SECURITY CONTROL SYSTEM

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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow INFOID:0000000011740341 В

OVERALL SEQUENCE

D Inspection start 1. Get information for symptom Get the detailed information about symptom from the customer 2. Check DTC Print out DTC and freeze frame data (or, write it down). Check related service bulletines. Symptom is described. Symptom is not described. Symptom is described. DTC is detected. DTC is detected. DTC is not detected. 3. Confirm the symptom 4. Confirm the symptom Try to confirm the symptom described Try to confirm the symptom described by the customer. by the customer. Also study the normal operation and failsafe related to the symptom. **SEC** 5. Perform DTC CONFIRMATION PROCEDURE 6. Detect malfunctioning system by SYMPTOM DIAGNOSIS 7. Detect malfunctioning part by Diagnosis Procedure Symptom is Symptom is not described. 8. Repair or replace the malfunctioning part Check input/output signal or voltage DTC is 9. Final check Ν Symptom remains. detected. Check that the symptom is not detected. Perform DTC Confirmation Procedure again, and then check that the malfunction is repaired. DTC is not detected. Symptom does not remain. Р INSPECTION END

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

- 1. 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-98, "DTC Inspection Priority Chart" and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included 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-45, "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 >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-45, "Intermittent Incident".

8.repair or replace the malfunctioning part

- Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
- 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.

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

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT ECM RECOMMUNICATING FUNCTION

ECM RECOMMUNICATING FUNCTION : Description

INFOID:0000000011740342

Performing the following procedure can automatically activate recommunication of ECM and BCM, but only when the ECM is replaced with a new one*. Refer to <u>SEC-8</u>, "<u>ECM RECOMMUNICATING FUNCTION</u>: <u>Special Repair Requirement</u>".

*: New one means a virgin ECM that is never energized on-board. (In this step, initialization procedure by CONSULT is not necessary)

NOTE:

- 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 RECOMMUNICATING FUNCTION : Special Repair Requirement

INFOID:0000000011740343

1.PERFORM ECM RECOMMUNICATING FUNCTION

- 1. Install ECM.
- 2. Insert the registered Intelligent Key* into key slot, turn ignition switch to "ON".
 - *: To perform this step, use the key that is used before performing ECM replacement.
- 3. Maintain ignition switch in the "ON" position for 5 seconds or more.
- 4. Turn ignition switch to "OFF".
- 5. Start engine.

Can engine be started?

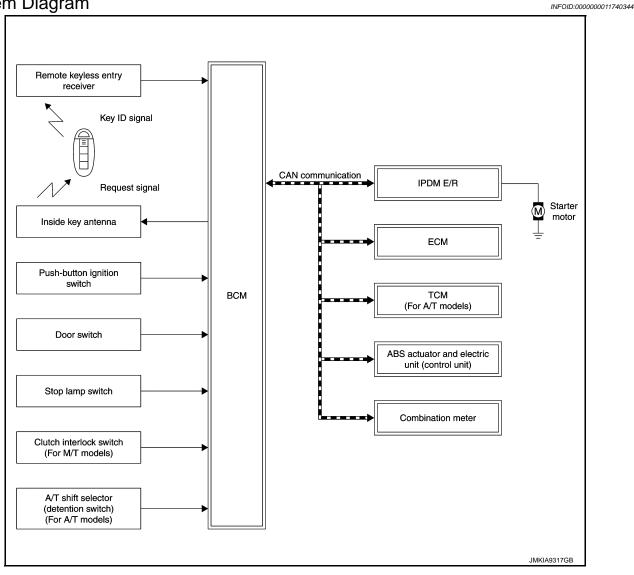
YES >> Procedure is complete.

NO >> Initialize control unit.

SYSTEM DESCRIPTION

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

System Diagram



System Description

INFOID:0000000011740345

SYSTEM DESCRIPTION

The engine start function of Intelligent Key system is a system that makes it possible to start and stop the
engine without removing the key. It verifies an 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 of 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 [Intelligent Key and 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.
- Up to 4 Intelligent Keys can be registered (Including the standard Intelligent Key) upon request from the customer.

NOTE:

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INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

< SYSTEM DESCRIPTION >

Refer to <u>DLK-25</u>, "<u>INTELLIGENT KEY SYSTEM</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 ID verification, and thus it cannot start the engine. Instead, NVIS (NATS) ID verification can be performed by inserting the Intelligent Key to 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 activates 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.
- 3. The BCM receives the Intelligent Key ID signal via the remote keyless entry receiver, and verifies it with the registered ID.
- 4. BCM turns ACC relay ON and transmits the ignition power supply ON signal to IPDM E/R.
- 5. IPDM E/R turns the ignition relay ON to start the ignition power supply.
- BCM confirms that the shift position is P or N.
- BCM transmits the starter request signal via CAN communication to IPDM E/R and turns the starter relay in IPDM E/R ON if BCM judges that the engine start condition is satisfied.
- 8. IPDM E/R turns the starter control relay ON when receiving the starter request signal.
- 9. Battery power is supplied through the starter relay and the starter control relay to operate the starter motor to start the cranking.

CAUTION:

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

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

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

*: For the engine start condition, refer to "POWER SUPPLY POSITION CHANGE TABLE BY PUSH-BUTTON IGNITION SWITCH OPERATION".

OPERATION RANGE

Engine can be started when Intelligent Key is inside the vehicle. However, sometimes engine may 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 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 <u>SEC-15</u>, "System Description".

BATTERY SAVER SYSTEM

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

- The ignition switch is in the ACC position
- All doors are closed
- Selector lever is in the P position

Reset Condition of Battery Saver System

A/T models

In order to prevent the battery from discharging, the battery saver system cuts off the power supply when all doors are closed, the selector lever is in the P position, and the ignition switch is left in the ACC position for 60 minutes. If any of the following conditions are met the battery saver system is released.

- Opening any door
- Operating door lock using door request switch

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

< SYSTEM DESCRIPTION >

Operating door lock using Intelligent Key

Press push-button ignition switch and ignition switch changes to the ACC position from the OFF position.

M/T models

If any of the above conditions are met, the battery saver system is released.

POWER SUPPLY POSITION CHANGE TABLE BY PUSH-BUTTON IGNITION SWITCH OPERA-TION

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,

A/T models

- Brake pedal operating condition
- Selector lever position
- Vehicle speed

M/T models

- Clutch pedal operating condition
- Vehicle speed

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

Power supply position	A/T	models	M/T models	Push-button ignition switch operation frequency
. S	Selector lever	Brake pedal operation condition	Clutch pedal operation condition	
$LOCK \to ACC$	_	Not depressed	Not depressed	1
$LOCK \to ACC \to ON$	_	Not depressed	Not depressed	2
$LOCK \to ACC \to ON \to OFF$	_	Not depressed	Not depressed	3
$\begin{array}{c} LOCK \to START \\ ACC \to START \\ ON \to START \end{array}$	P or N position	Depressed	Depressed	1
Engine is running \rightarrow OFF	_	_	_	1

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

Power supply position	A/T models		M/T models	Push-button ignition switch
oner cuppy promon	Selector lever	Brake pedal operation condition	Clutch pedal operation condition	operation frequency
Engine is running → ACC	_	_	_	Emergency stop operation
Engine stall return operation while driving	N position	Not depressed	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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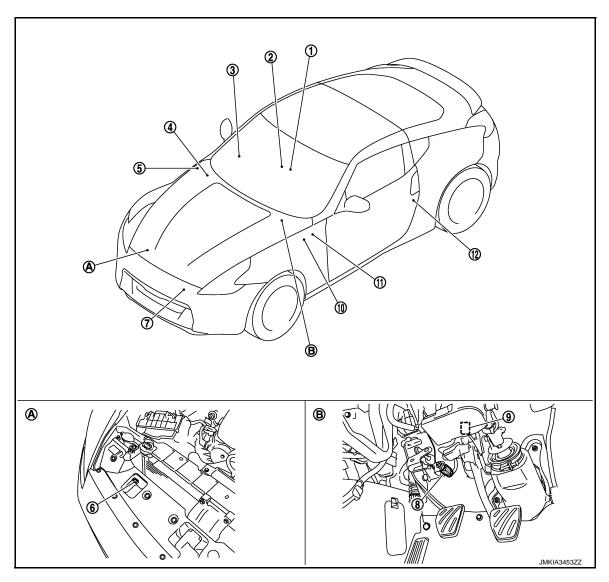
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Component Parts Location

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- Combination meter M53, M54
- Push-button ignition switch M50
- Remote keyless entry receiver M104 Refer to DLK-17, "INTELLIGENT **KEY SYSTEM:** Component Parts Location".

- BCM M118, M119, M121, M122, M123 Refer to BCS-10, "Component Parts Location".
- IPDM E/R E5, E6, E7, E9 Refer to PCS-5, "Component Parts Location".

Clutch interlock switch E111

Hood switch

- 10. ABS actuator and electric unit (con- 11. Key slot M22 trol unit) E41
 - Refer to BRC-10, "Component Parts Location".

(for M/T models)

12. Driver side door switch B16

Stop lamp switch E110

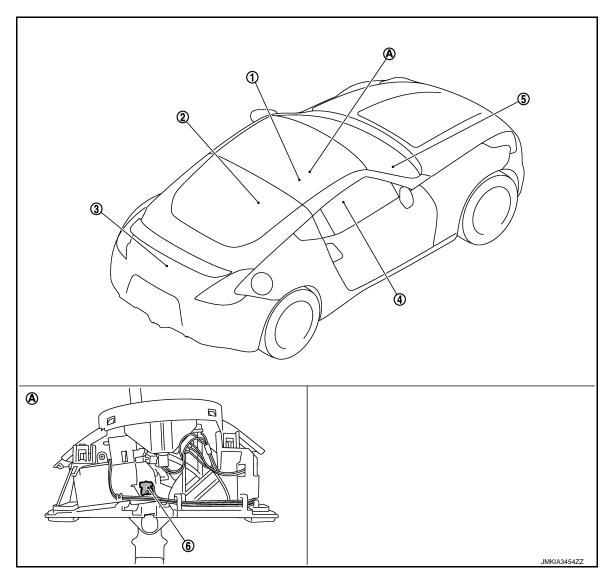
A. Built in hood lock RH

7. Horn (low) E69, E70

B. View with instrument driver lower cover removed

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

< SYSTEM DESCRIPTION >



- 1. Inside key antenna (console) M257 2.
- Inside key antenna (luggage room)
 B222

4. TCM F301

5. ECM M107

- 3. Back door switch B66
- 6. A/T shift selector (detention switch) M137

A. Built in A/T shift selector

Component Description

INFOID:0000000011740347

Component	Reference
BCM	SEC-81
Push-button ignition switch	<u>SEC-56</u>
Door switch	<u>DLK-21</u> or <u>DLK-214</u>
A/T shift selector (detention switch) (A/T models)	SEC-90
Inside key antenna	<u>DLK-21</u> or <u>DLK-214</u>
Remote keyless entry receiver	<u>DLK-21</u> or <u>DLK-214</u>
Stop lamp switch	<u>SEC-54</u>
TCM (A/T models)	SEC-69
Clutch interlock switch (M/T models)	<u>SEC-76</u>

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INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

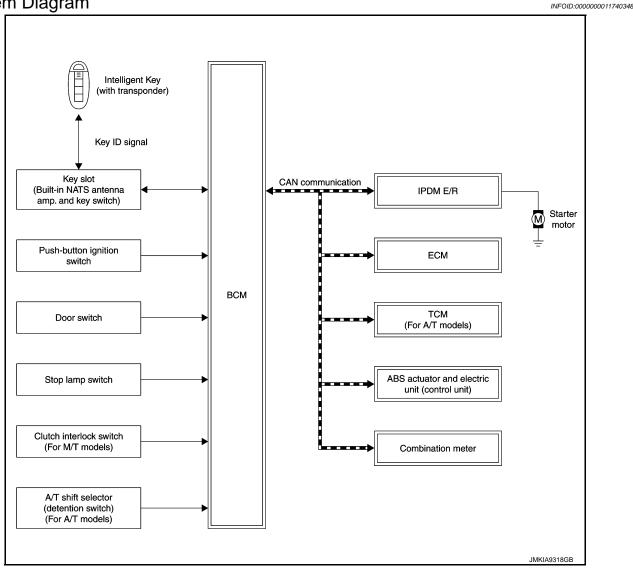
< SYSTEM DESCRIPTION >

Component	Reference
Starter relay	<u>SEC-73</u>
Starter control relay	<u>SEC-85</u>
Security indicator lamp	SEC-103
Key warning lamp	<u>SEC-105</u>

< SYSTEM DESCRIPTION >

NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS

System Diagram



System Description

INFOID:0000000011740349

SYSTEM DESCRIPTION

The NVIS (NATS) is an anti-theft system that registers an Intelligent Key ID to the vehicle and prevents the
engine from being started by an unregistered Intelligent Key. It has higher protection against auto theft
involving the duplication of mechanical keys.

It performs ID verification when starting the engine in the same way as the Intelligent system, but it performs
the NVIS (NATS) ID verification when inserting the Intelligent Key into the key slot.

- 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 lamp that warns that the NVIS (NATS) is on board the model.
- Security indicator lamp 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) upon request from the owner.
- Specified registration is required when replacing ECM, BCM, or Intelligent Key. For the registrations procedures for NVIS (NATS) and Intelligent Key when installing the BCM.

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< SYSTEM DESCRIPTION >

- Possible symptom of NVIS (NATS) malfunction is "Engine cannot start". But the engine can not be started
 with other than NVIS (NATS) malfunction neither. Identify the possible causes according to "Work Flow".
 Refer to SEC-5, "Work Flow".
- If ECM other than genuine part is installed, the engine cannot be started. For ECM replacement procedure, refer to <u>EC-17</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (ECM)</u>: <u>Special Repair</u> Requirement".

PRECAUTIONS FOR KEY REGISTRATION

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

SECURITY INDICATOR LAMP

- Warns that the vehicle is equipped with NVIS (NATS).
- 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.

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

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.

A/T models

- Brake pedal operating condition
- Selector lever position
- Vehicle speed

M/T models

- Clutch pedal operating condition
- Vehicle speed

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

Power supply position	A/T models		M/T models	Push-button ignition switch
. cho. coppy promon	Selector lever	Brake pedal operation condition	Clutch pedal operation condition	operation frequency
$LOCK \to ACC$	_	Not depressed	Not depressed	1
$LOCK \to ACC \to ON$	_	Not depressed	Not depressed	2
$LOCK \to ACC \to ON \to OFF$	_	Not depressed	Not depressed	3
$\begin{array}{c} LOCK \to START \\ ACC \to START \\ ON \to START \end{array}$	P or N position	Depressed	Depressed	1
Engine is running \rightarrow OFF	_	_	_	1

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

< SYSTEM DESCRIPTION >

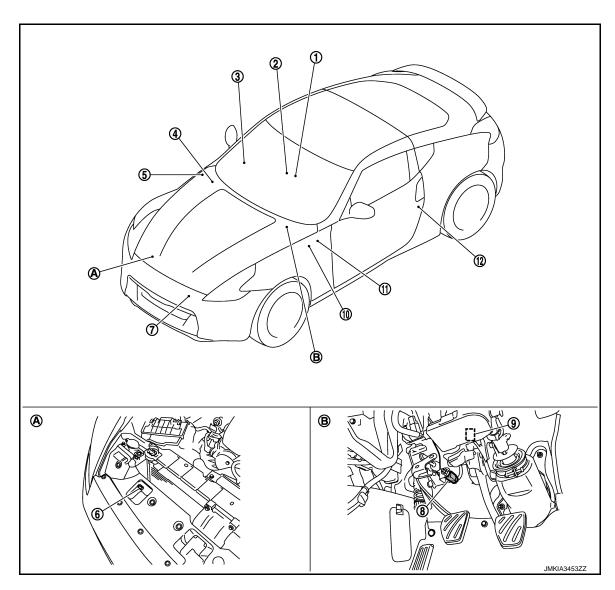
Power supply position	A/T models		M/T models	Push-button ignition switch	
	Selector lever	Brake pedal operation condition	Clutch pedal operation condition	operation frequency	
Engine is running \rightarrow ACC	_	_	_	Emergency stop operation	
Engine stall return operation while driving	N position	Not depressed	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.

Component Parts Location

INFOID:0000000011740350



- Combination meter M53, M54
- Push-button ignition switch M50
- Remote keyless entry receiver M104 Refer to DLK-17, "INTELLIGENT KEY SYSTEM: Component Parts Location".

BCM M118, M119, M121, M122, M123 Refer to BCS-10, "Component Parts

Location".

- IPDM E/R E5, E6, E7, E9 Refer to PCS-5, "Component Parts Location".
- Hood switch

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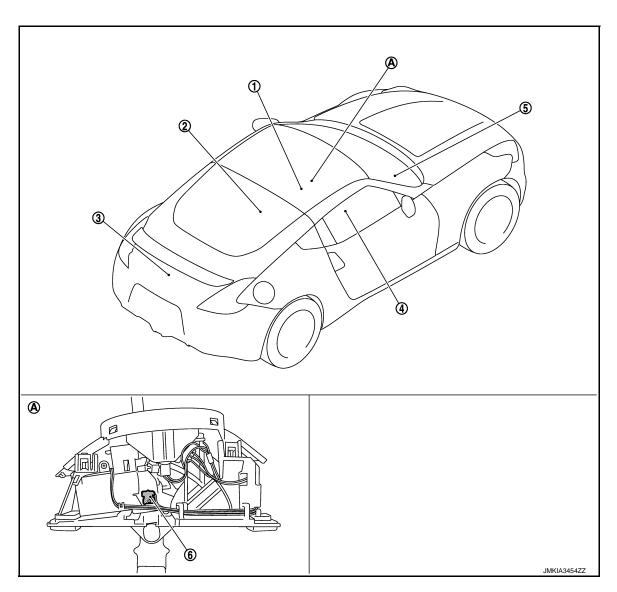
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- Horn (low) E69, E70
- Clutch interlock switch E111 (for M/T models)
- Stop lamp switch E110

- 10. ABS actuator and electric unit (con- 11. Key slot M22 trol unit) E41

12. Driver side door switch B16

- Refer to BRC-10, "Component Parts Location".
- A. Built in hood lock RH
- B. View with instrument driver lower cover removed



- Inside key antenna (console) M257
- Inside key antenna (luggage room) B222

TCM F301

5. ECM M107

- Back door switch B66
- A/T shift selector (detention switch) M137

A. Built in A/T shift selector

Component Description

INFOID:0000000011740351

Component	Reference	
BCM	<u>SEC-81</u>	
Push-button ignition switch	<u>SEC-56</u>	
Door switch	<u>DLK-21</u> or <u>DLK-214</u>	

< SYSTEM DESCRIPTION >

Component	Reference
Key slot	<u>SEC-96</u>
A/T shift selector (detention switch) (A/T models)	<u>SEC-90</u>
Stop lamp switch	<u>SEC-54</u>
TCM (A/T models)	SEC-69
Clutch interlock switch (M/T models)	<u>SEC-76</u>
Starter relay	SEC-73
Starter control relay	<u>SEC-85</u>
Security indicator lamp	<u>SEC-103</u>

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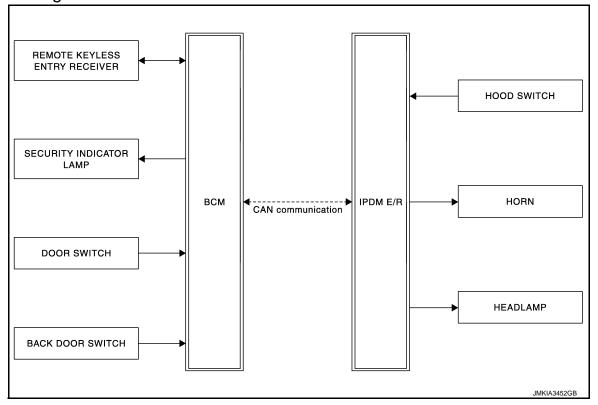
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VEHICLE SECURITY SYSTEM

System Diagram

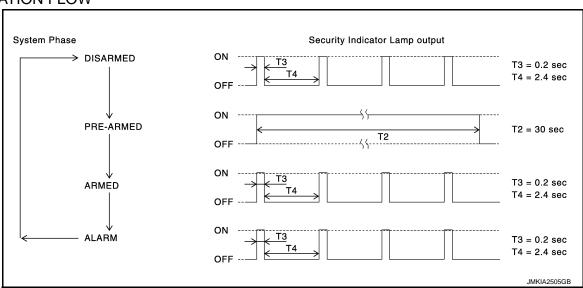
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System Description

INFOID:0000000011740353

OPERATION FLOW



SETTING THE VEHICLE SECURITY SYSTEM

Initial Condition

• Ignition switch is in the OFF position.

Disarmed Phase

 When any door or back door is open, the vehicle security system is set in the disarmed phase on the assumption that the owner is inside or near the vehicle.

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

 When the vehicle security system is in the disarmed phase, the security indicator lamp blinks every 2.4 seconds.

Pre-armed Phase and Armed Phase

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

- BCM receives LOCK signal from door request switch or Intelligent Key, after all doors are closed.
- Security indicator lamp illuminates for 30 seconds. Then, the system automatically shifts into the "armed" phase.

CANCELING THE ARMED PHASE VEHICLE SECURITY SYSTEM

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

- 1. Unlock all doors with the door request switch or Intelligent Key.
- Turn ignition switch "ON" or "ACC" position.

CANCELING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

When unlocking all doors with the door request switch or Intelligent Key the alarm operation is canceled.

ACTIVATING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

Check that the system is in the armed phase. (Security indicator lamp blinks every 2.4 seconds.)

When the following operations 1 or 2 is performed, the system sounds the horns and blinks the headlamps for about 50 seconds.

- Any door or hood is open during the armed phase.
- Disconnecting and connecting the battery connector before canceling the armed phase.

PANIC ALARM FUNCTION

When ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), BCM receives PANIC ALARM signal from Intelligent Key.

BCM turns on and off headlamp intermittently and transmits theft warning horn signal to IPDM E/R. Then, IPDM E/R turns on and off horn intermittently.

The headlamp blinks and the horn sounds intermittently.

The alarm automatically turns off:

- After 25 seconds
- When BCM receives any signal from Intelligent Key

Panic alarm function mode can be changed by "PANIC ALARM SET" mode in "WORK SUPPORT" of "INTEL-LIGENT KEY" of "BCM" using CONSULT. Refer to DLK-43, "INTELLIGENT KEY: CONSULT Function (BCM -INTELLIGENT KEY) (For Coupe)" or DLK-237, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLI-GENT KEY) (For Roadster)".

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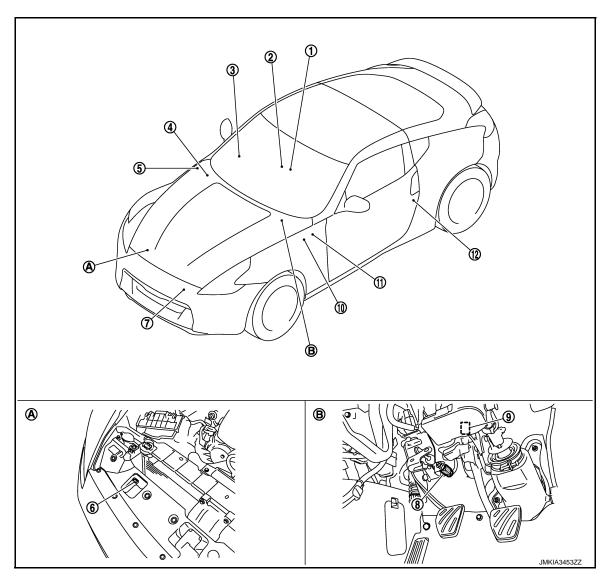
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Component Parts Location

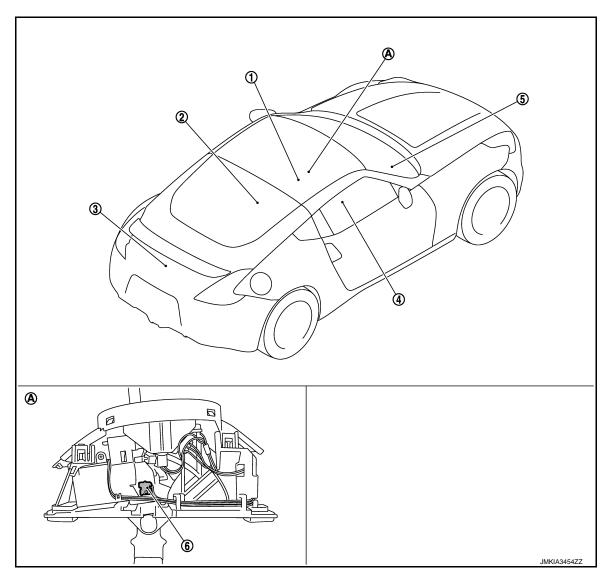
INFOID:0000000011740354



- Combination meter M53, M54
- BCM M118, M119, M121, M122, M123 Refer to BCS-10, "Component Parts Location".
- 7. Horn (low) E69, E70
- 10. ABS actuator and electric unit (con- 11. Key slot M22 trol unit) E41 Refer to BRC-10, "Component Parts Location".
- A. Built in hood lock RH

- Push-button ignition switch M50
- IPDM E/R E5, E6, E7, E9 Refer to PCS-5, "Component Parts Location".
- Clutch interlock switch E111 (for M/T models)
- B. View with instrument driver lower cover removed

- 3. Remote keyless entry receiver M104
- Hood switch 6.
- Stop lamp switch E110
- 12. Driver side door switch B16



- 1. Inside key antenna (console) M257 2.
- Inside key antenna (luggage room)
 B222

4. TCM F301

5. ECM M107

- 3. Back door switch B66
- A/T shift selector (detention switch) M137

A. Built in A/T shift selector

Component Description

INFOID:0000000011740355

Component	Reference	
BCM	<u>SEC-81</u>	
Security indicator lamp <u>SEC-103</u>		
Door switch	<u>DLK-21</u> or <u>DLK-214</u>	
Back door switch	<u>DLK-21</u>	
Hood switch	SEC-99	

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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		
System	Sub system selection item	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	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
_	AIR CONDITONER*			
Intelligent Key system Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	ВСМ	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door/Trunk lid open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

NOTE

FREEZE FRAME DATA (FFD)

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

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

< SYSTEM DESCRIPTION >

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" (Except emergency stop operation)	
_	CRANK>RUN	Power supply 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"*	
	OFF		Power supply position is "OFF" (Ignition switch OFF)	
	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 of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

NOTE

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models), and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) (For Coupe)

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WORK SUPPORT

Monitor item	Description		
CONFIRM KEY FOB ID	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, passenger side and back door side/trunk lid*) mode can be changed to operate (On) or not operate (Off) in this mode		
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (On) or not operate (Off) with this mode		
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by back door opener switch/ trunk lid opener switch* can be changed to operate (ON) or not operate (OFF) with this mode		
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode • MODE 1: 0.5 sec. • MODE 2: Non-operation • MODE 3: 1.5 sec.		
TAKE OUT FROM WIN WARN	NOTE: This item is displayed, but cannot be monitored		
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode • MODE 1: 3 sec. • MODE 2: Non-operation • MODE 3: 5 sec.		
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be supported		
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (On) or not operate (Off) with this mode		
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (On) or not operate (Off) with this mode		
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following with this mode • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operation		
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side, passenger side and back door side/trunk lid*) can be selected from the following with this mode Horn chirp: Sound horn Buzzer: Sound Intelligent Key warning buzzer OFF: Non-operation		
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch (driver side, passenger side and back door side/trunk lid*) can be changed to operate (On) or not operate (Off) with this mode		
SHORT CRANKING OUTPUT	Starter motor can be forcibly activated		
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) with this mode		

^{*:} For roadster models

SELF-DIAG RESULT

Refer to SEC-178, "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.

< SYSTEM DESCRIPTION >

Monitor Item	Condition		
REQ SW -DR	Indicates [On/Off] condition of driver side door request switch		
REQ SW -AS	Indicates [On/Off] condition of passenger side door request switch		
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch/trunk lid door request switch*4		
PUSH SW	Indicates [On/Off] condition of push-button ignition switch		
IGN RLY2 -F/B	NOTE: This item is displayed, but cannot be monitored		
ACC RLY-F/B	NOTE: This item is displayed, but cannot be monitored		
CLUCH SW*1	Indicates [On/Off] condition of clutch switch		
BRAKE SW 1	Indicates [On/Off]*3 condition of brake switch power supply		
BRAKE SW 2	Indicates [On/Off] condition of brake switch		
DETE/CANCL SW*2	Indicates [On/Off] condition of P position		
SFT PN/N SW* ²	Indicates [On/Off] condition of P or N position		
S/L -LOCK	NOTE: This item is displayed, but cannot be monitored		
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored		
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be monitored		
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*2	Indicates [On/Off] condition of P position		
SFT PN -IPDM* ²	Indicates [On/Off] condition of P or N position		
SFT P -MET*2	Indicates [On/Off] condition of P position		
SFT N -MET*2	Indicates [On/Off] condition of N position		
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states		
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored		
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored		
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored		
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: This item is displayed, but cannot be monitored		
KEY SW -SLOT	Indicates [On/Off] condition of key slot		
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored		
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key		
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key		

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< SYSTEM DESCRIPTION >

Monitor Item	Condition	
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored	
RKE-PANIC	Indicates [On/Off] condition of PANIC button of Intelligent Key	
RKE-P/W OPEN	Indicates [On/Off] condition of P/W DOWN signal from Intelligent Key	
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key	
RKE OPE COUN1	When remote keyless entry receiver (front) 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 SW*1	Indicates [On/Off] condition of R position	

^{*1:} It is displayed but does not operate on A/T models.

ACTIVE TEST

Test item	Description	
BATTERY SAVER	This test is able to check interior room lamp operation The interior room lamp is activated after "On" on CONSULT screen is touched	
PW REMOTO DOWN SET	This test is able to check power window down operation The power window down is activated after "On" on CONSULT screen is touched	
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation The Intelligent Key warning buzzer is activated after "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 • OFF 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 is activated after "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 • ROTAT: This item is displayed, but cannot be tested. • 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 through window warning displays when "NO KY" on CONSULT screen is touched • Take away warning display when "OUTKEY" on CONSULT screen is touched • OFF position warning display when "LK WN" on CONSULT screen is touched	
TRUNK/GLASS HATCH	NOTE: This item is displayed, but cannot be tested	
FLASHER	This test is able to check hazard warning lamp operation The hazard warning lamps are activated after "LH/RH/Off" on CONSULT screen is touched	
HORN	This test is able to check horn operation The horn is activated after "On" on CONSULT screen is touched	
P RANGE*1	This test is able to check A/T shift selector power supply A/T shift selector power is supplied when "On" on CONSULT screen is touched	

^{*2:} It is displayed but does not operate on M/T models.

^{*3:} OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

^{*4:} For roadster models

< SYSTEM DESCRIPTION >

Test item	Description	
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	
KEY SLOT ILLUMI	This test is able to check key slot illumination operation Key slot illumination blinks when "On" on CONSULT screen is touched	
TRUNK/BACK DOOR	This test is able to check back door opener actuator/ trunk lid opener actuator* ² open operation This actuator opens when "Open" on CONSULT screen is touched	

^{*1:} It is displayed but does not operate on M/T models.

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) (For Roadster)

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WORK SUPPORT

Monitor item	Description		
CONFIRM KEY FOB ID	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, passenger side and back door side/trunk lid*) mode can be changed to operate (On) or not operate (Off) in this mode		
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (On) or not operate (Off) with this mode		
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by back door opener switch/ trunk lid opener switch* can be changed to operate (ON) or not operate (OFF) with this mode		
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode • MODE 1: 0.5 sec. • MODE 2: Non-operation • MODE 3: 1.5 sec.		
TAKE OUT FROM WIN WARN	NOTE: This item is displayed, but cannot be monitored		
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode • MODE 1: 3 sec. • MODE 2: Non-operation • MODE 3: 5 sec.		
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be supported		
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (On) or not operate (Off) with this mode		
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (On) or not operate (Off) with this mode		

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^{*2:} For roadster models

< SYSTEM DESCRIPTION >

Monitor item	Description	
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following with this mode • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operation	
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side, passenger side and back door side/trunk lid*) can be selected from the following with this mode Horn chirp: Sound horn Buzzer: Sound Intelligent Key warning buzzer OFF: Non-operation	
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch (driver side, passenger side and back door side/trunk lid*) can be changed to operate (On) or not operate (Off) with this mode	
SHORT CRANKING OUTPUT	Starter motor can be forcibly activated	
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) with this mode	

^{*:} For roadster models

SELF-DIAG RESULT

Refer to SEC-178, "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.

Monitor Item	Condition	
REQ SW -DR	Indicates [On/Off] condition of driver side door request switch	
REQ SW -AS	Indicates [On/Off] condition of passenger side door request switch	
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch/trunk lid door request switch*4	
PUSH SW	Indicates [On/Off] condition of push-button ignition switch	
IGN RLY2 -F/B	NOTE: This item is displayed, but cannot be monitored	
ACC RLY-F/B	NOTE: This item is displayed, but cannot be monitored	
CLUCH SW*1	Indicates [On/Off] condition of clutch switch	
BRAKE SW 1	Indicates [On/Off]*3 condition of brake switch power supply	
BRAKE SW 2	Indicates [On/Off] condition of brake switch	
DETE/CANCL SW*2	Indicates [On/Off] condition of P position	
SFT PN/N SW* ²	Indicates [On/Off] condition of P or N position	
S/L -LOCK	NOTE: This item is displayed, but cannot be monitored	
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored	
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be monitored	
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*2	Indicates [On/Off] condition of P position	

< SYSTEM DESCRIPTION >

Monitor Item	Condition	
SFT PN -IPDM*2	Indicates [On/Off] condition of P or N position	
SFT P -MET*2	Indicates [On/Off] condition of P position	
SFT N -MET*2	Indicates [On/Off] condition of N position	
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states	
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored	
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored	
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored	
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: This item is displayed, but cannot be monitored	
KEY SW -SLOT	Indicates [On/Off] condition of key slot	
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored	
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	NOTE: This item is displayed, but cannot be monitored	
RKE-PANIC	Indicates [On/Off] condition of PANIC button of Intelligent Key	
RKE-P/W OPEN	Indicates [On/Off] condition of P/W DOWN signal from Intelligent Key	
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key	
RKE OPE COUN1	When remote keyless entry receiver (front) 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 SW*1	Indicates [On/Off] condition of R position	

^{*1:} It is displayed but does not operate on A/T models.

ACTIVE TEST

Test item	Description	
BATTERY SAVER	This test is able to check interior room lamp operation The interior room lamp is activated after "On" on CONSULT screen is touched	
PW REMOTO DOWN SET	This test is able to check power window down operation The power window down is activated after "On" on CONSULT screen is touched	
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation The Intelligent Key warning buzzer is activated after "On" on CONSULT screen is touched	

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^{*2:} It is displayed but does not operate on M/T models.

^{*3:} OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

^{*4:} For roadster models

< SYSTEM DESCRIPTION >

Test item	Description	
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 • OFF 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 is activated after "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 ROTAT: This item is displayed, but cannot be tested. 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 through window warning displays when "NO KY" on CONSULT screen is touched Take away warning display when "OUTKEY" on CONSULT screen is touched Take away warning display when "CONSULT screen is touched	
TRUNK/GLASS HATCH	NOTE: This item is displayed, but cannot be tested	
FLASHER	This test is able to check hazard warning lamp operation The hazard warning lamps are activated after "LH/RH/Off" on CONSULT screen is touched	
HORN	This test is able to check horn operation The horn is activated after "On" on CONSULT screen is touched	
P RANGE*1	This test is able to check A/T shift selector power supply A/T shift selector 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	
KEY SLOT ILLUMI	This test is able to check key slot illumination operation Key slot illumination blinks when "On" on CONSULT screen is touched	
TRUNK/BACK DOOR	This test is able to check back door opener actuator/ trunk lid opener actuator* ² open operation This actuator opens when "Open" on CONSULT screen is touched	

^{*1:} It is displayed but does not operate on M/T models.

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT)

INFOID:0000000011740358

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.

^{*2:} For roadster models

< SYSTEM DESCRIPTION >

Monitored Item	Description	
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.	
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door request switch.	
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch	
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.	
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.	
DOOR SW-DR	Indicates [ON/OFF] condition of driver side door switch.	
DOOR SW-AS	Indicates [ON/OFF] condition of passenger side door switch.	
DOOR SW-RR	NOTE: This is displayed even when it is not equipped.	
DOOR SW-RL	NOTE: This is displayed even when it is not equipped.	
DOOR SW-BK	Indicates [ON/OFF] condition of back door switch.	
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/unlock switch LH and RH.	
CDL UNLOCK SW	ndicates [ON/OFF] condition of unlock signal from door lock/unlock switch LH and RH.	
TR/BD OPEN SW	ndicates [ON/OFF] condition of back door opener switch.	
TRNK/HAT MNTR	NOTE: This is displayed even when it is not equipped.	
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	NOTE: This is displayed even when it is not equipped.	
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 is turned on when "ON" on CONSULT screen is touched.	
VEHICLE SECURITY HORN	This test is able to check vehicle security horn operation. The horns are 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 are 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 are activated after "ON" on CONSULT screen is touched.	

IMMU

IMMU : CONSULT Function (BCM - IMMU)

INFOID:0000000011740359

DATA MONITOR

< SYSTEM DESCRIPTION >

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	Indicates [YET] at all time. Switches to [DONE] when a registered Intelligent Key is inserted into the key slot.	
CONFIRM ID3		
CONFIRM ID2		
CONFIRM ID1		
TP 4		
TP 3	Indicates the number of IDs that are registered.	
TP 2		
TP 1		
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.	
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.	

ACTIVE TEST

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

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

BCM

BCM : Description

INFOID:0000000011740360

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

CAN Communication Signal Chart. Refer to LAN-28, "CAN Communication Signal Chart".

BCM: DTC Logic

INFOID:0000000011740361

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC Detection Condition	Possible cause
U1000	CAN COMM	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

BCM: Diagnosis Procedure

INFOID:0000000011740362

1.PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result".

Is DTC "U1000" displayed?

YES >> Refer to LAN-16, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-45, "Intermittent Incident".

IPDM E/R

INFOID:0000000011740363

IPDM E/R: Description

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-28, "CAN Communication Signal Chart".

IPDM E/R : DTC Logic

INFOID:0000000011740364

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When IPDM E/R cannot communicate CAN communication signal continuously for 2 seconds or more	CAN communication system

IPDM E/R : Diagnosis Procedure

INFOID:0000000011740365

1. PERFORM SELF DIAGNOSTIC

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- Turn the ignition switch ON and wait for 2 seconds or more. Check "Self Diagnostic Result" of IPDM E/R.

Is "CAN COMM CIRCUIT" displayed?

>> Refer to <u>LAN-16</u>, "<u>Trouble Diagnosis Flow Chart</u>". >> Refer to <u>GI-45</u>, "<u>Intermittent Incident</u>". YES

NO

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

BCM

BCM: DTC Logic INFOID:0000000011740366

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT(CAN)	BCM detected internal CAN communication circuit malfunction.	BCM

BCM : Diagnosis Procedure

INFOID:0000000011740367

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-106, "Exploded View".

BCM: Special Repair Requirement

INFOID:0000000011740368

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit.

>> Work end.

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P1610 LOCK MODE

< DTC/CIRCUIT DIAGNOSIS >

P1610 LOCK MODE

Description INFOID:0000000011740369

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

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

DTC Logic

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" using CONSULT.

Is DTC detected?

YES >> Go to SEC-38, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740371

1. CHECK ENGINE START FUNCTION

- Perform the check for DTC except DTC P1610.
- Use CONSULT to erase DTC after fixing.
- 3. 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 (a total of 3 times).
- 7. Check that engine can start when registered Intelligent Key is inserted into key slot.

P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

P1611 ID DISCORD, IMMU-ECM

Description INFOID:0000000011740372

BCM performs the ID verification with ECM that allows the engine to start. Start the engine if the ID is successfully verified. 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:0000000011740373

DTC DETECTION LOGIC

NOTE:

- If DTC P1611 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".
- If DTC P1611 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-37, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON under the following conditions.

- Selector lever is in the P or N position
- Do not depress brake pedal

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

1.PERFORM INITIALIZATION

Perform initialization using CONSULT. Reregister all Intelligent Keys.

For initialization and registration of Intelligent Key.

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

- Replace BCM. Refer to BCS-106, "Removal and Installation".
- Perform initialization using CONSULT.

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-17, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (ECM): Description".
- Perform initialization using CONSULT.

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

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P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

YES >> INSPECTION END

NO >> GO TO 4.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

P1612 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

P1612 CHAIN OF ECM-IMMU

Description INFOID:0000000011740375

BCM performs ID verification with ECM that allows the engine to start. Start the engine if the ID is successfully verified. 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:0000000011740376

DTC DETECTION LOGIC

NOTE:

 If DTC P1612 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".

 If DTC P1612 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-37, "BCM: 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.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

1.REPLACE BCM

- Replace BCM. Refer to BCS-106, "Removal and Installation".
- Perform initialization using CONSULT.

Does the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE ECM

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

>> INSPECTION END

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P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

P1614 CHAIN OF IMMU-KEY

Description INFOID:0000000011740378

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

DTC Logic (INFOID:0000000011740379)

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" using CONSULT.

Is DTC detected?

YES >> Go to SEC-42, "Diagnosis Procedure".

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740380

1. INSPECTION START

Perform inspection in accordance with procedure that confirms DTC.

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.

Key slot Connector Terminal M22 2 Ground Battery voltage	(-	+)	(-)	Voltage (V) (Approx.)
Connector Terminal	Key	slot		
M22 2 Ground Battery voltage	Connector Terminal			, , ,
	M22	2	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key slot. Refer to SEC-206, "Removal and Installation".

NO >> GO TO 3.

P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

$\overline{3}$.check key slot 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
M22	2	M122	80	Existed

Check continuity between key slot harness connector and ground.

Key	/ slot		Continuity
Connector Terminal		Ground	Continuity
M22	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> Repair or replace harness.

f 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.

Check voltage between key slot harness connector and ground.

	+) v slot	(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
M22	3	Ground	Battery voltage

Is the inspection result normal?

>> Replace key slot. Refer to <u>SEC-206</u>, "Removal and Installation".

NO >> GO TO 6.

6.CHECK KEY SLOT COMMUNICATION SIGNAL CIRCUIT

Disconnect BCM connector.

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

Key slot		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M22	3	M122	81	Existed

Check continuity between key slot harness connector and ground.

Key	slot /		Continuity
Connector Terminal		Ground	Continuity
M22	3		Not existed

Is the inspection result normal?

>> Replace BCM. Refer to BCS-106, "Removal and Installation". YES

NO >> Repair or replace harness.

.CHECK KEY SLOT GROUND CIRCUIT

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P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

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

Key	slot		Continuity
Connector Terminal		Ground	Continuity
M22	7		Existed

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

P1615 DIFFRENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS > P1615 DIFFRENCE OF KEY Α Description INFOID:0000000011740381 Performs ID verification through BCM and Intelligent Key when push-button ignition switch is pressed. Prohibits the release of steering lock (models with steering lock unit) or start of engine when an unregistered ID of Intelligent Key is used. DTC Logic INFOID:0000000011740382 DTC DETECTION LOGIC D DTC No. Trouble diagnosis name DTC detecting condition Possible cause The ID verification results between BCM and Intelligent P1615 DIFFERENCE OF KEY Intelligent Key Key are NG. Registration is necessary. DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE F Press the push-button ignition switch. Check "Self-diagnostic result" using CONSULT. Is DTC detected? YES >> Go to SEC-45, "Diagnosis Procedure". >> INSPECTION END NO Diagnosis Procedure INFOID:0000000011740383 1. PERFORM INITIALIZATION Perform initialization using CONSULT. Reregister all Intelligent Keys. 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 **SEC** Replace Intelligent Kev. Perform initialization using CONSULT. Can the system be initialized and can the engine be started with reregistered Intelligent Key? YES >> INSPECTION END NO >> GO TO 3. 3.CHECK INTERMITTENT INCIDENT M Refer to GI-45, "Intermittent Incident". >> INSPECTION END N

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B2190 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

B2190 NATS ANTENNA AMP.

Description INFOID:0000000011740384

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

DTC Logic (INFOID:0000000011740385

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

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

Is DTC detected?

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

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740386

1. INSPECTION START

Perform inspection in accordance with the appropriate confirmation procedure DTC.

Which procedure confirms DTC?

DTC confirmation procedure 1>>GO TO 2.

DTC confirmation procedure 2>>GO TO 4.

2. CHECK KEY SLOT INPUT SIGNAL

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

Key slot Connector Terminal M22 2 Ground Battery voltage	(-	+)	(-)	Voltage (V) (Approx.)
Connector Terminal	Key	slot		
M22 2 Ground Battery voltage	Connector	Terminal		,
	M22	2	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key slot. Refer to SEC-206, "Removal and Installation".

NO >> GO TO 3.

B2190 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

$\overline{3}$.check key slot 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
M22	2	M122	80	Existed

Check continuity between key slot harness connector and ground.

Key	/ slot		Continuity
Connector Terminal		Ground	Continuity
M22	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> Repair or replace harness.

f 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.

Check voltage between key slot harness connector and ground.

(+) Key slot		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
M22	3	Ground	Battery voltage

Is the inspection result normal?

>> Replace key slot. Refer to <u>SEC-206</u>, "Removal and Installation".

NO >> GO TO 6.

6.CHECK KEY SLOT COMMUNICATION SIGNAL CIRCUIT

Disconnect BCM connector.

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

Key slot		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M22	3	M122	81	Existed

Check continuity between key slot harness connector and ground.

Key	/ slot		Continuity
Connector	Terminal	Ground	Continuity
M22	3		Not existed

Is the inspection result normal?

>> Replace BCM. Refer to BCS-106, "Removal and Installation". YES

NO >> Repair or replace harness.

.CHECK KEY SLOT GROUND CIRCUIT

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B2190 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

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

Key	v slot		Continuity
Connector Terminal		Ground	Continuity
M22	7		Existed

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

B2191 DIFFERENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

B2191 DIFFERENCE OF KEY

Description INFOID:0000000011740387

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

DTC Logic INFOID:0000000011740388

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

1. PERFORM INITIALIZATION

Perform initialization using CONSULT. Reregister all Intelligent Keys.

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 using CONSULT.

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

YES >> INSPECTION END

NO >> GO TO 3.

3.check intermittent incident

>> INSPECTION END

Refer to GI-45, "Intermittent Incident".

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B2192 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

B2192 ID DISCORD, IMMU-ECM

Description INFOID:0000000011740390

BCM performs ID verification with ECM that allows the engine to start. Start the engine if the ID is successfully verified. 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:000000001174039)

DTC DETECTION LOGIC

NOTE:

- If DTC B2192 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".
- If DTC B2192 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-37</u>, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON under the following conditions.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to SEC-50, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740392

1.PERFORM INITIALIZATION

Perform initialization using CONSULT. Reregister all Intelligent Keys.

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-106, "Removal and Installation".
- 2. Perform initialization using CONSULT.

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-17</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (ECM)</u>: <u>Description</u>".
- 2. Perform initialization using 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 >

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

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B2193 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

B2193 CHAIN OF ECM-IMMU

Description INFOID:000000011740393

BCM performs the ID verification with ECM that allows the engine to start. Start the engine if the ID is successfully verified. 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 SEC-35, "BCM: DTC Logic".
- If DTC B2193 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-37</u>, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON under the following conditions.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740395

1.REPLACE BCM

- 1. Replace BCM. Refer to BCS-106, "Removal and Installation".
- Perform initialization using CONSULT.

Does the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE ECM

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

B2195 ANTI-SCANNING

< DTC/CIRCUIT DIAGNOSIS >

B2195 ANTI-SCANNING

Description INFOID:0000000011740396

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:0000000011740397

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

PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON under the following conditions.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

>> INSPECTION END. NO

Diagnosis Procedure

1. CHECK SELF-DIAGNOSTIC RESULT-1

- Perform "Self-diagnostic result" of BCM using CONSULT.
- Erase DTC.
- Perform DTC Confirmation Procedure. Refer to SEC-53, "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-106, "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-53</u>, "<u>DTC Logic</u>".

Is DTC 2195 detected?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> INSPECTION END

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B2555 STOP LAMP

Description INFOID:000000011740399

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 1 second or more.
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740401

1. CHECK STOP LAMP SWITCH INPUT SIGNAL

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

	+) CM	(–)	Voltage (V) (Approx.)	
Connector	Connector Terminal		(11 - /	
M123	116	Ground	Battery voltage	

Is the inspection normal?

YES >> GO TO 2.

NO-1 >> Check 10 A fuse [No. 7, located in the fuse block (J/B)].

NO-2 >> Check harness for open or short between BCM and fuse.

2.check stop lamp switch power supply circuit

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

(Stop lan	+) np switch	(-)	Voltage (V) (Approx.)	
Connector	Terminal		(, 45, 21, 1)	
E110	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness for open or short to stop lamp switch.

3. CHECK STOP LAMP SWITCH CIRCUIT

B2555 STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

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

Stop lamp switch		ВСМ		Continuity
Connector	Terminal	Connector Terminal		Continuity
E110	2	M123	118	Existed

2. 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-55, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace stop lamp switch. Refer to <u>BR-22</u>, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK STOP LAMP SWITCH

Turn ignition switch OFF.

- 2. Disconnect stop lamp switch connector.
- 3. Check continuity between stop lamp switch terminals.

Stop lan	np switch	Condition		Continuity	
Terminal		Condition		Continuity	
1	1 2		Not depressed	Not existed	
ı	2	Brake pedal	Depressed	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace stop lamp switch. Refer to BR-22, "Exploded View".

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B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2556 PUSH-BUTTON IGNITION SWITCH

Description INFOID:0000000011740403

The switch 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-BUTTON IG- NITION SWITCH	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 100 seconds or more.
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740405

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		(друюл.)	
M50	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT

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

Push-button ignition switch		BCM		Continuity
Connector	Terminal	Connector Terminal		Continuity
M50	4	M122	89	Existed

3. Check continuity between push-button ignition switch harness connector and ground.

Push-button	ignition switch		Continuity
Connector Terminal		Ground	Continuity
M50 4			Not existed

Is the inspection result normal?

B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> Repair or replace harness.

3.check push-button ignition switch ground circuit

Check continuity between push-button ignition switch harness connector and ground.

Push-button	ignition switch		Continuity
Connector	Connector Terminal		Continuity
M50 1			Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK PUSH-BUTTON IGNITION SWITCH

Refer to SEC-57, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace push-button ignition switch. Refer to <u>SEC-207</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK PUSH-BUTTON IGNITION SWITCH

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

Push-button ignition switch		Condition		Continuity
Terminal				
1	1	Push-button ignition	Pressed	Existed
ı	switch	switch	Not pressed	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace push-button ignition switch. Refer to <u>SEC-207</u>, "Removal and Installation".

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INFOID:0000000011740406

B2557 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

B2557 VEHICLE SPEED

Description INFOID:000000011740407

BCM receives 2 vehicle speed signals via CAN communication. 1 signal is transmitted by the "unified meter and A/C amp.". Another signal is transmitted by "ABS actuator and electric unit (control unit.)". BCM compares both signals to detect the vehicle speed.

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2557 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-35</u>, "BCM: DTC Logic".
- If DTC B2557 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-37, "BCM: DTC Logic".

DTC No.	Self-diagnosis name	DTC detecting condition	Possible causes
B2557	VEHICLE SPEED	BCM detects the following difference between the vehicle speed signal from "unified meter and A/C amp." 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	

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 10 seconds or more.
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740409

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

Check "Self-diagnostic result" using CONSULT. Refer to BRC-109, "DTC Index".

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" using CONSULT. Refer to MWI-77, "DTC Index".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.check intermittent incident

Refer to GI-45, "Intermittent Incident".

B2560 STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

B2560 STARTER CONTROL RELAY

Description INFOID:0000000011740410

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 (models with steering lock unit).

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2560 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".
- If DTC B2560 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-37, "BCM: DTC Logic"</u>.

DTC No.	Self-diagnosis name	DTC detecting condition	Possible causes
B2560	STARTER CONTROL RELAY	BCM detects a discrepancy between the OFF request of starter control relay to IPDM E/R and the feedback. (The feedback is ON instead of OFF.)	

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON under the following conditions and wait 2 seconds or more.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-59</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK DTC WITH IPDM E/R

Check "Self-diagnostic result" using CONSULT. Refer to PCS-33, "DTC_Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".

2.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

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B2601 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

B2601 SHIFT POSITION

Description INFOID:000000011740413

BCM confirms the shift position with the following 4 signals.

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

DTC Logic INFOID:000000011740414

DTC DETECTION LOGIC

NOTE:

- If DTC B2601 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".
- If DTC B2601 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-37, "BCM: 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 2 seconds or more.
- Selector lever is in the P or N position
- Do not depress brake pedal
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to SEC-60, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740415

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		
M137	9	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.

B2601 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

A/T shift selector (detention switch)		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M137	9	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
M137	9		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-106, "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
Connector	Terminal	Connector	Terminal	Continuity
M137	10	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
M137	10		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
M137	10	E6	43	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-62, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace A/T shift selector. Refer to TM-326, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

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B2601 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

Component Inspection

INFOID:0000000011740416

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 (detention switch) Terminal		Condition		Continuity
				Continuity
9	10	Selector lever	P position	Not existed
9	TO Selector level		Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace A/T shift selector. Refer to TM-326, "Removal and Installation".

B2602 SHIFT POSITION

Description INFOID:0000000011740417

BCM confirms the shift position with the following 4 signals.

- Selector lever
- Transmission range switch
- P position signal from IPDM E/R (CAN)
- P 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 SEC-35, "BCM: DTC Logic".

 If DTC B2602 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-37</u>, "BCM: 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)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Start the engine under the following conditions and wait 10 seconds or more.
- Selector lever is in the P or N position
- Do not depress brake pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

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

Check "Self-diagnostic result" using CONSULT. Refer to BRC-109, "DTC Index".

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.
- 2. 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		(11 - 7	
M137	9	Ground	Battery voltage	

Is the inspection result normal?

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B2602 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

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)	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M137	9	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
M137	9		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-106, "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	A/T shift selector (detention switch)		BCM	
Connector	Terminal	Connector	Terminal	Continuity
M137	10	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
M137	10		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-64, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace A/T shift selector. Refer to TM-326, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011740420

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

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

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B2602 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

A/T shift selector	A/T shift selector (detention switch)		Condition	
Ter	minal	Condition		Continuity
9	10	Selector lever	P position	Not existed
9	10	Selector level	Other than above	Existed

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Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace A/T shift selector. Refer to TM-326, "Removal and Installation".

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B2603 SHIFT POSITION STATUS

< DTC/CIRCUIT DIAGNOSIS >

B2603 SHIFT POSITION STATUS

Description INFOID:0000000011740421

BCM confirms the shift position with the following 4 signals.

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

DTC Logic INFOID:000000011740422

DTC DETECTION LOGIC

NOTE:

- If DTC B2603 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".
- If DTC B2603 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-37, "BCM: DTC Logic".
- If DTC B2603 is displayed with DTC B2601, first perform the trouble diagnosis for DTC B2601. Refer to <u>SEC-60, "DTC Logic"</u>.

DTC No.	Self-diagnosis name	DTC detecting condition	Possible causes
B2603	SHIFT POSITION STATUS	BCM detects the following status for 500 ms or more when shift is in the P position, and ignition switch is in the ON position. Transmission range switch: 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) A/T shift selector (detention switch) TCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Start the engine under the following conditions and wait 1 second or more.
- Selector lever is in the P or N position
- Do not depress brake pedal
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to SEC-66, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740423

1. CHECK DTC WITH TCM

Check "Self-diagnostic result" using CONSULT.

Are any DTC detected?

YES >> Refer to TM-297, "DTC Index".

NO >> GO TO 2.

2.CHECK TRANSMISSION RANGE SWITCH CIRCUIT 1

- Turn ignition switch OFF.
- 2. Disconnect A/T assembly connector and BCM connector.
- 3. Check continuity between A/T assembly harness connector and BCM harness connector.

A/T as	A/T assembly		ВСМ	
Connector	Terminal	Connector	Terminal	Continuity
F51	9	M123	140	Existed

^{4.} Check continuity between A/T assembly harness connector and ground.

B2603 SHIFT POSITION STATUS

< DTC/CIRCUIT DIAGNOSIS >

A/T assembly			Continuity
Connector	Terminal	Ground	Continuity
F51	9		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TRANSMISSION RANGE SWITCH CIRCUIT 2

- Disconnect TCM connector.
- Check continuity between TCM harness connector and A/T assembly harness connector.

T	TCM		A/T assembly	
Connector	Terminal	Connector	Terminal	Continuity
F301	9	F51	9	Existed

Check continuity between TCM harness connector and ground.

TCM			Continuity
Connector	Terminal	Ground	Continuity
F301	9		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK A/T SHIFT SELECTOR POWER SUPPLY

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

(+) A/T shift selector (detention switch)		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M137	9	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

${f 5.}$ 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	A/T shift selector (detention switch)		ВСМ	
Connector	Terminal	Connector	Terminal	Continuity
M137	9	M122	96	Existed

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

A/T shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
M137	9		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> Repair or replace harness.

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B2603 SHIFT POSITION STATUS

< DTC/CIRCUIT DIAGNOSIS >

6. CHECK A/T SHIFT SELECTOR CIRCUIT

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

A/T shift selector	A/T shift selector (detention switch)		BCM	
Connector	Terminal	Connector	Terminal	Continuity
M137	10	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
M137	10		Not existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

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

Refer to SEC-62, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace A/T shift selector. Refer to TM-326, "Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

B2604 PNP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2604 PNP SWITCH

Description INFOID:0000000011740424

BCM confirms the shift position with the following 4 signals.

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2604 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".
- If DTC B2604 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-37</u>, "BCM: DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2604	PNP SWITCH	 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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Start the engine under the following conditions and wait 1 second or more.
- Selector lever is in the P or N position
- Do not depress brake pedal
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1.CHECK DTC WITH TCM

Check "Self-diagnostic result" using CONSULT.

Are any DTC detected?

YES >> Refer to TM-297, "DTC Index".

NO >> GO TO 2.

2. CHECK TRANSMISSION RANGE SWITCH CIRCUIT 1

- Turn ignition switch OFF.
- Disconnect A/T assembly connector and BCM connector.
- 3. Check continuity between A/T assembly harness connector and BCM harness connector.

A/T as	A/T assembly		всм	
Connector	Terminal	Connector Terminal		Continuity
F51	9	M123	140	Existed

4. Check continuity between A/T assembly harness connector and ground.

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B2604 PNP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

A/T assembly			Continuity
Connector	Terminal	Ground	Continuity
F51	9		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TRANSMISSION RANGE SWITCH CIRCUIT 2

- 1. Disconnect TCM connector.
- 2. Check continuity between TCM harness connector and A/T assembly harness connector.

Т	TCM		A/T assembly	
Connector	Terminal	Connector Terminal		Continuity
F301	9	F51	9	Existed

3. Check continuity between TCM harness connector and ground.

TCM			Continuity
Connector	Connector Terminal		Continuity
F301	9		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

B2605 PNP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2605 PNP SWITCH

Description INFOID:000000011740427

BCM confirms the shift position with the following 4 signals.

- Selector lever
- Transmission range switch
- P position signal from IPDM E/R (CAN)
- P 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 SEC-35, "BCM: DTC Logic".

 If DTC B2605 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-37</u>, "BCM: DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2605	PNP SWITCH	 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 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) TCM IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions and wait 1 second or more.
- Selector lever is in the P or N position
- Do not depress brake pedal
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to SEC-71, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.CHECK DTC WITH IPDM E/R

Check "Self-diagnostic result" using CONSULT. Refer to PCS-33, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK TRANSMISSION RANGE SWITCH CIRCUIT 1

- Turn ignition switch OFF.
- Disconnect A/T assembly connector and BCM connector.
- 3. Check continuity between A/T assembly harness connector and BCM harness connector.

A/T as	A/T assembly		ВСМ	
Connector	Terminal	Connector	Terminal	Continuity
F51	9	M123	140	Existed

4. Check continuity between A/T assembly harness connector and ground.

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B2605 PNP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

A/T assembly			Continuity
Connector	Connector Terminal		Continuity
F51	9		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK TRANSMISSION RANGE SWITCH CIRCUIT 2

- 1. Disconnect TCM connector.
- 2. Check continuity between TCM harness connector and A/T assembly harness connector.

T	TCM		A/T assembly	
Connector	Terminal	Connector Terminal		Continuity
F301	9	F51	9	Existed

3. Check continuity between TCM harness connector and ground.

TCM			Continuity
Connector	Terminal	Ground	Continuity
F301	9		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

B2608 STARTER RELAY

Description INFOID:0000000011740430

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 INFOID:0000000011740431

DTC DETECTION LOGIC

NOTE:

 If DTC B2608 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".

 If DTC B2608 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-37, "BCM: DTC Logic".

• If DTC B2608 is displayed with DTC B210D for IPDM E/R, first perform the trouble diagnosis for DTC B210D. Refer to SEC-87, "DTC Logic".

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

Turn ignition switch ON under the following conditions.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to SEC-73, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK BCM POWER SUPPLY CIRCUIT

Turn ignition switch ON.

Check voltage between BCM harness connector and ground.

(+) BCM		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11.5)
			Selector lever (A/T models)	N or P position	12
M121	M121 52 Ground	Ground		Other than above	0
IVITZT		Gloulia	Clutch pedal	Depressed	Battery voltage
			(M/T models)	Not depressed	0

Is the measurement value within the specification?

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

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B2608 STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.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.

IPDM E/R		В	Continuity	
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-37, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

B260F ENGINE STATUS < DTC/CIRCUIT DIAGNOSIS > **B260F ENGINE STATUS** Α Description INFOID:0000000011740433 BCM receives the engine status signal from ECM via CAN communication. В DTC Logic INFOID:0000000011740434 DTC DETECTION LOGIC NOTE: If DTC B260F is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM : DTC Logic". D If DTC B260F is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-37, "BCM: DTC Logic". Е DTC No. Trouble diagnosis name DTC detecting condition Possible cause INTERRUPTION OF ENGINE BCM has not yet received the engine status signal B260F **ECM** STATUS SIGNAL from ECM when ignition switch is in the ON position F DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE Turn ignition switch ON under the following conditions. A/T models Selector lever is in the P or N position Н Do not depress brake pedal M/T models Do not depress clutch pedal Check "Self-diagnostic result" using CONSULT. Is DTC detected? YES >> Go to SEC-75, "Diagnosis Procedure". >> INSPECTION END NO Diagnosis Procedure INFOID:0000000011740435 SEC

1.INSPECTION START

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

Touch "ERASE".

Perform DTC Confirmation Procedure.

See SEC-75, "DTC Logic".

Is the DTC B260F displayed again?

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

2.REPLACE ECM

Replace ECM. Refer to EC-17, "ADDITIONAL SERVICE WHEN REPLACING CONTROL Description".

>> INSPECTION END

3.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

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B26E8 CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B26E8 CLUTCH INTERLOCK SWITCH

Description INFOID:000000011740436

When clutch interlock switch turns ON, BCM detects that clutch pedal is being depressed and permits to start the engine.

DTC Logic (INFOID:0000000011740437

NOTE:

If DTC B26E8 is displayed with DTC B210F, first perform the trouble diagnosis for DTC B210F. Refer to <u>SEC-90, "DTC Logic"</u>.

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detection condition	Possible cause
B26E8	CLUTCH INTERLOCK SWITCH	Detects that ASCD cancel switch is in the ON position for 2 seconds or more while ignition switch and clutch interlock switch are ON.	Clutch interlock switch Harness or connector (Clutch interlock switch circuit open or shorted)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following condition.
- Shift lever is in the neutral position.
- Depress clutch pedal.
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740438

1. CHECK CLUTCH INTERLOCK SWITCH POWER SUPPLY

- 1. Turn ignition switch OFF.
- Disconnect clutch interlock switch connector.
- Check voltage between clutch interlock switch harness connector and ground.

(+) Clutch interlock switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
E111	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Check 10 A fuse [No. 9, located in the fuse block (J/B)]

NO-2 >> Check harness for open or short between clutch interlock switch and fuse.

2. CHECK CLUTCH INTERLOCK SWITCH SIGNAL

- Connect clutch interlock switch connector.
- Disconnect BCM connector.
- Check voltage between BCM harness connector and ground.

B26E8 CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

(+) BCM		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				, , ,
M123	114	Cround	Clutch podel	Depressed	Battery voltage
W123	114	Ground Clutch pedal		Not depressed	0

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> GO TO 3.

3.check clutch interlock switch signal circuit

Disconnect clutch interlock switch connector.

Check continuity between clutch interlock switch harness connector and BCM harness connector.

Clutch interlock switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E111	2	M123	114	Existed

3. Check continuity between clutch interlock switch harness connector and ground.

Clutch inte	rlock switch		Continuity
Connector	Terminal	Ground	Continuity
E111	2		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK CLUTCH INTERLOCK SWITCH

Refer to SEC-77, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace clutch interlock switch. Refer to CL-11, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK CLUTCH INTERLOCK SWITCH

- Turn ignition switch OFF.
- 2. Disconnect clutch interlock switch connector.
- Check continuity between clutch interlock switch terminals.

Clutch interlock switch		Condition		Continuity	
Terminal					
1	2	Clutch pedal	Depressed	Existed	
	Z Giuten pedai		Not depressed	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

>> Replace clutch interlock switch. Refer to CL-11, "Exploded View". NO

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B26EA KEY REGISTRATION

< DTC/CIRCUIT DIAGNOSIS >

B26EA KEY REGISTRATION

Description INFOID:0000000011740440

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

DTC Logic

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 operation Intelligent Key BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Perform initialization using CONSULT. Reregister all Intelligent Keys.
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740442

1. PERFORM INITIALIZATION

- 1. Perform initialization using CONSULT. Reregister all Intelligent Keys.
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> GO TO 2.

NO >> INSPECTION END

2. REPLACE INTELLIGENT KEY

- Replace Intelligent Key. Reregister all Intelligent Keys
- Perform initialization using CONSULT.
- 3. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> INSPECTION END

B2617 STARTER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

B2617 STARTER RELAY CIRCUIT

Description INFOID:0000000011740443

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 B2617 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".

• If DTC B2617 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-37</u>, "BCM: 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-88. "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2617	STARTER RELAY CIRCUIT	An immediate operation of starter relay is requested by BCM, but there is no response for more than 1 second.	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 1 second or more.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK STARTER RELAY

1. Turn ignition switch ON.

2. Check voltage between BCM harness connector and ground.

(+) BCM		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(pp.o/)
			Selector lever	N or P position	12
M121	52	Ground	(A/T models)	Other than above	0
	32	Ground	Clutch pedal	Depressed	Battery voltage
			(M/T models)	Not depressed	0

Is the measurement value within the specification.

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

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B2617 STARTER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.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.

IPDI	IPDM 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.

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-37, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

B2619 BCM

< DTC/CIRCUIT DIAGNOSIS >

B2619 BCM

Description INFOID:0000000011740446

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:0000000011740447

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2619	ВСМ	BCM detects a discrepancy 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

Turn ignition switch ON under the following conditions and wait 1 second or more.

- Selector lever is in the P or N position
- Do not depress brake pedal

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to SEC-81, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1.INSPECTION START

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

See SEC-81, "DTC Logic".

Is the DTC B2619 displayed again?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> INSPECTION END

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INFOID:0000000011740448

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B261E VEHICLE TYPE

< DTC/CIRCUIT DIAGNOSIS >

B261E VEHICLE TYPE

Description INFOID:000000011740449

There are two types of vehicles.

- HEV
- Conventional

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B261E is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "BCM: DTC Logic".
- If DTC B261E is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-37</u>, "BCM: 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

1. Turn ignition switch ON under the following conditions.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to SEC-82, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740451

1.INSPECTION START

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

See SEC-82, "DTC Logic".

Is the 1st trip DTC B261E displayed again?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> INSPECTION END

B261F ASCD CLUTCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B261F ASCD CLUTCH SWITCH

Description INFOID:0000000011740452

BCM judges that clutch pedal is operated by clutch interlock switch and clutch pedal position switch operation.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detection condition	Possible cause
B261F	ASCD CNCL/CLTH SW	When ignition switch is ON and vehicle speed is 40 km/h, BCM detects that clutch pedal position switch is ON for 10 seconds or more.	Harness or connector (ASCD clutch switch circuit open or shorted) Clutch pedal position switch BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Drive the vehicle at the vehicle speed of 40 km/h (24.8 MPH) or more wait 10 seconds or more.
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-83, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK CLUTCH PEDAL POSITION SWITCH POWER SUPPLY

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

(+) Clutch pedal position switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - /
E108	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Check 10 A fuse [No. 3, located in the fuse block (J/B)]

NO-2 >> Check harness for open or short between clutch pedal position switch and fuse.

2.CHECK CLUTCH PEDAL POSITION SWITCH SIGNAL

- Turn ignition switch OFF.
- 2. Connect clutch pedal position switch connector.
- 3. Disconnect BCM connector.
- Turn ignition switch ON.
- 5. Check voltage between BCM harness connector and ground.

(+)				Malkana (A.O.
ВСМ		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 - 7
M122	99	Ground	Clutch pedal	Depressed	0
IVITZZ	99	Ground	Cidicii pedai	Not depressed	Battery voltage

Is the inspection result normal?

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B261F ASCD CLUTCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> GO TO 3.

3.check clutch pedal position switch signal circuit

- Turn ignition switch OFF.
- 2. Disconnect clutch pedal position switch connector.
- 3. Check continuity between clutch pedal position switch harness connector and BCM harness connector.

Clutch pedal	position switch	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E108	2	M122	99	Existed

4. Check continuity between clutch pedal position switch harness connector and ground.

Clutch pedal	position switch		Continuity
Connector	Terminal	Ground	Continuity
E108	2		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK CLUTCH PEDAL POSITION SWITCH

Refer to SEC-84, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace clutch pedal position switch. Refer to <u>CL-11</u>, "<u>Exploded View</u>".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011740455

1. CHECK CLUTCH PEDAL POSITION SWITCH

- Turn ignition switch OFF.
- 2. Disconnect clutch pedal position switch connector.
- 3. Check continuity between clutch pedal position switch terminals.

Clutch pedal position switch		Condition		Continuity	
Terminal				Continuity	
1	1 2		Depressed	Not existed	
'	2	Clutch pedal	Not depressed	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace clutch pedal position switch. Refer to <u>CL-11</u>, "Exploded View".

B210B STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

B210B STARTER CONTROL RELAY

Description INFOID:0000000011740456

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 (models with steering lock unit). It is installed parallel to the starter relay.

DTC Logic INFOID:0000000011740457

DTC DETECTION LOGIC

NOTE:

If DTC B210B is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "IPDM E/R: 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 following conditions are met for about 1 second. • Starter control relay ON/OFF signal from BCM • Transmission range switch input signal	IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Turn the power supply position to start under the following conditions and wait 1 second or more.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to SEC-85, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. INSPECTION START

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

See SEC-85, "DTC Logic".

Is the DTC B210B displayed again?

YES >> Replace IPDM E/R. Refer PCS-37, "Removal and Installation".

>> INSPECTION END NO

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INFOID:0000000011740458

B210C STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

B210C STARTER CONTROL RELAY

Description INFOID:0000000011740459

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 (models with steering lock unit). It is installed parallel to the starter relay.

DTC Logic (INFOID:0000000011740460

DTC DETECTION LOGIC

NOTE:

- If DTC B210C is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "IPDM E/R: 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 following conditions are met for about 1 second. • Starter control relay ON/OFF signal from BCM • Transmission range switch input signal	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 1 second or more.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-86</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740461

1. INSPECTION START

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

See SEC-86, "DTC Logic".

Is the DTC B210C displayed again?

YES >> Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".

NO >> INSPECTION END

B210D STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

B210D STARTER RELAY

Description INFOID:0000000011740462

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 INFOID:0000000011740463

DTC DETECTION LOGIC

NOTE:

 If DTC B210D is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-35, "IPDM E/R: DTC Logic".

 If DTC B210D is displayed with DTC B2617, first perform the trouble diagnosis for DTC B2617. Refer to SEC-79, "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 following conditions are met for about 1 second. • Starter control relay ON/OFF signal from BCM • Transmission range switch input	IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON under the following conditions and wait for 1 second or more.

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to SEC-87, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. INSPECTION START

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

See SEC-87, "DTC Logic".

Is the DTC B210D displayed again?

YES >> Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".

>> INSPECTION END NO

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INFOID:0000000011740464

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B210E STARTER RELAY

Description INFOID:000000011740465

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 B210E is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-35</u>, "IPDM E/R: DTC Logic".
- If DTC B210E is displayed with DTC B2110 for IPDM E/R, first perform the trouble diagnosis for DTC B2110.
 Refer to <u>SEC-92</u>, "<u>DTC Logic</u>".
- 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 following conditions are met for about 1 second. • Starter control relay ON/OFF signal from BCM • Transmission range switch input	IPDM E/R Battery

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON under the following conditions and wait 1 second or more.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740467

1. CHECK STARTER RELAY OUTPUT SIGNAL

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

(+) BCM		(-)	Cor	dition	Voltage (V) (Approx.)
Connector	Terminal				(pp.o/)
	1 52	Cround	Selector lever (A/T models)	P or N position	12
M424				Other than above	0
M121		Ground	Clutch pedal	Depressed	Battery voltage
			(M/T models)	Not depressed	0

Is the inspection result normal?

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

B210E STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.check starter relay output signal circuit

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

ВСМ		IPDI	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M121	52	E6	46	Existed

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-37, "Removal and Installation".

NO >> Repair or replace harness.

${f 3.}$ CHECK STARTER RELAY POWER SUPPLY CIRCUIT

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

((+)		\/altaga /\/\	
IPD	M E/R	(–)	Voltage (V) (Approx.)	
Connector	Terminal		,	
E5	36	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".

NO >> Check harness for open or short between IPDM E/R and battery. Refer to PCS-28, "Wiring Diagram - IPDM E/R -".

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B210F PNP/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B210F PNP/CLUTCH INTERLOCK SWITCH

Description INFOID:0000000011740468

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

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

If DTC B210F is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-35</u>, "IPDM E/R: 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. • Transmission range switch input signal • Shift position signal from BCM (CAN)	Harness or connectors (Transmission range switch circuit is open or shorted) Transmission range switch IPDM E/R BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON under the following conditions and wait 1 second or more.
- Selector lever is in the P or N position
- Do not depress brake pedal
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740470

1. CHECK DTC WITH BCM

Check "Self-diagnostic result" using CONSULT. Refer to BCS-99, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK TRANSMISSION RANGE SWITCH SIGNAL

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

(+) IPDM E/R		(–)	Con	Condition	
Connector	Terminal				(Approx.)
	E5 30	Ground	Selector lever	N or P position	Battery voltage
Es			(A/T models)	Other than above	0
E3			Clutch pedal	Depressed	Battery voltage
			(M/T models)	Not depressed	0

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".

B210F PNP/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 3.

3.CHECK TRANSMISSION RANGE SWITCH SIGNAL CIRCUIT

Disconnect BCM connector.

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

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

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

IPDI	M E/R		Continuity
Connector	Terminal	Ground	Continuity
E 5	30		Not existed

Is the inspection result normal?

>> Replace BCM. Refer to BCS-106, "Removal and Installation". YES

NO >> Repair or replace harness.

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B2110 PNP/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B2110 PNP/CLUTCH INTERLOCK SWITCH

Description INFOID:0000000011740471

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

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

If DTC B2110 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-35</u>, "IPDM E/R: 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. • Transmission range switch input signal • Shift position signal from BCM (CAN)	Harness or connectors (Transmission range switch circuit is open or shorted) Transmission range switch IPDM E/R BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Turn the ignition switch ON under the following conditions and wait 1 second or more.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-92</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000011740473

1. CHECK DTC WITH BCM

Check "Self-diagnostic result" using CONSULT. Refer to BCS-99, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK TRANSMISSION RANGE SWITCH SIGNAL

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

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B2110 PNP/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

(+) IPDM E/R		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
	55		Selector lever	N or P position	Battery voltage
E 5		Ground	Ground (A/T models)	Other than above	0
E5 30	30	Ground	Clutch pedal	Depressed	Battery voltage
		(M/T models)	Not depressed	0	

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".

NO >> GO TO 3.

${f 3.}$ CHECK TRANSMISSION RANGE SWITCH SIGNAL CIRCUIT

1. Disconnect BCM connector.

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

IPDI	IPDM E/R		BCM	
Connector	Terminal	Connector Terminal		Continuity
E5	30	M123	140	Existed

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

IPDN	M E/R		Continuity	
Connector	Connector Terminal		Continuity	
E 5	30		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-106</u>, "Removal and Installation".

NO >> Repair or replace harness.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000011740474

1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.	
Pottory power cumply	К	
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

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

(+)	(-)	Voltage	
В	СМ		(Approx.)	
Connector	Terminal	Ground		
M118	1	Glound	Battery voltage	
M119	11		Ballery Vollage	

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.

В	СМ		Continuity	
Connector Terminal		Ground	Continuity	
M119	13		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

IPDM E/R

IPDM E/R : Diagnosis Procedure

INFOID:0000000011740475

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.
	С
Battery power supply	50
	51

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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 IPDM E/R harness connector and the ground.

(-	+)	(-) Voltage	
IPDN	/I 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 IPDM E/R harness connectors and the ground.

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

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

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KEY SLOT

Description INFOID:0000000011740476

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.

Component Function Check

INFOID:0000000011740477

1. CHECK FUNCTION

- 1. Remove Intelligent Key battery from Intelligent Key.
- Change power supply position when Intelligent Key insert into key slot and then press push-button ignition switch.

Is the inspection result normal?

YES >> Key slot function is normal.

NO >> Go to SEC-96, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011740478

1. CHECK KEY SLOT POWER SUPPLY CIRCUIT

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

(- Key	<u>, </u>	(-)	Voltage (V) (Approx.)
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
M22	1	Ground	Pottory voltage
IVIZZ	5	Giound	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Check 10 A fuse [No. 6 and 9 located in the fuse block (J/B)].

NO-2 >> Check harness for open or short between key slot and fuse.

2.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key s	slot		Continuity	
Connector	Connector Terminal		Continuity	
M22	7		Existed	

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>SEC-206, "Removal and Installation"</u>.

NO >> Repair or replace harness.

KEY SLOT INDICATOR

Description INFOID:0000000011740479

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:0000000011740480

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1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Kev slot function is normal.

NO >> Refer to SEC-97, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011740481

1. CHECK KEY SLOT INDICATOR OUTPUT SIGNAL

Check voltage between key slot harness connector and ground.

Key slot (+)				Key slot	Voltage (V) (Approx.)	
		(–)	Condition	illumination		
Connector	Terminal					
Maa	M22 6 Ground –	Insert Intelligent Key into key slot	OFF	Battery voltage		
IVIZZ	6 Ground		Remove Intelligent Key from key slot	ON	0	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK KEY SLOT POWER SUPPLY CIRCUIT

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

Key	slot		Voltage (V)	
(+)		(–)	Voltage (V) (Approx.)	
Connector	Terminal		, ,	
M22	1	Ground	Pottory voltage	
IVIZZ	5	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Check 10 A fuse [No. 6 and 9 located in the fuse block (J/B)].

NO-2 >> Check harness for open or short between key slot and fuse.

3.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key	slot		Continuity	
Connector	Terminal	Ground	Continuity	
M22	7		Existed	

Is the inspection result normal?

YES >> GO TO 4. **SEC**

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KEY SLOT INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace key slot ground circuit.

4. CHECK KEY SLOT CIRCUIT

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

ВСМ		Ke	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M122	92	M22	6	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M122	92		Not existed

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>SEC-206</u>, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

HOOD SWITCH

Description INFOID:0000000011740482

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 the "Data Monitor" mode using CONSULT.
- 2. Check the hood switch signal under the following condition.

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

Is the indication normal?

YES >> Hood switch is normal.

NO >> Go to SEC-99. "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK HOOD SWITCH SIGNAL

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

	(+)		Voltago (V)	
Hood switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal			
E30	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK HOOD SWITCH CIRCUIT

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

IPDI	IPDM E/R		Hood switch	
Connector	Terminal	Connector Terminal		Continuity
E9	104	E30	2	Existed

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

IPDM	1 E/R		Continuity
Connector	Connector Terminal		Continuity
E9	104		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK HOOD SWITCH GROUND CIRCUIT

Check continuity between hood switch harness connector and ground.

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HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Hoo	d switch		Continuity	
Connector	Connector Terminal		Continuity	
E30	1		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK HOOD SWITCH

Refer to SEC-100, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace hood lock (RH). Refer to <u>DLK-187, "Removal and Installation"</u> (Coupe models) or <u>DLK-391, "Removal and Installation"</u> (Roadster models).

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011740485

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	
Terminal					
1	2	Hood switch	Pressed	Not existed	
ı	2 Hood Switch		Released	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO

>> Replace hood lock (RH). Refer to <u>DLK-187, "Removal and Installation"</u> (Coupe models) or <u>DLK-391, "Removal and Installation"</u> (Roadster models).

HORN FUNCTION

Description INFOID:0000000011740486

Performs answer-back for each operation with horn.

Component Function Check

1. CHECK FUNCTION

- Use CONSULT to perform Active Test ("HORN").
- Touch "ON" to check that it works normally.

Is the operation normal?

YES >> Horn function is OK.

>> Refer to SEC-101, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK HORN SWITCH

Check horn function with horn switch

Do the horns sound?

YES >> GO TO 2.

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

2.check horn relay power supply

- Turn ignition switch ON.
- 2. Perform "ACTIVE TEST" ("HORN") using CONSULT.
- Check voltage between malfunctioning horn relay harness connector and ground.

	(+)			Test item ON Other than above		Valtage (V)		V 16 00
	Horn relay		(-)			Voltage (V) (Approx.)		
Con	nector	Terminal						
Low	E11	1	Ground			Battery voltage \rightarrow 0 \rightarrow Battery voltage		
High	E18	3	Giodila			Battery voltage		

Is the inspection result normal?

>> GO TO 4. YES

>> GO TO 3. NO

3.CHECK HORN RELAY CIRCUIT

- Turn ignition switch OFF.
- Disconnect IPDM E/R connector and horn relay.
- Check continuity between IPDM E/R harness connector and malfunctioning horn relay terminal connector.

IPD	IPDM E/R		Horn relay		
Connector	Terminal	Connector	Terminal	Continuity	
E6	44	E11	1	Existed	
LO	45	E18	3	LXISIGU	

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

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E6	44	Giodila	Not existed
	45	1	Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".

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HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

Is the inspection result normal?

>> INSPECTION END

SECURITY INDICATOR LAMP

< DTC/CIRCUIT DIAGNOSIS >

SECURITY INDICATOR LAMP

Description INFOID:0000000011740489

- Security indicator lamp is located on combination meter.
- · NVIS (Nissan Vehicle Immobilizer System) and vehicle security system conditions are indicated by blink or illumination of security indicator lamp.

Component Function Check

1. CHECK FUNCTION

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

Test item		Description	
THEFT IND	ON	Security indicator lamp	Illuminates
	OFF		Does not illuminate

Is the inspection result normal?

YES >> INSPECTION END

NO >> Go to SEC-103, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect combination meter connector.
- Check voltage between combination meter harness connector and ground.

(+) Combination meter		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
M53	1	Ground	Battery voltage

Is the inspection result normal?

>> GO TO 2. YES

NO-1 >> Check 10 A fuse [No. 11 (for Mexico) or No. 6 (except for Mexico), located in the fuse block (J/B)].

NO-2 >> Check harness for open or short between combination meter and fuse.

2.CHECK SECURITY INDICATOR LAMP SIGNAL

- Connect combination meter connector.
- Disconnect BCM connector.
- Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
BCM			
Connector	Terminal		(11 /
M123	141	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-106, "Removal and Installation".

NO >> GO TO 3.

3.CHECK COMBINATION METER CIRCUIT

- Disconnect combination meter connector.
- Check continuity between combination meter harness connector and BCM harness connector.

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SECURITY INDICATOR LAMP

< DTC/CIRCUIT DIAGNOSIS >

Combina	tion meter	В	CM	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M54	28	M123	141	Existed	

3. Check continuity between combination meter harness connector and ground.

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
M54	28		Not existed

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-103, "Removal and Installation".

NO >> Repair or replace harness.

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

KEY WARNING LAMP

Description INFOID:0000000011740492

Performs operation method guide and warning together with buzzer.

Component Function Check

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1. CHECK FUNCTION

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

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

Is the inspection result normal?

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

NO >> Refer to <u>SEC-105</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000011740494

1. CHECK KEY WARNING LAMP

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Refer to <u>DLK-125, "Diagnosis Procedure"</u> (Coupe models) or <u>DLK-328, "Diagnosis Procedure"</u> (Roadster models).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

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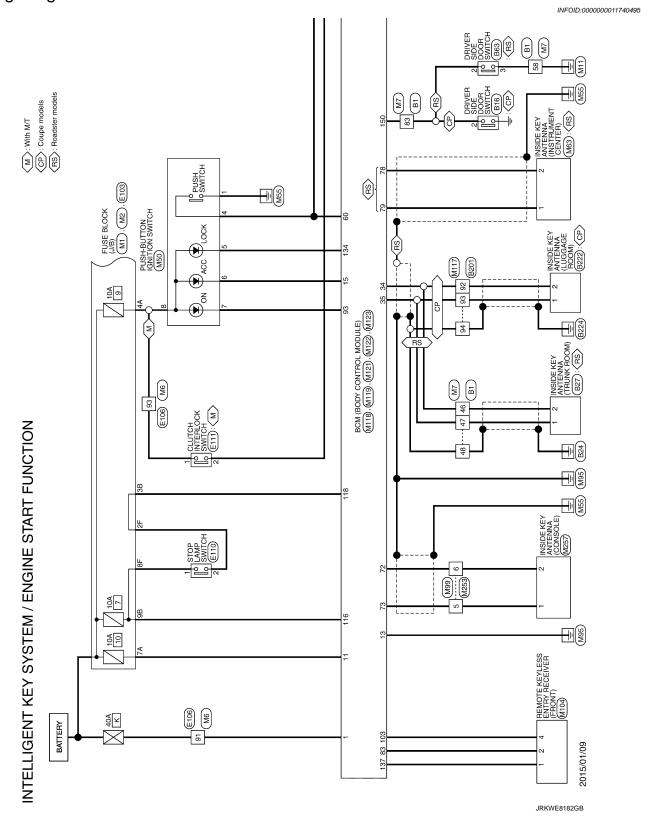
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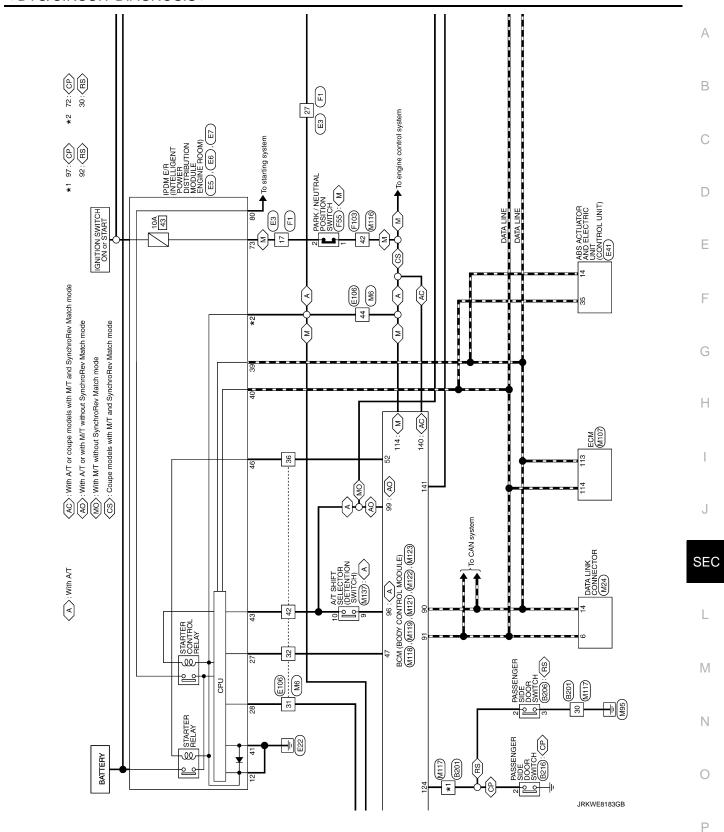
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INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

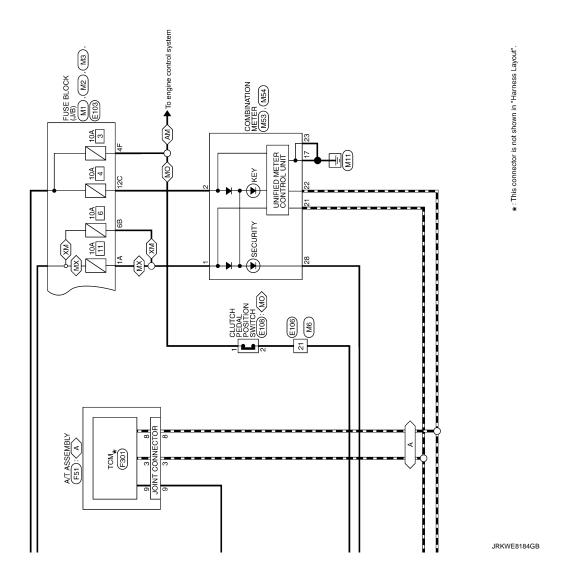
Wiring Diagram - INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION -



INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION



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No. Miles (NY) (NY) (NY) (NY) (NY) (NY) (NY) (NY)	C
Connector Name Connector Type Terminal Color Name 117 C 16 120 C 16 121 C 16 121 C 16 122 C 16 123 C 16 124 C 16 125 C 16 126 C 16 127 C 16 128 C 16 129 C 16 121 C 16 121 C 16 121 C 16 122 C 16 123 C 16 124 C 16 125 C 16 126 C 16 127 C 16 128 C 16 129 C 16 120 C	F
(1/8) 34	ı
NATE BLOC INSIDENCE IN THE BLOCK INSIDENCE IN THE BLOCK INSIDENCE IN THE BLOCK IN THE BLOCK INSIDENCE IN THE BLOCK I	
Terminal Color of Nore Connector Type Connector Nore SA L L L SA L L L L	SE
ENGINE START final fina	L
NATE LIGENT KEY SYSTEM / ENGINE 10	N
NATELLIGEN 12 15 15 15 15 15 15 15	N
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Connector No. Cloude models Clo	MINITO WWITE MINI	4 BR		H	v 7	. d 8			Connector No. M53	Connector Name COMBINATION METER		Connector Type TH24FW-NH				1 2 3 4 5 6 9 10 12	15 16 17 18 10 20	≥		ŀ	le l	No. Wire	1 V BATTERY POWER SUPPLY	2 0 IGNITION SIGNAL	3 L VEHICLE SPEED SIGNAL (2-PULSE)	4 V VEHICLE SPEED SIGNAL (8-PULSE) [For Mexico]	4 Y VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico]	5 B ILLUMINATION CONTROL SIGNAL	6 R ROOF STATUS SIGNAL	9 BR COMMUNICATION SIGNAL (METER->TRIPLE METER)	10 L COMMUNICATION SIGNAL (TRIPLE METER->METER)	12 G S-MODE SWITCH SIGNAL	15 L ACC POWER SUPPLY	16 R AIRBAGSIGNAL	17 B GROUND	18 V AMBIENT SENSOR SIGNAL	19 G A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL	20 GR AMBIENT SENSOR GROUND	21 L CAN·H	Ь	8	24 Y FUEL LEVEL SENSOR GROUND							Γ
100 100	MINE TOWINE MINE TOWING	- [Coupe models]	- [Boadster models]	(managed)	1			M24	DATALINK CONNECTOR		BD16FW			┖]	7 5 7	000		•			- [Coupe models]	- [Roadster models]						- [Roadster models]	- [Coupe models]					MSO	HOTIMS MOITING I NOTITION SWITCH		TK08FBR		[1 2 3							
	MATERY SYSTEM / ENGINE START FUNCTION	-	+	+	╀			Connector No.	Connector Name		Connector Type	[B	Ě	ė.				- 1		+	-		L	L	7 9	۷ /	H	L	11 Y	H	16 Y			Connector No.	Connector Name		Connector Type	4	B	¥ .	ĊŢ.					_		1 8
NOTION NOTION SHIELD SHIELD	Color Of Color Of					- [Roadster models]	- [Coupe models]	- [Roadster models]	- [Coupe models]	- [Roadster models]	- [Coupe models]	,		- [Coupe models]	- [Roadster models]	-					•															•			•	-									
	Color Of Color Of	NCTION	+	+	╀	Н	Н	4	_			H	L	7	Н	4		┪	┪	4		-	Н	H	H	H	\vdash	H	H	_	H	L	H		Н		Ц		Н	Н	7	H	H	L	H	┞	7	H	7 96
	Color of Color of	NT KEY SYSTEM / ENGINE ST		WIRE TO WIRE	TH80MW-CS16-TM4		10 E		2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000		12			incommendation of the control of the																							•	,					*					
NATE OF SYSTEM / ENGINE ST. NATE OF ST. THEOMOGRAPH CASE THAT SIGNAL NATE (Specification) Signal Name (Specification)		INTELLIGEN Connector No.		ector Name	Connector Type		•	٤	1					leu	No. Wire	BR	_	3 16	\dashv	۸ 9	97 '	8 SB	9 GR	11 Y	12 V		14 ^	┢	L		H	L					. I			Н	H	H	H	L	H	L		H	

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odek)	В
WIRE TO WIRE TREASMAN MISSIN Signal Name (Specification) Signal Name (Specification) - (Coupe models) - (Roadster models)	С
Connector No. M Connector Name W Connector Type 1	D
	Е
RECHARGON CERTON SERVING Signal Mame Specification Signal Mame Specificat	F
	G
Connector No. Connector No. Connector No. Terminal Co. No. 100 100 100 100 100 100 111 112 112 123 125 126 127 128 128 128 128 128 128 128	Н
1	J
	SEC
Connector Name Conn	L
MASA THEFTWAN METER THISTWAN MATER TO SAL 335 ST 37 SAL	M
INTELLIGENT	Ν
	0
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INTEL	LIGEN	NTELLIGENT KEY SYSTEM / ENGINE START FUNCTION	RT FUN	CTION		:		;	-	
Connector No	r No.	M117	-67	>		Connector No.	M119	99	4	BACK DOOR/TRUNK ROOM LAMP SW
Connector Name	r Name	WIRE TO WIRE	89 69	۵		Connector Name	BCM (BODY CONTROL MODULE)	29	GR BACK DOOR/TRU	BACK DOOR/TRUNK LID OPENER SW
Connector Type	r Type	TH80MW-CS16-TM4	70	_		Connector Type	NS16FW-CS			
4	_		7.1	В		4		Connector No.	M122	
B		200	72	В		B		Connector Name	BCM (BODY CONTROL MODELLE)	AODULE
E S		4	73	8		Š	45 7		П	
	_		74]	Connector Type	e TH40FB-NH	
			75	8			11 13 14 15 17 18 19	q.		
			9 5	n a				ALT.		
			92	و	[Coupe models]			H.S.		7
Terminal	Color Of		92	91	- [Roadster models]	Terminal Color Of			70 00 /8 90 /6 18	81 89 78 78 77 75 74 73 72
No.		Signal Name [Specification]	68	ď	- [Coupe models]		Signal Name [Specification]		11 11 11 11 11 11 11 11 11 11 11 11 11	10 10 35 55 10 10 10 10 10 10 10 10 10 10 10 10 10
2	97		93	^	- [Roadster models]	4 R	INTERIOR ROOM LAMP POWER SUPPLY			
9	8		94	9	- [Roadster models]	. S	PASSENGER DOOR UNLOCK OUTPUT			
4	Α		94	SHIELD	- [Coupe models]	8	ALL DOOR, FUEL LID LOCK OUTPUT	Terminal Co	Color Of	900
9	SHIELD		95	97	- [Roadster models]	9	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	No.	Wire Signal Name	(specification)
7	97	- [Coupe models]	95	SB	- [Coupe models]	11 BR	BAT (FUSE)	72	L ROON	ROOM ANT 2-
7	>	- [Roadster models]	97	91	- [Coupe models]	13 B	GROUND	73	P ROON	ROOM ANT 2+
00	æ	- [Coupe models]	97	>	- [Roadster models]	14 R	PUSH-BUTTON IGNITION SWILL GND	74	SB PASSENGE	PASSENGER DOOR ANT-
8	97	- [Roadster models]	86	۸	- [Coupe models]	15 Y	ACCIND	75	BR PASSENGE	PASSENGER DOOR ANT+
6	٨		86	4/B	- [Roadster models]	17 W	TURN SIGNAL RH (FRONT, SIDE)	9/	V DRIVERI	DRIVER DOOR ANT-
11	ч		66	9		18 0	TURN SIGNAL LH (FRONT, SIDE)	7.7	LG DRIVER I	DRIVER DOOR ANT+
12	9		100	BR	- [Coupe models]	19 P	ROOM LAMP TIMER CONTROL	78	L ROON	ROOM ANT 1-
22	ч		100	٨	- [Roadster models]			79	R ROON	ROOM ANT 1+
30	8	-						80	GR NATS A	NATS ANT AMP.
40	0					Connector No.	M121	81	W NATS A	NATS ANT AMP.
41	>		Connector No.		M118	Connector Name	BCM (BODY CONTROL MODILLE)	82	R IGN RELAY	IGN RELAY (F/B) CONT
42	9		Connect	Connector Name	BCM (BODY CONTROL MODILIE)		(2000)	83	GR KYLS ENT RECEIV	KYLS ENT RECEIVER (FRONT) COMM
43	_	,		1		Connector Type	TH40FGY-NH	87	BR COMBIS	COMBI SW INPUT 5
44	SB		Connect	Connector Type	M03FB-LC	4		88	V COMBIS	COMBI SW INPUT 3
51	œ	,	ģ			E		90	J.	CAN-L
52	g		B			Ě		91	0	CAN-H
53	SHIELD		Ě		Ī	113	25 88 88	95	LG KEYS	KEY SLOT ILL
54	97		21		13		55	93	۷ ا	ON IND
52	۸				1			98	O ACC RE	ACC RELAY CONT
26	SHIELD				7			96	Y A/T SHIFT SELECT	A/T SHIFT SELECTOR POWER SUPPLY
23	9	- [Coupe models]]			66	R SHIFT P/CLUTC	SHIFT P/CLUTCH PEDAL POS SW
57	Ь	- [Roadster models]				Terminal Color Of	Signal Nama [Specification]	100	GR PASSENGER DC	PASSENGER DOOR REQUEST SW
28	1	- [Roadster models]	Terminal	al Color Of	Signal Name (Specification)	No. Wire	OBJECT CONCERNOUS	101	Y DRIVER DOC	DRIVER DOOR REQUEST SW
58	œ	- [Coupe models]	No.	Wire	financia de la constanta de la	34 G	LUGGAGE/TRUNK ROOM ANT-	102	O BLOWER FAN M	BLOWER FAN MOTOR RELAY CONT
59	8			W	BAT (F/L)	35 R	LUGGAGE/TRUNK ROOM ANT+	103	LG KYLS ENT RECEIVER	KYLS ENT RECEIVER (FRONT) PWR SUPPLY
09	Μ		2	W	POWER WINDOW POWER SUPPLY (BAT)	\dashv	REAR BUMPER ANT-	107	FIG COMBI S	COMBI SW INPUT 1
61	GR		3	>	POWER WINDOW POWER SUPPLY (IGN)	39 W	REAR BUMPER ANT+	108	R COMBIS	COMBI SW INPUT 4
62	8					47 V	IGN RELAY (IPDM E/R) CONT	109	Y COMBIS	COMBI SW INPUT 2
63	>					H	STARTER RELAY CONT	110	P HAZ	HAZARD SW
64	٦						PUSH SW			
9	9					\dashv	BACK DOOR/TRUNK LID DOOR REQUEST SW			
99	٥					64 G	I-KEY WARN BUZZER (ENG ROOM)			

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INTE	LIGE	INTELLIGENT KEY SYSTEM / ENGINE START FUNCTION	RT FUNC	CTION			
Connector No	r No.	M123	Connector No	r No.	M137	9 6	
Connector Name	r Name	BCM (BODY CONTROL MODULE)	Connector Name	r Name	A/T SHIFT SELECTOR	10 R	
Connector Type	r Type	TH40FG-NH	Connector Type	r Type	TK10FW		
Œ			Œ				
HS			H.S.		112 3 4	Connector Name INSIDE KEY A Connector Type RK02EGY	INSIDE KEY AN IENNA (CONSOLE)
	_				5 6 7 8 9 10	1	
Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]		
113	0	OPTICAL SENSOR		Μ			
114	ď	CLUTCH INTERLOCK SW	2	>			
115	0		3	٦		ial Color Of	Signal Name [Specification]
116	SB	STOP LAMP SW 1	4	8		au au	
118	ع ۵	STOP LAMP SW 2	ı,	ء ق		1 0	- [Roadster models]
121	8 2	KEY SLOT SW	^	< >		2 1	- [Coupe models]
123	*	IGN F/B		Ь.	,	2 R	- [Roadster models]
124	97	PASSENGER DOOR SW	6	>			
129	0	TRUNK LID OPENER CANCEL SW	10	æ			
130	٦	REAR DEFOGGER SW					
132	>	P/W SW & SOFT TOP C/U COMM [Roadster models]					
132	Υ	POWER WINDOW SW COMM [Coupe models]	Connector No.	r No.	M253		
133	ß	PUSH BUTTON IGNITION SWILL POWER	Connector Name	r Name	WIRE TO WIBE		
134	g.	TOCK IND					
137	۵	RECEIVER & SENSOR GND	Connector Type	r Type	TH12FW-NH		
138	> .	RECEIVER & SENSOR POWER SUPPLY	q]				
139	- (TIRE PRESS RECEIV COMM	手		<u> </u>		
141	>	SECURITY INDICATOR	H.S.		,		
142	٥	COMBISW OUTPUTS			0 2 4 3 2 1		
143	۵	COMBI SW OUTPUT 1			12 11 10 9 8 7		
144	9	COMBI SW OUTPUT 2					
145	-	COMBI SW OUTPUT 3					
146	SB	COMBI SW OUTPUT 4	Terminal	Color Of	Contract Countries		
150	GR	DRIVER DOOR SW	No.	Wire	officer regime [absenticement]		
151	9	REAR WINDOW DEFOGGER RELAY CONT	1	SHIELD			
			2	8			
			~	æ			
			4	Μ			
			2	9	- [Roadster models]		
			2	Ь	- [Coupe models]		
			9	_	- [Coupe models]		
			9	æ	- [Roadster models]		
			7	SHIELD	,		
			∞	SHIELD			

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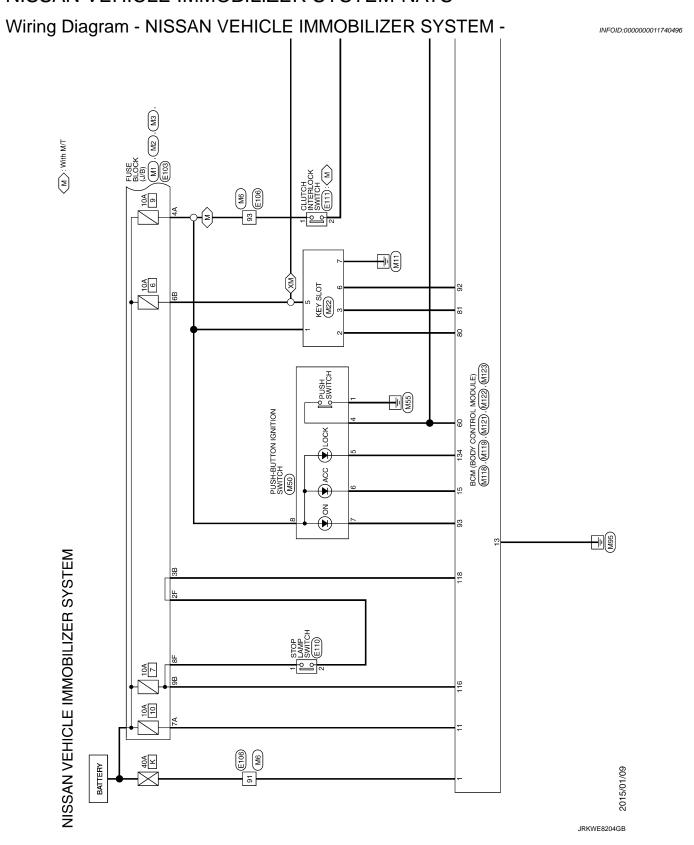
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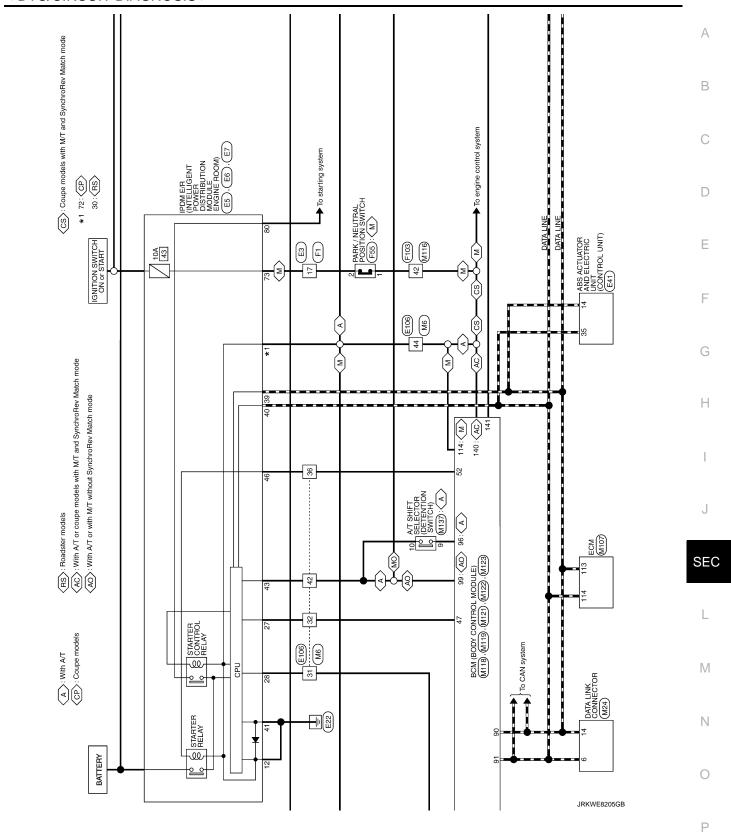
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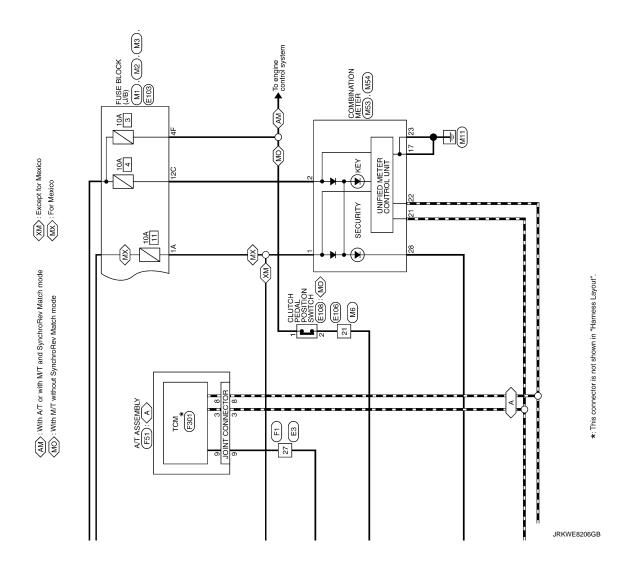
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< DTC/CIRCUIT DIAGNOSIS >

72 CR	
Connector No. Ed.	
199 P	
MISSAN VEHICLE IMMOBILIZER SYSTEM Connector Name Estimated to	
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	Т	Connector Name FUSE BLOCK (J/B)	Τ	Connector Type NSUB+W-IVIZ	þ		34		84 74 64 54 44			Terminal Color Of	Signal Name (Specification)	allo	_	2A G .	3A L	4A P	SA L	, Y V9	7. RP	$^{+}$			A	Ι	Connector Name FUSE BLOCK (J/B)		Connector Type NS10FW-CS	4			4838	ç	96 90 98 96				Terminal Color Of		t	+	4B G	0 85	┡	88 R	- 8S 86	ł																			
	+	+	+	+	4	43 P -	44 L	45 Y	46 V -		Connector No. F301		Connector Name TCM	T	Connector Type SP10FG	4				6 4 6 7 1	// u a z a //				le l	,	+	80	м	0	5 G GROUND		H	· a	¥6 ;	9 Y STARTER RELAY	W/B																														
	S B GROUND		+		GR	10 B GROUND			Connector No. F55	HOTIMS NOTEING LAST INV AGAIN	Connector Type RK02FB	1	₫.	全が	₩		((2 1))				Torminal Color Of		+	• · ·	7 M 7			Connector No. F103	Connector Name WIRE TO WIRE		Connector Type TK36FW-NS10	1		至									No. Wire	2 6	3 W	4 R	8	-		- n	+	19 0 -	20 Y -	28 B .													
⋖	20 0	+	4	+	24 LG .		27 GR -	4	4	30 R	L	╀	+				38 W	39 Y	40 6	t	t	t	t	45 28	46 SHIELD	+	+	┥		-	H			Connector No	Τ	Connector Name A/T ASSEMBLY	П	Connector Type RK10FG-DGY	1	√	<		ME 1/ 3	1 7 0 4 0	(9 2 8 6 0 N				Signal Name [Specification]	_	>		ı	4 V K-LINE													
																																																												,	JR	K۷	VE	82	090	GB	

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Connector No. M50	Connector Name PUSH-BUTTON IGNITION SWITCH	Connector Type TK08FBR				4 5 6 7 8			Terminal Color Of		1 8	2 R .	3 6	+	S GR	+	$^{+}$			Connector No. M53	Ι		Connector Type TH24FW-NH	1]	123456	15 16 17 18 19 20 21 22 23 24			Terminal Color Of Signal Name (Specification)	t	2 O IGNITION SIGNAL	3 L VEHICLE SPEED SIGNAL (2-PULSE)	4 V VEHICLE SPEED SIGNAL (8-PULSE) [For Mexico]	4 Y VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico]	5 B ILLUMINATION CONTROL SIGNAL	6 R ROOF STATUS SIGNAL	BR	L COMMUN	.S	,	16 R AIR BAG SIGNAL
Connector No. M22	و ا	Connector Type TH12FW-NH			123 56) :			Terminal Color Of		1 P BAT		3 W DATA	· ·		+	LI R NET SWITCH SIGNAL		Connector No M24	Γ	Connector Name DATA LINK CONNECTOR	Connector Type BD16FW			11 14 16		3 4 5 6 7 8			lar	No. Wire	3 >	4 B	8 5	. 9	7 Y	9 8	11 LG - [Roadster models]	11 Y - [Coupe models]	14 P	16 Y -		
20 GR -	Н	31 BK -	36 S8 -	F	Н	+	+	42 R	+) œ	45 0	Н	┪	58 SHIELD -	+	+	+	81 GK :	+	╁	85 BR	H	87 6	Н	91 W	+	× × ×	d 96	0 86	Н	100 R												
NISSAN VEHICLE IMMOBILIZER SYSTEM Connector No. M3	Connector Name FUSE BLOCK (J/B)	Connector Type NS12FW-CS			╗	120 110 100 90 70 60			Terminal Color Of		1 000	Н	4	6C R -	89	9C 0 - [Roadster models]	×		Connector No	I	Connector Name WIRE TO WIRE	Connector Type TH80MW-CS16-TM4				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3) lei	No. Wire		4 1	7 B -	d 8	8 6	11 GR -	12 R .	13 L	\dashv	4	16 W -	

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< DTC/CIRCUIT DIAGNOSIS >

Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] POWER WINDOW POWER SUPPLY (BAT) POWER RODAL LAMP POWER SUPPLY ALL DOOR, STATE LID LID COCK OUTPUT ALL DOOR, STATE LID	В
Connector Name Connector Name Connector Name 1	D
WIRE TO WIRE TESTING TO WIRE Signal Name [Specification] - [Coupe models] - [Coupe models] - [Coupe models]	E
Color No. M116 Color No.	G
	Н
ECM GROUND Signal Name Speedfeation ACCELERATOR PERMA POSTTON SINGOR 2 SIGNAL POWER SUPPLY SIGNAL POWER SUP	J
Connector No. Connector Name Connector Name Connector Type 11 11 12 13 14 15 15 15 15 15 15 15	SEC
ZER SYSTEM B CONTROL RECOGNING SIGNAL GROUND R GROUND	L
ACALDAMINAL SENSOR ACALDAMINAL MODES SHIFT ACALDAMINAL MODES SHIFT ACALDAMINAL MODES SHIFT ACALDAMINAL MODES SHIPT A	M
NISSAN VEHICLE IMMOBILIZER SYSTEM 17 8	Ν
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UNITED TITLE	Р

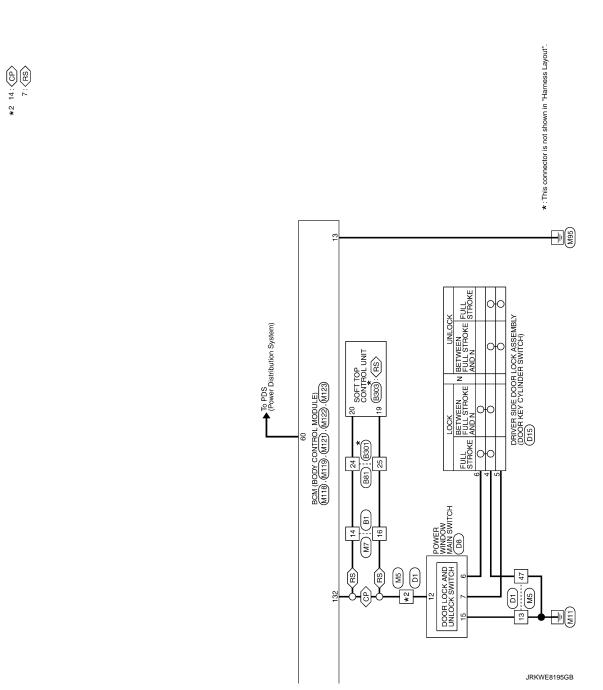
Revision: 2015 June SEC-125 2016 370Z

NISS/	N VE	NISSAN VEHICLE IMMOBILIZER SYSTEM							
Connector No.	r No.	M121	81	Μ	NATS ANT AMP.	134	GR	TOCK IND	
Connector Name	- Name	BCM (RODY CONTROL MODILLE)	82	œ	IGN RELAY (F/B) CONT	137	۵	RECEIVER &SENSOR GND	П
			83	GR	KYLS ENT RECEIVER (FRONT) COMM	138	>	RECEIVER & SENSOR POWER SUPPLY	
Connector Type	r Type	TH40FGY-NH	87	BR	COMBI SW INPUT 5	139	_	TIRE PRESS RECEIV COMM	П
١			88	>	COMBI SW INPUT 3	140	9	NOITISON N/A	Г
B			06	Ь	CAN-L	141	*	SECURITY INDICATOR	
ŧ		[91	_	CAN-H	142	0	COMBI SW OUTPUT 5	Г
2		1000	92	91	KEY SLOT ILL	143	Ь	COMBI SW OUTPUT 1	Г
		3 3 3 3 3 3 3 4 5 5	93	>	ON IND	144	ŋ	COMBI SW OUTPUT 2	
		1	95	0	ACC RELAY CONT	145	_	COMBI SW OUTPUT 3	Г
			96	>	A/T SHIFT SELECTOR POWER SUPPLY	146	SB	COMBI SW OUTPUT 4	
			66	œ	SHIFT P/CLUTCH PEDAL POS SW	150	R.	DRIVER DOOR SW	Г
Terminal	Color Of	Signal Name (Specification)	100	GR	PASSENGER DOOR REQUEST SW	151	9	REAR WINDOW DEFOGGER RELAY CONT	П
No.	Wire	ognanivanie (operintation)	101	٨	DRIVER DOOR REQUEST SW				
34	9	LUGGAGE/TRUNK ROOM ANT-	102	0	BLOWER FAN MOTOR RELAY CONT				
35	Я	LUGGAGE/TRUNK ROOM ANT+	103	91	KYLS ENT RECEIVER (FRONT) PWR SUPPLY	Connector No.		M137	
38	8	REAR BUMPER ANT-	107	91	COMBI SW INPUT 1	Connector Name		ACTURISTICATOR	Г
39	Μ	REAR BUMPER ANT+	108	R	COMBI SW INPUT 4			W. June Steel Co.	
47	>	IGN RELAY (IPDM E/R) CONT	109	>	COMBI SW INPUT 2	Connector Type	Ė	TK10FW	Г
52	SB	STARTER RELAY CONT	110	Ь	HAZARD SW	(ı
09	BR	PUSH SW							
61	Α	BACK DOOR/TRUNK LID DOOR REQUEST SW				1			
64	g	I-KEY WARN BUZZER (ENG ROOM)	Connector No.	No.	M123	Ż		12 - 34	
99	æ	BACK DOOR/TRUNK ROOM LAMP SW	100	Monte	CONTROL MACON MACON MACON			5 6 7 8 9 10	
- 67	GR	BACK DOOR/TRUNK LID OPENER SW	allierio ivalile	Mallie	BUIN (BODT CONTROL MODOLE)			٦I	
			Connector Type	Type	TH40FG-NH				
Connector No.	No.	M122	1			Terminal	Color Of	3	Г
one Manager	Momo	(2 HIGGSW LOGTINGS VGCG) AND				No.	Wire	signal Name [specification]	
		SCINI (DODI CONTINO MODOLE)	ė		क्ष्मिक क्षेत्र क्षित्र क्ष्मिक	1	W		
Connector Type	r Type	TH40FB-NH				2	>		П
þ	_					е	_		\neg
居						4	8		Т
Ě						S	٥		П
		22	Terminal No.	Color Of Wire	Signal Name [Specification]	9	∝ ≥		Т
		75 CS	113	0	OPTICAL SENSOR	00	۵		Т
			114	~	CLUTCH INTERLOCK SW	6	>		Т
			115	0		10	æ		Г
Terminal	Color Of	Cornel Mosses Consideration 1	116	SB	STOP LAMP SW 1				1
No.	Wire	olgnar Name (opecification)	118	Ь	STOP LAMP SW 2				
7.2	_	ROOM ANT 2-	119	SB	DR DOOR UNLOCK SENSOR				
73	۵	ROOM ANT 2+	121	œ	KEY SLOT SW				
74	88	PASSENGER DOOR ANT-	123	*	IGN F/B				
75	æ	PASSENGER DOOR ANT+	124	91	PASSENGER DOOR SW				
9/	>	DRIVER DOOR ANT-	129	0	TRUNK LID OPENER CANCEL SW				
77	91	DRIVER DOOR ANT+	130	_	REAR DEFOGGER SW				
78	1	ROOM ANT 1-	132	>	P/W SW & SOFT TOP C/U COMM [Roadster models]				
79	ď	ROOM ANT 1+	132	>	POWER WINDOW SW COMM [Coupe models]				
8	GR	NATS ANT AMP.	133	g	PUSH BUTTON IGNITION SWILL POWER				

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VEHICLE SECURITY SYSTEM Α Wiring Diagram - VEHICLE SECURITY SYSTEM -INFOID:0000000011740497 HORN HIGH E62 HGRN В 38 38 C HORN (LOW) (E70 XM : Except for Mexico 15A To Intelligent Key system D Е ⟨CP⟩: Coupe models ⟨RS⟩: Roadster models F 45 12 (RS) To Nissan vehicle immobilizer system 97 : CP HEAP HEAP HEAP Н ത BCM (BODY CONTROL MODULE) (M118) , (M119) , (M122) , (M123) 15A 51 15A 50 Eg J DATA LINK CONNECTOR (M24) SWITCH (B206): (RS) SEC PASSENGER B201 M117 FUSE BLOCK (J/B) (J/B) (MZ): (M3) COMBINATION METER (M53), (M54) - HI (SE) L To CAN system IGNITION SWITCH ON or START VEHICLE SECURITY SYSTEM B201 M117 SECURITY M WX Specific Ν 58 M7 10A 0 2015/01/09 E106 -Me (m) 40 ▼ BATTERY Р

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- (Roadster models) Connector No. 18301		- (Coupe models) Connector Name WIRE TO WIRE	- [Coupe models] Connector Type TH40MW-NH		- [Coupe models]	- [Roadster models]	1 2 3 4 5 6 7 8 9 10 11 12 13 14	[21] 22 [23] 24 [24] 25 [25] 2	- If nume models	- [Roadster models]	Terminal Color Of		8206 - 4 LG -	PASSENGER SIDE DOOR SWITCH 5	6 P	A03FW - 8 0 -	, , , , , , , , , , , , , , , , , , ,	14 BR -	15 BR .	16 W	7 17 DG -		3 25 1.6	31 86	H	olgital Marine [Specifications] 34 O	. 35 88			Connector No. B303	B216 Connector Name SOFT TOP CONTROL UNIT	PASSENGER SIDE DOOR SWITCH Connector Type TH40FB-NH	1			•	or hallon lands hallon land land land land land land land lan	•	20) 19) 19 19 11 12 14 15 14 15 14 15 14 15 14 15 14 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15					Terminal Color Of No. Wire No. Wire		Terminal Coor Of No. Wire No. 4 No.
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- [Roadster models]	- [Coune models]	- [Roadster models]											1		•			- [Coupe models]	- [Roadster models]	- [Roadster models]	- [Coupe models]		·		٠			10					- [Roadster models]	- [Coupe models]	- [Coupe models]	- [Roadster models]	- Couna models	(connected)	- (Coupe models)	- [Coupe models] - [Roadster models]	- [Coupe models] - [Roadster models]	- [Coupe models] - [Roadster models]	Roadster models - (Roadster models 	Roadster modes	(Coupe models) - (Coupe models) - (Coupe models) - (Coupe models)	[Should see models] [Roadster models] [Roadster models] [Roadster models]
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7	. α	000	6	11	12	22	30	41	42	43	44	51	25	53	54	22	95	57	57	28	28	59	09	19	62	63	64	99	99	- 67	89	9 02	7.1	7.1	7.2	72	7.2		73	73	73	73 74 75	73 74 75 76	73 74 75 76 76	73 75 76 76 77	73 74 75 76 77 92
Connector No. 1881		WIRE TO WIRE	TH40FW:NH				20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	1373615613433130130139281273615612423122121				Signal Name [Specification]					4													8201	WIRE TO WIRE	TH80FW-CS16-TM4			1 6 12 12 12 12 12 12 12 12 12 12 12 12 12	2	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I	20 00 00 00 00 00 00 00 00 00 00 00 00 0				Specific	Signal Name (Specification)	Signal Name (Specification)	Signal Name (specification)

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	Connector No. E6	Connector Name 190M E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Type THOSEW.NH	1	1	- F	2	42 41 40 39		40 42 44 43			0 1 0	le le	No. Wire	39 р	40 L	41 BAW	$^{+}$	- 27	+	+	5 00	4b V		ĺ	Connector No. E9	IPON E/R DATELLIGENT POWER DISTRIBUTION MODULE ENGINE	Connector Name ROOM)	Tutenament Tutenamen	1		人		02 02 04					Torminal Color Of		+	+	. 98 Ze	y 76	104 LG -	l									
	Connector No. D15	Connector Name DRIVER SIDE DOOR LOCK ASSEMBLY	Connector Type FO6EGV. PS	1	Œ			(11)	0 0 1 1 0 1				-	je je	4:	1 BG -	2 6	3	ł	ł	+	5			1	Connector Name (PR (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE		Connector Type TH20FW-CS12-M4-1V		€.		N						Terminal Color Of		t	+		×	+	12 B/W .	13 Y	16 LG	3 %	M ST		27 Y -	H	30 GR	t	$\frac{1}{2}$	
		× 3	A 98	3 8				ſ	D/8	POWER WINDOW MAIN SWITCH		NC16EW.CC	1			֡֞֝֞֝֟֝֞֝֟֝֟֝֟֝֟֝֟֝֟֝֟֟֝֟֟֝֟֟֝֟֟֝	1 9 9 1		0 8 10 17 11 0 8 0			on the ord	Signal Name [Specification]	200	W BAI	Y DOOR SWITCH [Roadster models]		GR DOOR KEY CYLINDER LOCK			20000000				SB SERIAL LINK [Coupe models]	Y SERIAL LINK [Roadster models]	R ENCODER SIG 1	G ENCODER GND	CNS																	
	20	7 5	+	+	+	\mid			Connector No.	Connector Name		Connector Type	connector the	ą	图	Ę	Ċ					To the second		+	+	4	2	9	H	╀	+	+	+	+	12	12	13	H	+	$\frac{1}{1}$																
VEHICLE SECURITY SYSTEM	TRUNK LID OPEN SIGNAL	ROOF STATUS SIGNAL (INDICATOR)	BODE OBEN / CLOSE SWITCH (CLOSE)	PODE OBEN / CLOSE SWITCH (OBEN)	TRINK BOOM I AND SMITCH	+		T-MAC	LUCAL CUMMUNICATION (POWER WINDOW)				SOUD STATE OF THE	ROOF OPEN / CLOSE SWITCH (GND)			D1		WIRE TO WIRE	TURDEM CEAE	INFORM-CSTS			15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	48454451474147473739 DBS14773777777	555455 5251 504948 47 35 34 33 33 30 23 23 23				L	Signal Name [Specification]							- [With BOSE system]					- [conbe models]	- (Koadster models)												
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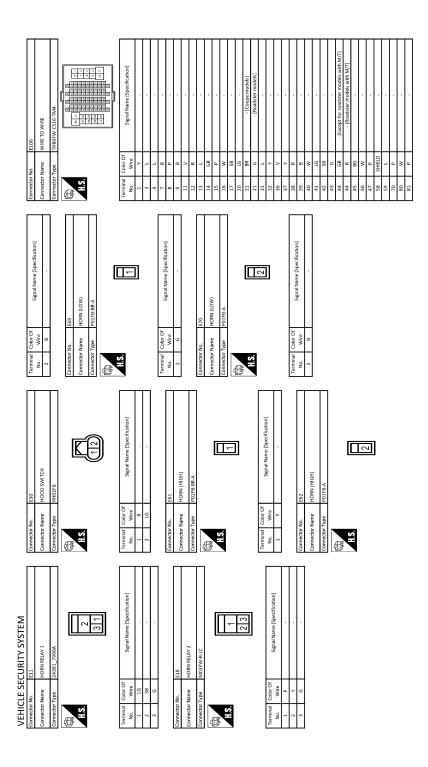
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Connector No. M2 Connector Name Flust Block (I/R)	
NEHICLE SECURITY SYSTEM 823	
	JRKWE8200GB

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No. No.	Fransactor No. ME2	١	Connector Name COMBINATION METER		Connector Type TH24FW-NH				13.		15 16 17 18 19 20 21 23 23 24			Terminal Color Of	Wire	1 V BATTERY POWER SUPPLY	2 O IGNITION SIGNAL	3 L VEHICLE SPEED SIGNAL (2-PULSE)	4 V VEHICLE SPEED SIGNAL (8-PULSE) [For Mexico]	4 Y VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico]	5 B ILLUMINATION CONTROL SIGNAL	6 R ROOF STATUS SIGNAL	9 BR COMMUNICATION SIGNAL (METER->TRIPLE METER)	10 L COMMUNICATION SIGNAL (TRIPLE METER:>METER)	12 G S-MODE SWITCH SIGNAL	15 L ACC POWER SUPPLY	16 R AIRBAG SIGNAL	8	18 V AMBIENT SENSOR SIGNAL	19 G A/C AUTO AMP, CONNECTION RECOGNITION SIGNAL	20 GR AMBIENT SENSOR GROUND	1	Ь	8	24 Y FUEL LEVEL SENSOR GROUND																
Note Course models Cours																- [Coupe models]	- [Roadster models]	- [Coupe models]	- [Roadster models]					M24	OCTURNOO SINI AT A C	DATA LINK CONNECTOR	BD16FW			È	1	1 5 6 7	0 0 +			Signal Name [Specification]		- [Coupe models]	- [Roadster models]						- [Roadster models]	- [Coupe models]					
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SECURITY SYSTEM 1	c	~		- ·		HIELD .	. ·			. ~			88	SB	88			GR .			. 0				V - (Coupe models)		V - [Coupe models]		۸ .	L - (Coupe models)						,			HIELD .		. 9	HIELD .	. 91	۸.	HIELD -					BR .	
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	VEHICLE SECURITY SYSTEM	· · · · · · · · · · · · · · · · · · ·				. 9		, M	- d	۵	· -				R			Connector No. M7			Connector Type TH80MW-CS16-TM4	ľ		200						,		BR .	. 0	. 91		,	. 91		GR .			BR							. 9	GR -	

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1	1 Secretar State Liver Schools Grounder 1 No.	H		57	H	- [Coupe models]]	9	l,
1	1	┝	PADDLE SHIFTE	57	۵	- [Roadster models]				œ	l.
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1 SACRESTER SCRIPT SACREST	1 Absolute Colore Box (Fig.) Colored	╁	SEAT BELT BUCKLE SWIT	28	╀	- [Coupe models]		Wire	Signal Name [Specification]	*	
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Color Of Inc. Signal Name [Specification] 92 G. - [Coupe models] 4 R R INTERIOR INCOMINATION COUNTY Forminal color of Inc.	Color of Light Light Color of Light Light Color of Light Light Color of Signal Name (Specification) 7 8 brain (Specification) 7 6 brain (Specification) 8 color of Light Light Light Light Light Color of Light		10 M	76	8			color Of	Signal Name (Specification)	6 201 101 101 101 101 101 101 101 101 101	93 92
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Color Of Life Signal Name (Specification) 93 I.G. (Rougher models) 5 G RANSWIRGER ROOL UNIFOLD THEIR LIB LIB CORG OUTPUT Treminal Color Of Plant Lib Country Control Throng Name (Specification) Treminal Color Of Plant Lib Country Country Throng Name (Specification) Treminal Color Of Plant Lib Country Country Throng Name (Specification) Treminal Color Of Plant Lib Country Country Throng Name (Specification) Treminal Color Of Plant Lib Country Country Throng Name (Specification) Treminal Color Of Plant Lib Country Throng Name (Specification) Treminal Color Of Plant Lib Color Of Plant Lib Country Throng Name (Specification) Transport Lib Country Throng Name (Specification) Transport Lib Color Of Plant Lib Color Of P	Color of Signal Name Especification 93			92	ŋ	- [Coupe models]	4		RIOR ROOM LAMP POWER SUPPLY		
Wire Section State Section	Windows Wind		Si emal Name IS	92	97	- [Roadster models]	S	4	SSENGER DOOR UNLOCK OUTPUT	·	
15 15 15 15 15 15 15 15	LG	1	ol amountable	93	æ	- [Coupe models]	00	V ALI	L DOOR, FUEL LID LOCK OUTPUT	Color Of	
W	W	-	- 91	93	^	- (Roadster models)	6		R DOOR, FUEL LID UNLOCK OUTPUT	Wire	
SHED	WW			94	9	- [Roadster models]	11	BR	BAT (FUSE)	1	
SHELD 95 LG Roadster models 14 R PLUSH-BUTTON IGNITION SWILL GND 74 SB R R ROADSTER MODELS R R R R R R R R R	SHELD 95 LG Roadrier models 14 R PUSSH-BUTTON IGNITION SWILL GND 74 SIB	H		94	SHIELD	- (Coupe models)	13		GROUND	Ь	
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X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	133	- 9	PUSH BUTTON IGNITION SWILL POWER
> 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	134	P P	LOCK IND RECEIVER &SENSOR GND
0	138	> -	RECEIVER & SENSOR POWER SUPPLY
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9 S B S G	142	0	COMBI SW OUTPUT 5
G SB SB	143	d	COMBI SW OUTPUT 1
SB GR GR	144	9	COMBI SW OUTPUT 2
SB GR	145	1	COMBI SW OUTPUT 3
GR 6	146	gs	COMBI SW OUTPUT 4
9	150	US.	DRIVER DOOR SW
	151	9	REAR WINDOW DEFOGGER RELAY CONT

VEHIC	CLE SE	VEHICLE SECURITY SYSTEM
9/	>	DRIVER DOOR ANT-
77	91	DRIVER DOOR ANT+
78	7	ROOM ANT 1-
79	œ	ROOM ANT 1+
80	GR	NATS ANT AMP.
81	Μ	NATS ANT AMP.
82	~	IGN RELAY (F/B) CONT
83	GR	KYLS ENT RECEIVER (FRONT) COMM
87	BR	COMBI SW INPUT 5
88	۸	COMBI SW INPUT 3
06	۵	CAN-L
91	_	CAN-H
92	97	KEY SLOT ILL
93	۸	ONINO
95	0	ACC RELAY CONT
96	>	A/T SHIFT SELECTOR POWER SUPPLY
66	ď	SHIFT P/CLUTCH PEDAL POS SW
100	GR	PASSENGER DOOR REQUEST SW
101	٨	DRIVER DOOR REQUEST SW
102	0	BLOWER FAN MOTOR RELAY CONT
103	91	KYLS ENT RECEIVER (FRONT) PWR SUPPLY
107	91	COMBI SW INPUT 1
108	ď	COMBI SW INPUT 4
109	٨	COMBI SW INPUT 2
110	Ь	HAZARD SW

Connector No. M123	connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FG-NH	
	MODULE)		12 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15

Signal Name [Specification]	OPTICAL SENSOR	CLUTCH INTERLOCK SW		STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW
Color Of Wire	0	ď	0	SB	Ь	SB	œ	Μ	97
Terminal No.	113	114	115	116	118	119	121	123	124

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

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.

CONSULT	MONITOR	ITEM
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Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FK WIFEK FI	Front wiper switch HI	On
FR WIPER 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 dia position
TURN SIGNAL R	Other than turn signal switch RH	Off
IURN SIGNAL R	Turn signal switch RH	On
TUDNI CICNIAL I	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 LAWP 5W	Lighting switch 1ST or 2ND	On
LILDEAN OW	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB CW/4	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB CW 2	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA COINIO OW	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
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DD EOC SW	Rear fog lamp switch OFF	Off
RR FOG SW	Rear fog lamp switch ON	On
DOOD SW DD	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

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	Back door closed (Coupe models) Trunk lid closed (Roadster models)	Off
DOOR SW-BR	Back door opened (Coupe models) Trunk lid opened (Roadster models)	On
CDL LOCK SW	Other than door lock and unlock switch LOCK	Off
CDL LOCK SVV	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
CDL UNLOCK SW	Door lock and unlock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
KET CTL LK-SW	Driver door key cylinder LOCK position	On
KEN CALTIN CM	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
LIAZADD CVV	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
NOTE: For models with NAVI this item is not monitored.	Rear window defogger switch ON	On
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
TD CANCEL CW	Trunk lid opener cancel switch OFF	Off
TR CANCEL SW	Trunk lid opener cancel switch ON	On
TD/DD ODEN CW	Back door opener switch OFF (Coupe models) Trunk lid opener switch OFF (Roadster models)	Off
TR/BD OPEN SW	 While the back door opener switch is turned ON (Coupe models) While the trunk lid opener switch is turned ON (Roadster models) 	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
DIVE I OOK	LOCK button of the Intelligent Key is not pressed	Off
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On
DIVE LINII OOK	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
NOTE: For Coupe models this item is not monitored.	TRUNK OPEN of the Intelligent Key is pressed	On
	PANIC button of the Intelligent Key is not pressed	Off
RKE-PANIC	PANIC button of the Intelligent Key is pressed	On
	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On
	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
PTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
F HUAL SENSUK	Dark outside of the vehicle	Close to 0 V
DEO CW. DD	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
250 011/ 40	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed (Coupe models) Trunk lid door request switch is not pressed (Roadster models)	Off
KEQ 3W -BD/TK	Back door request switch is pressed (Coupe models) Trunk lid door request switch is pressed (Roadster models)	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
OOI I OW	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	The clutch pedal is not depressed	Off
IOTE: For A/T models this item is not nonitored.	The clutch pedal is depressed	On
	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
	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position (A/T models) The clutch pedal is depressed (M/T models without SynchroRev Match mode)	Off
For M/T models with Synchro- Rev Match mode this item is not monitored.	Selector lever in any position other than P (A/T models) The clutch pedal is not depressed (M/T models without SynchroRev Match mode)	On
SFT PN/N SW NOTE: For roadster M/T models and	Selector lever in any position other than P and N (A/T models) Control lever in any position other than neutral position (Coupe M/T models with SynchroRev Match mode)	Off
coupe M/T models without SynchroRev Match mode this tem is not monitored.	Selector lever in P or N position (A/T models) Control lever in neutral position (Coupe M/T models with SynchroRev Match mode)	On
S/L -LOCK	NOTE: The item is indicated but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated but not monitored.	Off
INI IZ CENI DD	Driver door is unlocked	Off
JNLK SEN -DR	Driver door is locked	On
OLIGIT OW IDDI:	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
IGN KLT I -F/D	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
DETE SW -IPDIVI	Selector lever in P position	On
SFT PN -IPDM	 Selector lever in any position other than P and N (A/T models) The clutch pedal is not depressed (M/T models) 	Off
OI I FIN -IFDINI	 Selector lever in P or N position (A/T models) The clutch pedal is depressed (M/T models) 	On
SFT P -MET	Selector lever in any position other than P	Off
SFI F-WEI	Selector lever in P position	On
OFT N. MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENIONE OTATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speedon eter reading
VEH SPEED 2	While driving	Equivalent to speedon eter reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset
	Ignition switch ON	Set
DDMT ENC CTDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEN SW. SLOT	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFRMID ALL	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
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFINIVI ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
COM IKW IDS	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
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 IDT	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TD 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
TP 4	The ID of fourth Intelligent Key is registered to BCM	Done
TD 0	The ID of third Intelligent Key is not registered to BCM	Yet
TP 3	The ID of third Intelligent Key is registered to BCM	Done
TD o	The ID of second Intelligent Key is not registered to BCM	Yet
TP 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
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGOT FLT	ID of front LH tire transmitter is not registered	Yet
ID DECCT ED4	ID of front RH tire transmitter is registered	Done
ID REGST FR1	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID VEGOL VVI	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID VEGOL KEI	ID of rear LH tire transmitter is not registered	Yet
MADNING LAMP	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUIZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

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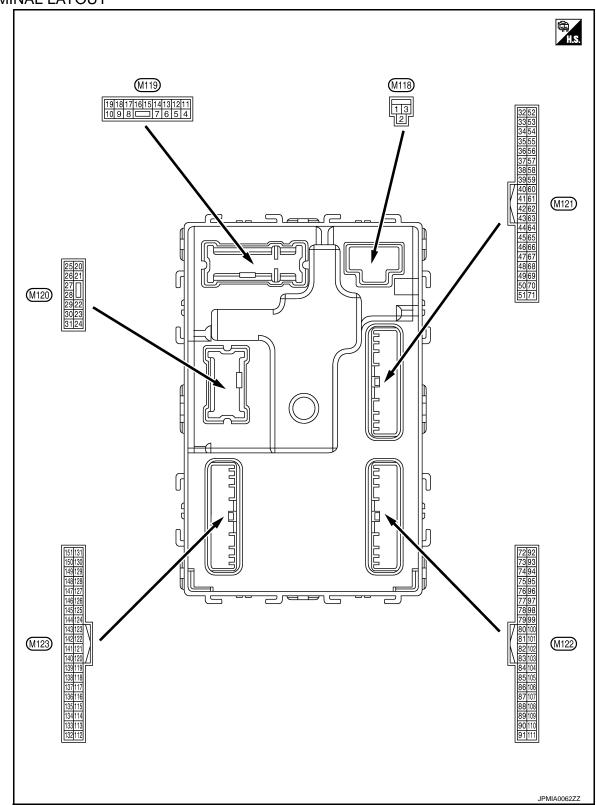
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

Terminal No. Description (Wire color)			Condition		Value														
+	-	Signal name	Input/ Output		Condition	(Approx.)													
1 (W)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage													
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V													
3 (Y)	Ground	P/W power supply (IGN)	Output	Ignition switch ON		12 V													
					mp battery saver is activated. or room lamp power supply)	0 V													
4 (R)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V													
5			0	Passenger door	UNLOCK (Actuator is activated)	12 V													
(G)			Output		Other than UNLOCK (Actuator is not activated)	0 V													
8	8 (V) Ground All doors, fuel lid LOCK	All doors, fuel lid	All doors, fuel lid	0	All doors, fuel	LOCK (Actuator is activated)	12 V												
		Output	lid	Other than LOCK (Actuator is not activated)	0 V														
9	9 0	Driver door, fuel lid		Driver door,	UNLOCK (Actuator is activated)	12 V													
(G)	Ground	UNLOCK		Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V
11 (BR)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage													
13 (B)	Ground	Ground	_	Ignition switch (NC	0 V													
					OFF	0 V													
4.4		Push-button ignition switch illumination ground	Push-button ignition	Push-button ignition	Push-button ignition	n			NOTE: When the illumination brightening/dimming level is in the neutral position.										
14 (R)	Ground		Output	Tail lamp	ON	(V) 10 0 2 ms													
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage													
(Y) Glouid	round roo indicator lamp			ACC	0 V														

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< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)	
					Turn signal switch OFF	0 V	
17 (W)	Ground	Turn signal RH (Front and side)	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 (O)	Ground	Turn signal LH (Front and side)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s	
					OFF	6.5 V 12 V	
19 (P)	Ground	Interior room lamp control	Output	Interior room lamp	ON	0 V	
				<u> </u>	Turn signal switch OFF	0 V	
20 (V)	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		Back door/Trunk lid			OPEN (Back door/Trunk lid opener actuator is activated)	12 V	
(L)* ¹ (Y)* ²	Ground	open	Output	Back door/ Trunk lid	Other than OPEN (Back door/Trunk lid opener actuator is not activated)	0 V	
24*8	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V	
(O)	Orodria	rtodi log lamp	Output	rtour rog lamp	ON	12 V	
					Turn signal switch OFF	0 V	
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
				Luggage room/	ON	0.5 V	
30 (R)	Ground	Luggage room/Trunk room lamp	Output	Trunk room lamp	OFF	12 V	

	nal No.	Description				Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	
34	O	Luggage room/Trunk	0.4-14	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	
(G)	Ground	room antenna (-)	Output	ut OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	
35		Luggage room/Trunk	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
35 (R)	Ground	room antenna (+)	Cuput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	
38	Ground	Rear bumper anten-	Output	When the back door/trunk lid door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(B)	Siound	na (–)		switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

	nal No. color)	Description			O a selfficia	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
39	Ground	Rear bumper anten-	When the back door/trunk lid door request		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(W)	Clound	na (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 1
47	Cravad	Ignition relay (IPDM	Outnut	lanitian avvitah	OFF or ACC	12 V
(V)	Ground	E/R) control	Output	Ignition switch	ON	0 V
			Output	Ignition switch ON (A/T mod- els)	When selector lever is in P or N position	12 V
52	Ground	Starter relay control			When selector lever is not in P or N position	0 V
(SB)		,		Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage
				els)	When the clutch pedal is not depressed	0 V
60	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)		switch (Push switch)		(push switch)	Not pressed	Battery voltage
					ON (Pressed)	0 V
61 (W)	Ground	Back door/Trunk Lid door request switch	Input	Back door/ Trunk lid door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
64	Ground	Intelligent Key warn-	Output	Intelligent Key	Sounding	0 V
(G)	Cround	ing buzzer	Juiput	warning buzzer	Not sounding	12 V
66 (R)	Ground	Back door/Trunk room lamp switch	Input	Back door/ Trunk room lamp switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
					Cit (Door open)	U V

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	nal No. color)	Description				Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					Pressed	0 V
67 (GR)	Ground	Back door/Trunk lid opener switch	Input	Back door/ Trunk lid open- er switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB
72	0	Room antenna 2 (–)	Outside	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
72 (L)	Ground	(Center console)	Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
73 (P) Grou	Ground	Room antenna 2 (+) (Center console)		Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
	Giodila		Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

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	nal No. color)	Description			0 177	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
74	Ground	Passenger door an-	Output	When the passenger door request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(SB)	Godile	tenna (–)	Guipur	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
75	Passanger door an senger door re	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB		
(BR)	Ground	tenna (+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
76	Cround	Driver door antenna (-)	Output	When the driver door request switch is operated 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 1

	nal No.	Description				Value	
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
77		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(LG)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 10 1 1 S 1 MKIA0063GB	
78* ²		Room antenna 1 (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
78* ² (L)	Ground	(Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 10 1 s 1 s JMKIA0063GB	
79* ²	Ground	Room antenna 1 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	
(R)	Sistema	(Instrument panel)	Cuput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	

	nal No. color)	Description			One distan	Value
+	-	Signal name	Input/ Output		Condition	(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 (W)	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 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
83	Ground	Remote keyless entry receiver (front) com-	Input/	During waiting		(V) 15 10 5 1 ms JMKIA0064GB
(GR)	Clound	munication	Output	When operating either button on the Intelligent Key		(V) 15 10 5 1 ms JMKIA0065GB
		Combination switch INPUT 5	Input	ut Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87 (BR)	Ground				Rear fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					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

	nal No. color)	Description	1		O a little a	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms
					Lighting switch HI (Wiper intermittent dial 4)	1.4 V
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch		JPMIA0036GB 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)	10 0 2 ms 1.3 V
					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 2 ms JPMIA0040GB
90 (P)	Ground	CAN-L	Input/ Output		_	_
91 (L)	Ground	CAN-H	Input/ Output		_	_
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	OFF Blinking ON	0 V (V) 15 10 5 0 JPMIA0015GB 6.5 V 12 V
00	Ground	ON indicator lamp	Outerist	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
93		UN Indicator lamp	Output	Ignition switch	not manimatou)	

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
95	Cround	ACC relay control	Output	Ignition quitab	OFF	0 V
(O)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	12 V
96* ³ (Y)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
		Selector lever P posi-			P position	0 V
99* ⁶ (R) Ground		tion switch (A/T models)		Selector lever	Any position other than P	12 V
	Ground	Clutch pedal position switch (M/T models without SynchroRev Match mode)	Input	Clutch pedal position switch	OFF (Clutch pedal is depressed)	0 V
					ON (Clutch pedal is not depressed)	Battery voltage
					ON (Pressed)	0 V
100 (GR)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 JPMIA0016GB
					ON (Pressed)	0 V
101 (Y)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Cround	Blower fan motor re-	Out	Ignition switch	OFF or ACC	0 V
(O)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver (front) power supply	Output	Ignition switch (DFF	12 V

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Terminal No.		Description	Description			Value
(Wire +	color)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 10 5 0 2 ms
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	1.3 V (V) 15 10 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

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	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
	Ground	Combination switch Inpu	Input	Input Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
108					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(R)					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 0 2 ms JPMIA0039GB 1.3 V

	nal No.	Description				Value	
(Wire +	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	
109 (Y) Grou	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	
					ON	0 V	
110 (P)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB	

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
113	Ground	Optical sensor	Innut	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V
114*4	Cround	nd Clutch interlock switch	lanut	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground		Input	switch	ON (Clutch pedal is depressed)	Battery voltage
115* ⁹ (O)	_	_	_		_	_
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	0			Stop lamp	OFF (Brake pedal is not depressed)	0 V
(P)	Ground	Stop lamp switch 2	Input	switch	ON (Brake pedal is de- pressed)	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
121				When the Intelliq	gent Key is inserted into key	12 V
(R)	Ground	Key slot switch	Input	When the Intelliq	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)	Giodila	IGIN IEEGDACK	iliput	igilition switch	ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V

	nal No.	Description				Value		
(VVire	color)	Signal name	Input/ Output		Condition	(Approx.)	А	
129* ² (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	В	
					ON	0 V		
130* ⁷ (L)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	F	
					Rear window defogger switch ON	0 V	F	
132 (Y)* ¹ (V)* ²	Ground	Power window switch and soft top control unit communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	I	
				Ignition switch C	OFF or ACC	12 V	C.	
					ON (Tail lamps OFF)	9.5 V NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.	SE	
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	(V) 15 10 5 0	N	
					OFF	JPMIA0159GB		
134		10011	0	LOCKindicator	OFF	Battery voltage		
(GR)	Ground	LOCK indicator lamp	Output	lamp	ON	0 V		
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch C	DN	0 V	F	
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V		
(V)	Croana	power supply	Japat	.g	ACC or ON	5.0 V		

	nal No.	Description				Value		
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)		
				Ignition switch OFF (Remote key-	During waiting	(V) 15 10 5 0 1 ms JMKIA0064GB		
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	less entry re- ceiver communica- tion)	When operating either button on the Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB		
				Ignition switch ON (Tire pressure)	Standby state	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				(Tire pressure receiver com- munication)	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		Selector lever P/N		Selector lever	P or N position	12 V		
140* ⁵		position (A/T models)			Except P and N positions Control lever in neutral po-	0 V		
(G)	Ground	Park/neutral position switch (Coupe M/T	Input	Ignition switch	sition	Battery voltage		
		models with Synchro- Rev Match mode)		ON	Control lever in any position other than neutral	0 V		
					ON	0 V		
141 (Y)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 JPMIA0014GB		
					OFF	11.3 V		
					OFF	12 V		

Terminal No. Description (Wire color)				Value		
+ (Wire	- color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	0 V
					Lighting switch 1ST	
				Combination	Lighting switch HI	(V)
142	Ground	Combination switch	Output	switch	Lighting switch 2ND	10
(O)		OUTPUT 5		(Wiper intermit- tent dial 4)	Turn signal switch RH	0 2 ms JPMIA0031GB
					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)	(V)
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	15 10 5 0 2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V) 15
145	Ground	Combination switch	Output	switch	Lighting switch AUTO	10
(L)	Ground	OUTPUT 3	Output	(Wiper intermit- tent dial 4)	Rear fog lamp switch ON	2 ms JPMIA0034GB
					All switches OFF	10.7 V 0 V
					Lighting switch 2ND	
				0	Lighting switch PASS	(V)
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch LH	15 10 5 0 2 ms JPMIA0035GB

Terminal No.		Description				Value		
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)		
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 10 10 ms JPMIA0011GB 11.8 V		
					ON (Door open)	0 V		
151	Ground	Rear window defog-	Output	Rear window	Active	0 V		
(G)	Ground	ger relay control	Output	defogger	Not activated	Battery voltage		

^{*1:} Coupe models

^{*2:} Roadster models

^{*3:} A/T models

^{*4:} M/T models

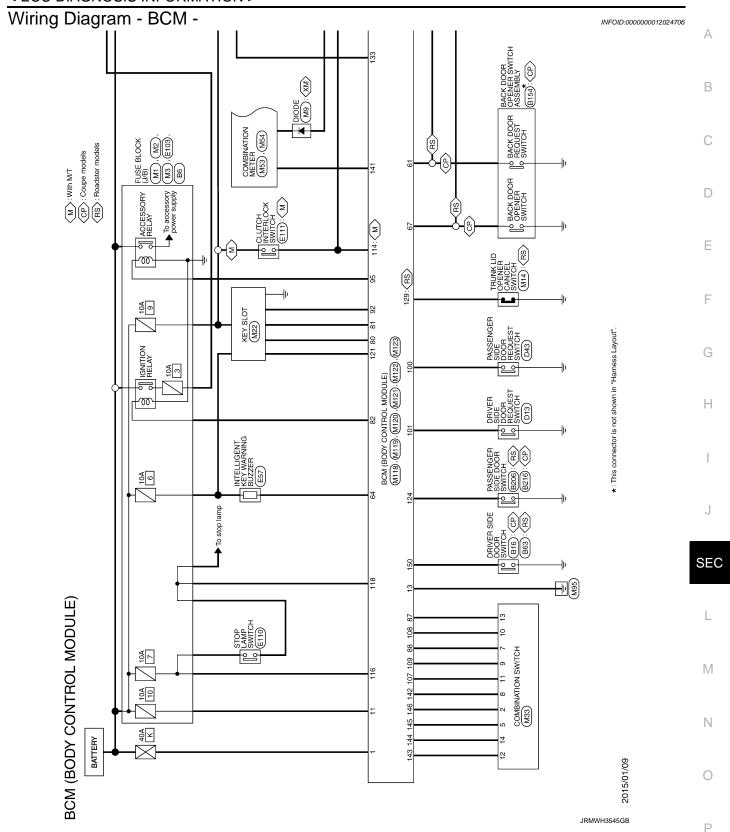
^{*5:} With A/T or coupe models with M/T and SynchroRev Match mode

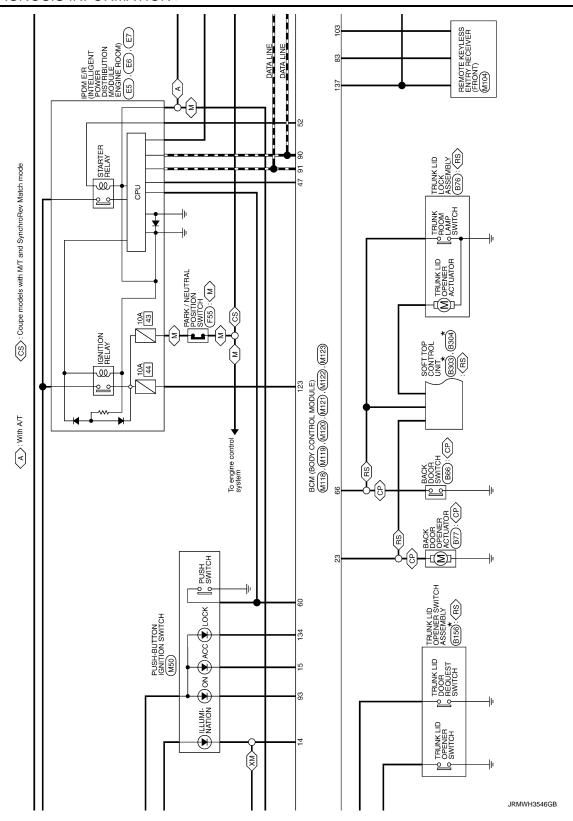
^{*6:} With A/T or with M/T without SynchroRev Match mode

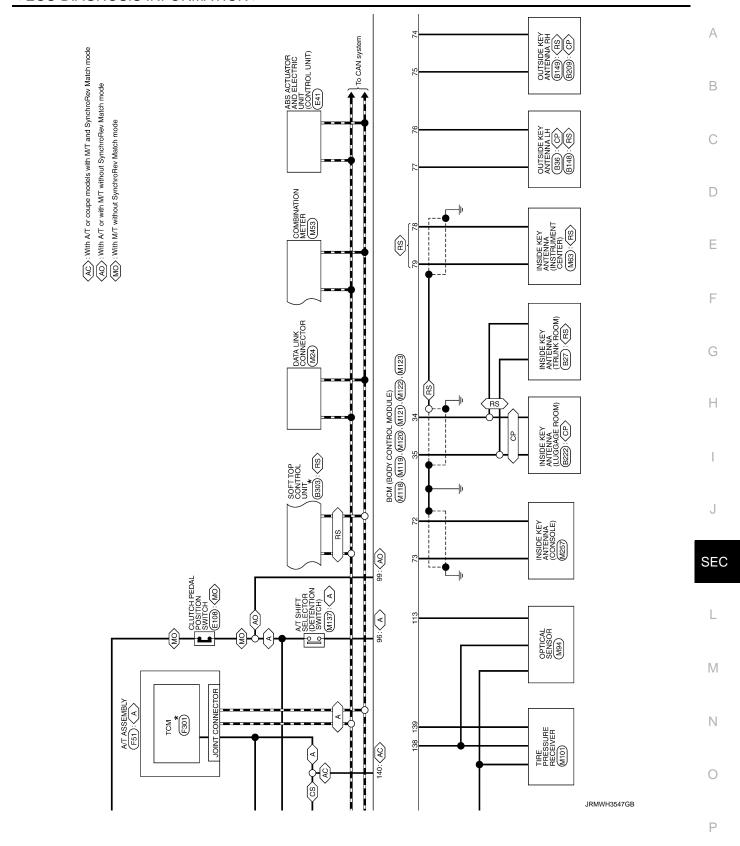
^{*7:} Without NAVI

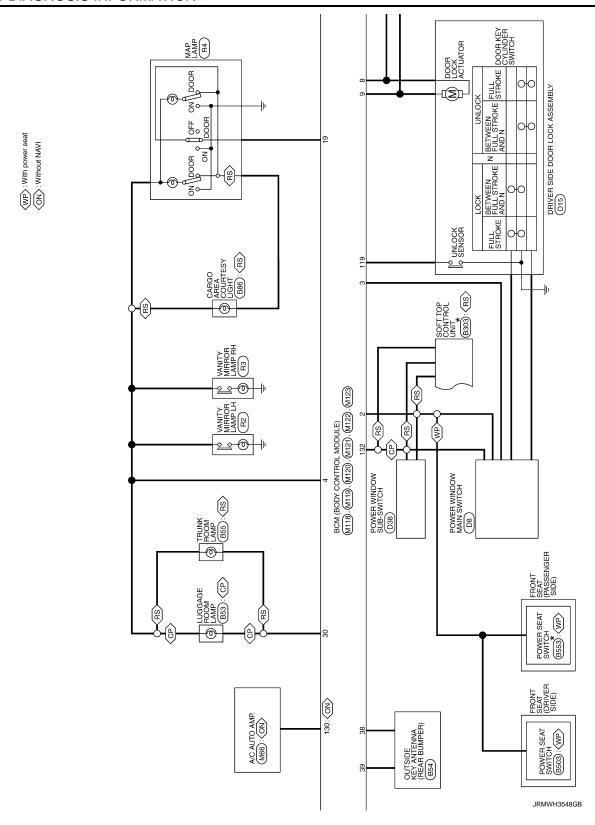
^{*8:} With rear fog lamp

^{*9:} BCM does not use this terminal for control.

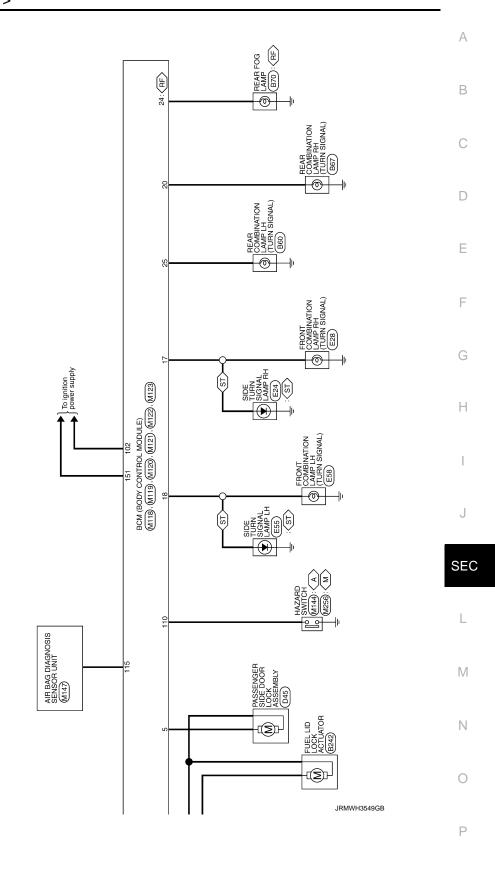








⟨RF⟩: With rear fog lamp
⟨ST⟩: With side turn signal lamp



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Connector No. B55	Connector Name TRUNK ROOM LAMP	Connector Type S02FW	H3.	Terminal Color Of Signal Name (Specification) No. Wire	1 BR .	2 R .			Connector No. B60	Connector Name REAR COMBINATION LAMP LH	Connector Type RS06FGY-PR	ı	图	(3 6 2)	41	Terminal Color Of Signal Name (Specification)	1 6	2 R - (Coupe models)	2 v - [Roadster models]		4 1.6	20
Connector No. B53	Connector Name LUGGAGE ROOM LAMP	Connector Type CJ02FGY	#8.	Terminal Color Of Signal Name [Specification] No. Wire	1 BR .	2 R -			Connector No. B54	Connector Name OUTSIDE KEY ANTENNA (REAR BUMPER)	Connector Type RK02FGY		♥			Terminal Color Of Signal Name [Specification] No. Wire	1 W .	2 B -				
Connector No. B27	Connector Name INSI DE KEY ANTENNA (TRUNK ROOM)	Connector Type RK02FGY	HS HS	Terminal Color Of Signal Name [Specification]	1 v	2 SB -			Connector No. B36	Connector Name OUTSIDE KEY ANTENNA LH	Connector Type RK02MGY		E	(F)		Terminal Color Of Signal Name [Specification] No. Wire	1 16	2 V .				
BCM (BODY CONTROL MODULE) Connector No. B6	Connector Name FUSE BLOCK (J/B)	Connector Type NS12FBR-CS	56 Call Call	Terminal Color Of Signal Name [Specification] No.	10G P - [Roadster models]	W	. 9	Μ	12G Y .	SG LG		Connector No. B16	Connector Name DRIVER SIDE DOOR SWITCH	Connector Type A03FW		2			le	No. Wire	2 GR -	

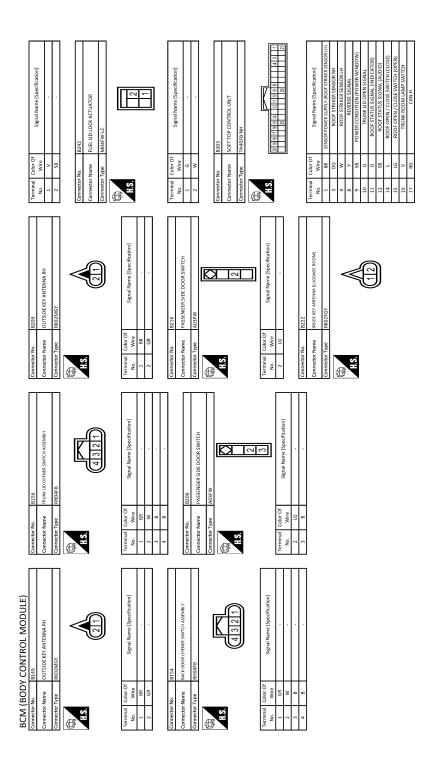
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Signal Name (Specification) Signal Name (Specification) Signal Name (Specification)	В
Connector No. B Connector Name Connector Name Connector Type S Connector Name Connector Name Connector Name Connector Name Connector Name Connector Name Connector Type R Connector Type R Connector Type Connec	D
Sgral Name (Specification) Sgral Name (Specification)	E
10 10 10 10 10 10 10 10	G
Terr	Н
REAR COMBINATION LAMP RH INSORGINY PR Signal Name (Specification) Signal Name (Specification)	I J
Connector Name R54	SE
ROL MODULE) E DOOR SWITCH Signal Name (Specification) 3 1 1 1 1 1 1 1 1 1 1 1 1	L
CONTROL MOD BE3 BE3 AGGSFW AGGSFW AGGSFW Signal Name (Spe Signal Name (Spe Signal Name (Spe	M
BCM (BODY CONTROL MODULE) Connector Name Connector Name Connector Name Connector Name Connector Name No. Wive Signal Name (Specification) Connector Name Connector Name Connector Name Connector Name Signal Name (Specification)	N
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Revision: 2015 June SEC-167 2016 370Z



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DY CONT LOCALCO LOCALCO LOCALCO LOCALCO LOCALCO RENSOR PO SOFT TOP IN STREWS	Signal Name [Specification] Taukw Despecification		L M
	Common N N N N N N N N N N N N N N N N N N N		
S S S S S S S S S S S S S S S S S S S	Color Of Col	S	SEC
BESSS MODANNERSEAFSWITCH MODANNALC Signal Name	NSJEFW-CS NSJEFW-CS		J
13 48 6 5 4 3 signal Name (Specification)	Signal Name Specification SIGNAL Name Spec		I
Connector No. Connector Name Connector Name Terminal Cobr No. Wirr 1 1 W 2 8 Connector Name Connector Name Connector Name	Commetter 1/9 Commetter 1/		Н
013	01		G
DI 33 DIAVER SIDE DOOR REQUEST SWITCH INSOZEL Signal Mame [Specification] 1.5 DIS DIS DIS DIS DIS DIS DIS DI	Signal Name (Specification)		F
Connector Conn	1		Е
No. Name Type Color Of BG BG BG BC BC Color Of Color Of Color Of Color Of BC	No.		D
Signal Name Specification Signal Name Specification	BY SERVOLRY SIN BY SERVAL LINK BASSINGES SUR DOOR REQUEST SUITCH RROZFI. SERVAL LINK Signal Name [Specification]		С
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Connector No. D45	Connector No. E6		\vdash	Connector No.	E41	
Connector Name PASSENGER SIDE DODR LOCK ASSEMBLY	Connector Name ROOM	IPDM F/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	\perp	Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	
Connector Type E06FGY-RS	Connector Type THO	TH08FW-NH	76 Y	Connector Type	BAA42FB-AHZ4-LH	
1	1		77 R	E		
	S	-[┨	S.		
Ē		42 41 40 39	Connector No. E24			
		46 45 44 43			.	
	-		Connector Type RK02FGY			
Signal Name [Specification] No. Wire	No. Wire	Signal Name [Specification]	€	No. Wire	Signal Name (Specification)	
1 ν .	39 P		≪	1 8	GROUND	
2 LG .	Н			2 G	UBMR	
	41 B/W		((2 1))	3	UBVR	
	+			4 8	GROUND	
Connector No. E5	\dashv			\dashv	DSFL	
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE	\dashv	,		9 BG	DP.RL	
.			o le		DP RR	
Connector Type TH20FW-CS12-M4-1V	46 V		0	\dashv	DP FR	
ģ			\dashv	\dashv	DS FR	
			2 B .	14 P	CAN-L	
	Connector No. E7			25 Y	BUS-L	
20 20 20	Connector Name	IPDM E/R [INTELLIGENT POWER DISTRIBUTION MODULE ENGINE			DP.FL	
36)	Connector No. E28	27 GR	DS RL	
	Connector Type TH20	TH20FW-CS12-M4	Connector Name FRONT COMPINATION AMP BH	28 G	ZN	
	4			-	DS RR	
			Connector Type RS06FGY-PR	30 SB	BLS	
ler	٤	_	4	31 R	VDC OFF SW	
e Jeneralie	2	65758 6970 1473 1413 1911		35 L	CAN-H	
· · ·		4849 51 80		45 B	BUS-H	
			(3 7 6)			
R - [Coup			4 5 8			
+				Connector No.	E55	
-	le l	Signal Name [Specification]		Connector Name	SIDE TURN SIGNAL LAMP LH	
13 7	No. wire		Terminal Color Of	Connector Type	BKOZEGV	
W 01	7 9		_			
+	+		t	€	•	
╀	. w		+	卖	<	
. 1 82	╀		. R	H.S.	\	
30 GR	55 SB		9 9			
36 6	┞		H		((2 1))	
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Connector No. 151 Connector Name A/T ASSEMBLY Connector Type RK1016 Doy (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\) (\$\frac{1}{2}\)	Terminal Color Of Signal Name (Specification) No. Wire I V IGNITION POWER SUPPLY 2 8 BATTEKY POWER SUPPLY MANAGER SUPPLY A V CANH CAN	
Commector No. E110 Commector Name STOP LAMP SWITCH Commector Type MAJH-LC 1 2 3 4	Terminal Color Of Signal Name Specification Wire	
Connector No. E103 Connector Name (1/36 BLOCK (I/R)) Connector Type (NS16FW-C5 (MS16FW-C5 (MS16FW-	Ferminal Color Of Signal Name [Specification] No. 11 18 18 18 18 18 18 1	
Terminal Color Of Signal Name Specification No. Wire Signal Name Specification No. Wire Signal Name Specification OR - [Roadster models OR - [Coupe models Ormector Name INITLUIGINT KEY WARRINKG BUZZER	Terminal Color Of Wire Signal Name (Specification)	
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Connector No. M22	Connector Name KEY SLOT Connector Type TH12FW-NH	1	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) 1 p P Signal Name (Specification) 2 c GR CLOCK 2 c GR CLOCK 2 c V III RAT Signal Name (Specification) Signal Name (Specification) No. Name (Spe	LG B C KEYSI	Connector No. N/24 Connector Name DATA LINK CONNECTOR Connector Type 80 15 N/V H.S.	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] 3
Connector No. M9	Connector Name DIODE Connector Type 24335 C9900		Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] 1 W 2 R	Connector No. M14 Connector Name TRUNK LID OPENER CANCEL SWITCH Connector Type SO2FW	Terminal Coby Of Wire Signal Name (Specification)	
Connector No. M2	Connector Name FUSE BLOCK (J/B) Connector Type NS10FW-CS	1	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) 48 P Signal Name (Specification) 48 C Signal Name (Specification) 48 C Signal Name (Specification) 48 C Signal Name (Specification) Signal Name (Specificat	88 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Connector No. M3 Connector Name R15E BLOCK (J/B) Connector Type NS13PW CS MS MS (20 100 100 90 70 60	Terminal Color Of Signal Name [Specification] No. Wire
BCM (BODY CONTROL MODULE) Connector No. F301	Connector Name TCM Connector Type SP10FG		Color Of Signal Name (Specification) No. Wire Signal Name (Specification) No. W IGNITION POWER SUPPLY 2 B BATTER POWER SUPPLY NAEAGOLUP 3 R CANH	G GR IGN	No. M1 North Name FUS	1 1 1 1 1 1 1 1 1 1

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BCM (BODY Connector No. Connector Name Connector Type	Terminal Color Of No. Wree No.	Terminal Color Of	N
BCM (BODY CONTROL MODULE) Connector No. Connector Name (OMBINATION SWITCH COnnector Type ITH 6FW-MH	1 2 6 6 7 8 9 01112 314	Signal Name [Specification]	L
Connector No. Connector Name Connector Type	Terminal Color of No. Wire No. No.		SEC
M53 COMBINATION METER TH24EW.NH	1 2 3 4 5 6 9 10 12 22 22 24 15 16 17 18 18 18 18 18 18 18		J
	Terminal Color Of No. Wire Wire	Terminal Color Of No. Wire I I I I I I I I I I I I I I I I I I I	Н
MS4 COMBINATION WETER THISTW-NH	Signal hame (Secrification) Signal Manne (Secrification) Signal hame (Secrification) ALTERNATION SIGNAL Signal hame (Secrification) ALTERNATION SIGNAL BARRING SIGNAL WANGER LIVEL EVEN SIGNAL BARRING SIGNAL SIGNAL BARRING SIGNAL SIGNAL BARRING SHITTER UNIVERSIGNAL BARRING SIGNAL SIGNAL BARRING SIGNAL	Signal Name [Specification]	F G
No. Name Type	Terminal Color Of No. Wire No. Wire No. No		D
M66 A/C AUTO AMP. SAB40FW	Signal Name Specification Signal Signal Signal Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Signal		С
	ation] Sign (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		В

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ROL MODULE) Connector Name BOM (BODY CONTROL MODULE) Connector Name BOM (BODY CONTROL MODULE) Connector Type Intals 67 - AM MA121 Connector Name BOM (BODY CONTROL MODULE)	Signal Name Specification No. Signal Name Specification No. Wire Signal Name Specification No. Wire Signal Name Specification No. Wire Ludisdest (Tribuluk Root Natt. ALSENINGER DOOL AUG. COUPLY 35 R Ludisdest (Tribuluk Root Natt. ALSENINGER DOOL AUG. COUPLY 38 R RAGE BUNNER ANT. SPECIFICATION NO. NO	1 —	Signal Name (Specification) Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) No. Wire Signal Name (Specification) No. Wire NO. N
o. M104 name returns butty REELVER (RROWT) rppe JA80469	Terminal Calour Of		Terminal Color Of Signal IN
BCM (BODY CONTROL MODULE) Connector No. M94	Terminal Color Of	Terminal Color Of Signal Name (Specification) No. No.	

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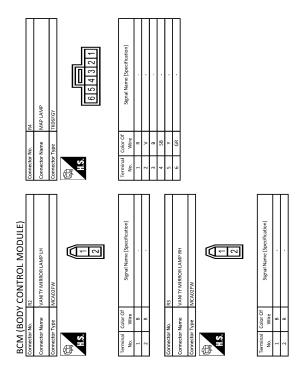
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	aa >	> 8	57 O DEPLOYMENT INFORMATION OUTPUT	_	60 P			Connector No.	T	Connector Name HAZARD SWITCH		Connector Type TK04FW					60 60	9 1 2 4			Terminal Color Of	1 B GROUND	2 G BCM		4 O ILL- [Roadster models]		Consociation	T	Connector Name INSIDE KEY ANTENNA (CONSOLE)	Connector Type RK02FGY	4	W Athtr		((1 2))			Tarminal Color Of		1 G - [Roadster models]	1 P - (Coupe models)	2 L - (Coupe models)	2 R - [Roadster models]				
	Т	Connector Name HAZARD SWITCH	Connector Type TK04FW	1				1010	4 7 1 6				Terminal Color Of		t			×	4 B III-		Connector No M147		Connector Type NH28FY-EX		8 9 7 6 7 9 5 4 3		19 52 54 23 24 22	18 51 53 60 59 25 57 1		ler O	1 1.6 IGN		3 Y DR1(+)	4 Y DR1(-) DR2(-)	> :	6 Y ASI(+)	7 (A) A(C) (A)	9 Y AS2(:)	18 R ECZS (+)	1	22 SHIELD GND	œ	Ь		51 W SATELUTE RH2 (+)	
	GR	2 3	139 L TREE PRESS RECEIV COMM	g	141 Y SECURITY INDICATOR	0	143 P COMBISW OUTPUT 1		,	_	SB	150 GR DRIVER DOOR SW	15.1 G REAR WINDOW DEFOGGER RELAY CONT			Copportor No. 144137	T	Connector Name A/T SHIFT SELECTOR	Т	Competion type TATOPW	4	12 3 4	5 6 7 8 9 10			nal C	2	2 v	3 1	. 8 B	2 ac	╀	d 8	У 6	10 R -											
BCM (BODY CONTROL MODULE)	NATS ANT AMP.	IGN RELAY (F/B) CON!	COMBI SW INPUT 5	COMBI SW INPUT 3	CAN-L	CAN-H	KEYSLOTILL	divino	ONINO	ACC RELAY CONT	A/T SHIFT SELECTOR POWER SUPPLY	SHIFT P/CLUTCH PEDAL POS SW	PASSENGER DOOR REQUEST SW	DRIVER DOOR REQUEST SW	BLOWER FAN MOTOR RELAY CONT	KYIS ENT DECEIVED (EDONT) DAVID SINDOLV	COMMERCIAL INDICATA	COMBI SW INPOLI	COMBI SW INPUT 4	COMBI SW INPOLZ	ANC CHARACTER	M123	BCM (BODY CONTROL MODULE)	TH40FG-NH			K	120 (25)	71I			Signal Name [Specification]	OPTICAL SENSOR	CLUTCH INTERLOCK SW		STOP LAMP SW 1	DR DOOR LINI OCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	TRUNK LID OPENER CANCEL SW	REAR DEFOGGER SW	P/W SW & SOFT TOP C/U COMM [Roadster models]	POWER WINDOW SW COMM [Coupe models]	PUSH BUTTON IGNITION SWILL POWER	
BCM (BOD)	+	$^{+}$	87 98	H	d 06	91	92 16	╀	+	4	y 96	99 R	100 GR	L	102	┸	1	1	108 R	1109	1	Connector No.	Connector Name	Connector Type	4	彦	SE				Terminal Color Of	No. Wire	H	114 R	+	+	110 CB	╀	>	9	0	٦	>	132 Y	Ø	

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Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
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
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled Status 1 Clutch switch signal (CAN from ECM): ON Clutch interlock switch signal: OFF (0 V) Status 2 Clutch switch signal (CAN from ECM): OFF Clutch interlock switch signal: ON (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000012024708

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 CIRCUIT 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	

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Priority	DTC
4	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2608: STARTER RELAY B2608: STARTER RELAY B2608: GNITION RELAY B2607: ENG STATE SIG LOST B2614: BCM B2615: BCM B2616: BCM B2617: BCM B2618: BCM B2618: BCM B2618: CLUTCH SW B2618: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG
5	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1734: CONTROL UNIT
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

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>SEC-24, "COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)"</u>.

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-49
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-50
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-51

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-46
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-49
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-50
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-52
B2195: ANTI SCANNING	×	_	_	_	<u>SEC-53</u>
B2553: IGNITION RELAY	_	×	_	_	PCS-54
B2555: STOP LAMP	_	×	_	_	<u>SEC-54</u>
B2556: PUSH-BTN IGN SW	_	×	×	_	<u>SEC-56</u>
B2557: VEHICLE SPEED	×	×	×	_	SEC-58
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-59</u>
B2562: LOW VOLTAGE	_	×	_	_	BCS-52
B2601: SHIFT POSITION	×	×	×	_	SEC-60
B2602: SHIFT POSITION	×	×	×	_	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-66
B2604: PNP SW	×	×	×	_	SEC-69
B2605: PNP SW	×	×	×	_	SEC-71
B2608: STARTER RELAY	×	×	×	_	SEC-73
B260A: IGNITION RELAY	×	×	×	_	PCS-56
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-75
B2614: BCM	_	×	×	_	PCS-58
B2615: BCM	_	×	×	_	PCS-61
B2616: BCM	_	×	×	_	PCS-64
B2617: BCM	×	×	×	_	SEC-79
B2618: BCM	×	×	×	_	PCS-67
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-68
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-82</u>
B2621: INSIDE ANTENNA	_	×	_	_	DLK-284
B2622: INSIDE ANTENNA	_	×	_	_	• <u>DLK-86</u> (Coupe) • <u>DLK-286</u> (Road- ster)
B2623: INSIDE ANTENNA	_	×	_	_	• <u>DLK-88</u> (Coupe) • <u>DLK-288</u> (Road- ster)
B26E8: CLUTCH SW	×	×	×	_	SEC-76
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-78
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	VALL OA
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-24</u>
C1707: LOW PRESSURE RL	_	_	_	×	

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT-26
C1710: [NO DATA] RR	_	_	_	×	<u>vv1-20</u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-29
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>vv 1-29</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-31</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-33</u>

< ECU DIAGNOSIS INFORMATION >

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

Reference Value

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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.

CONSULT	MONITOR ITE	ΞM
---------	-------------	----

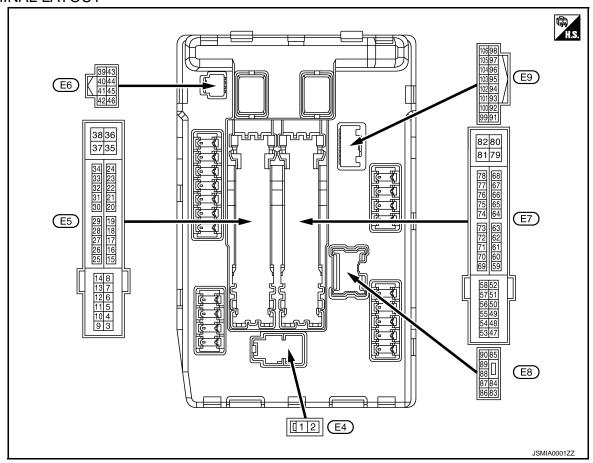
Monitor Item		Condition	Value/Status	
RAD FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 - 100 %	
		A/C switch OFF	Off	
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On	
AIL&CLR REQ	Lighting switch OFF		Off	
AILOCLIN INLO	Lighting switch 1ST, 2ND, HI or	r AUTO (Light is illuminated)	On	
	Lighting switch OFF		Off	
IL LO REQ	Lighting switch 2ND HI or AUT	O (Light is illuminated)	On	
	Daytime running light system is	s operated (With daytime running light system)	Oli	
IL HI REQ	Lighting switch OFF		Off	
IL HI KEQ	Lighting switch HI		On	
R FOG REQ	Daytime running light system is	s not operated	Off	
-K FOG KEQ	Daytime running light system is operated		On	
		Front wiper switch OFF	Stop	
D WID DEO	Ignition switch ON	Front wiper switch INT	1LOW	
FR WIP REQ	ignition switch ON	Front wiper switch LO	Low	
		Front wiper switch HI	Hi	
		Front wiper stop position	STOP P	
VIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P	
		Front wiper operates normally	Off	
VIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK	
CN DIVA DEO	Ignition switch OFF or ACC		Off	
GN RLY1 -REQ	Ignition switch ON		On	
ON DLV	Ignition switch OFF or ACC		Off	
GN RLY	Ignition switch ON		On	
	Release the push-button ignition	on switch	Off	
PUSH SW	Press the push-button ignition	switch	On	
	Ignition switch ON	Selector lever in any position other than P or N (A/T models)	Off	
NITED/ND CW		Release clutch pedal (M/T models)		
NTER/NP SW	Ignition switch ON	Selector lever in P or N position (A/T models)	On	
		Depress clutch pedal (M/T models)	.	

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Monitor Item	Cor	Value/Status			
OT DLV CONT	Ignition switch ON	Off			
ST RLY CONT	At engine cranking		On		
IUDT DIV DEO	Ignition switch ON		Off		
IHBT RLY -REQ	At engine cranking		On		
	Ignition switch ON		Off		
	At engine cranking		INHI ON \rightarrow ST ON		
ST/INHI RLY	•	ontrol relay cannot be recognized by the n the starter relay is ON and the starter	UNKWN		
DETENT SW	Ignition switch ON	 Press the selector button with selector lever in P position Selector lever in any position other than P 	Off		
	Release the selector button with sele NOTE: Fixed On for M/T models	On			
S/L RLY -REQ	NOTE: The item is indicated, but not monitor	Off			
S/L STATE	NOTE: The item is indicated, but not monitor	UNLOCK			
DTRL REQ	NOTE: The item is indicated, but not monitor	Off			
OIL P SW	Ignition switch OFF, ACC or engine ru	unning	Open		
OIL F 3W	Ignition switch ON		Close		
HOOD SW	Close the hood		Off		
1100D 3W	Open the hood		On		
HL WASHER REQ	NOTE: The item is indicated, but not monitor	Off			
	Not operation		Off		
THFT HRN REQ	Panic alarm is activatedHorn is activated with VEHICLE SE	On			
HODN CHIDD	Not operating		Off		
HORN CHIRP	Door locking with Intelligent Key (horn	n chirp mode)	On		
CRNRNG LMP REQ	NOTE: The item is indicated, but not monitor				

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

							J
	inal No.	Description				Value	_
(Wire	e color) –	Signal name	Input/ Output		Condition	(Approx.)	SEC
1 (W)	Ground	Battery power supply	Input	Ignition switch O	FF	Battery voltage	
2 (L)	Ground	Battery power supply	Input	Ignition switch O	FF	Battery voltage	_ L
4	Craund	Front winer I O	Outroit	Ignition switch	Front wiper switch OFF	0 V	_
(V)	Ground	Front wiper LO	Output	ON	Front wiper switch LO	Battery voltage	- M
5	Ground	Front wiper HI	Output	Ignition switch	Front wiper switch OFF	0 V	_
(L)	Ground	Front wiper mi	Output	ON	Front wiper switch HI	Battery voltage	N
7		Illuminations		Ignition owitch	Lighting switch OFF	0 V	
(R) ^{*3} (V) ^{*4}	Ground	Tail, license plate lamps & illuminations	Output	Ignition switch ON	Lighting switch 1ST	Battery voltage	0
12 (B/W)	Ground	Ground	_	Ignition switch O	N	0 V	_
13		Fuel pump power sup-		Approximately 1 ing the ignition s	second or more after turn- witch ON	0 V	Р
(Y)	Ground	ply	Output	Approximately ignition switchEngine running		Battery voltage	_

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	inal No.	Description			_	Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
16 (LG)	Ground	Front wiper auto stop	Input	Ignition switch ON	Front wiper stop position Any position other than front wiper stop position	0 V Battery voltage
19	0	Ignition relay power	0.1.1	Ignition switch Ol	FF	0 V
(W)	Ground	supply	Output	Ignition switch Ol	N	Battery voltage
25	Cravad	Ignition relay power	Outrout	Ignition switch Ol	FF	0 V
(G)	Ground	supply	Output	Ignition switch Ol	N	Battery voltage
27	Ground	Ignition rolay monitor	Input	Ignition switch O	FF or ACC	Battery voltage
(Y)	Ground	Ignition relay monitor	Input	Ignition switch Ol	N	0 V
28	Ground	Push-button ignition	Input	Press the push-b	utton ignition switch	0 V
(L)	Giodila	switch	Input	Release the push	n-button ignition switch	Battery voltage
				A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V
30 (GR)	Ground	Starter relay control	Input		Selector lever P or N (Ignition switch ON)	Battery voltage
				M/T models	Release the clutch pedal	0 V
				W/T models	Depress the clutch pedal	Battery voltage
36 (G)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
39 (P)		CAN-L	Input/ Output	_		_
40 (L)	_	CAN-H	Input/ Output	_		_
41 (B/W)	Ground	Ground	_	Ignition switch Ol	N	0 V
42	Ground	Cooling fan relay con-	Input	Ignition switch Ol	FF or ACC	0 V
(Y)		trol		Ignition switch Ol	V	0.7 V
43 ^{*1} (SB)	Ground	A/T shift selector (Detention switch)	Input	Ignition switch	Press the selector button (selector lever P) Selector lever in any position other than P	Battery voltage
					Release the selector button (selector lever P)	0 V
44	Ground	Horn relay control	Input	The horn is deac	tivated	Battery voltage
(W)	Ciodila		input	The horn is active	ated	0 V
45	Ground	Anti theft horn relay	Input	The horn is deac	tivated	Battery voltage
(G)	Siddid	control	put	The horn is active	ated	0 V
40				A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V
46 (V)	Ground	Starter relay control	Input		Selector lever P or N (Ignition switch ON)	Battery voltage
				M/T models	Release the clutch pedal	0 V
					Depress the clutch pedal	Battery voltage

	inal No.	Description				Volue	_
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	F
					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		ECM relay power sup-		Ignition switch Ol (More than a few tion switch OFF)	F seconds after turning igni-	0 V	_ (
(BG)	Ground	ply	Output	Ignition switch Ignition switch (For a few second switch OFF)		Battery voltage	[
51	Cround	Ignition relay power	Output	Ignition switch Ol	FF	0 V	
(Y)	Ground	supply	Output	Ignition switch Ol	N	Battery voltage	
53		ECM relay power sup-		Ignition switch Ol (More than a few tion switch OFF)	FF seconds after turning igni-	0 V	F
(W)	Ground	ply	Output	Ignition switch Ignition switch (For a few second switch OFF)		Battery voltage	(
54		Throttle control motor		Ignition switch Ol (More than a few tion switch OFF)	FF seconds after turning igni-	0 V	-
(V)	Ground	relay power supply	Output	Ignition switch Ignition switch (For a few second switch OFF)		Battery voltage	
55 (SB)	Ground	ECM power supply	Output	Ignition switch Ol	=F	Battery voltage	
56	Ground	Ignition relay power	Output	Ignition switch Ol	FF	0 V	SI
(LG)	Ground	supply	Output	Ignition switch Ol	V	Battery voltage	Ŭ
57	Ground	Ignition relay power	Output	Ignition switch Ol	FF .	0 V	
(G)	Ground	supply	Output	Ignition switch Ol	N	Battery voltage	
58 ^{*1}	Ground	Ignition relay power	Output	Ignition switch Ol	FF	0 V	
(P)	Ground	supply	Output	Ignition switch Ol	N	Battery voltage	
69				Ignition switch Ol (More than a few tion switch OFF)	FF seconds after turning igni-	Battery voltage	
(BR)	Ground	ECM relay control	Output	Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF)		0 - 1.5 V	(
70 (BG)	Ground	Throttle control motor relay control	Output	Ignition switch Ol	N → OFF	0 -1.0 V ↓ Battery voltage ↓ 0 V	F
				Ignition switch Ol	V	0 - 1.0 V	

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
				Selector lever in any position other than P or N (Ignition switch ON)		0 V
72 (GR)	Ground	Starter relay control	Input		Selector lever P or N (Ignition switch ON)	Battery voltage
				M/T models	Release the clutch pedal	0 V
				W/T models	Depress the clutch pedal	Battery voltage
73 ^{*2}	Ground	Ignition relay power	Output	Ignition switch O	FF	0 V
(GR)	0.00	supply		Ignition switch O	N	Battery voltage
74	Ground	Ignition relay power	Output	Ignition switch O	FF	0 V
(G)		supply		Ignition switch O	N	Battery voltage
75 (OD)	Ground	Oil pressure switch	Input	Ignition switch	Engine stopped	0 V
(SB)		•	•	ON	Engine running	Battery voltage
76 ^{*5} (Y)	Ground	Power generation command signal	Output		_	_
77 (R)	Ground	Fuel pump relay control	Output	Approximately ignition switchEngine running		0 - 1.0 V
(11)				Approximately 1 second or more after turning the ignition switch ON		Battery voltage
80 (W)	Ground	Starter motor	Output	At engine cranking		Battery voltage
83	Cround	Hoodloma I O (BH)	Output	Ignition switch	Lighting switch OFF	0 V
(R)	Ground	Headlamp LO (RH)	Output	ON	Lighting switch 2ND	Battery voltage
84	Ground	Headlamp LO (LH)	Output	Ignition switch	Lighting switch OFF	0 V
(P)	Ground	ricadiamp EO (Ei i)	Output	ON	Lighting switch 2ND	Battery voltage
86 (BG)	Ground	Daytime running light (RH)	Output	Daytime running ed	light system is not operat-	0 V
(66)		(KII)		Daytime running	light system is operated	Battery voltage
87 (R)	Ground	Daytime running light (LH)	Output	Daytime running ed	light system is not operat-	0 V
(11)		(Li i)		Daytime running	light system is operated	Battery voltage
88 (G)	Ground	Washer pump power supply	Output	Ignition switch O	N	Battery voltage
89				Ignition switch	Lighting switch OFF	0 V
(BR)	Ground	Headlamp HI (RH)	Output	ON	Lighting switch HI Lighting switch PASS	Battery voltage
90				Ignition switch	Lighting switch OFF	0 V
(LG)	Ground	Headlamp HI (LH)	Output	ON	Lighting switch HI Lighting switch PASS	Battery voltage
91	Ground	Parking lamp (PU)	Output	Ignition switch	Lighting switch OFF	0 V
(P)	Ground	Parking lamp (RH)	Output	ŎN	Lighting switch 1ST	Battery voltage
92	Ground	Parking James (LLI)	Outout	Ignition switch	Lighting switch OFF	0 V
(BG)	Giouria	Parking lamp (LH)	Output	ON	Lighting switch 1ST	Battery voltage
97 (V)	Ground	Cooling fan control	Output	Engine idling		0 - 5 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description			Value
(Wire	e color)	Signal name	Input/ Output	Condition	(Approx.)
104	-			Close the hood	Battery voltage
(LG)	Ground	Hood switch	Input	Open the hood	0 V

^{*1:} A/T models only

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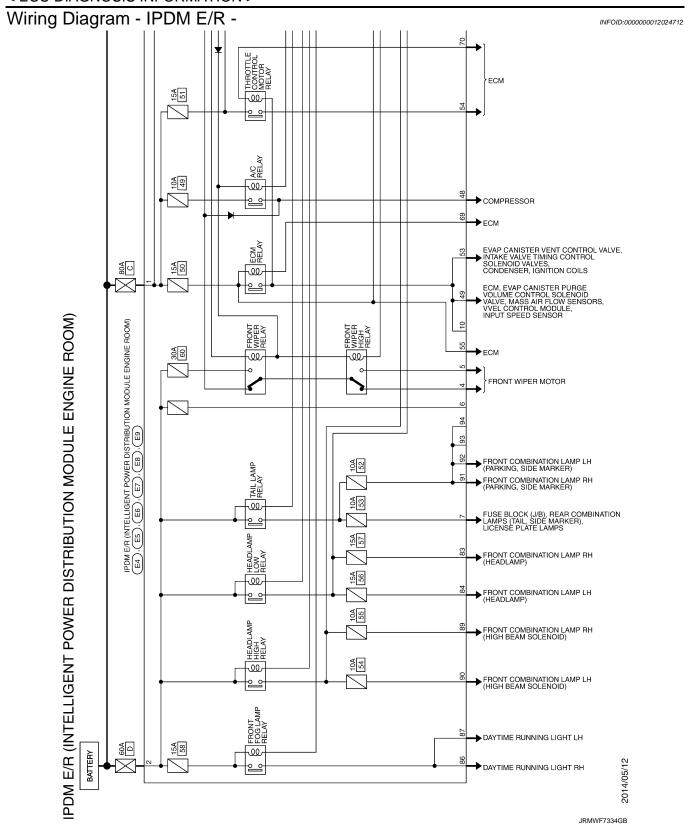
Revision: 2015 June **SEC-187** 2016 370Z

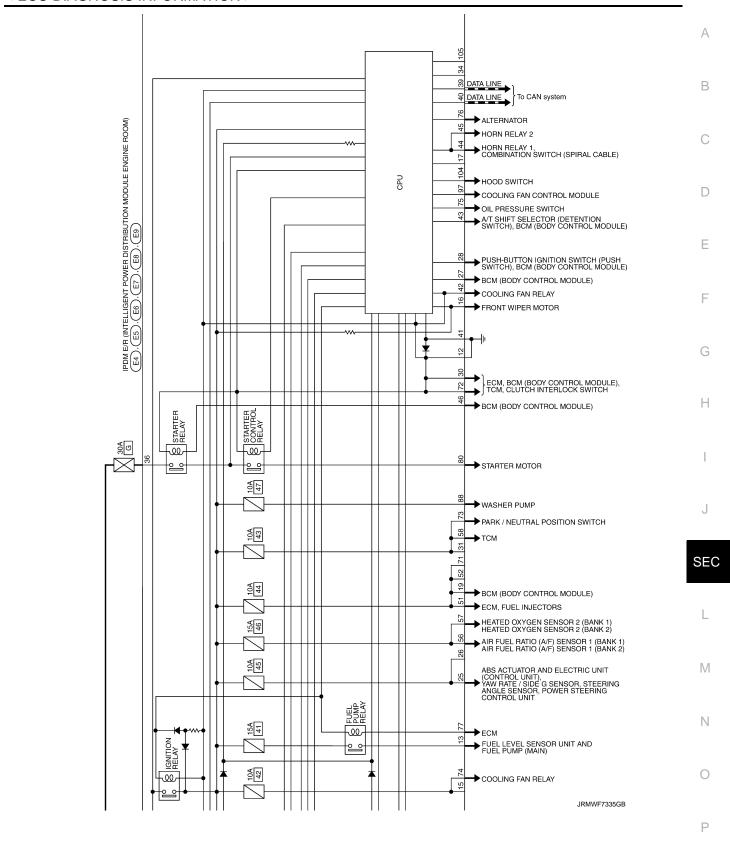
^{*2:} M/T models only

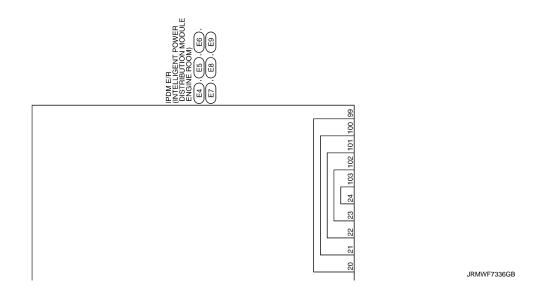
^{*3:} Coupe models

^{*4:} Roadster models

^{*5:} The harness is connected, but not used.

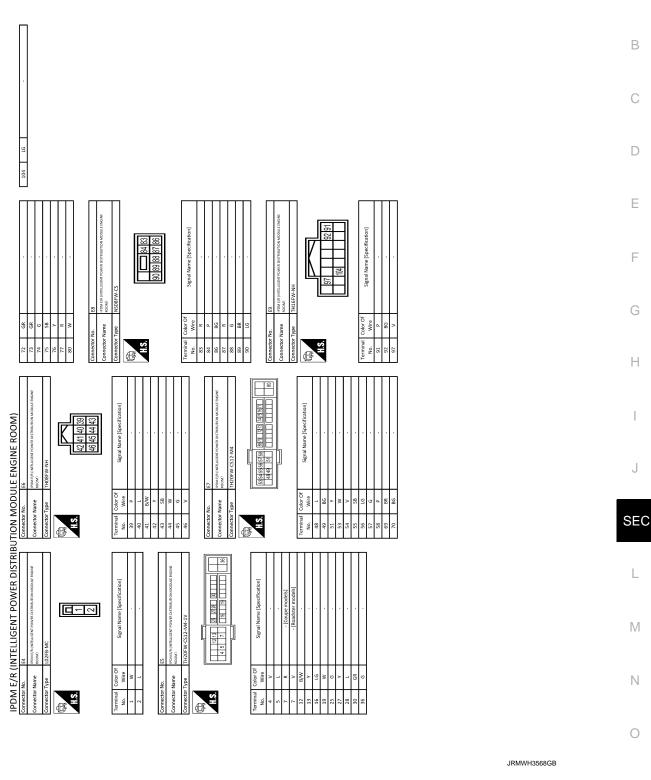






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< ECU DIAGNOSIS INFORMATION >



Fail-safe

CAN COMMUNICATION CONTROL

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

If No CAN Communication Is Available With ECM

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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
 Parking lamps Side maker lamp License plate lamps Illuminations Tail lamps 	 Turns ON the tail lamp relay and the daytime running light relay*1 when the ignition switch is turned ON Turns OFF the tail lamp relay and the daytime running light relay*1 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 AUTO mode and the front wiper motor is operating.
Horn	Horn relay OFF
Ignition relay	The status just before activation of fail-safe is maintained.
Starter motor	Starter control relay OFF

^{*:} With daytime running light system

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 the daytime running light relay for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

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 the daytime 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

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 ON.
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

		×: Applicable	
CONSULT display	Fail-safe	Refer to	
No DTC is detected. further testing may be required.	_	_	
U1000: CAN COMM CIRCUIT	×	PCS-15	
B2098: IGN RELAY ON CIRC	×	PCS-16	
B2099: IGN RELAY OFF CIRC	_	PCS-18	
B210B: STR CONT RLY ON CIRC	_	<u>SEC-85</u>	
B210C: STR CONT RLY OFF CIRC	_	<u>SEC-86</u>	
B210D: STARTER RLY ON CIRC	_	<u>SEC-87</u>	
B210E: STARTER RLY OFF CIRC	_	<u>SEC-88</u>	
B210F: INTRLCK/PNP SW ON	_	<u>SEC-90</u>	
B2110: INTRLCK/PNP SW OFF	_	<u>SEC-92</u>	

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Revision: 2015 June **SEC-193** 2016 370Z

ENGINE DOES NOT START WHEN INTELLIGENT KEY IS INSIDE OF VEHICLE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

ENGINE DOES NOT START WHEN INTELLIGENT KEY IS INSIDE OF VEHICLE

Description INFOID:000000011740507

Engine does not start when push-button ignition switch is pressed while carrying Intelligent Key.

- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- 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:0000000011740508

1.PERFORM WORK SUPPORT

Perform "INSIDE ANT DIAGNOSIS" on Work Support in "INTELLIGENT KEY".

Refer to <u>DLK-43, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) (For Coupe)"</u> or <u>DLK-237, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) (For Roadster)"</u>.

>> GO TO 2.

2. PERFORM SELF-DIAGNOSTIC RESULT

Perform Self-Diagnostic Result in "BCM", and check whether or not DTC of inside key antenna is detected.

Is DTC detected?

YES >> Refer to <u>DLK-86</u>, "<u>DTC Logic</u>" (console) or <u>DLK-88</u>, "<u>DTC Logic</u>" (luggage room).

NO >> GO TO 3.

3.CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.

Refer to PCS-71, "Component Function Check".

Is the operation normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

SECURITY INDICATOR LAMP DOES NOT TURN ON OR BLINK

< SYMPTOM DIAGNOSIS > SECURITY INDICATOR LAMP DOES NOT TURN ON OR BLINK Α Description INFOID:0000000011740509 Security indicator lamp does not blink when ignition switch is in a position other than ON В NOTE: Before performing the diagnosis, check "Work Flow". Refer to <u>SEC-5, "Work Flow".</u> · Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom. Conditions of Vehicle (Operating Conditions) D · Intelligent Key is not inserted in key slot. Ignition switch is not in the ON position. Diagnosis Procedure INFOID:0000000011740510 Е 1. CHECK SECURITY INDICATOR LAMP Check security indicator lamp. F Refer to SEC-103, "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-45, "Intermittent Incident". NO >> GO TO 1.

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SEC-195 Revision: 2015 June 2016 370Z

VEHICLE SECURITY SYSTEM CANNOT BE SET

< SYMPTOM DIAGNOSIS >

VEHICLE SECURITY SYSTEM CANNOT BE SET

INTELLIGENT KEY

INTELLIGENT KEY: Description

INFOID:0000000011740511

Armed phase is not activated when door is locked using Intelligent Key.

NOTE:

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

CONDITION OF VEHICLE (OPERATING CONDITION)

Confirm the setting of "SECURITY ALARM SET" in "WORK SUPPORT" in "THEFT ALM" using CONSULT.

INTELLIGENT KEY: Diagnosis Procedure

INFOID:0000000011740512

1.check intelligent key system (remote keyless entry function)

Lock/unlock door with Intelligent Key.

Refer to <u>DLK-30</u>, "<u>REMOTE KEYLESS ENTRY FUNCTION</u>: <u>System Diagram</u>" (Coupe models) or <u>DLK-224</u>, "<u>REMOTE KEYLESS ENTRY FUNCTION</u>: <u>System Diagram</u>" (Roadster models).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check Intelligent Key system (remote keyless entry function). Refer to <u>DLK-134, "Diagnosis Procedure"</u> (Coupe models) or <u>DLK-337, "Diagnosis Procedure"</u> (Roadster models).

2. CHECK HOOD SWITCH

Check hood switch.

Refer to SEC-99, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH: Description

INFOID:0000000011740513

Armed phase is not activated when door is locked using door request switch.

NOTE:

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

CONDITION OF VEHICLE (OPERATING CONDITION)

Confirm the setting of "SECURITY ALARM SET" in "WORK SUPPORT" in "THEFT ALM" using CONSULT.

DOOR REQUEST SWITCH: Diagnosis Procedure

INFOID:0000000011740514

1. CHECK INTELLIGENT KEY SYSTEM (DOOR LOCK FUNCTION)

Lock/unlock door with door request switch.

Refer to <u>DLK-26, "DOOR LOCK FUNCTION: System Description"</u> (Coupe models) or <u>DLK-221, "DOOR LOCK FUNCTION: System Description"</u> (Roadster models).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check Intelligent Key system (door lock function). Refer to <u>DLK-132, "ALL DOOR: Diagnosis Procedure"</u> (Coupe models) or <u>DLK-335, "ALL DOOR: Diagnosis Procedure"</u> (Roadster models).

VEHICLE SECURITY SYSTEM CANNOT BE SET

VEHICLE SECURITY SYSTEM CANNOT BE SET < SYMPTOM DIAGNOSIS >	
2.CHECK HOOD SWITCH	Α.
Check hood switch. Refer to SEC-99, "Component Function Check".	A
Is the inspection result normal? YES >> GO TO 3.	В
NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION	C
Confirm the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". NO >> GO TO 1.	D
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VEHICLE SECURITY ALARM DOES NOT ACTIVATE

< SYMPTOM DIAGNOSIS >

VEHICLE SECURITY ALARM DOES NOT ACTIVATE

Description INFOID:0000000011740515

Alarm does not operate when alarm operating condition is satisfied.

NOTE:

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:0000000011740516

1. CHECK DOOR SWITCH

Check door switch.

Refer to <u>DLK-90, "Component Function Check"</u> (Coupe models) or <u>DLK-290, "Component Function Check"</u> (Roadster models).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the malfunctioning door switch

2. CHECK HOOD SWITCH

Check hood switch.

Refer to SEC-99, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK HEADLAMP

Check headlamp.

Refer to EXL-76, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK HORN

Check horn.

Refer to HRN-2, "Wiring Diagram - HORN -".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

INTELLIGENT KEY INSERT INFORMATION DOES NOT OPERATE

Description Intelligent Key insert information does not operate when push-button ignition switch is operated while Intelligent Key is not inside vehicle. NOTE: Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to ensure proper operation. Refer to DLK-33. "WARNING FUNCTION: System Description" (Coupe models) or DLK-227. "WARNING FUNCTION: System Description" (Roadster models). Diagnosis Procedure 1. CHECK POWER POSITION Check if ignition switch position is changing or not. Desc ignition switch position is change? YES >> GO TO 3. NO >> GO TO 2. 2. CHECK PUSH-BUTTON IGNITION SWITCH Check push-button ignition switch. Refer to PCS-71. "Component Function Check." Is the inspection result normal? YES >> Check BCM for DTC. Refer to BCS-93. "DTC Index." NO >> Repair or replace the malfunctioning parts. 3. CHECK DOOR SWITCH Check door switch. Refer to DLK-90. "Component Function Check." (Coupe models) or DLK-290. "Component Function Check." (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to DEC-98. "Component Function Check." Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Check combination meter display. Check key slot. Refer to DEC-98. "Component Function Check." Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97. "Component Function Check." Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts. 7. CONFIRM THE OPERATION	INTELLIGENT KEY INSERT INFORMATION DOES NOT OPERA	ATE
gent Key is not inside vehicle. NOTE: Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to ensure proper operation. Refer to DLK:33. "WARNING FUNCTION." System Description" (Coupe models) or DLK:227. "WARNING FUNCTION." System Description" (Roadster models). Diagnosis Procedure 1. CHECK POWER POSITION Check if ignition switch position is changing or not. Does ignition switch position is changing or not. Does ignition switch position system. YES. S. GO TO 3. NO. S. GO TO 2. 2. CHECK PUSH-BUTTON IGNITION SWITCH Check push-button ignition switch. Refer to PCS-71. "Component Function Check". Is the inspection result normal? YES. S. Check BCM for DTC. Refer to BCS-99. "DTC Index". NO. S. Repair or replace the malfunctioning parts. 3. CHECK DOOR SWITCH Check door switch. Refer to DLK:90. "Component Function Check" (Coupe models) or DLK-290. "Component Function Check" (Roadster models). Is the inspection result normal? YES. S. GO TO 4. NO. S. Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96. "Component Function Check". Is the inspection result normal? YES. S. GO TO 5. NO. S. Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK:123. "Component Function Check" (Coupe models) or DLK-326. "Component Function Check" (Roadster models). Is the inspection result normal? YES. S. GO TO 6. NO. S. Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot includence. Refer to SEC-97. "Component Function Check". Is the inspection result normal? YES. S. GO TO 7. NO S. Repair or replace the malfunctioning parts.	Description	INFOID:0000000011740517
Warning functions operating condition is extremely complicated. During operation confirms for resoniting the list above twice in order to ensure proper operation. Refer to DIK-33 "WARNING FUNCTION : System Description" (Coupe models) or DLK-227, "WARNING FUNCTION : System Description" (Roadster models). Diagnosis Procedure 1. CHECK POWER POSITION Check Ki fignition switch position is changing or not. Does ignition switch position change? YES >> GO TO 3. NO >> GO TO 2. 2. CHECK PUSH-BUTTON IGNITION SWITCH Check push-button ignition switch. Refer to PCS-71, "Component Function Check". Is the inspection result normal? YES >> Check BCM for DTC. Refer to BCS-99, "DTC Index". NO >> Repair or replace the malfunctioning parts. 3. CHECK DOOR SWITCH Check door switch. Refer to DLK-30, "Component Function Check" (Coupe models) or DLK-290, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check". Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	gent Key is not inside vehicle.	ated while Intelli-
1. CHECK POWER POSITION Check if ignition switch position is changing or not. Does ignition switch position change? YES >> GO TO 3. NO >> GO TO 2. 2. CHECK PUSH-BUTTON IGNITION SWITCH Check push-button ignition switch. Refer to PCS-71. "Component Function Check". Is the inspection result normal? YES >> Check BOM for DTC. Refer to BCS-99. "DTC Index". NO >> Repair or replace the malfunctioning parts. 3. CHECK DOOR SWITCH Check door switch. Refer to DLK-90. "Component Function Check" (Coupe models) or DLK-290. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96. "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123. "Component Function Check" (Coupe models) or DLK-326. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97. "Component Function Check". Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97. "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	Warning functions operating condition is extremely complicated. During operation confirmation is above twice in order to ensure proper operation. Refer to DLK-33 , "WARNING FUNCTIONS FUNCTIONS IN THE PROPERTY OF THE PR	CTION: System
Check if ignition switch position is changing or not. Does ignition switch position change? YES >> GO TO 3. NO >> GO TO 2. 2. CHECK PUSH-BUTTON IGNITION SWITCH Check push-button ignition switch. Refer to PCS-71. "Component Function Check". Is the inspection result normal? YES >> Check BCM for DTC. Refer to BCS-99. "DTC Index". NO >> Repair or replace the malfunctioning parts. 3. CHECK DOOR SWITCH Check door switch. Refer to DLK-90. "Component Function Check" (Coupe models) or DLK-290. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96. "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123. "Component Function Check". "Component Function Check". (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97. "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	Diagnosis Procedure	INFOID:0000000011740518
Does ignition switch position change? YES >> GO TO 3. NO >> GO TO 2. 2.CHECK PUSH-BUTTON IGNITION SWITCH Check push-button ignition switch. Refer to PCS-71, "Component Function Check". Is the inspection result normal? YES >> Check BCM for DTC. Refer to BCS-99, "DTC Index". NO >> Repair or replace the malfunctioning parts. 3.CHECK DOOR SWITCH Check door switch. Refer to DLK-90, "Component Function Check" (Coupe models) or DLK-290, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4.CHECK KEY SLOT Check key slot. Refer to SEC-96, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5.CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check" (Coupe models) or DLK-326, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6.CHECK KEY SLOT INDICATOR Check Key Slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts. Sec. 97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	1.CHECK POWER POSITION	
NO >> GO TO 2. 2. CHECK PUSH-BUTTON IGNITION SWITCH Check push-button ignition switch. Refer to PCS-71. "Component Function Check". Is. the inspection result normal? YES >> Check BCM for DTC. Refer to BCS-99. "DTC Index". NO >> Repair or replace the malfunctioning parts. 3. CHECK DOOR SWITCH Check door switch. Refer to DLK-90. "Component Function Check" (Coupe models) or DLK-290. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96. "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123. "Component Function Check" (Coupe models) or DLK-326. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97. "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	Does ignition switch position change?	
Check push-button ignition switch. Refer to PCS-71. "Component Function Check". Is the inspection result normal? YES >> Check BCM for DTC. Refer to BCS-99. "DTC Index". NO >> Repair or replace the malfunctioning parts. 3. CHECK DOOR SWITCH Check door switch. Refer to DLK-90. "Component Function Check" (Coupe models) or DLK-290. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96. "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123. "Component Function Check" (Coupe models) or DLK-326. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97. "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	NO >> GO TO 2.	
Refer to PCS-71. "Component Function Check". Is the inspection result normal? YES >> Check BCM for DTC. Refer to BCS-99. "DTC Index". NO >> Repair or replace the malfunctioning parts. 3. CHECK DOOR SWITCH Check door switch. Refer to DLK-90. "Component Function Check" (Coupe models) or DLK-290. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96. "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123. "Component Function Check" (Coupe models) or DLK-326. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97. "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.		
YES >> Check BCM for DTC. Refer to BCS-99, "DTC Index". NO >> Repair or replace the malfunctioning parts. 3. CHECK DOOR SWITCH Check door switch. Refer to DLK-90, "Component Function Check" (Coupe models) or DLK-290, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4, NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96, "Component Function Check". Is the inspection result normal? YES >> GO TO 5, NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check" (Coupe models) or DLK-326, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6, NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7, NO >> Repair or replace the malfunctioning parts.	Refer to PCS-71, "Component Function Check".	
Check door switch. Refer to DLK-90. "Component Function Check" (Coupe models) or DLK-290. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96. "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123. "Component Function Check" (Coupe models) or DLK-326. "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97. "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	YES >> Check BCM for DTC. Refer to <u>BCS-99</u> , " <u>DTC Index</u> ". NO >> Repair or replace the malfunctioning parts.	
Refer to DLK-90, "Component Function Check" (Coupe models) or DLK-290, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check" (Coupe models) or DLK-326, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.		
Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check" (Coupe models) or DLK-326, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	Refer to DLK-90, "Component Function Check" (Coupe models) or DLK-290, "Component F	-unction Check"
NO >> Repair or replace the malfunctioning parts. 4. CHECK KEY SLOT Check key slot. Refer to SEC-96, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check" (Coupe models) or DLK-326, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	s the inspection result normal?	
Check key slot. Refer to SEC-96, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check" (Coupe models) or DLK-326, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.		_
Refer to SEC-96, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check" (Coupe models) or DLK-326, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	4.CHECK KEY SLOT	
Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check" (Coupe models) or DLK-326, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.		
NO >> Repair or replace the malfunctioning parts. 5. CHECK COMBINATION METER DISPLAY Check combination meter display. Refer to DLK-123, "Component Function Check" (Coupe models) or DLK-326, "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.		
Check combination meter display. Refer to <u>DLK-123, "Component Function Check"</u> (Coupe models) or <u>DLK-326, "Component Function Check"</u> (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to <u>SEC-97, "Component Function Check"</u> . Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.		
Check combination meter display. Refer to <u>DLK-123</u> , "Component Function Check" (Coupe models) or <u>DLK-326</u> , "Component Function Check" (Roadster models). Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to <u>SEC-97</u> , "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.		
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6.CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	Check combination meter display. Refer to <u>DLK-123, "Component Function Check"</u> (Coupe models)	or <u>DLK-326,</u>
NO >> Repair or replace the malfunctioning parts. 6.CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	·	
6.CHECK KEY SLOT INDICATOR Check key slot indicator. Refer to SEC-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.		
Refer to <u>ŠEC-97, "Component Function Check"</u> . Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	31	
Is the inspection result normal? YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.		
_NO >> Repair or replace the malfunctioning parts.	s the inspection result normal?	
_		
	NO >> Repair or replace the malfunctioning parts	

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INTELLIGENT KEY INSERT INFORMATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

PANIC ALARM FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS > PANIC ALARM FUNCTION DOES NOT OPERATE	_
Description	Α
·	19
NOTE: Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-30 "REMOTE KEYLESS ENTRY FUNCTION : System Description" (Roadster models).	
Diagnosis Procedure	C 20
1. CHECK REMOTE KEYLESS ENTRY FUNCTION	D
Check remote keyless entry function.	_
Does door lock/unlock with Intelligent Key button?	Е
 YES >> GO TO 2. NO >> Refer to <u>DLK-134, "Diagnosis Procedure"</u> (Coupe models) or <u>DLK-337, "Diagnosis Procedure</u> (Roadster models). 	
2. CHECK VEHICLE SECURITY ALARM OPERATION	F
Check vehicle security alarm operation.	_
Does alarm (headlamp and horn) active?	G
YES >> GO TO 3. NO >> Refer to <u>SEC-198, "Diagnosis Procedure"</u> .	
3.CHECK "PANIC ALARM SET" SETTING IN "WORK SUPPORT"	Н
Check "PANIC ALARM SET" setting in "WORK SUPPORT". Refer to DLK-43, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) (For Coupe)" of DLK-237, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) (For Roadster)".	- or
Is the inspection result normal?	
YES >> GO TO 4. NO >> Set "PANIC ALARM SET" setting in "WORK SUPPORT".	
4.CONFIRM THE OPERATION	0
Confirm the operation again.	SE
Is the result normal?	OL
YES >> Check intermittent incident. Refer to <u>GI-45, "Intermittent Incident"</u> . NO >> GO TO 1.	L
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PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: 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.

FOR USA AND CANADA: Precaution for Battery Service

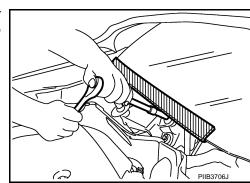
INFOID:0000000011740522

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

FOR USA AND CANADA: Precaution for Procedure without Cowl Top Cover

INFOID:0000000011740523

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



FOR USA AND CANADA: Precautions For Xenon Headlamp Service

INFOID:0000000011740524

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WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)
- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- · Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

FOR USA AND CANADA: Precautions for Removing Battery Terminal

INFOID:0000000011740525

 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.

NOTE:

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.

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.

FOR MEXICO

FOR MEXICO: 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. 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

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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.

FOR MEXICO: Precaution for Battery Service

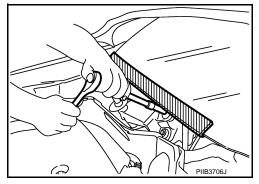
INFOID:0000000011740527

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

FOR MEXICO: Precaution for Procedure without Cowl Top Cover

INFOID:0000000011740528

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



FOR MEXICO: Precautions For Xenon Headlamp Service

INFOID:0000000011740529

WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)
- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

PRECAUTIONS

< PRECAUTION >

FOR MEXICO: Precautions for Removing Battery Terminal

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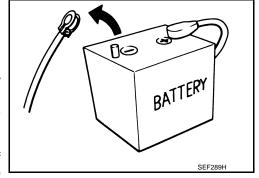
 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

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.



 After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC. NOTE:

The removal of 12V battery may cause a DTC detection error.

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REMOVAL AND INSTALLATION

KEY SLOT

Exploded View

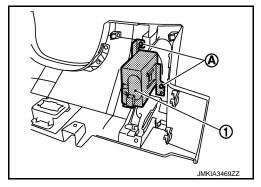
Refer to IP-13, "Exploded View".

Removal and Installation

INFOID:0000000011740532

REMOVAL

- 1. Remove the instrument driver lower panel. Refer to IP-14, "Removal and Installation".
- 2. Disconnect key slot connector.
- 3. Remove the key slot mounting screw (A), and then remove key slot (1) from instrument driver lower panel.



INSTALLATION

Install in the reverse order of removal.

PUSH-BUTTON IGNITION SWITCH

< REMOVAL AND INSTALLATION >

PUSH-BUTTON IGNITION SWITCH

Exploded View

Refer to IP-13, "Exploded View".

Removal and Installation

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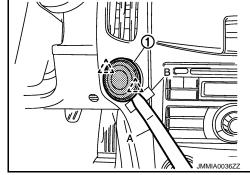
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REMOVAL

Disconnect the push-button ignition switch (1) fixing pawl using a remover tool (A), and then remove push-button ignition switch.

Always apply a protective tape (B) on instrument panel for protection.





INSTALLATION

Install in the reverse order of removal.

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