG .	۵	14 L	H	16 BG .	٥	Т	+	4	20 B		╀	$^{+}$	+	+	25 BR	58	27 SHIELD	Т	5 (. H 62	30 W	31 V	0.00	2 2	+	+	-	36 G ·	H	⊢	. GB	┝	┝	V CP	 Ļ		p (46 SB	\dashv	49 L	Г	0 11 13	SHEED	- P	- · · · · · · · · · · · · · · · · · · ·	H	SB 62	+	\dashv	75 BR	ł
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Revision: 2015 June SEC-135 GT-R

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[INTELLIGENT KEY SYSTEM]

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\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7	14	B OIL PRESSURE SENSOR GROUND	COLLECTOR MAIN	
01 41 111		15	R AIR BAG SIGNAL	Connector Type	Connector Type RH24FGY-RZ8-R-LH-Z
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+	S/L 12V(CPU)	+	HI NE	+	CAN COMMUNICATION LINE
- 8 R	S/L CONDLTLON2	28	BR ALTERNATOR	99 SB	SENSOR POWER SUPPLY
		59	G SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)	100 BR	SENSOR POWER SUPPLY
	•	F	Т	H	CAN COMMUNICATION LINE
	•	31	V PARKING BRAKE SWITCH SIGNAL	102 G	ASCD STEERING SWITCH
	•	32	V BRAKE FLUID LEVEL SWITCH SIGNAL	Ľ	SENSOR GROUND
	•	33	WASHEB LEVEL SWITCH SIGNAL	╀	ROSNES NOTISON IARIEN BOTABELECOA
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		+	+	4	EUM RELAY (SELF SHUI-UFF)
		\dashv	_	+	IGNITION SWITCH
		38	BG FUEL LEVEL SENSOR SIGNAL	107 BG	SENSOR GROUND
		39	Y LED HEAD LAMP (LH) WARNING SIGNAL	108	S ROCELERATOR PEDAL POSITION SENSOR 2
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Revision: 2015 June SEC-137 GT-R

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	Connector No. M119	Connector Name BCM (BODY CONTROL MODULE)	Connector Type NS16FW-CS	1		1/5 1/5	。] `	11 13 14 15 17 18 19				Jal	Wire	7	5 G PASSENGER DOOR UNLOCK OUTPUT	> ;	8 V ALL DOOR, FUEL LID LOCK OUTPUT	5 α	- m	14 P PUSH-BUTTON IGNITION SW ILL GND	15 Y ACC IND	17 W TURN SIGNAL RH (FRONT) OUTPUT	18 BG TURN SIGNAL LH (FRONT) OUTPUT	19 V ROOM LAMP TIMER CONTROL			Connector No. M121	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FGY-NH	1				78				밀	No. Wire Ognarivanie [Openication]	34 P TRUNK ROOM ANT-	35 L TRUNK ROOM ANT+	ж	39 BR REAR BUMPER ANT+	<u>9</u>	50 R TRUNK ROOM LAMP SW	
YSTEM	+		- L	71 Y	- · · · · · · · · · · · · · · · · · · ·	81 G	82 BR .	83 B	\dashv		က်		+	5	+	100 W		Connector No M118	Т	Connector Name BCM (BOD? CONTROL MODULE)	Connector Type M03FB-LC	4			1.3		3		Terminal Color Of	No. Wire Signal Name [Specification]	1 W BAT (F/L)	П	3 W POWER WINDOW POWER SUPPLY(RAP)													
VEHICLE IM	GH PNP SIGNAL	V DATA LINK CONNECTOR	R ASCD BRAKE SWITCH	POWER	SAF		V POWER SUPPLY FOR ECM	B ECM GROUND	\dashv	THROTTLE CON	B ECM GROUND			Connector No. M117	Connector Name WIRE TO WIRE		Connector Type TH80MW-CS16-TM4			(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		3 B			erminal Color Of Signal Name (Specification)	0	9 :	> @			· .		BR .				. as				SB	BG .		GR		

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[INTELLIGENT KEY SYSTEM]

Mara	PUSH-BUTTON IGNITION SWITCH	TK08FBR		- 11-	1 2 3	4 5 6 7 8			Signal Name [Specification]																											
2	r Name	r Type							Color Of Wire	В	۵	W	BR	GR	>	^	5																			
STEM	Connector Name	Connector Type	q]	事	Ś				Terminal Color Of No. Wire	-	2	3	4	2	9	7	8																			
NISSAN VEHICLE IMMOBILIZER SYSTEM	S		M123	BCM (BODY CONTROL MODULE)	TH40FG-NH			131 124 124 124 124 124 124 124 124 124 12	[S [S] [19] [14] [2] [14] [15] [16] [18] [19] [19] [19]			Of Signal Namo (Specification)			STOP LAMP SW 1	STOP LAMP SW 2	OD RD	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	DOOR	TRUNK CANCEL SW	DOOR LOCK/UNLOCK SW UNLOCK	PUSH-BUTTON IGNITION SW ILL POWER	I LOCK IND	RECEIVER GND	RECEIVER/SENSOR POWER SUPPLY		SECURITY INDICATOR	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1		COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	Н	REAR WINDOW DEFOGGER RELAY CONT
AN	>		No.	Connector Name	or Type							Terminal Color Of	Wire	۵	SB	۵	SB	ж	BR	re	۵	BG	BB	Μ	GR	٦	>	BR	9	BG	۵	g	٦	SB	GR	g
NISS	Ξ	4	Connector No.	Connectu	Connector Type	€.	事	Ź				Terminal	Ñ.	113	116	118	119	121	123	124	128	129	131	133	134	137	138	140	141	142	143	144	145	146	150	151

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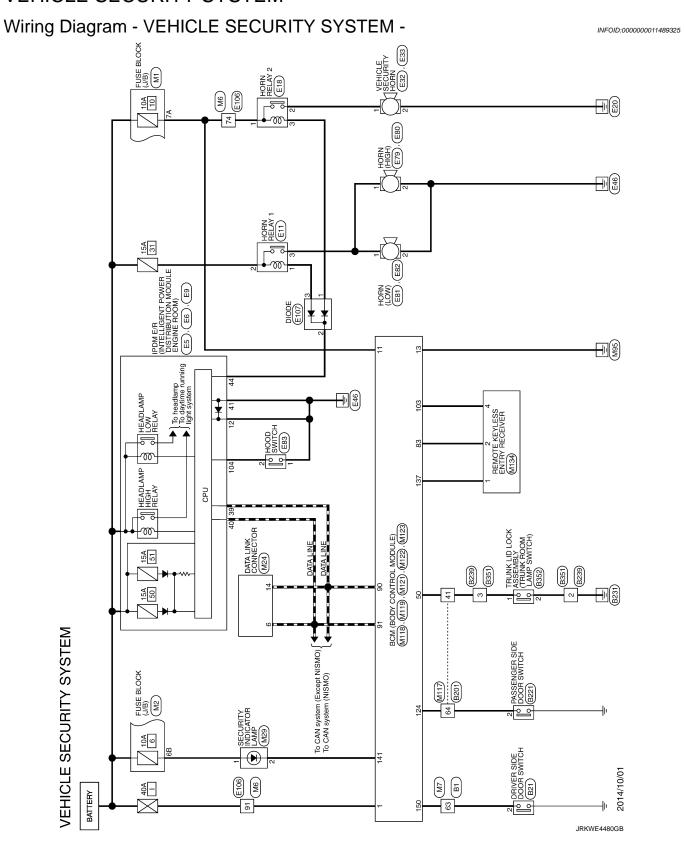
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Revision: 2015 June SEC-139 GT-R

VEHICLE SECURITY SYSTEM



VEHICLE SECURITY SYSTEM

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				. B21	TO COOL LIGHT OF THE PARTY OF T		De A03FW			<u> </u>		2	1		1	Mire Signal Name [Specification]				. B201	Edia OT Salai	wine 10 wine	Connector Type TH80FW-CS16-TM4		N N N N N N N N N N N N N N N N N N N	- v 100 000 000 000 000 000 000 000 000 0	C C C C C C C C C C		2 2 2]	or Of Signal Name (Specification)	Wire Orginal Marie Especification			BG .				97	BR -	٠ .	Р .	GR .		-
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												- OT								ľ	- [With active noise control unit]							- [Without active noise control unit]		- [With active noise control unit]	- [Without active noise control unit]		4	1	- [With active noise control unit]										
49 W	C IDIO	Т	H	L	54 B	56 R	57 G	8	59 R	60 BR	┝	62 SHIELD	_	+	+	99 E	+	╁	71 SHIELD	72 SHIELD	72 V	Ĥ	\vdash	-	+	+	80 E	╁	82 G	83 R	83 Y	84 SHIELD	\dashv	86 SB	9	\dashv	┪	돐	\dashv	\dashv	93 SB	-	95 BG	√ 96	Y 76
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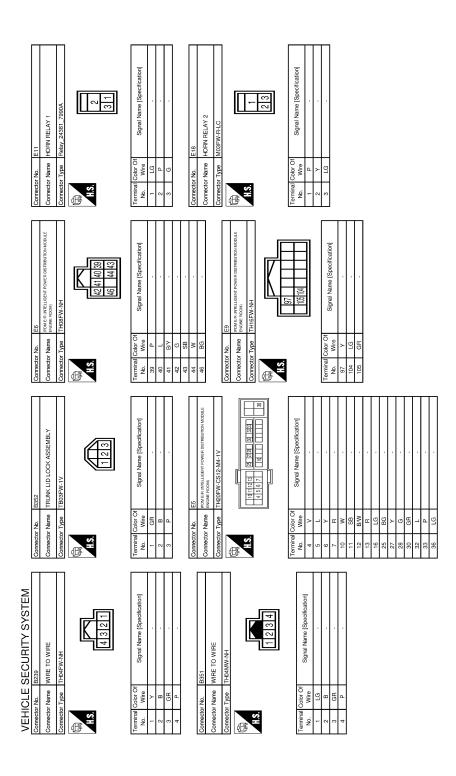
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VEHICLE SECURITY SYSTEM

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VEHICLE SECURITY SYSTEM

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Connector Name		w/ WIRE TO WIRE	5 5 8	\top		Connector Name		M24 DATA LINK CONNECTOR	Connector Nan	e e	WIRE TO WIRE
Connector Type	П	TH80MW-CS16-TM4	53	$^{++}$		Connector Type	Type BD16FW	FW	Connect	Connector Type T	TH80MW-CS16-TM4
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6	g		7			8	g	•	31	>	-
10	В		72	SHIELD	 [Without active noise control unit] 	11	g		32	FG	
11	Α		72	>	 [With active noise control unit] 	14	Ь		33	BB	
12	SB		73	FG		16	>	•	34	_	
13	g		2/2	_					40	ŋ	
14	Μ		77	SB					41	œ	
15	BR		78	G		Connector No.	No. M29		45	SB	
16	α		79	>		Connector	Name	Connector Name SECURITY INDICATOR AMP	43	_	-
17	BG		80	Œ			2000		44	œ	
18	SB		8	Н		Connector Type	Type TK02FBR	FBR	45	9	
20	GR		85	Н	 [Without active noise control unit] 	4			51	SB	
21			82	g	 [With active noise control unit] 	E			52	BG	
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56	P _C		8	7	 [Without active noise control unit] 				62	-	
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[W PUSHBUILON	134 GR LOCK IND 137 L BECEIVER GND	Y RECEIVER	BB	ŋ	142 BG COMBI SW OUTPUT 5	٠ (٠	5 -	146 SB COMBI SW OUTPUT 4	GR	151 G REAR WINDOW DEFOGGER RELAY CONT		Connector No M134	$\overline{}$	Connector Name REMOTE KEYLESS ENTRY RECEIVER	Connector Type JAB04FB	Œ	Much		[112] [4]		-	The contract of the Contract o	l erminal Color Of Signal Name [Specification] No. Wire	1 L GND	SIG	4 LG BATTERY				r								•	•	_
	IGN RELAY (F/B) CONI	COMBI SW INPUT 5		<u>a.</u>	CAN-L	CAN-H		ACC	A/T SHIFT SELECTOR POWER SUPPLY	Н	S/L CONDITION 2	SHET P	DRIVER DOOR REQUEST SW	BE	-	S/L UNIT POWER SUPPLY	COMBI SW INPUT 1	COMBI SW INPIT 9	HAZARD SW	S/L UNIT COMM			M123	BCM (BODY CONTROL MODULE)	TH40FG-NH				131 139 139 149 149 149 149 149 149 149 159 159 159 159 159 159 159 159 159 15			Signal Name [Specification]	OPTICAL SENSOB			DRD	KEY SLOT SW		4	DOOR LOCK/UNLOCK SW LOCK	
ŀ	+	88 88 87 BB	H		90 P	98	26 26	95 BG	H	Н	Н	D 66	+	102 PG	┝	106 P	107 LG	+	110				Connector No.	Connector Name	Connector Type	á	图	H.S.				No Wire	+	Ŧ.	╀	ļ.,	121 R	H	4	128 P	
	Connector No. M121	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FGY-NH				50 47 39 38 35 34	67 64 61 61 52			nal	Wire	34 P IHUNK HOOM ANI:	- H	BB	47 Y IGN RELAY (IPDM E/R) CONT	50 R TRUNK ROOM LAMP SW		BG I-KEY	ŋ		Γ	Connector No. M122	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FB-NH			#S	91 90 88 88 87 87 88 82 81 80 129 129 17 125 125 121 122 122 123 121 121 121 121 121 121			Signal Name [Specification]	+	= 0	SB PASS	HB	76 V DRIVER DOOR ANT-	LG DRI	>	79 BR ROOM ANT1+	
VEHICLE SECURITY SYSTEM		Con	Con		B M118	BCM (BODY CONTROL MODULE)				I I	1 3 Terr			<u>L</u> "	3	[openication]	BAT (F/L) 5				M119	BCM (BODY CONTROL MODULE)	OO MILOTON	NS16FW-CS Con	Con]	11 13 14 15 17 18 19		Sinns Name (Snevification)		INTERIOR ROOM LAMP POWER SUPPLY 1err	DH UNEOCK CUI PUI	CK OUTPUT	L	(FUSE)		N SW ILL GND		TURN SIGNAL RH (FRONT) OUTPUT	
VEHICLE	+	> >	-	ſ	Connector No.	Connector Name	Connector Type M03FB-1 C		6	O E	Ċ				Terminal Color Of	No. Wire	+	r 3	:		Connector No.	Connector Name	- 1	nector lype	E C	E	113			la Te	1	4 u	+	- >	. _.	H	13 B	14 P	+	17 M	

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< ECU DIAGNOSIS INFORMATION >

[INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000011867265

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FK WIFEK HI	Front wiper switch HI	On
ED WIDED LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
FR WIPER STOP	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 SIGNAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAWIP SW	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
HI BEAIN SW	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
HEAD LAWIP SW 1	Lighting switch 2ND	On
HEAD LAMD CW/2	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD SW AS	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
CDL LOCK SW	Other than power door lock switch LOCK	Off
ODL LOCK SW	Power door lock switch LOCK	On
CDL LINI OCK SW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEY CYL LK-SW	NOTE: The item is indicated, but not monitored.	Off
KEY CYL UN-SW	NOTE: The item is indicated, but not monitored.	Off
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is not pressed	Off
	Hazard switch is pressed	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
H/L WSR SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off
IT O/ITOLL OVV	Trunk lid opener cancel switch ON	On
R/BD OPEN SW	Trunk lid opener switch OFF	Off
IVBB OF EN OW	While the trunk lid opener switch is turned ON	On
RNK/HAT MNTR	Trunk lid closed	Off
TOTAL WINTER	Trunk lid opened	On
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of Intelligent Key is not pressed	Off
KKL-LOOK	LOCK button of Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off
KKE-UNLOCK	UNLOCK button of Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of Intelligent Key is not pressed	Off
KKL-TR/DD	TRUNK OPEN button of Intelligent Key is pressed	On
RKE-PANIC	PANIC button of Intelligent Key is not pressed	Off
ARL-PAINIO	PANIC button of Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of Intelligent Key is not pressed	Off
CRL-F/W OF LIN	UNLOCK button of Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off
KKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OF HUAL SENSUK	Dark outside of the vehicle	Close to 0 V
DEO SW DD	Driver door request switch is not pressed	Off
REQ SW-DR	Driver door request switch is pressed	On
DEO CIM A C	Passenger door request switch is not pressed	Off
REQ SW-AS	Passenger door request switch is pressed	On

< ECU DIAGNOSIS INFORMATION >

[ÍNTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
REQ SW-RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW-RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW-BD/TR	Trunk lid opener request switch is not pressed	Off
ALQ OW-DD/ IIA	Trunk lid opener request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
0311377	Push-button ignition switch (push switch) is pressed	On
GN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
SIVILE OW 2	The brake pedal is depressed	On
DETE/CANCL SW	Shift lever in P position	Off
52 1 2, 6, 11 10 2 0 1 1	Shift lever in any position other than P	On
SFT PN/N SW	Shift lever in any position other than P and N	Off
	Shift lever in P or N position	On
S/L -LOCK	Steering is unlocked	Off
	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
· · ·	Ignition switch in ON position	On
JNLK SEN-DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
GN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Shift lever in any position other than P	Off
	Shift lever in P position	On
SFT PN -IPDM	Shift lever in any position other than P and N	Off
	Shift lever in P or N position	On
SFT P -MET	Shift lever in any position other than P	Off
	Shift lever in P position	On
SFT N -MET	Shift lever in any position other than N	Off
	Shift lever in N position	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
C/L LOCK IDDM	Steering is unlocked	Off
S/L LOCK-IPDM	Steering is locked	On
C/L LINUX IDDM	Steering is locked	Off
S/L UNLK-IPDM	Steering is unlocked	On
S/I DELAY DEO	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
S/L RELAY-REQ	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK ELAC	Steering is locked	Reset
ID OK FLAG	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
PRIVIT ENGISTRE	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY CW CLOT	Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRMIDALI	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIDM ID 4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIDM ID2	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done

< ECU DIAGNOSIS INFORMATION >

[ÍNTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFIRM ID I	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
1 P 4	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
1173	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
17 2	The ID of second Intelligent Key is registered to BCM	Done
TD 4	The ID of first Intelligent Key is not registered to BCM	Yet
TP 1	The ID of first Intelligent Key is registered to BCM	Done

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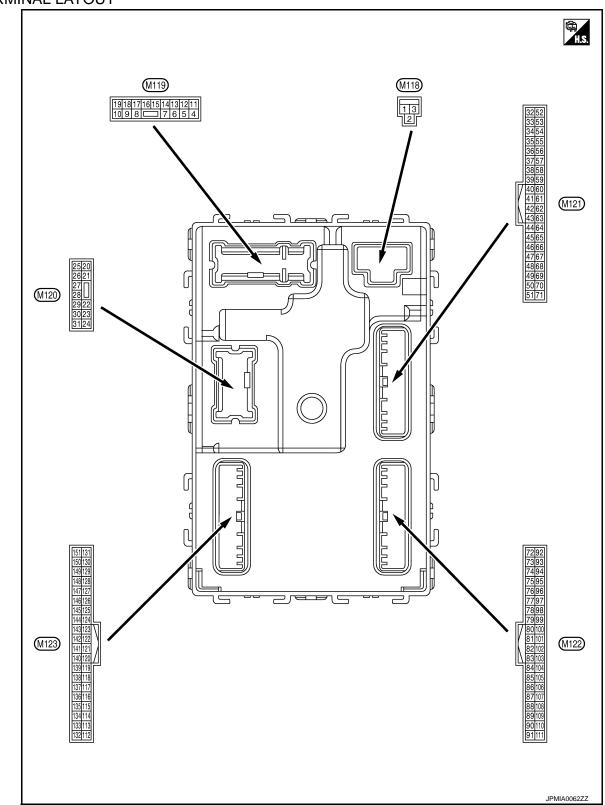
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description	I		• ""	Value	J
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
2 (R)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage	
3 (W)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage	
4	Crownd	Interior room lamp	Outrout	After passing the ir er operation time	nterior room lamp battery sav-	0 V	
(R)	Ground	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage	
5	01	Passenger door UN-	0 1 1	B	UNLOCK (Actuator is activated)	Battery voltage	
(G)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V	
7	Ground	Step lamp control sig-	Output	Step lamp	ON	0 V	
(Y)	Giodila	nal	Output	Step lamp	OFF	Battery voltage	
8	Ground	All doors, fuel lid	Output	All doors, fuel lid	LOCK (Actuator is activated)	Battery voltage	
(V)	Ground	LOCK	Output	711 00013, 1001 110	Other than LOCK (Actuator is not activated)	0 V	
9	0	Driver door, fuel lid	Outrout	Driver door, fuel	UNLOCK (Actuator is activated)	Battery voltage	
(G)	Ground	UNLOCK	Output	lid	Other than UNLOCK (Actuator is not activated)	0 V	
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch ON	ı	0 V	S
					OFF	0 V	
		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position	
14 (P)	Ground	switch illumination ground	Output	Tail lamp	ON	10 0	
						2 ms	
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
(Y)					ACC or ON	0 V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage
(V)	Ground	control signal	Output	lamp	ON	0 V
					Turn signal switch OFF	0 V
20 (SB)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23			•		Open (Trunk lid opener actuator is activated)	Battery voltage
(G)	Ground	Trunk lid open	Output	Trunk lid	Close (Trunk lid opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (V)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s 1 s PKID0926E 6.5 V
30	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0 V
(BG)	Ground	control signal	Output	Trunk room lamp	OFF	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	۸
+ (Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
34	Crown	Trunk room antenna	Outside	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	С
(P)	Ground	(-)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	E
35	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	G H
(L)	Glound	(+)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	SE
38	Ground	Rear bumper anten-	Output	When the trunk lid opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	M
(R)	Giodila	na (-)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	P

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			O a little a	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
39		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(BR)	Ground	na (+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition quitab	OFF or ACC	Battery voltage
(Y)	Ground	E/R) control	Output	Ignition switch	ON	0 V
50 (R)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Trunk is open)	0 V
52	Ground	Starter relay control	Outroit	Ignition switch	When shift lever is in P or N position	Battery voltage
(SB)	Ground	Glarier relay control	Output	ON	When shift lever is not in P or N position	0 V
					ON (Pressed)	0 V
61 (W)	Ground	Trunk lid opener request switch	Input	Trunk lid opener request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
		Intelligent Key warn-		Intelligent Key	Sounding	0 V
64 (BG)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[ÍNTELLIGENT KEY SYSTEM]

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					Pressed	0 V	В
67 (G)	Ground	Ground Trunk lid opener switch Input Trunk lid opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	C		
						(V)	Е
					When Intelligent Key is in the passenger compartment	15 10 5 0	F
72		Room antenna 2 (-)	Output	Ignition switch OFF		JMKIA0062GB	G
(R)	Ground	(Center console)			When Intelligent Key is not in the passenger compartment	(V) 15 10 5	Н
						JMKIA0063GB	I
-							J
					When Intelligent Key is in the passenger compart-	(V) 15 10 5 0	SE
73		Room antenna 2 (+)		Ignition switch	ment	1 s JMKIA0062GB	L
(G)	Ground	(Center console)	Output	OFF		(V)	M
					When Intelligent Key is not in the passenger compartment	15 10 5 0	Ν
						JMKIA0063GB	0

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description		Condition		Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
74	Ground	Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(SB)	Clound	tenna (-)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
75	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(BR)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
76	Ground	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	٨
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
77		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	B C
(LG)	(LG) Ground (+)		Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	E
78	78	Room antenna 1 (-) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	G H
(Y)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	SE(
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	M
(BR)	Stouriu				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	O P

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description			Value	
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
80 (GR)	Ground	NATS antenna amp.	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.
81 (L)	Ground	NATS antenna amp.	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.
82	Ground	Ignition relay [fuse	Output	Ignition switch	OFF or ACC	0 V
(R)	0.00	block (J/B)] control	o anp an		ON	Battery voltage
83	83 (Y) Ground	Remote keyless entry receiver communica-	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(Y)		tion	Output	When operating e	ither button on Intelligent Key	(V) 15 10 5 1 ms JMKIA0065GB
87	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
(BR)	Ground				Any of the conditions below with all switches 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 1.3 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	В
88		Combination switch INPUT 3	Input	Combination switch	Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E F
(V)					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	G H
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB	SE(
89 (BR)	Ground	Push-button ignition switch (push switch)	Input	Push-button ignition switch (push switch)	Pressed Not pressed	0 V Battery voltage	M
90 (P)	Ground	CAN - L	Input/ Output		_	_	
91 (L)	Ground	CAN - H	Input/ Output		_	_	Ν
					OFF	Battery voltage	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	O P
					ON	6.5 V 0 V	
		l					

< ECU DIAGNOSIS INFORMATION >

Term	Terminal No. Description					
	e color)	Description	Input/		Condition	Value
+		Signal name	Output		Condition	(Approx.)
93	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(V)		·	•	J	ON or ACC	0 V
95	Crownd	ACC releving natural	Outnut	Lauritian assitah	OFF	0 V
(BG)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	Battery voltage
96 (SB)	Ground	A/T shift selector (detention switch) power supply	Output		_	Battery voltage
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Ground	tion No. 1	прис	Oteering lock	UNLOCK status	Battery voltage
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	Battery voltage
(R)	Ground	tion No. 2	IIIput	Steering lock	UNLOCK status	0 V
99	Ground	Shift lever P position	Input	Shift lever	P position	0 V
(G)	Ground	switch	прис	Orint level	Any position other than P	Battery voltage
					ON (Pressed)	0 V
100 (W)	(-round)	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	
					ON (Pressed)	0 V
101 (V)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
102	Ground	Blower fan motor re-	Outout	Ignition switch	OFF or ACC	0 V
(BG)	Giouna	lay control	Output	Ignition switch	ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
106	Ground	Steering lock unit	Output	Ignition switch	OFF or ACC	Battery voltage
(P)	Giound	power supply	Output	igilition switch	ON	0 V

< ECU DIAGNOSIS INFORMATION >

[ÍNTELLIGENT KEY SYSTEM]

Terminal N		Description				Value
(Wire cold	- -	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB
107 (LG) Gro		mbination switch PUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

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< ECU DIAGNOSIS INFORMATION >

	ninal No. e color)	Description	I		0 100	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
108	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(R)		INPUT 4	put	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	(V) 15 10 5 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

[ÎNTELLIGENT KEY SYSTEM]

GT-R

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	
109 (Y) Groun	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 2 ms JPMIA0036GB 1.3 V	
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	9
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	
					Pressed	0 V	
110 (G)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
			Output		LOCK status	Battery voltage
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	0.000	Opinoai odinooi		ON	When dark outside of the vehicle	Close to 0 V
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
(P)	(P) Glouid		'		ON (Brake pedal is depressed)	Battery voltage
119 (SB)	Ground	Driver side door lock actuator (Unlock sen- sor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					UNLOCK status (Unlock sensor switch ON)	0 V
121	Ground	Key slot switch	Input	When Intelligent K	Ley is inserted into key slot	Battery voltage
(R)	Crodita		put	When Intelligent K	ey is not inserted into key slot	0 V
123 (BR)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes) ON (When passenger door	(V) 15 10 10 ms JPMIA0011GB
					opens)	0 V

< ECU DIAGNOSIS INFORMATION >

[ÎNTELLIGENT KEY SYSTEM]

	inal No.	Description				Value	Α
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
128 (P)	Ground	Door lock and unlock switch LOCK	Input	Door lock and un- lock switch (pow- er window main switch or power window sub- switch)	NEUTRAL position	(V) 15 10 5 0 10 ms JPMIA0011GB	B C
					LOCK position	0 V	
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 10 ms JPMIA0012GB 1.1 V	E F
					ON	0 V	
131 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and un- lock switch (pow- er window main switch or power window sub- switch)	NEUTRAL position	(V) 15 10 5 0 10 ms JPMIA0011GB	H
					LOCK position	0 V	
					ON (When tail lamps OFF)	5.5 V NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.	SEC
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (When tail lamps ON)	(V) 15 10 5 0 JPMIA0159GB	M
					OFF	0 V	
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0 V	0
137	Ground	Receiver and sensor	Input	lamp Ignition switch ON	OFF	Battery voltage 0 V	
(L) 138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF ACC or ON	0 V 5.0 V	Р
140	Ground	Shift lever P/N posi-	Input	Shift lever	P or N position	12 V	
(BR)	Giouria	tion	Input	Silit level	Except P and N positions	0 V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
-			•		ON	0 V
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	Battery voltage
					All switches OFF	0 V
					Lighting switch 1ST	
					Lighting switch HI	(V)
142		Combination switch		Combination switch	Lighting switch 2ND	15
(BG)	Ground	OUTPUT 5	Output	(Wiper intermittent dial 4)	Turn signal switch RH	0 2 ms JPMIA0031GB
						10.7 V
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V)
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches 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
-					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	()()
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT	
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch LO Lighting switch AUTO	(V) 15 10 5 0 2 ms JPMIA0034GB

< ECU DIAGNOSIS INFORMATION >

[ÍNTELLIGENT KEY SYSTEM]

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	0 V
					Lighting switch 2ND	
				Combination	Lighting switch PASS	(V) 15
146 (SB)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit- tent dial 4)	Turn signal switch LH	10 5 0 10.7 V 10.7 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	(V) 15 10 5 0 10 ms 10 ms 11.8 V
					ON (When driver door opens)	0 V
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V
(G)	Giouila	ger relay control	Output	fogger	Not activated	Battery voltage

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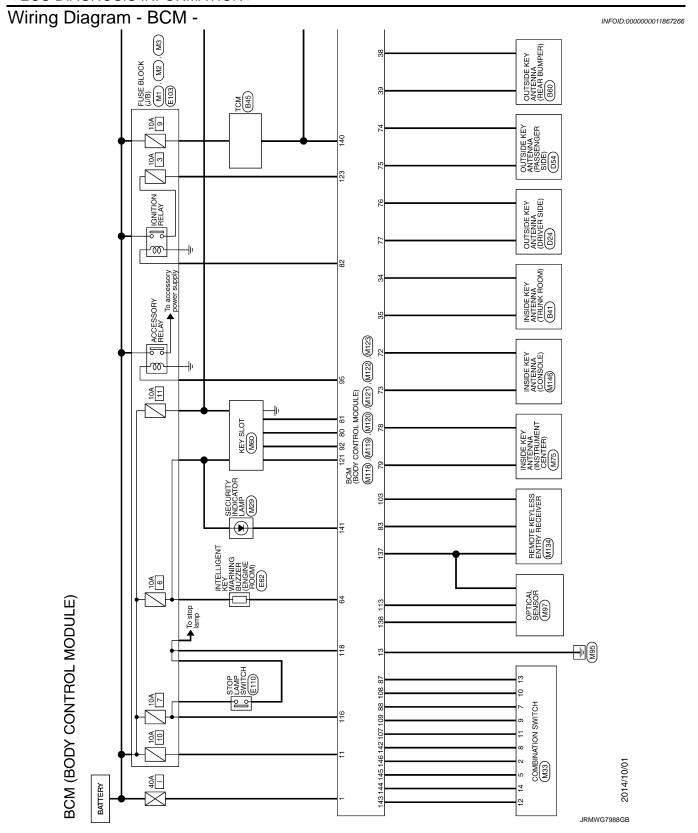
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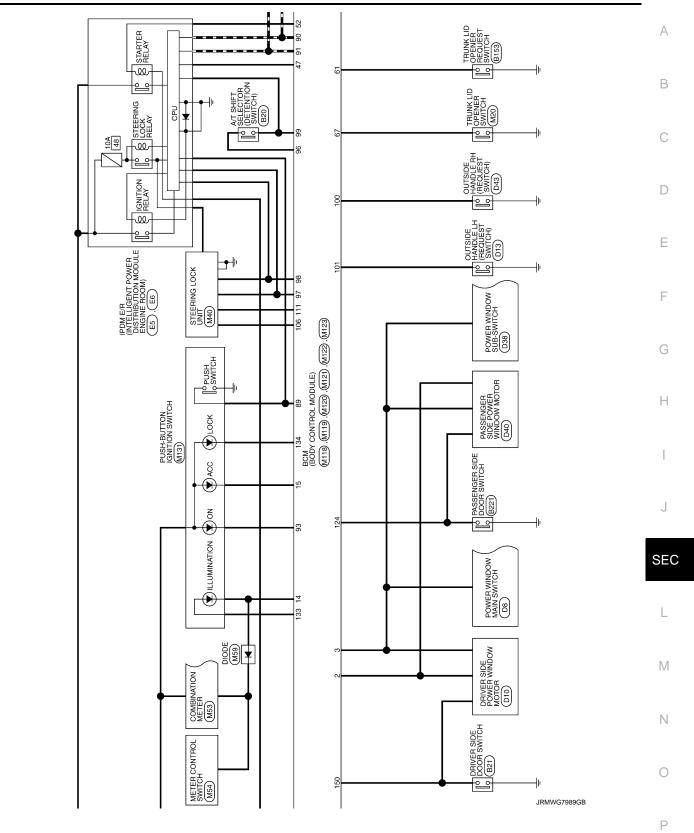
Р

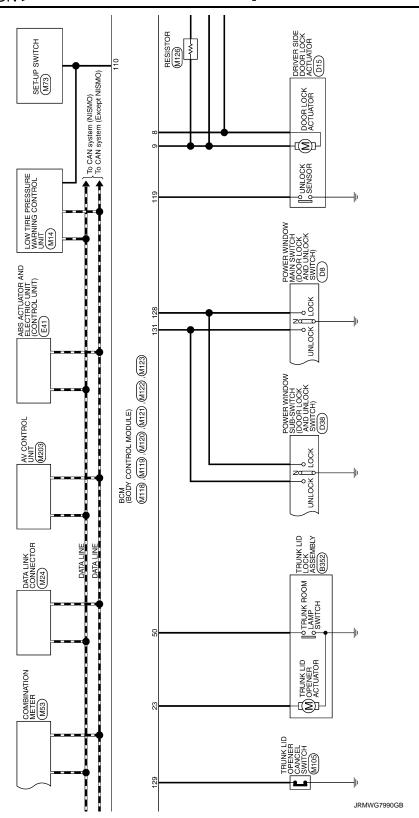
SEC-169 GT-R Revision: 2015 June

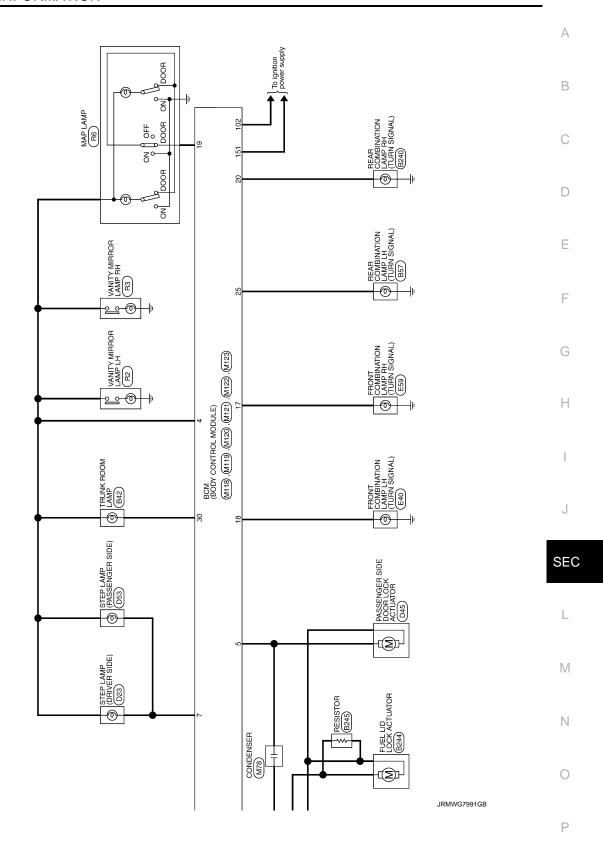
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97 G BANGE SENSOR NO - SIGNAL	N AUT	33 V RANGE SENSOR NO.1 SIGNAL	BG	5	37 GR R MODE SWITCH SIGNAL	w PAD	_	Ь	GR RA	g :	M C	4/ G SAVE MODE LAWIT SIGNAL	Connector No. B57	Connector Name REAR COMBINATION LAMP LH	Т	Connector Type NS06MW-CS	€.	AMA	9	2 3 4 5				Terminal Color Of Signal Name [Specification]	$^{+}$		╁	4 SB	5 R	·											
Connector No. R42	<u>۾</u>	Connector Type S02FW	1		SH	[-]		밀	NO.	1 2		Connector No. B45	Connector Name TCM		Connector Type HH40FB-HZ8-L-LH-Z		141 18 4	39 35 31 27 23 19 15 11	46 42 38 34 26 14 10	45 3733 25 17 9 5 1		Townson Oaks Of	No Wire Signal Name [Specification]	$^{+}$	T		5 W POWER SUPPLY (MEMORY BACK-UP)-3	7 B GROUND	8 B GROUND	9 P POWER SUPPLY (MEMORY BACK-UP)-1	10 LG BACK-UP LAMP SIGNAL	 14 V POWER OFF	15 P CAN-L	16 W STOP LAMP SWITCH SIGNAL	17 Y IGNITION SWITCH SIGNAL	\vdash	BB	7	26 LG RANGE SENSOR POWER SOURCE 2
Connector No. 1821	Jie Jie	Connector Type A03FW	1		<u>x</u>	Ţc	7			ᄝ	+		Connector No. B41	Connector Name INSIDE KEY ANTENNA (TRUNK ROOM)	\neg	Connector Type RK02FGY	€.	Atth		(15)				Terminal Color Of Signal Name [Specification]	+	1 0															
BCM (BODY CONTROL MODULE)	Connector Name A/T SHIFT SELECTOR	Connector Type TH24FW-NH		F		1 2 3	13 14 15 16 17 18 20 21 22 23 24			la U		2 BG KEY I/LOCK(P)	G RANGE S	В	>	თ (12 GR HANGE SENSON NO.5 SIGNAL	W SHIFT LOCK SOLE	97	L RANGE SE	17 R ILLUMINATION	В	BR AUTO	۵ و	22 DR ILLUMINATION GIND	c >															

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[ÍNTELLIGENT KEY SYSTEM]

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SWITCH offication]	E
TRUMK LID LOCK ASSEMBLY TB03FW-1V TB	(
Corrector No. B352]
	E
Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification	F
8244 MO4FW M	(
Corrector No. B244 Connector Name FUEL LID L Corrector Type Mod-FW-LC Terminal Color Of No. Wire To G 2 V Corrector Name RESISTOR Corrector Name RESISTOR Corrector Type Mod-FL-R Terminal Color Of No. Vire To V To V To Vire To V To Vire To V To	ŀ
Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	
BEZ1 A03FW A03FW REAR COMB NSOBAW-CS Signa Signa	
Connector No. Connector Type Connector No. Connector No. Connector No. Connector No. Connector No. No. Wite No. Wite No. A. A. A. A. A. B. B. B. B. B	SI
(ADDULE) (cation) (cation)	I
Signal Name (Specific Specific	N
BCM (BODY (Connector No. Bea) Connector No. Bea) Connector No. BRISS CONNECTOR NO. BRI	1
Comman Termin Te	(
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Connector No. D40	Connector Name PASSENGER SDE POWER WINDOW MOTOR Connector Type NUO8FDGY	H.S. (1734)	Terminal Color Of Nine Signal Name (Specification) Nine Nine Signal Name Specification	0 2 2 8	Corrector No. D43 Corrector Name OUTSOE HANDLE EH (REDUEST SWITCH) Corrector Type RKICKWGY		Terminal Color Of Signal Name [Specification] No. Wire 1 W	2 B		
Connector No. D24	Connector Name OUTSDE KEY ANTENNA (DRIVER SIDE) Connector Type RK02MGY	HS.	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) 1 LG 2 V	Corrector No. D38 Corrector Name POWER WINDOW SUB-SWITCH Corrector Type NS16FW-CS	H.S. 8 9 111 141516	Terminal Color Ol Signal Name [Specification] No. Wire 2 GR	₩	${\mathbb H}$	11 W	₩
Connector No. D15	Connector Name DRIVER SIDE DOOR LOCK ACTUATOR Connector Type RS04FGY-PR	H.S.	Terminal Color Of Signal Name (Specification) 1 Vine 1 V 1 V 2 SB 3 G	Connector No. D23 Connector Name STEP LAMP (DRIVER SIDE)	Connector Type 002FW 002FW	Terminal Color Of No. Wire Signal Name (Specification)				
BCM (BODY CONTROL MODULE) Connector No. D10	Connector Name DRIVER SIDE POWER WINDOW MOTOR Connector Type NU08FDGY	H.S. (12 34)	Terminal Color Of Signal Name (Specification)	6 GR 8 B 8 B 8 B 8 B 8 B 8 B 8 B 8 B 8 B 8	Connector No. D13 Connector Type RKG2MGY		Terminal Color Of Signal Name (Specification) No. Wire 1 W	2 8		

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[ÍNTELLIGENT KEY SYSTEM]

D	9	Connector Type AEZ43FB-AJZ4		Terminal Color Of Signal Name (Specification) 1	
Commenter No.	T g	Connector Type TH08FW-NH	H.S. (4.4 d. 50.8)	Terminal Color Of Signal Name (Specification) No. Wive 42 67 6 6 7 8 6 6 7 6 6 7 8 6 6 7 7 8 6 6 7 7 8 6 6 6 6	
D	و ا	Connector Type RK02MGY	HS.	Terminal Color Of Signal Name Specification No. Wire 1 1 1 1 1 1 1 1 1	
BCM (BODY CONTROL MODULE)	ہ ا	Connector Type RS04FGY-PR	H ₃	Terminal Color OI Signal Name (Specification) 1 V 3 G Connector Na. DE3 Connector Name STEP LAMP (PASSENGER SIDE) Connector Type CO2FW Terminal Color OI Signal Name (Specification) No. Wife Signal Name (Specification) 1 R R 2 Y	

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BCM (BODY CONTROL MODULE)	Connector No. E103	Connector No.	Connector No. M3	Γ
Connector Name FRONT COMBINATION LAMP RH	Connector Name FUSE BLOCK (J/B)	Connector Name FUSE BLOCK (J/B)	Connector Name FUSE BLOCK (J/B)	
Connector Type RS08FB-PR	Connector Type NS16FW-CS	Connector Type NS06FW-M2	Connector Type NS12FW-CS	П
摩	匮		匮	
H.S.	45	3A T 2A 1A		
_	134 141 111 111 134 134 134 134 134 134	[8A]/A SA SA 4A		
Terminal Color Of Signal Name [Specification]				
Ħ	H	H	Н	П
Н	Н	2A G .	Н	
+	14F LG	+	+	T
000	- 10 H	5A CB	20 Z	T
╁	╀	╁	F	
7 BR ·	Н	7A R		
8 BG ·	6F BG .	8A L -		ſ
	1 a			Τ
Connector No. E62	+	Connector No. M2	Connector Name LOW THE PRESSURE WARNING CONTROL UNIT	UNIT
Connector Name INTELLIGENT KEY WARNING BUZZER	Commence No.	Connector Name FUSE BLOCK (J/B)	Connector Type TH32FW-NH	
Connector Type RK03FBR-DGY	و ا	Connector Type NS10FW-CS		
q.		1		[i
(MAT)	Connector Type M04FW-LC		1 2	[
		445 35 18	13 20 21 22 23 24 23 20	3
	1 2	as agla / aglas m	-	[
			Terminal Color Of Signal Name [Specification]	
<u>a</u>		lal O	1 P CAN-L	П
No. Wire	Č	Wire	_ 2	T
$^{+}$	Signal Name [Specification]	+	\dagger	T
, H5 8	+	H 86	5 B FR TINER (SIG)	Τ
	2 W	\vdash	· ^	
		5B BG -	7 SB RR TUNER (PWR)	
		Н	GR	
		+	œ	7
		88 g	LG FL1	T
		┨	12 W SW SIG	Τ
			R	
			BG	П

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[ÎNTELLIGENT KEY SYSTEM]

	H .	18 L FUEL LEVEL SENSOR GROUND	c >		a.	23 LG ILLUMINATION CONTROL SWITCH SIGNAL (-)	BR ILL	G TRIP	BG	SB SELE	28 BH ALIEMNAIOH	, 9	>	32 V BRAKE FLUID LEVEL SWITCH SIGNAL	33 L WASHER LEVEL SWITCH SIGNAL	GR	×	38 BG FUEL LEVEL SENSOR SIGNAL	- >		1	Connector No. M54	Connector Name METER CONTROL SWITCH	Connector Type TH12FW-NH	1	Marin	\	6 5 4 3 2 1	7 8 7		Terminal Color Of Signal Name [Specification]	$^{+}$	× ~	╀	H	> 15	. BG 9	7 SB -	8 6				
	Connector No. M40	Connector Name STEERING LOCK UNIT	Connector Type TH08FW-NH	٦.				3 2 1	8 7 8 2][Torminal Color Of	No. Wire Signal Name [Specification]	1 BR S/L 12V (MECHANICAL)	2 Y S/L (K LINE)	3 L S/L CONDLTLON1	В		7 P S/L 12V(CPU)	r	O	Connector No. M53	Connector Name COMBINATION METER	Connector Type SAB40FW		修	- 12	7 2 2 4 5 6 7 8 9 12 13 14 15 16 18 19 20 20 20 20 20 20 20 20 20 20 20 20 20			lal	No. Wire	3 W IGNITION DOWER SUFFLY	: 00	B	m	6 W METER CONTROL SWITCH GROUND	7 Y AC AUTO AMP. CONNECTION RECOGNITION SIGNAL.	8 SB AMBIENT SENSOR GROUND	9 P AMBIENT SENSOR SIGNAL	٦	>	OIL PRE	15 R AIR BAG SIGNAL
	+	14 P	\downarrow		Connector No. M29	CLASSICAL STEEL STEEL		Connector Type TK02FBR	d		Test Silver	1 2				밀	No. Wire	· · · · · · · · · · · · · · · · · · ·	-	O	Connector No. M33	Connector Name COMBINATION SWITCH	Connector Type TH16FW-NH		匮	Test Services	1 2 5 6	7 8 9 10 11 12 13 14		lal C	No. Wire	57 8	t	8	H	8 BG	┝	10 R	11 LG .	12 P .		14 G .	
M (BODY CONTRO	<u>.</u>	22 G FL TUNER (RSSI)			BR FL TUNER	G FLASHE	В		Ī	Connector No. M20	Connector Name TRUNK LID OPENER SWITCH	Connector Type TK04FW			e		4 3 2 1			Terminal Color Of Signal Name [Specification]	wire	D a	+	H		Connector No Moz	Т		Connector Type BD16FW	F	\\ 31 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		3 4 5 6 7 8			Terminal Color Of	No. Wire Signal Name [Specification]	3 R	4 B .	5 B		\dashv	8 G

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\overline{a}	:		
Connector No. M59	Connector No. M/3	Connector No. M78	Connector No. M105
Connector Name DIODE	Connector Name SET-UP SWITCH	Connector Name CONDENSER	Connector Name TRUNK LID OPENER CANCEL SWITCH
Connector Type 24335_C9900	Connector Type TK24FW-1V	Connector Type M02FW-LC	Connector Type S02FW
q	1	1	1
		The state of the s	(Mary)
1.5	3 4 5 6 8 10	1.5	<u> </u>
	[12]13 [16]17[18]19 [23]24	2	<u>-[c</u>
			3
Terminal Color Of	Terminal Color Of	Terminal Color Of	Terminal Color Of
No. Wire Signar Name [Specinication]	No. Wire Signal Name [Specincation]	No. Wire Signal Name [Specification]	No. Wire Signal Marine [Specification]
> 0	1 Y VDC TOP POSITION LED	- (1 BG
+	+	+	+
	4 V ILL GND		
Connector No. M60	5 L VDC UP SW	Connector No. M97	Connector No. M118
Connector Name KEY SLOT	۵ .	Connector Name OPTICAL SENSOR	Connector Name BCM (BODY CONTROL MODULE)
Connector Type TH10FW-NH	10 G SAVE MODE LAMP SIGNAL	Connector Type TK03EW	Connector Type M03FB-LC
	>		
	12 GR VDC DN SW	E	E
	5		
1001	16 R R MODE LAMP SIGNAL		1 3
> ;	m (c	123	
	BG E-SUS R M		
	BR		
Terminal Color Of Signal Name [Specification]	24 R E-SUS COMF MODE SW SIG	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]
+		$^{+}$	t
	Connector No. M75	2 P OUTPUT	П
7	Connector Name INSIDE KEY ANTENNA (INSTRUMENT CENTER)	3 V GROUND	3 W POWER WINDOW POWER SUPPLY(RAP)
> 9	_		
2 P GND	Connector Type HANZFGT		
R KEY SV			
	屋		
	No. Wire olgikal ivalile [Specification]		
	2 ×		

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[ÎNTELLIGENT KEY SYSTEM]

133 W PUSH-BUTTON IGNITION SW ILL POWER	134 GR LOCK IND	137 L RECEIVER GND	138 Y RECEIVER/SENSOR POWER SUPPLY	140 BR SHIFT N/P	141 G SECURITY INDICATOR	142 BG COMBI SW OUTPUT 5	143 P COMBI SW OUTPUT 1	144 G COMBI SW OUTPUT 2	145 L COMBI SW OUTPUT 3	146 SB COMBI SW OUTPUT 4	150 GR DRIVER DOOR SW	151 G REAR WINDOW DEFOGGER RELAY CONT		- 1	Connector No. M126	Connector Name BESISTOB		Connector Type M04FL-R	4			7 12		3		nal	_				Connector No. M131	Connector Name PUSH-BUTTON IGNITION SWITCH	Connector Type TK08FBR	1			4 5 6 7 8	٦I			펻	- AVIII	2 0	+	
IGN RELAY (F/B) CONT	KEYLESS ENTRY RECEIVER COMM	COMBI SW INPUT 5	COMBI SW INPUT 3	PUSHSW	CAN-L	CAN-H	KEY SLOT ILL OUTPUT	ONIND	ACC RELAY CONT	A/T SHIFT SELECTOR POWER SUPPLY	S/L CONDITION 1	S/L CONDITION 2	SHIFT P	PASSENGER DOOR REQUEST SW	DRIVER DOOR REQUEST SW	BLOWER FAN MOTOR RELAY CONT	KEYLESS ENTRY RECEIVER POWER SUPPLY	S/L UNIT POWER SUPPLY	COMBI SW INPUT 1	COMBI SW INPUT 4	COMBI SW INPUT 2	HAZARD SW	S/L UNIT COMM		M123	BCM (BODY CONTROL MODULE)		TH40FG-NH		[[3] [26][2] [2] [2] [3] [4] [18]	। अ. १९ व्या १५ महाम्बाह्य होता है। १८ १८			Signal Name [Specification]	OPTICAL SENSOR	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	TEI INK CANCEL SW	DOOD LOCK!! INI OCK	DOOR CONTROLL OF CHARGO
82 R	83 ⊀	87 BR	۸ 88	89 BR	90 P	91 L	92 LG	93 V	95 BG	96 SB	97 L	98 R	99 G	100 W	101 V	\dashv	_	106 P	107 LG	108 R	7 ∀	110 G	111 Y		Connector No.	Connector Name		Connector Type	13	V L	i e			Total	No. Wire	113 P	116 SB	118 P	119 SB	Н	+	124	Ļ	+	4
Connector No. M121	Camedor Name ROM (BODY CONTED) MODILES		Connector Type TH40FGY-NH				6.1	\$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$	75			Terminal Color Of Signal Nama (Specification)	No. Wire Signal raine [Specification]	Ь	7	œ	BR	∀	50 R TRUNK ROOM LAMP SW	52 SB STARTER RELAY CONT	>	BG I-KEY	67 G TRUNK LID OPENER SW		Connector No. M122	Connector Name BCM (BODY CONTROL MODULE)	\neg	Connector Type TH40FB-NH	1		13.5 19.190 (8) (8) (1) (8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	1711 1181 1181 1181 1181 1181 1181 1181 181 181 181 181 182 182		Torreland Online Of	No. Wire Signal Name [Specification]	72 R ROOM ANT2-	73 G ROOM ANT2+	74 SB PASSENGER DOOR ANT-	75 BR PASSENGER DOOR ANT+	^	LG	78 Y HOUM ANI I:	a CMM	5 -	-
BCM (BODY CONTROL MODULE) [Connector No. M119]	(3 ILIGOM LOGENOCY VOOR MORI IE.		Connector Type NS16FW-CS					11 13 14 15 17 18 19	1			Terminal Color Of Signal Namo (Specification)	No. Wire Signal Marile (Specification)	R INTERIOR ROOMLA			8 V ALL DOOR, FUEL LID LOCK OUTPUT	9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	11 R BAT (FUSE)	13 B GND	14 P PUSH-BUTTON IGNITION SW ILL GND	>	W TURN SIGNAL RH	18 BG TURN SIGNAL LH (FRONT) OUTPUT			Connector No. M120	Connector Name BCM (BODY CONTROL MODULE)	Connector Type NS12FW-CS	1		H.S.	25 30			nal Color Of	No. Wire Signal Name [Specification]	20 SB TURN SIGNAL RH (REAR) OUTPUT	G TRUNK LID OF	V TURN SIGNAL LH	30 BG TRUNK ROOM LAMP OUTPUT				

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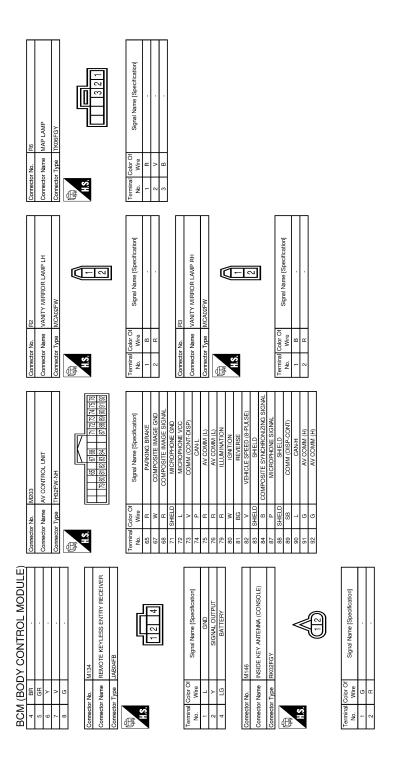
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JRMWG8000GB

Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

< ECU DIAGNOSIS INFORMATION >

[ÍNTELLIGENT KEY SYSTEM]

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
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	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Starter control relay signal Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent • Shift lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Shift lever P position switch signal: Except P position (Battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Shift lever P position switch signal: Except P position (Battery voltage) Shift lever P/N position signal: Except P and N positions (0 V)
B2604: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - Shift lever P/N position signal: P and N position (Battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Shift lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position - Power position: IGN - Shift lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Shift lever P/N position signal: P or N position (Battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal)

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< ECU DIAGNOSIS INFORMATION >

[INTELLIGENT KEY SYSTEM]

Display contents of CONSULT	Fail-safe	Cancellation
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)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
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 are fulfilled Power position changes to ACC Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: BCM	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
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000011867268

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI-SCANNING

< ECU DIAGNOSIS INFORMATION >

[INTELLIGENT KEY SYSTEM]

Priority	DTC	
	B2013: ID DISCORD BCM-S/L	
	B2014: CHAIN OF S/L-BCM	
	B2553: IGNITION RELAY	
	B2555: STOP LAMP	
	B2556: PUSH-BTN IGN SW	
	B2557: VEHICLE SPEED	
	B2560: STARTER CONT RELAY B2561: STARTER C	
	B2601: SHIFT POSITION Bases SUITE POSITION Base SUITE	
	B2602: SHIFT POSITION PROSESS SHIFT POSITION	
	B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW	
	B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW	
	B2606: S/L RELAY	
	B2607: S/L RELAY	
	B2608: STARTER RELAY	
	• B2609: S/L STATUS	
4	B260A: IGNITION RELAY	
	B260B: STEERING LOCK UNIT	
	B260C: STEERING LOCK UNIT	
	B260D: STEERING LOCK UNIT	
	B260F: ENG STATE SIG LOST	
	• B2612: S/L STATUS	
	• B2614: BCM	
	• B2615: BCM	
	• B2616: BCM	
	• B2617: BCM	
	• B2618: BCM	
	B2619: BCM B261A: PUSH-BTN IGN SW	
	B261E: VEHICLE TYPE	
	B26F9: S/L STATUS	
	B26EA: KEY REGISTRATION	
	U0415: VEHICLE SPEED	
	B2621: INSIDE ANTENNA	
5	B2622: INSIDE ANTENNA	
	B2623: INSIDE ANTENNA	
6	B26E7: TPMS CAN COMM	

DTC Index

NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-17, "COM-MON ITEM"</u>.

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
No DTC is detected. Further testing may be required.	_	_	_	_
U1000: CAN COMM	_	_	_	BCS-36
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-37
U0415: VEHICLE SPEED	_	_	_	BCS-38
B2013: ID DISCORD BCM-S/L	×	×	_	<u>SEC-48</u>
B2014: CHAIN OF S/L-BCM	×	×	_	<u>SEC-49</u>
B2190: NATS ANTENNA AMP	×	_	_	SEC-40

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< ECU DIAGNOSIS INFORMATION >

[ÍNTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
B2191: DIFFERENCE OF KEY	×	_	_	SEC-43
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-44
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-46</u>
B2195: ANTI-SCANNING	×	_	_	SEC-47
B2553: IGNITION RELAY	_	×	_	PCS-50
B2555: STOP LAMP	_	×	_	<u>SEC-52</u>
B2556: PUSH-BTN IGN SW	_	×	×	<u>SEC-54</u>
B2557: VEHICLE SPEED	×	×	×	SEC-56
B2560: STARTER CONT RELAY	×	×	×	<u>SEC-57</u>
B2562: LOW VOLTAGE	_	×	_	BCS-39
B2601: SHIFT POSITION	×	×	×	SEC-58
B2602: SHIFT POSITION	×	×	×	SEC-61
B2603: SHIFT POSI STATUS	×	×	×	<u>SEC-63</u>
B2604: PNP/CLUTCH SW	×	×	×	<u>SEC-65</u>
B2605: PNP/CLUTCH SW	×	×	×	<u>SEC-67</u>
B2606: S/L RELAY	×	×	×	<u>SEC-69</u>
B2607: S/L RELAY	×	×	×	SEC-70
B2608: STARTER RELAY	×	×	×	SEC-72
B2609: S/L STATUS	×	×	×	<u>SEC-74</u>
B260A: IGNITION RELAY	×	×	×	PCS-52
B260B: STEERING LOCK UNIT	_	×	×	<u>SEC-78</u>
B260C: STEERING LOCK UNIT	_	×	×	SEC-79
B260D: STEERING LOCK UNIT	_	×	×	SEC-80
B260F: ENG STATE SIG LOST	×	×	×	SEC-81
B2612: S/L STATUS	×	×	×	<u>SEC-84</u>
B2614: BCM	_	×	×	PCS-54
B2615: BCM	_	×	×	PCS-56
B2616: BCM	_	×	×	PCS-58
B2617: BCM	×	×	×	<u>SEC-88</u>
B2618: BCM	×	×	×	PCS-60
B2619: BCM	×	×	×	SEC-90
B261A: PUSH-BTN IGN SW	_	×	×	<u>SEC-91</u>
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-93
B2621: INSIDE ANTENNA	_	×	_	DLK-56
B2622: INSIDE ANTENNA	_	×	_	DLK-58
B2623: INSIDE ANTENNA	_	×	_	DLK-60
B26E7: TPMS CAN COMM	_	_	_	BCS-40
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-82
B26EA: KEY REGISTRATION		×	× (Turn ON for 15 seconds)	SEC-83

< ECU DIAGNOSIS INFORMATION >

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

Reference Value INFOID:0000000011867270

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item		Condition	Value/Status			
RAD FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 - 100 %			
		A/C switch OFF	Off			
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On			
TAIL&CLR REQ	Lighting switch OFF	Off				
TAIL&OLK REQ	Lighting switch 1ST, 2ND or	On				
HL LO REQ	Lighting switch OFF	Off				
TIE EO NEQ	Lighting switch 2ND or HI	On				
HL HI REQ	Lighting switch OFF	Off				
HL HI NEQ	Lighting switch HI		On			
FR FOG REQ	Daytime running light system	Off				
FR FOG REQ	Daytime running light system	On				
		Front wiper switch OFF	Stop			
FR WIP REQ	Ignition switch ON	Front wiper switch INT	1LOW			
	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			
WIP PROT	Ignition switch ON	Front wiper operates normally	Off			
WIFFROI	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK			
IGN RLY1 -REQ	Ignition switch OFF or ACC		Off			
IGN KETT -KEQ	Ignition switch ON		On			
IGN RLY	Ignition switch OFF or ACC		Off			
IGN KLI	Ignition switch ON		On			
PUSH SW	Release the push-button igni	ition switch	Off			
1 0011 000	Press the push-button ignition	n switch	On			
INTER/NP SW	Ignition switch ON	Shift lever in any position other than P or N	Off			
	Ignition switch ON	Shift lever in P or N position	On			
ST RLY CONT	Ignition switch ON		Off			
STALI CONT	At engine cranking	At engine cranking				
IUDT DI V. DEO	Ignition switch ON		Off			
IHBT RLY -REQ	At engine cranking	On				

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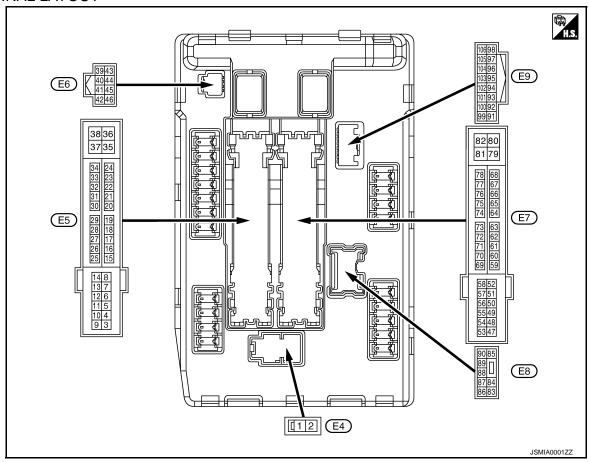
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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Ignition switch ON	Off
	At engine cranking	INHI → ST ON
ST/INHI RLY	The status of starter relay or starter control relay cannot be recognized by the battery voltage malfunction, etc. when the starter relay is ON and the starter control relay is OFF	UNKWN
DETENT SW	 Press the knob button with shift lever in P position Shift lever in any position other than P 	Off
	Release the knob button with shift lever in P position	On
	None of the conditions below are present	Off
S/L RLY -REQ	 Open the driver door after the ignition switch is turned OFF (for a few seconds) Press the push-button ignition switch when the steering lock is activated 	On
	Steering lock is activated	LOCK
S/L STATE	Steering lock is deactivated	UNLOCK
	[DTC: B210A] is detected	UNKWN
DTDL DEO	Lighting switch OFF	Off
DTRL REQ	Lighting switch 1ST, 2ND, HI or AUTO (Light is illuminated)	On
OIL P SW	NOTE: The item is indicated, but not monitored.	Open
HOOD SW	Close the hood	Off
HOOD SW	Open the hood	On
HL WASHER REQ	NOTE: The item is indicated, but not monitored.	Off
	Not operating	Off
THFT HRN REQ	 Panic alarm is activated Horn is activated with VEHICLE SECURITY (THEFT WARNING) SYSTEM 	On
	Not operating	Off
HORN CHIRP	 Door locking with Intelligent Key (horn chirp mode) Door locking with key fob (horn chirp mode) 	On
CRNRNG LMP REQ	NOTE: The item is indicated, but not monitored.	Off

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch C	DFF	Battery voltage
2 (Y)	Ground	Battery power supply	Input	Ignition switch C)FF	Battery voltage
4	Cround	Front winer LO	Output	Ignition switch	Front wiper switch OFF	0 V
(V)	Ground	Front wiper LO	Output	ON	Front wiper switch LO	Battery voltage
5	Ground	Front wiper HI	Output	Ignition switch	Front wiper switch OFF	0 V
(L)	l (around	Front wiper Hi	Output	ON	Front wiper switch HI	Battery voltage
6	Ground	Daytime running light relay	Innut	Ignition switch	Lighting switch OFF	Battery voltage
(Y)	Ground	power supply	Input	ON	Lighting switch 1ST	0 V
7	Ground	Illuminations	Output	Ignition switch	Lighting switch OFF	0 V
(R)	Ground	Illuminations	Output	ON	Lighting switch 1ST	Battery voltage
40				Ignition switch ((More than a fev nition switch OF	w seconds after turning ig-	0 V
10 (W) G	Ground	ECM relay power supply	Output	 Ignition switch Ignition switch (For a few sec switch OFF) 		Battery voltage

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	nal No.	Description				Value		
+	e color)	Signal name	Input/ Output		Condition	(Approx.)		
44				Ignition switch OFF	A few seconds after opening the driver door	Battery voltage		
11 (SB)	Ground	Steering lock unit power supply	Output	Ignition switch LOCK	Press the push-button ignition switch	Battery voltage		
				Ignition switch A	ACC or ON	0 V		
12 (B/W)	Ground	Ground	_	Ignition switch C	NO	0 V		
13				Ignition switch C)FF	0 V		
(R)	Ground	Fuel pump power supply	Output	Ignition switchEngine running		Battery voltage		
16	Cround		lanu.	Ignition switch	Front wiper stop position	0 V		
(LG)	Ground	Front wiper stop position	Input	ON	Any position other than front wiper stop position	Battery voltage		
25	Ground	lanition rolay nower supply	Output	Ignition switch C	OFF	0 V		
(O)	Giodild	Ignition relay power supply	Output	Ignition switch C	DN	Battery voltage		
27	Ground	Ignition relay monitor	Input	Ignition switch C	OFF or ACC	Battery voltage		
(Y)	Orodria	ignition roley monitor	прис	Ignition switch C	DN	0 V		
28	Ground	Push-button ignition	Input	Press the push-	button ignition switch	0 V		
(G)	Orodria	switch	прис	Release the pus	sh-button ignition switch	Battery voltage		
30 (GR)	Ground	Starter relay control	Input	Shift lever in any (Ignition switch	position other than P or NON)	0.4 V		
(OIV)				Shift lever P or I	N (Ignition switch ON)	Battery voltage		
32	Ground	Steering lock unit condi-	Input	Steering lock is	activated	0 V		
(L)	Orodria	tion-1	прис	Steering lock is	deactivated	Battery voltage		
33	Ground	Steering lock unit condi-	Input	Steering lock is	activated	Battery voltage		
(P)	Oround	tion-2	Прис	Steering lock is	deactivated	0 V		
36 (LG)	Ground	Battery power supply	Input	Ignition switch C	DFF	Battery voltage		
39 (P)	_	CAN-L	Input/ Output		_	_		
40 (L)	_	CAN-H	Input/ Output		_	_		
41 (B/Y)	Ground	Ground	_	Ignition switch C	DN	0 V		
42	Ground	Cooling fan relay control	Input	Ignition switch C	OFF or ACC	Battery voltage		
(G)	J. 500110	control	put	Ignition switch C		0.7 V		
43 (SB)	Ground	A/T shift selector (Detention switch)	Input	Ignition switch	Press the knob button (Shift lever P) Shift lever in any position other than P	Battery voltage		
					Release the knob but- ton (Shift lever P)	0 V		
44	Ground	Horn relay control	Input	The horn is dea	ctivated	Battery voltage		
(W)	Giodila	Hom relay control	mput	The horn is active	vated	0 V		
46	Ground	Starter relay control	Input	Shift lever in any (Ignition switch	position other than P or NON)	0 V		
(O)		•	•	Shift lever P or I	N (Ignition switch ON)	Battery voltage		

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					A/C switch OFF	0 V	_
48 (L)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage	
49				Ignition switch C (More than a fev nition switch OF	v seconds after turning ig-	0 V	_
(P)	Ground	ECM relay power supply	Output	 Ignition switch Ignition switch (For a few sec switch OFF) 		Battery voltage	
51	Ground	Ignition relay power supply	Output	Ignition switch C)FF	0 V	
(LG)	Giodila	Ignition relay power supply	Output	Ignition switch C	N	Battery voltage	
E2				Ignition switch C (More than a fev nition switch OF	v seconds after turning ig-	0 V	_
53 (SB)	Ground	ECM relay power supply	Output	Ignition switch Ignition switch (For a few sec switch OFF)		Battery voltage	_
54		Throttle control motor re-		Ignition switch C (More than a fev nition switch OF	v seconds after turning ig-	0 V	_
(W)	Ground	lay power supply	Output	 Ignition switch Ignition switch (For a few sec switch OFF) 		Battery voltage	
55 (O)	Ground	ECM power supply	Output	Ignition switch C	DFF	Battery voltage	
56	Cround	lanition relevanewer eupply	Output	Ignition switch C)FF	0 V	
(R)	Ground	Ignition relay power supply	Output	Ignition switch C	N	Battery voltage	
57	Ground	Ignition relay power supply	Output	Ignition switch C)FF	0 V	_
(G)	Giodila	Ignition relay power supply	Output	Ignition switch C	N	Battery voltage	
58	Ground	Ignition relay power supply	Output	Ignition switch C)FF	0 V	_
(Y)	Ciound	ignition relay power supply	- Guipul	Ignition switch C	DN	Battery voltage	_
60				Ignition switch C (More than a few nition switch OF	v seconds after turning ig-	Battery voltage	-
69 (O)	Ground	ECM relay control	Output	Ignition switch Ignition switch (For a few sec switch OFF)		0 - 1.5 V	_
70 (G)	Ground	Throttle control motor re- lay control	Output	Ignition switch C	ON → OFF	0 -1.0 V ↓ Battery voltage ↓ 0 V	_
				Ignition switch C	DN	0 - 1.0 V	_
71		1	O :	Ignition switch C)FF	0 V	_
(SB)	Ground	Ignition relay power supply	Output	Ignition switch C	DN	Battery voltage	_

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
74	Cround	Ignition roley newer aupply	Output	Ignition switch C	OFF	0 V
(LG)	Ground	Ignition relay power supply	Output	Ignition switch C	DN	Battery voltage
				Ignition switch (DN	(V) 6 4 2 0 2 ms JPMIA0001GB
76 (P)	Ground	Power generation command signal	Output	40% is set on "A NATOR DUTY"	ACTIVE TEST", "ALTER- of "ENGINE"	(V) 6 4 2 0 2 ms JPMIA0002GB 3.8 V
				80% is set on "A NATOR DUTY"	ACTIVE TEST", "ALTER- of "ENGINE"	(V) 6 4 2 0 2ms JPMIA0003GB 1.4 V
77 (B/W)	Ground	Fuel pump relay control	Output	Ignition switchEngine runnir		0 V
80 (W)	Ground	Starter motor	Output	At engine crank	ing	Battery voltage
83	Ground	Headlamp LO (RH)	Output	Ignition switch	Lighting switch OFF	0 V
(R)	Ciodila	Hoadiamp LO (INTI)	Sulput	ON	Lighting switch 2ND	Battery voltage
84	Ground	Headlamp LO (LH)	Output	Ignition switch	Lighting switch OFF	0 V
(P)	2.00110			ON	Lighting switch 2ND	Battery voltage
86*	Ground	Daytime running light (RH)	Output	Daytime run- ning light sys-	Not operated	0 V
(W)	Ground	Daytime running light (KH)	Output	tem	Operated	Battery voltage
87 [*]				Daytime run-	Not operated	0 V
87 (L)	Ground	Daytime running light (LH)	Output	ning light sys- tem	Operated	Battery voltage
88 (G)	Ground	Washer pump power supply	Output	Ignition switch C	ON	Battery voltage
89 (BR)	Ground	Headlamp HI (RH)	Output	Ignition switch	Lighting switch OFF • Lighting switch HI	0 V Battery voltage
					Lighting switch PASS Lighting switch OFF	
90 (O)	Ground	Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch OFFLighting switch HILighting switch PASS	0 V Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description		Condition		Value (Approx.)
(Wire color)		Signal name	Input/ Output			
97 (Y)	Ground	Cooling fan control	Output	Engine idling		0 - 5 V
104	Ground	Hood switch	Input	Close the hood		Battery voltage
(LG)	Ground	Hood Switch	Input	Open the hood		0 V
105	Ground	Daytime running light relay	Innut	Ignition switch	Lighting switch OFF	Battery voltage
(GR)	Giouria	control	Input	ON	Lighting switch 1ST	0 V

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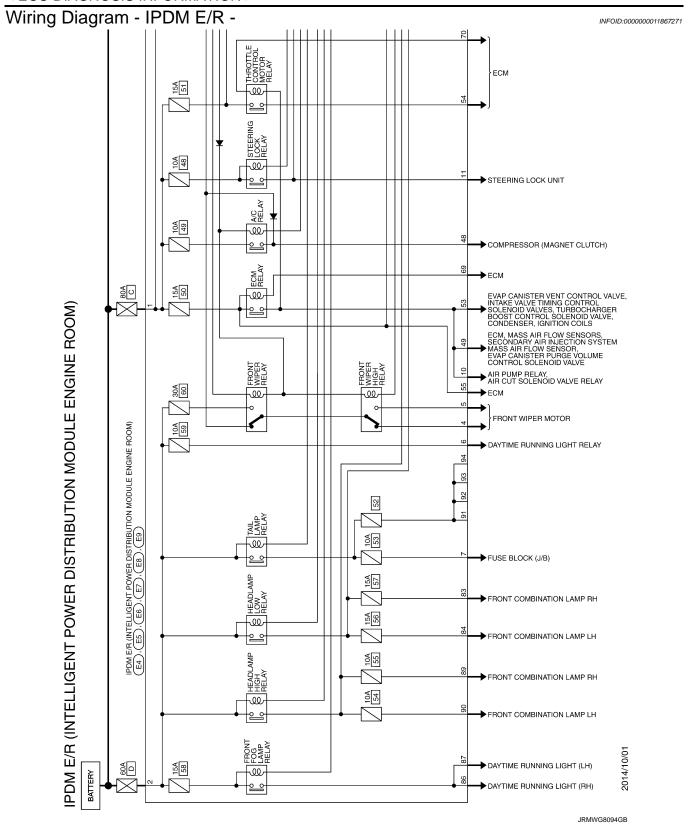
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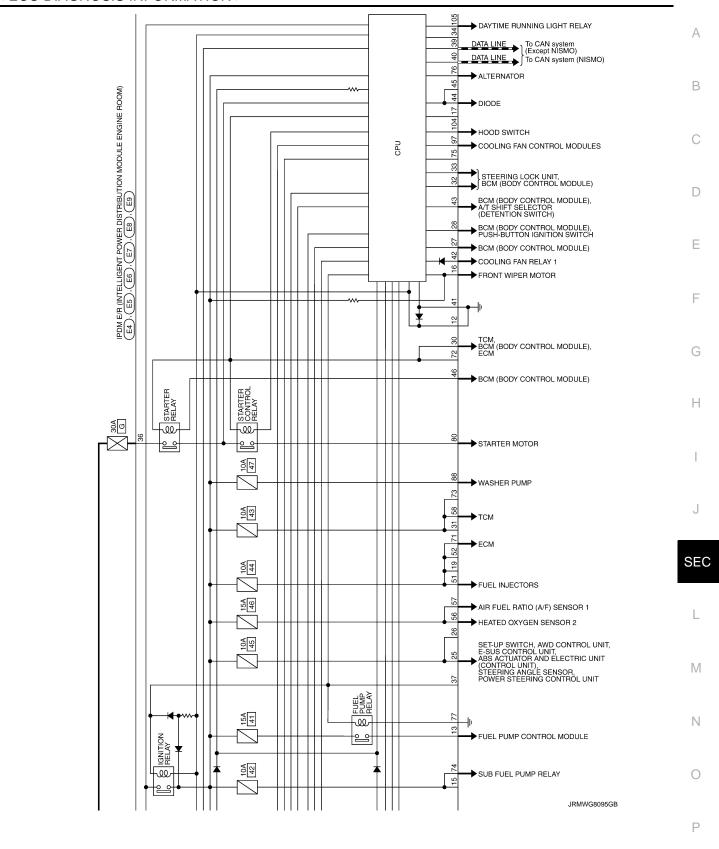
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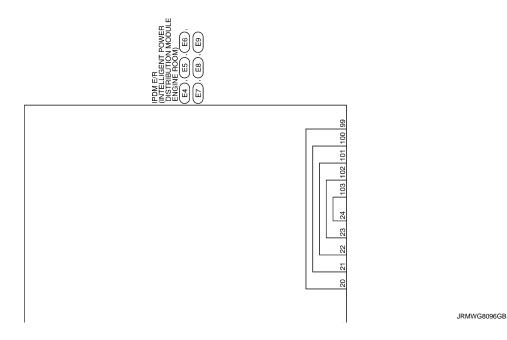
< ECU DIAGNOSIS INFORMATION >

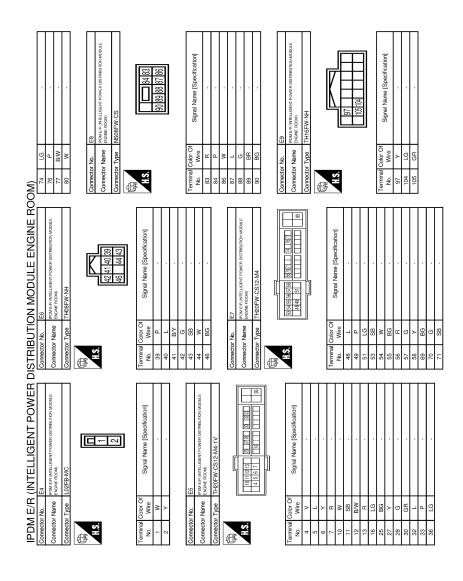


< ECU DIAGNOSIS INFORMATION >



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JRMWG8015GB

Fail-safe INFOID:0000000011867272

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

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< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe operation		
Cooling fan	 Outputs the pulse duty signal (PWM signal) 100% when the ignition switch is turned ON Outputs the pulse duty signal (PWM signal) 0% when the ignition switch is turned OFF 		
A/C compressor	A/C relay OFF		

If No CAN Communication Is Available With BCM

Control part	Fail-safe 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
Illuminations	 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.
Horn	Horn OFF
Ignition relay	The status just before activation of fail-safe is maintained.
Starter motor	Starter control relay OFF
Steering lock unit	Steering lock relay OFF
Parking lampsLicense plate lampsSide marker lampsTail lamps	Daytime running light relay OFF
Daytime running light	Front fog lamp 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 inside it.
- IPDM E/R judges the ignition relay error if the voltage differs between the contact circuit and the excitation coil circuit.
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay and daytime running light relay for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Voltage	Voltage judgment			
Ignition relay contact side	Ignition relay excitation coil side	IPDM E/R judgment	Operation	
ON	ON	Ignition relay ON normal	_	
OFF	OFF	Ignition relay OFF normal	_	
ON	OFF	Ignition relay ON stuck	 Detects DTC "B2098: IGN RELAY ON CIRC" Turns ON the tail lamp relay and day-time running light relay for 10 minutes 	
OFF	ON	Ignition relay OFF stuck	Detects DTC "B2099: IGN RELAY OFF CIRC"	

^{*:} With daytime running light system

FRONT WIPER CONTROL

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

When a front wiper stop position 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.

< ECU DIAGNOSIS INFORMATION >

Ignition switch	Front wiper switch	Front wiper stop position signal
ON	OFF	The front wiper stop position signal (stop position) cannot be input for 10 seconds.
ON	ON	The front wiper stop position 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.

DTC Index INFOID:0000000011867273

NOTE:

- The details of time display are as follows.
- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.
- IGN counter is displayed on FFD (Freeze Frame data).
- The number is 0 when is detected now.
- The number increases like $1 \rightarrow 2 \cdots 38 \rightarrow 39$ after returning to the normal condition whenever IGN OFF \rightarrow
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

CONCLUTATION	Fail anta	×: Applicable
CONSULT display	Fail-safe	Refer to
No DTC is detected. further testing may be required.	_	_
U1000: CAN COMM CIRCUIT	×	PCS-14
B2098: IGN RELAY ON CIRC	×	PCS-15
B2099: IGN RELAY OFF CIRC	_	PCS-17
B2108: S/L RELAY ON	_	<u>SEC-94</u>
B2109: S/L RELAY OFF	_	<u>SEC-95</u>
B210A: S/L STATE SW	_	<u>SEC-96</u>
B210B: STR CONT RLY ON CIRC	_	SEC-100
B210C: STR CONT RLY OFF CIRC	_	<u>SEC-101</u>
B210D: STARTER RLY ON CIRC	_	<u>SEC-102</u>
B210E: STARTER RLY OFF CIRC	_	<u>SEC-103</u>
B210F: INTRLCK/PNP SW ON	_	<u>SEC-105</u>
B2110: INTRLCK/PNP SW OFF	_	<u>SEC-107</u>

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ENGINE DOES NOT START WHEN INTELLIGENT KEY IS INSIDE OF VEHICLE [INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

ENGINE DOES NOT START WHEN INTELLIGENT KEY IS INSIDE OF VE-HICLE

Description INFOID:0000000011489335

Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

NOTE:

The engine start function, door lock function, power distribution system and NATS-IVIS/NVIS in the Intelligent Key system are closely related to each other regarding control. The vehicle security function can operate only when the door lock and power distribution system are operating normally.

Conditions of Vehicle (Operating Conditions)

- "ENGINE START BY I-KEY" in "WORK SUPPORT" is ON when setting on CONSULT.
- Intelligent Key is not inserted in key slot.
- One or more of Intelligent Keys with registered Intelligent Key ID is in the vehicle.

Diagnosis Procedure

INFOID:0000000011489336

CHECK DOOR LOCK FUNCTION

Lock/unlock door with door request switch.

Refer to DLK-20, "DOOR LOCK FUNCTION: System Description".

Is the operation normal?

YES >> GO TO 2.

NO >> Check door lock function. Refer to DLK-175, "DRIVER SIDE: Diagnosis Procedure".

2.PERFORM WORK SUPPORT

Perform "INSIDE ANT DIAGNOSIS" on "Work Support" of "INTELIGENT KEY".

Refer to DLK-52, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

>> GO TO 3.

3.perform self diagnostic result

Perform Self Diagnostic result of "INTELIGENT KEY".

Refer to DLK-52, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

Is DTC detected?

YES >> Refer to DLK-56, "DTC Logic" (instrument center), refer to DLK-58, "DTC Logic" (console), refer to DLK-60, "DTC Logic" (trunk room).

NO >> GO TO 4.

4. CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.

Refer to PCS-64, "Component Function Check".

Is the inspection normal?

YES >> GO TO 5.

NO >> Repair or replace malfunctioning parts.

${f 5}$. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

STEERING DOES NOT LOCK

< SYMPTOM DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

STEERING DOES NOT LOCK

Description INFOID:0000000011489337

If door switch is malfunctioning, BCM cannot lock the steering. If BCM does not detect DTC, steering lock unit is normal.

Diagnosis Procedure

1.check door switch

Check door switch.

Refer to DLK-64, "Component Inspection".

Is the inspection normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

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SECURITY INDICATOR LAMP DOES NOT TURN ON OR FLASH

< SYMPTOM DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

SECURITY INDICATOR LAMP DOES NOT TURN ON OR FLASH

Description INFOID:0000000011489339

Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

Ignition switch position is not in ON position.

Diagnosis Procedure

INFOID:0000000011489340

1. CHECK SECURITY INDICATOR LAMP

Check security indicator lamp.

Refer to SEC-114, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

VEHICLE SECURITY SYSTEM CAN NOT BE SET

< SYMPTOM DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY SYSTEM CAN NOT BE SET INTELLIGENT KEY	
INTELLIGENT KEY: Description	INFOID:0000000011489341
Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diageach symptom.	gnosis, and check
Conditions of Vehicle (Operating Conditions) "SECURITY ALARM SET" in "WORK SUPPORT" is ON when setting on CONSULT.	
INTELLIGENT KEY : Diagnosis Procedure	INFOID:0000000011489342
1. CHECK INTELLIGENT KEY SYSTEM (REMOTE KEYLESS ENTRY FUNCTION)	
Lock/unlock door with Intelligent Key. Refer to <u>DLK-29, "REMOTE KEYLESS ENTRY FUNCTION: System Description"</u> .	
Is the inspection normal?	
YES >> GO TO 2. NO >> Check Intelligent Key system. Refer to <u>DLK-177, "Diagnosis Procedure"</u> .	
2.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".	
NO >> GO TO 1.	
DOOR REQUEST SWITCH	
DOOR REQUEST SWITCH : Description	INFOID:0000000011489343
Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diageach symptom.	gnosis, and check
Conditions of Vehicle (Operating Conditions) "SECURITY ALARM SET" in "WORK SUPPORT" is ON when setting on CONSULT.	
DOOR REQUEST SWITCH : Diagnosis Procedure	INFOID:0000000011489344
1. CHECK INTELLIGENT KEY SYSTEM (DOOR LOCK FUNCTION)	
Lock/unlock door with door request switch. Refer to DLK-20, "DOOR LOCK FUNCTION: System Description".	-
Is the inspection normal?	
YES >> GO TO 2. NO >> Check Intelligent Key system. Refer to DLK-175, "DRIVER SIDE : Diagnosis Pro	acadura"
NO >> Check Intelligent Key system. Refer to <u>DLK-175</u> , " <u>DRIVER SIDE</u> : <u>Diagnosis Pro</u> 2.CONFIRM THE OPERATION	ocedure .
Confirm the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident". NO >> GO TO 1.	

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VEHICLE SECURITY ALARM DOES NOT ACTIVATE

< SYMPTOM DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY ALARM DOES NOT ACTIVATE

Description INFOID:000000011489345

Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

"SECURITY ALARM SET" in "WORK SUPPORT" of "THEFT ALM" is ON when setting on CONSULT.

Diagnosis Procedure

INFOID:0000000011489346

1. CHECK CONDITION OF ALARM

Operate alarm.

Which alarm does not operate?

Headlamp and horn>>GO TO 2.

Headlamp>>GO TO 3.

Horn >> GO TO 4.

2. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-63, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace the malfunctioning door switch

3. CHECK HEADLAMP

Check headlamp operation.

Refer to SEC-113, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace malfunctioning parts.

4.CHECK HORN

Check horn.

Refer to SEC-117, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace malfunctioning parts.

5.CHECK VEHICLE SECURITY HORN

Check vehicle security horn.

Refer to SEC-119, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace malfunctioning parts.

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

KEY SLOT INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

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SYMPTOM DIAGNOSIS > LINTELLIC	SENI KET STSTEMI
EY SLOT INDICATOR DOES NOT ILLUMINATE	
iagnosis Procedure	INFOID:000000011489347
.CHECK KEY SLOT INDICATOR	
neck key slot indicator. efer to DLK-96, "Component Function Check".	
the inspection normal?	
YES >> GO TO 2. NO >> Repair or replace malfunctioning parts.	
.CONFIRM THE OPERATION	
onfirm the operation again. the inspection normal?	
'ES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident". NO >> GO TO 1.	

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PANIC ALARM FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[INTELLIGENT KEY SYSTEM]

PANIC ALARM FUNCTION DOES NOT OPERATE

Description INFOID:0000000011489348

NOTE:

- Before performing the diagnosis following procedure, check "Work Flow". Refer to SEC-5, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATION CONDITIONS)

- Ignition switch is in OFF or LOCK position.
- Intelligent Key is removed from key slot.

Diagnosis Procedure

INFOID:0000000011489349

1. CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Go to DLK-29, "REMOTE KEYLESS ENTRY FUNCTION: System Description".

2.CHECK VEHICLE SECURITY ALARM OPERATION

Check vehicle security alarm operation.

Does alarm (headlamp and horn) active?

YES >> GO TO 3.

NO >> Go to SEC-19, "System Description".

3.CHECK "PANIC ALARM SET" SETTING IN "WORK SUPPORT"

Check "PANIC ALARM SET" setting in "WORK SUPPORT".

Refer to DLK-52, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set "PANIC ALARM SET" setting in "WORK SUPPORT".

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> GO TO 1.

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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 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 "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never 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
 serious injury.
- 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.

Precautions Necessary for Steering Wheel Rotation After Battery Disconnection

INFOID:0000000011802302

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Before removing and installing any control units, first turn the ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- Turn the ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.

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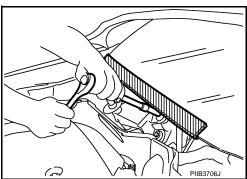
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- Perform the necessary repair operation.
- When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT.

Precaution for Procedure without Cowl Top Cover

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



Precautions for Removing Battery Terminal

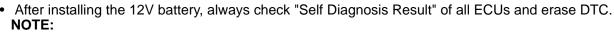
When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

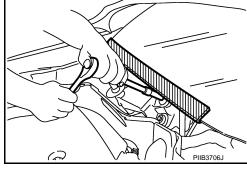
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

· For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

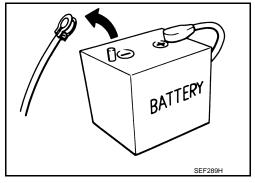


The removal of 12V battery may cause a DTC detection error.



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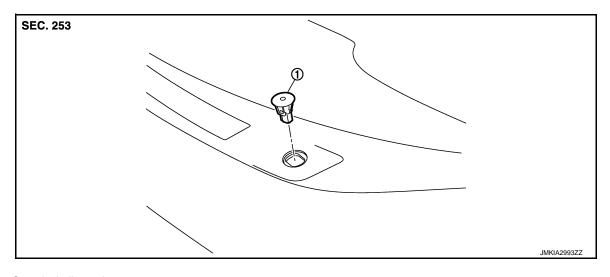
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REMOVAL AND INSTALLATION

SECURITY INDICATOR LAMP

Exploded View



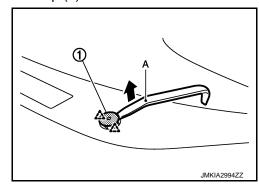
Security indicator lamp

Removal and Installation

REMOVAL

Disengage pawls with remover tool (A) and pull up the security indicator lamp (1).

<u>/</u>∴: Pawl



INSTALLATION

Install in the reverse order of removal.

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