SECURITY CONTROL SYSTEM

CONTENTS

WITH INTELLIGENT KEY SYSTEM	INTELLIG
BASIC INSPECTION5	INTELLI INTELLI
DIAGNOSIS AND REPAIR WORK FLOW 5 Work Flow5	THEFT AL THEFT / THEFT)
INSPECTION AND ADJUSTMENT8	IMMU
ECM RE-COMMUNICATING FUNCTION8 ECM RE-COMMUNICATING FUNCTION : De-	IMMU : 0
scription8	DTC/CIR
ECM RE-COMMUNICATING FUNCTION : Special Repair Requirement8	U1000 C
SYSTEM DESCRIPTION9	BCM BCM : D
INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION9	BCM : D BCM : D
System Diagram	IPDM E/R IPDM E/ IPDM E/ IPDM E/
INFINITI VEHICLE IMMOBILIZER SYSTEM-	U1010 C
NATS14System Diagram14System Description14Component Parts Location15Component Description16	BCM : D BCM : D BCM : D BCM : S
VEHICLE SECURITY SYSTEM18System Diagram18System Description18Component Parts Location20	P1610 L0 Descript DTC Log Diagnos
Component Description21	P1611 ID
DIAGNOSIS SYSTEM (BCM)23	Descript DTC Log
COMMON ITEM23 COMMON ITEM : CONSULT Function (BCM -	Diagnos
	ロ1617 CL

INTELLIGENT KEY24 INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)24	I
THEFT ALM28 THEFT ALM : CONSULT Function (BCM - THEFT)28	(
IMMU29 IMMU : CONSULT Function (BCM - IMMU)29	I
DTC/CIRCUIT DIAGNOSIS30	
U1000 CAN COMM CIRCUIT30	
BCM 30 BCM : Description 30 BCM : DTC Logic 30 BCM : Diagnosis Procedure 30	S
IPDM E/R 30 IPDM E/R : Description 30 IPDM E/R : DTC Logic 30 IPDM E/R : Diagnosis Procedure 30	
U1010 CONTROL UNIT (CAN)32	ľ
BCM 32 BCM : DTC Logic 32 BCM : Diagnosis Procedure 32 BCM : Special Repair Requirement 32	١
P1610 LOCK MODE	(
P1611 ID DISCORD, IMMU-ECM	
I TOTA CITATIN OF LOWI-HIGHU	

D

Е

Daniel de Cara	0.5	D d. C	
Description		Description	
DTC Logic		DTC Logic	
Diagnosis Procedure	35	Diagnosis Procedure	
P1614 CHAIN OF IMMU-KEY	36	Component Inspection	55
Description		B2602 SHIFT POSITION	56
DTC Logic		Description	
•			
Diagnosis Procedure	30	DTC Logic	
P1615 DIFFRENCE OF KEY	39	Diagnosis Procedure	
Description		Component Inspection	57
DTC Logic		B2603 SHIFT POSITION STATUS	50
Diagnosis Procedure		Description	
Diagnosis i locedule	59	DTC Logic	
B2190 NATS ANTENNA AMP	40	Diagnosis Procedure	
Description		Component Inspection	
DTC Logic		Component inspection	01
Diagnosis Procedure		B2604 PNP SWITCH	62
aga		Description	
B2191 DIFFERENCE OF KEY	43	DTC Logic	
Description	43	Diagnosis Procedure	
DTC Logic	43	Diagnosis i roccaire	02
Diagnosis Procedure	43	B2605 PNP SWITCH	64
		Description	64
B2192 ID DISCORD, IMMU-ECM		DTC Logic	64
Description	44	Diagnosis Procedure	
DTC Logic	44	· ·	
Diagnosis Procedure	44	B2608 STARTER RELAY	
DOLOG OLIAINI OF FOM IMMILI		Description	
B2193 CHAIN OF ECM-IMMU		DTC Logic	66
Description		Diagnosis Procedure	66
DTC Logic		DOODE ENGINE OTATUO	
Diagnosis Procedure	45	B260F ENGINE STATUS	
B2195 ANTI-SCANNING	46	Description	
Description		DTC Logic	
DTC Logic		Diagnosis Procedure	68
Diagnosis Procedure		B26E1 NO RECEPTION OF ENGINE STA-	
Diagnosis i locedure	40	TUS SIGNAL	60
B2555 STOP LAMP	47	Description	
Description	47	DTC Logic	
DTC Logic		Diagnosis Procedure	
Diagnosis Procedure		Diagnosis Procedure	69
Component Inspection	48	B26EA KEY REGISTRATION	70
·		Description	
B2556 PUSH-BUTTON IGNITION SWITCH $$	49	DTC Logic	
Description	49	Diagnosis Procedure	
DTC Logic		Diagnosis i roccaro illinininini	
Diagnosis Procedure	49	B2617 STARTER RELAY CIRCUIT	71
Component Inspection	50	Description	71
DOCET VELICIE O O DE CO		DTC Logic	71
B2557 VEHICLE SPEED		Diagnosis Procedure	71
Description		-	
DTC Logic		B261A PUSH-BUTTON IGNITION SWITCH	
Diagnosis Procedure	51	Description	
B2560 STARTER CONTROL RELAY	52	DTC Logic	
Description		Diagnosis Procedure	73
DTC Logic		B261E VEHICLE TYPE	70
Diagnosis Procedure			
Diagnosis i roccare	JZ	Description DTC Logic	
B2601 SHIFT POSITION	53	DIO LUGIC	/ 0

Diagnosis Procedure	76	INTELLIGENT KEY SYSTEM/ENGINE	
B210B STARTER CONTROL RELAY	77	START FUNCTION95	Α
		Wiring Diagram - INTELLIGENT KEY SYSTEM/	
Description		ENGINE START FUNCTION95	
DTC Logic		INCINITIVE HOLE IMMODILIZED OVOTEM	В
Diagnosis Procedure	//	INFINITI VEHICLE IMMOBILIZER SYSTEM-	
B210C STARTER CONTROL RELAY	78	NATS107	
Description		Wiring Diagram - IVIS107	C
DTC Logic		VEHICLE SECURITY SYSTEM118	
Diagnosis Procedure		Wiring Diagram - VEHICLE SECURITY SYSTEM	
		118	
B210D STARTER RELAY		110	D
Description		ECU DIAGNOSIS INFORMATION127	
DTC Logic			
Diagnosis Procedure	80	BCM127	Е
B210E STARTER RELAY	00	Reference Value127	
		Wiring Diagram - BCM151	
Description		Fail-safe165	F
DTC Logic Diagnosis Procedure		DTC Inspection Priority Chart166	
Diagnosis Procedure	82	DTC Index167	
B210F PNP/CLUTCH INTERLOCK SWIT	ГСН84	IDDM E/D	G
Description		IPDM E/R170	G
DTC Logic		Reference Value	
Diagnosis Procedure		Wiring Diagram - IPDM E/R177	
-		Fail-safe	Н
B2110 PNP/CLUTCH INTERLOCK SWIT	Г СН8 6	DTC Index182	
Description	86	SYMPTOM DIAGNOSIS183	
DTC Logic			
Diagnosis Procedure	86	ENGINE DOES NOT START WITH INTELLI-	
POWER SUPPLY AND GROUND CIRCU	IIT oo	GENT KEY183	
POWER SUPPLY AND GROUND CIRCO	88	Description183	J
BCM	88	Diagnosis Procedure183	
BCM : Diagnosis Procedure	88		
		ENGINE DOES NOT START WHEN INTELLI-	SE
IPDM E/R		GENT KEY IS INSERTED INTO KEY SLOT 184	OL
IPDM E/R : Diagnosis Procedure	88	Description184	
HOOD SWITCH	00	Diagnosis Procedure184	
Description		SECURITY INDICATOR LAMP DOES NOT	L
Component Function Check		TURN ON OR BLINK185	
Diagnosis Procedure			
Component Inspection		Description	M
Component mapeonon	ສ≀	Diagnosis Procedure185	
HEADLAMP	92	VEHICLE SECURITY SYSTEM CAN NOT BE	
Description	92	SET186	Ν
Component Function Check	92		
Diagnosis Procedure		INTELLIGENT KEY186	
		INTELLIGENT KEY: Description186	0
SECURITY INDICATOR LAMP		INTELLIGENT KEY: Diagnosis Procedure186	
Description		DOOD DECLIFET CWITCH	
Component Function Check		DOOR REQUEST SWITCH	
Diagnosis Procedure	93	DOOR REQUEST SWITCH : Description186	Р
KEY WARNING LAMP	0.4	DOOR REQUEST SWITCH : Diagnosis Proce-	
		dure186	
Description		DOOR KEY CYLINDER187	
Component Function Check		DOOR KEY CYLINDER : Description187	
Diagnosis Procedure	94	DOOR KEY CYLINDER : Diagnosis Procedure187	

VEHICLE SECURITY ALARM DOES NOT ACTIVATE188	Description
Description	PRECAUTION19
VEHICLE SECURITY SYSTEM CAN NOT CANCELED189	PRECAUTIONS
INTELLIGENT KEY 189 INTELLIGENT KEY: Description 189 INTELLIGENT KEY: Diagnosis Procedure 189	SIONER"
DOOR REQUEST SWITCH	PREPARATION
DOOR KEY CYLINDER189 DOOR KEY CYLINDER : Description190 DOOR KEY CYLINDER : Diagnosis Procedure190	KEY SLOT19 Removal and Installation19
INTELLIGENT KEY INSERT INFORMATION DOES NOT OPERATE191	PUSH-BUTTON IGNITION SWITCH190 Removal and Installation

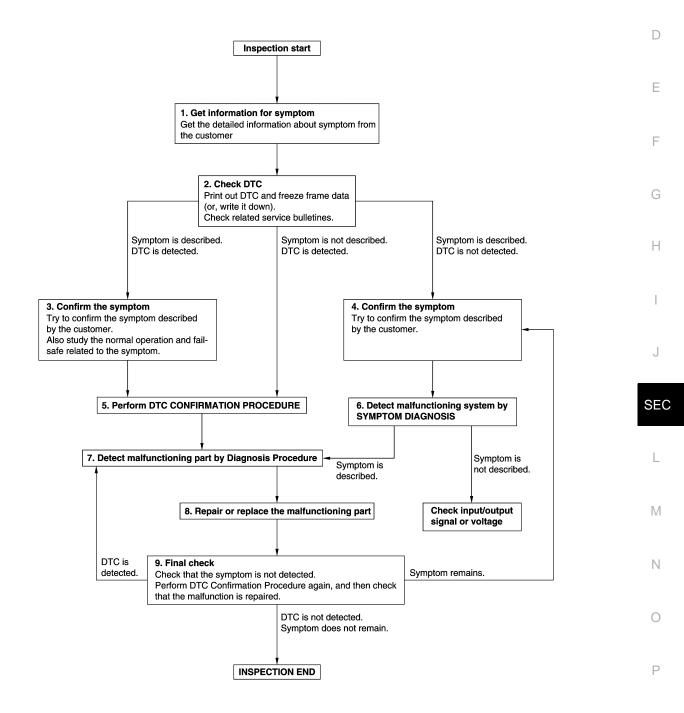
Α

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

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.

5. 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 SEC-166. "DTC Inspection Priority Chart" (BCM) or SEC-182. "DTC Index" (IPDM E/R), and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIR-MATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-42, "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 >

[WITH INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-42, "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

M

Ν

Р

SEC-7 Revision: 2013 December 2013 EX

SEC

Α

В

D

Е

F

Н

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

INSPECTION AND ADJUSTMENT ECM RE-COMMUNICATING FUNCTION

ECM RE-COMMUNICATING FUNCTION: Description

INFOID:0000000008284392

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

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

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

NOTE:

- When registering new Key IDs or replacing the ECM that is not brand new, follow the instruction of CONSULT display.
- If multiple keys are attached to the key holder, separate them before work.
- Distinguish keys with unregistered key ID from those with registered ID.

ECM RE-COMMUNICATING FUNCTION : Special Repair Requirement

INFOID:0000000008284393

1.PERFORM ECM RE-COMMUNICATING FUNCTION

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

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

Can engine be started?

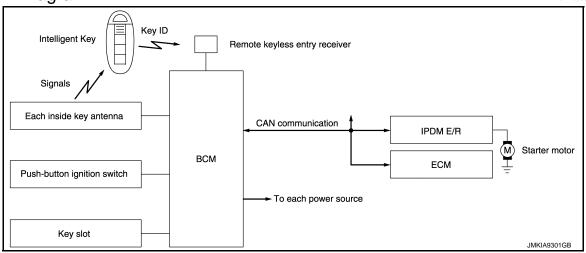
YES >> Procedure is completed.

NO >> Initialize control unit.

SYSTEM DESCRIPTION

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

System Diagram



System Description

INFOID:0000000008284395

INFOID:0000000008284394

SYSTEM DESCRIPTION

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

NOTE:

The driver should carry the Intelligent Key at all times.

- Intelligent Key has 2 IDs [for Intelligent Key and for IVIS (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 IVIS (NATS) ID verification. If it is used when the Intelligent Key is carried, perform the Intelligent Key ID verification.
- If the door lock/unlock operation is performed when the Intelligent Key battery is discharged, all doors lock/ unlock can be performed by operating the driver door key cylinder using the mechanical key set in the Intelligent Key.
- Intelligent Key can be registered up to 4 keys (Including the standard Intelligent Key) on request from the owner.

NOTE:

• Refer to <u>DLK-15</u>, "INTELLIGENT KEY SYSTEM: System Diagram" 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 IVIS (NATS) ID verification] is integrated into the Intelligent Key. (For the conventional models, it is integrated into the mechanical key.) Therefore, the mechanical key cannot perform the ID verification, and thus it cannot start the engine. Instead, the IVIS (NATS) ID verification can be performed by inserting the Intelligent Key into the key slot, and then it can start the engine.

OPERATION WHEN INTELLIGENT KEY IS CARRIED

- 1. When the push-button ignition switch is pressed, the BCM 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.
- The BCM receives the Intelligent Key ID signal via the remote keyless entry receiver, and verifies it with the registered ID.

SEC

Α

D

Е

M

N

0

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- 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.
- 6. BCM confirms that the shift position is P or N.
- 7. BCM transmits the starter request signal via CAN communication to IPDM E/R and turns the starter relay in IPDM E/R ON if BCM judges that the engine start condition is satisfied.
- IPDM E/R turns the starter control relay ON when receiving the starter request signal.
- 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 K

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 might not start when Intelligent Key is on instrument panel or in glove box.

OPERATION WHEN KEY SLOT IS USED

When the Intelligent Key battery is discharged, it performs the IVIS (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-14, "System Description"</u>.

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

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

NOTE:

- When an Intelligent Key is within the detection area of inside key antenna and when it is inserted to the key slot, it is equivalent to the operations below.
- When starting the engine, the BCM monitors under the engine start conditions,
- Brake pedal operating condition
- Selector lever position
- Vehicle speed

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

Dower ownth position	Engine start/stop condition		Push-button ignition switch
Power supply position -	Selector lever position	Brake pedal operation condition	operation frequency
$OFF \to ACC$	_	Not depressed	1
$OFF \to ACC \to ON$	_	Not depressed	2
$OFF \to ACC \to ON \to OFF$	_	Not depressed	3
OFF → START ACC → START ON → START	P or N position	Depressed	1
Engine is running → OFF	_	_	1

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

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION [WITH INTELLIGENT KEY SYSTEM]

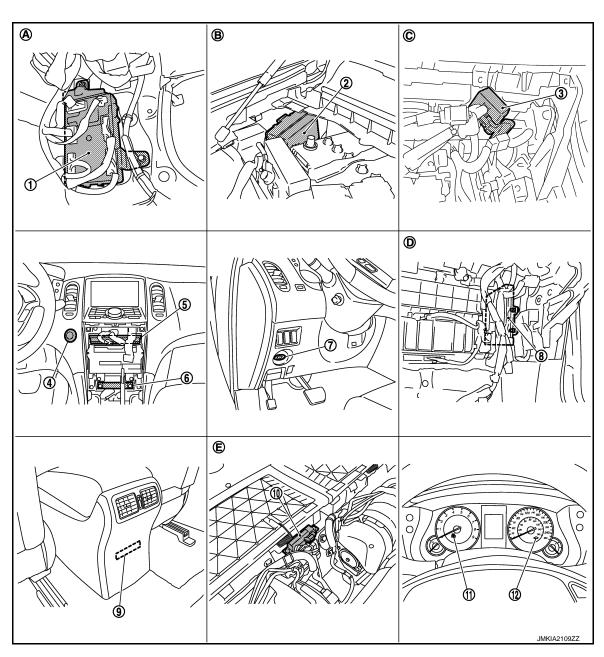
< SYSTEM DESCRIPTION >

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

Emergency stop operation

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

Component Parts Location



- 1. **BCM**
- Push-button ignition switch
- 7. Key slot

- 2. IPDM E/R
- 5. Unified meter and A/C amp.
- 8. **ECM**

- 3. Remote keyless entry receiver
- 6. Inside key antenna (instrument center)
- 9.

SEC

Α

В

C

D

Е

F

Н

INFOID:0000000008284396

M

Ν

0

Р

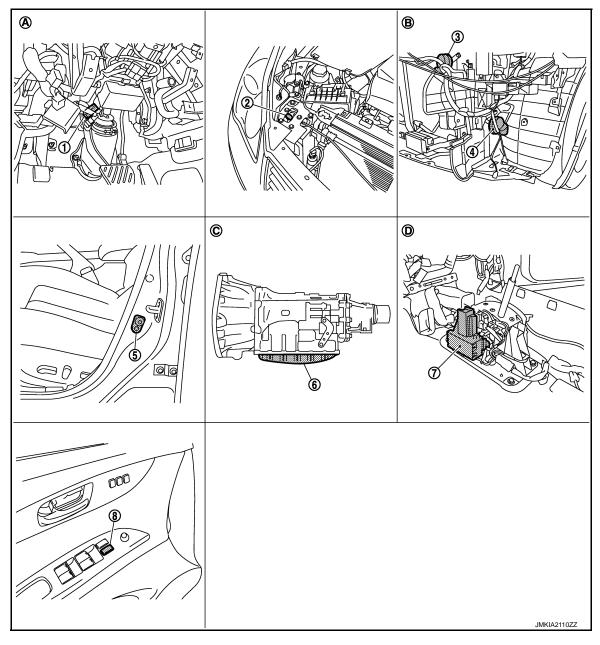
Inside key antenna (console)

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION SCRIPTION > [WITH INTELLIGENT KEY SYSTEM]

- < SYSTEM DESCRIPTION >
- 11. Combination meter (KEY warning lamp)
- A. Dash side lower (passenger side)

10. Inside key antenna (luggage room)

- B. Engine room dash panel (RH)
 - anel (RH)
- D. Behind the instrument assist lower panel E. Under the rear seat seatback
- Combination meter (security indicator lamp)
- Behind the instrument assist lower panel



- 1. Stop lamp switch
- 4. Horn (low)
- 7. A/T shift selector (detention switch)
- Behind the instrument driver lower cover
- View with the center console assembly removed
- 2. Hood switch
- 5. Front door switch (driver side)
- Power window main switch (door lock and unlock switch)
- B. Behind the front bumper
- 3. Horn (high)
- 6. TCM (built into A/T assembly)
- C. A/T assembly

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION SCRIPTION > [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >
Component Description

INFOID:0000000008284397

Α

В

С

D

Е

F

Component	Reference
Push-button ignition switch	<u>SEC-73</u>
Door switch	DLK-63
A/T shift selector (detention switch)	<u>SEC-53</u>
Inside key antenna	DLK-58
Remote keyless entry receiver	DLK-78
Stop lamp switch	<u>SEC-47</u>
Transmission range switch	<u>SEC-62</u>
Starter relay	<u>SEC-66</u>
Starter control relay	<u>SEC-52</u>
Security indicator lamp	<u>SEC-93</u>
Key warning lamp	<u>SEC-94</u>

G

Н

J

SEC

L

M

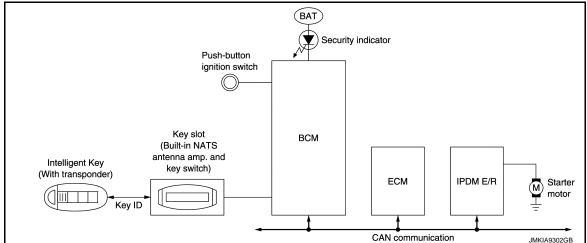
Ν

0

INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS

System Diagram

INFOID:0000000008284398



System Description

INFOID:0000000008284399

SYSTEM DESCRIPTION

- The IVIS (NATS) is an anti-theft system by registering an Intelligent Key ID in to the vehicle and prevents the
 engine being started by an unregistered Intelligent Key. It has a higher protection against auto thefts that
 duplicate mechanical key.
- It performs the ID verification when starting the engine in the same way as the Intelligent Key system. But, it performs the IVIS (NATS) ID verification when inserting the Intelligent Key and performs the Intelligent Key ID verification when carrying the Intelligent Key.
- The mechanical key integrated in the Intelligent Key cannot start the engine. When the Intelligent Key battery is discharged, the IVIS (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 the IVIS (NATS) is on board the model.
- Security indicator lamp always blinks when the ignition switch is in any position except the ON position.
- Intelligent Key can be registered up to 4 keys (Including the standard ignition key) on request from the owner.
- The specified registration is required when replacing ECM, BCM or Intelligent Key. The registrations procedure for IVIS (NATS) and registration procedure for Intelligent Key when installing the BCM, follow the instruction of CONSULT display.
- Possible symptom of IVIS (NATS) malfunction is "Engine can not start". The engine can be started with the Intelligent Key system and IVIS (NATS). Identify the possible causes according to "Work Flow", Refer to SEC-5, "Work Flow".
- If ECM other than Genuine NISSAN is installed, the engine cannot be started. For ECM replacement procedure, refer to <u>SEC-8</u>, "ECM RE-COMMUNICATING FUNCTION: Special Repair Requirement".

PRECAUTIONS FOR KEY REGISTRATION

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

SECURITY INDICATOR LAMP

Warns that the vehicle is equipped with IVIS (NATS).

INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS PTION > [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

• Security indicator lamp always blinks when the ignition switch is in any position except the ON position. **NOTE:**

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

Component Parts Location

INFOID:0000000008284400

Α

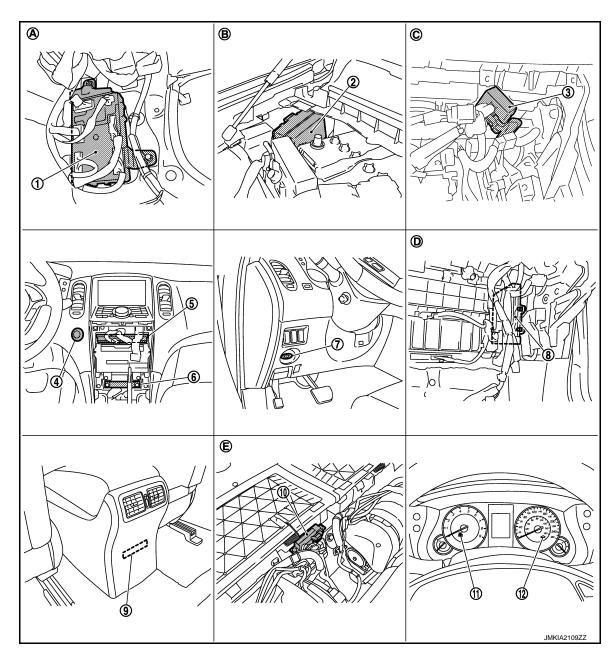
В

D

Е

F

Н



- 1. BCM
- 4. Push-button ignition switch
- 7. Key slot
- 10. Inside key antenna (luggage room)
- A. Dash side lower (passenger side)
- D. Behind the instrument assist lower panel E.

- 2. IPDM E/R
- 5. Unified meter and A/C amp.
- 8. ECM
- Combination meter (KEY warning lamp)
- B. Engine room dash panel (RH)
- Under the rear seat seatback

- 3. Remote keyless entry receiver
- 6. Inside key antenna (instrument center)
- 9. Inside key antenna (console)
- 12. Combination meter (security indicator lamp)
- C. Behind the instrument assist lower panel

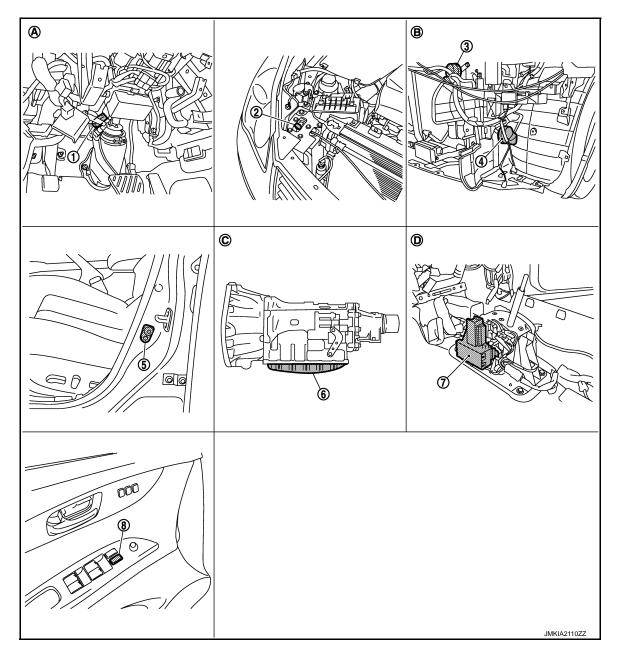
SEC

J

M

Ν

0



- 1. Stop lamp switch
- 4. Horn (low)
- 7. A/T shift selector (detention switch)
- A. Behind the instrument driver lower cover
- D. View with the center console assembly removed
- 2. Hood switch
- 5. Front door switch (driver side)
 - Power window main switch (door lock and unlock switch)
- B. Behind the front bumper
- 3. Horn (high)
- 6. TCM (built into A/T assembly)
- C. A/T assembly

Component Description

INFOID:0000000008284401

Component	Reference
Push-button ignition switch	SEC-73, "Description"
Door switch	DLK-63, "Description"
key slot	DLK-96, "Description"
A/T shift selector (detention switch)	SEC-53, "Description"

INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS < SYSTEM DESCRIPTION > [WITH INTELLIGENT KEY SYSTEM]

Component	Reference	
Inside key antenna	DLK-58, "Description"	
Remote keyless entry receiver	DLK-78, "Description"	
Stop lamp switch	SEC-47, "Description"	
Transmission range switch	SEC-62, "Description"	
Starter relay	SEC-66, "Description"	
Starter control relay	SEC-52, "Description"	
Security indicator lamp	SEC-93, "Description"	

Key warning lamp

Е

Α

В

С

D

SEC-94, "Description"

G

F

Н

J

SEC

L

M

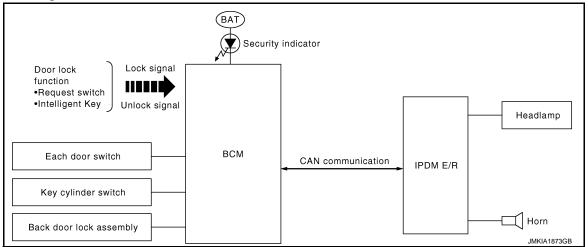
Ν

0

VEHICLE SECURITY SYSTEM

System Diagram

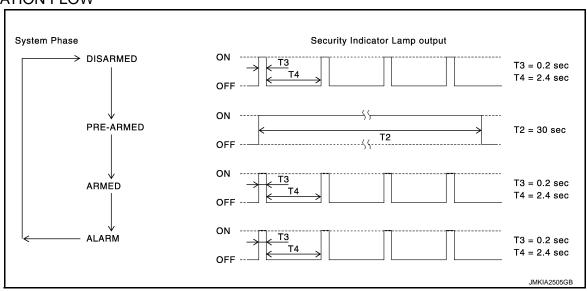
INFOID:0000000008284402



System Description

INFOID:0000000008284403

OPERATION FLOW



SETTING THE VEHICLE SECURITY SYSTEM

Initial Condition

Ignition switch is in 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.
- When the vehicle security system is in the disarmed phase, 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. (Security indicator lamp illuminates.)

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

CANCELING THE SET VEHICLE SECURITY SYSTEM

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

- Unlock the all doors with the door request switch, Intelligent Key or door key cylinder.
- 2. Turn ignition switch "ON" or "ACC" position.

CANCELING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

When unlocking the all doors with the door request switch, Intelligent Key or door key cylinder switch 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 indicator lamp blinks every 2.4 seconds.)

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

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

PANIC ALARM OPERATION

Intelligent Key system may or may not operate vehicle security system (horn and headlamps) as required. When the Intelligent Key system is triggered, ground is supplied intermittently to both headlamp relay and horn relay.

When headlamp relay and horn relay are energized, then power is supplied to headlamps (high beam and low beam) and horns (high and low).

The headlamps flash and the horn sounds intermittently.

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

SEC

Α

В

D

Е

F

Н

M

N

0

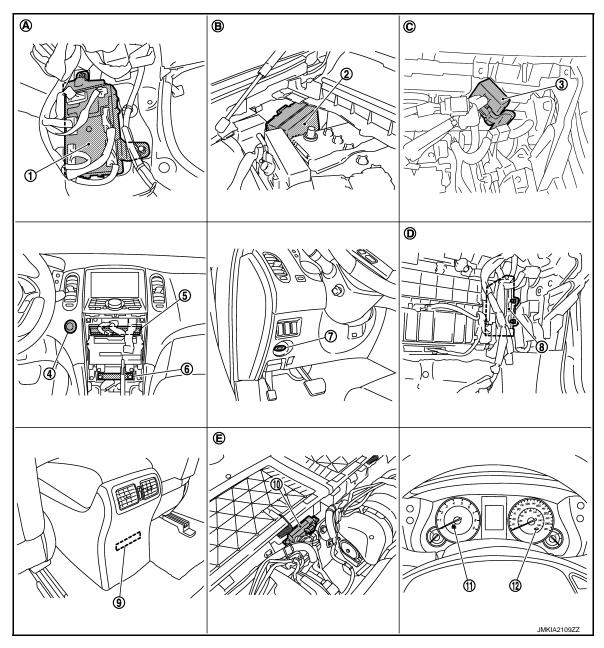
Р

Revision: 2013 December SEC-19 2013 EX

SEC

Component Parts Location

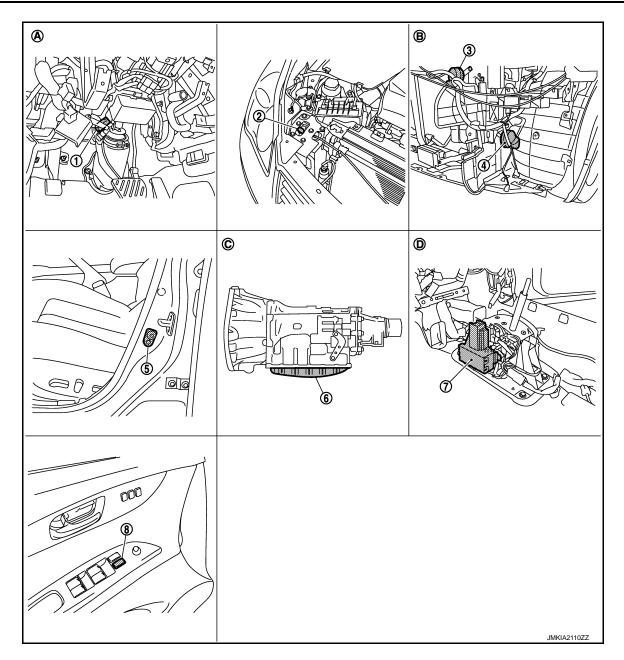
INFOID:0000000008284404



- 1. BCM
- 4. Push-button ignition switch
- 7. Key slot
- 10. Inside key antenna (luggage room)
- A. Dash side lower (passenger side)
- D. Behind the instrument assist lower panel E.

- 2. IPDM E/R
- 5. Unified meter and A/C amp.
- 8. ECM
- 11. Combination meter (KEY warning lamp)
- B. Engine room dash panel (RH)
- E. Under the rear seat seatback

- 3. Remote keyless entry receiver
- 6. Inside key antenna (instrument center)
- 9. Inside key antenna (console)
- 12. Combination meter (security indicator lamp)
- C. Behind the instrument assist lower panel



- 1. Stop lamp switch
- 4. Horn (low)
- 7. A/T shift selector (detention switch)
- A. Behind the instrument driver lower cover
- View with the center console assembly removed
- 2. Hood switch
- 5. Front door switch (driver side)
- Power window main switch (door lock and unlock switch)
- B. Behind the front bumper
- 3. Horn (high)
- 6. TCM (built into A/T assembly)
- C. A/T assembly

Component Description

INFOID:0000000008284405

Component	Reference
Horn relay 1	DLK-100, "Description"
Horn relay 2	DLK-100, "Description"
Security indicator lamp	SEC-93, "Description"
Door switch	DLK-63, "Description"

Revision: 2013 December SEC-21 2013 EX

Α

В

С

D

Е

F

G

Н

SEC

IVI

Ν

0

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Component	Reference
Hood switch	SEC-90, "Description"
Back door lock assembly (door witch)	DLK-63, "Description"
Door key cylinder switch	DLK-76, "Description"

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000008776155

Α

В

D

Е

F

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.

×: Applicable item

System	Sub avetom coloation 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 systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
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.

Revision: 2013 December SEC-23 2013 EX

SEC

M

Ν

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

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		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	Power supply position status of the moment a particular DTC is de- tected*	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 is 0 where The number increases whenever ignition switches.	at ignition switch is turned ON after DTC is detected in a malfunction is detected now. If the sum of the sum	

NOTE:

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, 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)

INFOID:0000000008284407

WORK SUPPORT

Monitor item	Description
ONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode.
UTO 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) 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 request 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.
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.
TAKE OUT FROM WIN WARN	NOTE: This item is displayed, but cannot be supported.
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 and passenger side) 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 can be changed to operate (ON) or not operate (OFF) with this mode.
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. • 70 msec. • 100 msec. • 200 msec.
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode.
WELCOME LIGHT OP SET	Welcome light function mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode.
WELCOME LIGHT SELECT	Welcome light function mode can be selected from the following with this mode. • Without room lamp • With room lamp • Without paddle lamp • With paddle lamp

SEC-25 Revision: 2013 December 2013 EX

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

SELF-DIAG RESULT

Refer to BCS-90, "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 door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -RR	NOTE: This item is displayed, but cannot be monitored.
REQ SW -RL	NOTE: This item is displayed, but cannot be monitored.
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
CLUCH SW	NOTE: This item is displayed, but cannot be monitored.
BRAKE SW 1	Indicates [ON/OFF] condition of brake switch power supply.
BRAKE SW 2	Indicates [ON/OFF] condition of brake switch.
DETE/CANCL SW	Indicates [ON/OFF] condition of P position.
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position.
S/L -LOCK	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	Indicates [ON/OFF] condition of P position.
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position.
SFT P -MET	Indicates [ON/OFF] condition of P position.
SFT N -MET	Indicates [ON/OFF] condition of N position.
ENGINE STATE	Indicates [STOP/START/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 unified meter and A/C amp. by numerical value [Km/h].
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or CVT 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.

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition
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 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.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be 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 will be 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 WARN" on CONSULT screen is touched. P position warning chime sounds when "P RNG WARN" on CONSULT screen is touched. ACC warning chime sounds when "ACC WARN" on CONSULT screen is touched.
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer will be activated after "ON" 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 flashes when "KEY IND" on CONSULT screen is touched.
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp will be activated 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 "OUTKY" on CONSULT screen is touched. OFF position warning display when "LK WN" on CONSULT screen is touched.
TRUNK/GLASS HATCH	This test is able to check back door opener actuator open operation. This actuator opens when "ON" on CONSULT screen is touched.
FLASHER	This test is able to check hazard warning lamp operation. The hazard warning lamps will be activated after "ON" on CONSULT screen is touched.
HORN	This test is able to check horn operation. The horn will be activated after "ON" on CONSULT screen is touched.
P RANGE	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.

SEC

Α

В

С

D

Е

F

G

Н

 \mathbb{N}

Ν

0

Р

SEC-27 Revision: 2013 December 2013 EX

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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. 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. 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 flash when "ON" on CONSULT screen is touched.
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be tested.

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT)

INFOID:0000000008284408

DATA MONITOR

NOTE:

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

Monitored Item	Description
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 front door switch LH.
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch RH.
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
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	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch LH and RH.
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from front door key cylinder switch.
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from front door key cylinder switch.
KEY CYL SW-TR	NOTE: This is displayed even when it is not equipped.
TR/BD OPEN SW	Indicates [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.

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

WORK SUPPORT

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

ACTIVE TEST

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

IMMU

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000008284409

DATA MONITOR

NOTE:

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

Monitor item	Content	
CONFRM ID ALL		
CONFIRM ID4		
CONFIRM ID3	Indicates [YET] at all time. Switch to [DONE] when a registered Intelligent Key is inserted into the key slot.	
CONFIRM ID2	Simon to [2011_] unon a regional members to meaned into the toy dist.	•
CONFIRM ID1		
TP 4		
TP 3	Indicates the number of ID which has been 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 will be turned on when "ON" on CONSULT screen touched.

Revision: 2013 December SEC-29 2013 EX

D

Α

В

Е

F

G

J

Н

SEC

N

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

BCM

BCM: Description

INFOID:0000000008284410

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-25, "CAN Communication Signal Chart".

BCM: DTC Logic

INFOID:0000000008284411

DTC DETECTION LOGIC

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

BCM: Diagnosis Procedure

INFOID:0000000008284412

1.PERFORM SELF DIAGNOSTIC

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

Is "U1000: CAN COMM CIRCUIT" displayed?

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

NO >> Refer to GI-42, "Intermittent Incident".

IPDM E/R

IPDM E/R: Description

INFOID:0000000008284413

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-25, "CAN Communication Signal Chart".

IPDM E/R: DTC Logic

INFOID:0000000008284414

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:0000000008284415

1. PERFORM SELF DIAGNOSTIC

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to LAN-16, "Trouble Diagnosis Flow Chart".
- NO >> Refer to <u>GI-42</u>, "Intermittent Incident".

Α

В

 \mathbb{C}

D

Е

F

G

Н

J

SEC

L

 \mathbb{N}

Ν

0

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

BCM

BCM: DTC Logic

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:0000000008284417

1.REPLACE BCM

When DTC "U1010: CONTROL UNIT (CAN)" is detected, replace BCM.

>> Replace BCM. Refer to BCS-96, "Exploded View".

BCM: Special Repair Requirement

INFOID:0000000008284418

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit, follow the instruction of CONSULT display.

>> Work end.

P1610 LOCK MODE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P1610 LOCK MODE

Description INFOID:0000000008284419

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

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

DTC Logic INFOID:0000000008284420

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

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK ENGINE START FUNCTION

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

>> INSPECTION END

SEC

Α

В

D

Е

F

Н

INFOID:0000000008284421

L

M

Ν

P1611 ID DISCORD, IMMU-ECM

Description INFOID:000000008284422

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B1611 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".
- If DTC B1611 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "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. The registration is necessary.	• BCM • ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284424

1. PERFORM INITIALIZATION

Perform initialization with CONSULT. Register all Intelligent Keys.

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

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

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE BCM

- 1. Replace BCM. Refer to BCS-96, "Removal and Installation".
- 2. Perform initialization with CONSULT.

For initialization, follow the instruction of CONSULT display.

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

YES >> INSPECTION END

NO >> GO TO 3.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

P1612 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P1612 CHAIN OF ECM-IMMU

Description INFOID:000000008284425

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

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

• If DTC P1612 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-32</u>, "BCM: DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	ı
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

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

REPLACE BCM
 Replace BCM. Refer to BCS-96, "Removal and Installation".

2. Perform initialization with CONSULT.

For initialization, follow the instruction of CONSULT display.

Does the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE ECM

Replace ECM. Refer to SEC-8, "ECM RE-COMMUNICATING FUNCTION: Description".

>> INSPECTION END

SEC

Α

D

Е

F

Н

SEC

INFOID:0000000008284427

Р

Ν

INFOID:0000000008284430

P1614 CHAIN OF IMMU-KEY

Description INFOID:000000008284428

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

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1614	CHAIN OF IMMU- KEY	Inactive communication between key slot and BCM.	Harness or connectors (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.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

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

- 1. 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 -)	
M22	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>SEC-195, "Removal and Installation"</u>.

NO >> GO TO 3.

3. CHECK KEY SLOT CIRCUIT

1. Disconnect BCM connector.

P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Key	Key slot		всм	
Connector	Terminal	Connector Terminal		Continuity
M22	2	M122	80	Existed

3. 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 >> GO TO 8.

NO >> Repair or replace harness or connector.

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

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

	(+)		V 16 0 0
Ke	y slot	(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
M22	3	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key slot. Refer to SEC-195, "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	Key slot		BCM	
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?

YES >> GO TO 8.

NO >> Repair or replace harness or connector.

.CHECK KEY SLOT GROUND CIRCUIT

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

Α

В

D

Е

F

Н

SEC-37 Revision: 2013 December 2013 EX

SEC

N

P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Key slot			Continuity
Connector	Terminal	Ground	Continuity
M22	7		Existed

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness or connector.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

P1615 DIFFRENCE OF KEY

[WITH INTELLIGENT KEY SYSTEM] < DTC/CIRCUIT DIAGNOSIS > P1615 DIFFRENCE OF KEY Α Description INFOID:0000000008284431 Performs ID verification through BCM and Intelligent Key when push-button ignition switch is pressed. В Prohibits start of engine when an unregistered ID of Intelligent Key is used. DTC Logic INFOID:0000000008284432 DTC DETECTION LOGIC DTC No. Possible cause Trouble diagnosis name DTC detecting condition D The ID verification results between BCM and Intelligent P1615 DIFFERENCE OF KEY Intelligent Key Key are NG. The registration is necessary. DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE Press the push-button ignition switch. Check "Self diagnostic result" with CONSULT. Is DTC detected? YES >> Go to SEC-39, "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure INFOID:0000000008284433 1. PERFORM INITIALIZATION Perform initialization with CONSULT. Register all Intelligent Keys. For initialization and registration of Intelligent Key, follow the instruction of CONSULT display. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2.replace intelligent key Replace Intelligent Kev.

Perform initialization with CONSULT.

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

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

>> INSPECTION END YES

NO >> GO TO 3.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SEC

M

N

Р

SEC-39

[WITH INTELLIGENT KEY SYSTEM]

INFOID:0000000008284436

B2190 NATS ANTENNA AMP.

Description INFOID:000000008284434

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> GO TO 2.

2.perform dtc confirmation procedure

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

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.
- Check voltage between key slot harness connector and ground.

<u> </u>	(+)		Voltage (V)	
Connector	y slot Terminal	(-)	(Approx.)	
M22	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>SEC-195, "Removal and Installation"</u>.

NO >> GO TO 3.

3. CHECK KEY SLOT CIRCUIT

B2190 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Disconnect BCM connector.

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

3. 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 >> GO TO 8.

NO >> Repair or replace harness or connector.

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.
- Disconnect key slot connector. 2.
- Check voltage between key slot harness connector and ground.

Ke	(+) Key slot		Voltage (V) (Approx.)
Connector	Terminal		(, 4, 1, 2,)
M22	3	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key slot. Refer to <u>SEC-195</u>, "Removal and Installation".

NO >> GO TO 6.

6. CHECK KEY SLOT COMMUNICATION SIGNAL CIRCUIT

Disconnect BCM connector.

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

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

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

Key slot			Continuity	
Connector	Connector Terminal		Continuity	
M22	3		Not existed	

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness or connector.

7.CHECK KEY SLOT GROUND CIRCUIT

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

SEC

Α

В

D

Е

Ν

B2190 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Key slot			Continuity
Connector	Connector Terminal		Continuity
M22	7		Existed

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness or connector.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

B2191 DIFFERENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2191 DIFFERENCE OF KEY

Description INFOID:0000000008284437

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

DTC Logic INFOID:0000000008284438

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

1. PERFORM INITIALIZATION

Perform initialization with CONSULT. Register all Intelligent Keys.

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

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

YES >> INSPECTION END

NO >> GO TO 2.

2.replace intelligent key

Replace Intelligent Kev.

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

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

>> INSPECTION END YES

NO >> GO TO 3.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SEC

Α

В

D

Е

INFOID:0000000008284439

M

N

[WITH INTELLIGENT KEY SYSTEM]

B2192 ID DISCORD, IMMU-ECM

Description INFOID:000000008284440

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2192 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".
- If DTC B2192 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "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. The registration is necessary.	• BCM • ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284442

1. PERFORM INITIALIZATION

Perform initialization with CONSULT. Register all Intelligent Keys.

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

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

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE BCM

- 1. Replace BCM. Refer to BCS-96, "Removal and Installation".
- 2. Perform initialization with CONSULT.

For initialization, follow the instruction of CONSULT display.

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

YES >> INSPECTION END

NO >> GO TO 3.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

B2193 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2193 CHAIN OF ECM-IMMU

Description INFOID:0000000008284443

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

 If DTC B2193 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".

• If DTC B2193 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-32</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.
- Selector lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

1.REPLACE BCM

YES >> Go to SEC-45, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

Replace BCM. Refer to BCS-96, "Removal and Installation".

2. Perform initialization with CONSULT.

For initialization, follow the instruction of CONSULT display.

Does the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

2.replace ecm

Replace ECM. Refer to <u>SEC-8</u>, "ECM RE-COMMUNICATING FUNCTION: Description".

>> INSPECTION END

SEC

OLO

INFOID:0000000008284445

Α

D

Е

F

Н

Ρ

Ν

B2195 ANTI-SCANNING

Description INFOID:000000008284446

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

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

1. 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
- 2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END.

Diagnosis Procedure

INFOID:0000000008284448

1. CHECK SELF-DIAGNOSTIC RESULT-1

- 1. Perform "Self-diagnostic result" of BCM using CONSULT.
- Erase DTC.
- 3. Perform DTC Confirmation Procedure. Refer to SEC-46, "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-96, "Removal and Installation".

3. CHECK SELF-DIAGNOSTIC RESULT-2

- 1. Obtain the customers approval to remove unspecified accessory part related to engine start, and then remove it.
- 2. Perform "Self-diagnostic result" of BCM using CONSULT.
- Erase DTC.
- Perform DTC Confirmation Procedure. Refer to <u>SEC-46</u>, "DTC Logic".

Is DTC 2195 detected?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> INSPECTION END

[WITH INTELLIGENT KEY SYSTEM]

B2555 STOP LAMP

Description INFOID:0000000008284449

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 INFOID:0000000008284450

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

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

- Depress the brake pedal and wait for at least 1 second.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK STOP LAMP SWITCH INPUT SIGNAL

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

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

Is the inspection normal?

YES >> GO TO 2.

NO-1 >> Check 10A 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

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

(+) Stop lamp switch Connector Terminal		(-)	Voltage (V)	
		(-)	(Approx.)	
E110	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK STOP LAMP SWITCH CIRCUIT

SEC

Α

В

D

Е

F

INFOID:0000000000828445

Ν

B2555 STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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 lamp switch			Continuity
Connector Terminal		Ground	Continuity
E110	2		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4. CHECK STOP LAMP SWITCH

Refer to SEC-48, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace stop lamp switch. Refer to <u>BR-18</u>, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008284452

1. CHECK STOP LAMP SWITCH

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

Stop lamp switch		Condition		Continuity
Terminal				Continuity
1 2		Brake pedal	Not depressed	Not existed
ı	2	Brake pedar	Depressed	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace stop lamp switch. Refer to BR-18, "Exploded View".

B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2556 PUSH-BUTTON IGNITION SWITCH

Description INFOID:0000000008284453

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK PUSH-BUTTON IGNITION SWITCH INPUT SIGNAL

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

	+) ignition switch	(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 - /
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.
- Check continuity between push-button ignition switch harness connector and BCM harness connector.

Push-button ignition switch		BCM		Continuity
Connector	Terminal	Connector	Connector Terminal	
M50	4	M122	60	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?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

Revision: 2013 December SEC-49 2013 EX

SEC

Α

D

Е

F

INFOID:0000000008284455

N /I

IVI

Ν

0

B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Repair or replace harness or connector.

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 or connector.

4.CHECK PUSH-BUTTON IGNITION SWITCH

Refer to SEC-50, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace push-button ignition switch. Refer to <u>SEC-196, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008284456

1. CHECK PUSH-BUTTON IGNITION SWITCH

- 1. 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
Terminals		Condition	Continuity
1	4	Pressed	Existed
I		Not pressed	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace push-button ignition switch. Refer to <u>SEC-196</u>, "Removal and Installation".

B2557 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Α

D

Е

F

Н

SEC

N

B2557 VEHICLE SPEED

Description INFOID:000000008284457

BCM receives the 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 SEC-30, "BCM: DTC Logic".

• If DTC B2557 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-32</u>, "BCM: DTC Logic".

DTC	Self-diagnosis name	DTC detecting condition	Possible causes
B2557	VEHICLE SPEED	BCM detects the following difference between the vehicle speed 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.	Wheel sensor Unified meter and A/C amp. ABS actuator and electric unit (control unit)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Drive the vehicle at the vehicle speed of 10 km/h (6.2 MPH) or more and wait for at least 10 seconds.

2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

YES >> Go to SEC-51, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284459

${f 1}.$ check dtc with "abs actuator and electric unit (control unit)"

Check "Self diagnostic result" with CONSULT. Refer to BRC-117, "DTC No. Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DTC WITH "UNIFIED METER AND A/C AMP."

Check "Self diagnostic result" with CONSULT. Refer to MWI-110, "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-42, "Intermittent Incident".

>> INSPECTION END

Revision: 2013 December

B2560 STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2560 STARTER CONTROL RELAY

Description INFOID:000000008284460

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2560 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic"
- If DTC B2560 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-32</u>, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284462

1. CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT. Refer to SEC-182, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

2.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident"

>> INSPECTION END

[WITH INTELLIGENT KEY SYSTEM]

B2601 SHIFT POSITION

Description INFOID:0000000008284463

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:0000000008284464

DTC DETECTION LOGIC

NOTE:

- If DTC B2601 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".
- If DTC B2601 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "BCM: DTC Logic".
- If DTC B2601 is displayed with DTC B2603, first perform the trouble diagnosis for DTC B2603. Refer to SEC-64. "DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK A/T SHIFT SELECTOR POWER SUPPLY

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

A/T shift selector	+) (detention switch)	(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
M137	10	Ground	Battery voltage

Is the inspection result normal?

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

Revision: 2013 December

2.CHECK A/T SHIFT SELECTOR POWER SUPPLY CIRCUIT

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

SEC

Н

Α

В

D

SEC-53

INFOID:0000000008284465

Ν

B2601 SHIFT POSITION

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> Repair or replace harness or connector.

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	A/T shift selector (detention switch)		BCM	
Connector	Terminal	Connector	Terminal	Continuity
M137	11	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	11		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

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

1. 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	11	E6	43	Existed

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

A/T shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
M137	11		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connector.

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

Refer to SEC-55, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace A/T shift selector. Refer to TM-182, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

B2601 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008284466

Α

В

D

Е

F

Н

- 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)		Condition		Continuity
Terr	Terminal		dition	Continuity
10	11	Selector lever	P position	Not existed
10	11	Selector level	Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace A/T shift selector (detention switch). Refer to TM-182, "Removal and Installation".

SEC

J

M

Ν

0

B2602 SHIFT POSITION

Description INFOID:0000000008284467

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:0000000008284468

DTC DETECTION LOGIC

NOTE:

- If DTC B2602 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".
- If DTC B2602 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "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 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

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

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

INFOID:0000000008284469

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

Check "Self diagnostic result" with CONSULT. Refer to BRC-117, "DTC No. 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.
- 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	(+) A/T shift selector (detention switch)		Voltage (V) (Approx.)
Connector	Terminal		, , ,
M137	10	Ground	Battery voltage

B2602 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

3.CHECK A/T SHIFT SELECTOR POWER SUPPLY CIRCUIT

- Disconnect BCM connector.
- 2. 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	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	10		No existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> Repair or replace harness or connector.

4. CHECK A/T SHIFT SELECTOR CIRCUIT

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

A/T shift selector	(detention switch)	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M137	11	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	11		No existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connector.

CHECK A/T SHIFT SELECTOR (DETENTION SWITCH)

Refer to SEC-57, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace A/T shift selector. Refer to TM-182, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

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

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

SEC

Α

D

Е

L

N /I

...

Ν

IN

INFOID:0000000008284470

B2602 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

A/T shift selector (detention switch)		Condition		Continuity
Teri	minal	Con	dition	Continuity
10	11	Selector lever	P position	Not existed
10	11	Selector level	Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace A/T shift selector (detention switch). Refer to TM-182, "Removal and Installation".

B2603 SHIFT POSITION STATUS

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2603 SHIFT POSITION STATUS

Description INFOID:0000000008284471

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:0000000008284472

DTC DETECTION LOGIC

NOTE:

• If DTC B2603 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".

• If DTC B2603 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK DTC WITH TCM

Check "Self diagnostic result" with CONSULT. Refer to TM-156, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK TRANSMISSION RANGE SWITCH CIRCUIT

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

TO	TCM		ВСМ	
Connector	Terminal	Connector Terminal		Continuity
F51	9	M123	140	Existed

SEC

M

Ν

Р

INFOID:0000000008284473

Α

В

D

Е

F

Check continuity between TCM harness connector and ground.

B2603 SHIFT POSITION STATUS

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TO	TCM		Continuity
Connector	Connector Terminal		Continuity
F51	9		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.check a/t shift selector power supply

- 1. Disconnect A/T shift selector (detention switch) connector.
- 2. 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	10	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. 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	10	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	10		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> Repair or replace harness or connector.

5. 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	11	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	11		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness or connector.

Revision: 2013 December SEC-60 2013 EX

B2603 SHIFT POSITION STATUS

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Refer to SEC-61, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace A/T shift selector. Refer to TM-182, "Removal and Installation".

7. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008284474

Α

В

D

Е

F

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)		Condition		Continuity	
Terminal				Continuity	
10	10 11 Selector lever		P position	Not existed	
10	11	Selector level	Other than above	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace A/T shift selector (detention switch). Refer to TM-182, "Removal and Installation".

SEC

J

N

0

B2604 PNP SWITCH

Description INFOID:000000008284475

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-30, "BCM: DTC Logic".
- If DTC B2604 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "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. 	(Transmission range switch circuit is open or shorted.)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to SEC-62, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284477

1. CHECK DTC WITH TCM

Check "Self diagnostic result" with CONSULT. Refer to TM-156, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.check transmission range switch circuit

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

T	TCM		ВСМ	
Connector	Terminal	Connector Terminal		Continuity
F51	9	M123	140	Existed

Check continuity between TCM harness connector and ground.

B2604 PNP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TO	CM		Continuity	
Connector Terminal		Ground	Continuity	
F51	9		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Α

В

С

D

Е

F

J

Н

SEC

M

Ν

0

Ρ

B2605 PNP SWITCH

Description INFOID:000000008284478

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-30, "BCM: DTC Logic".
- If DTC B2605 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-32</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 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 (Transmission range switch circuit is open or shorted.) Transmission range switch IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to SEC-64, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284480

1. CHECK DTC WITH IPDM E/R

Check "Self diagnostic result" with CONSULT. Refer to SEC-182, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK TRANSMISSION RANGE SWITCH CIRCUIT

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

T(TCM BCM Continuity		ВСМ		
Connector	Terminal	Connector Terminal		Continuity	
F51	9	M123	140	Existed	

Check continuity between TCM harness connector and ground.

B2605 PNP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TO	CM		Continuity	
Connector Terminal		Ground	Continuity	
F51	9		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Α

В

С

D

Е

F

G

Н

1

SEC

M

Ν

0

B2608 STARTER RELAY

Description INFOID:000000008284481

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2608 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".
- If DTC B2608 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "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-80, "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

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284483

1.CHECK BCM POWER SUPPLY CIRCUIT

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

(+) BCM		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(44)
M121	52	Ground	Selector lever	N or P position	Battery voltage
IVITZT	52	Ground	Selector level	Other than above	0

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK STARTER RELAY CIRCUIT

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

B2608 STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IPDI	IPDM E/R BCM		BCM		
Connector	Terminal	Connector Terminal		Continuity	
E 6	46	M121	52	Existed	

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

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

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

NO >> Repair or replace harness or connector.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Α

В

D

Е

_

F

G

Н

J

SEC

M

Ν

C

[WITH INTELLIGENT KEY SYSTEM]

B260F ENGINE STATUS

Description INFOID:000000008284484

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B260F is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-30, "BCM: DTC Logic"</u>.
- If DTC B260F is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-32</u>, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to SEC-68, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284486

2013 EX

1. INSPECTION START

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

See SEC-68, "DTC Logic".

Is the DTC B260F displayed again?

YES >> GO TO 2.

NO >> GO TO 3.

2.REPLACE ECM

Replace ECM. Refer to SEC-8, "ECM RE-COMMUNICATING FUNCTION: Description".

>> INSPECTION END

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

B26E1 NO RECEPTION OF ENGINE STATUS SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SEC

M

Ν

Р

B26E1 NO RECEPTION OF ENGINE STATUS SIGNAL Α Description INFOID:0000000008284487 BCM receives the engine status signal from ECM via CAN communication. В DTC Logic INFOID:0000000008284488 DTC DETECTION LOGIC NOTE: If DTC B26E1 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM : DTC Logic". D If DTC B26E1 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "BCM: DTC Logic". Е DTC No. Trouble diagnosis name DTC detecting condition Possible cause BCM does not receive the engine status signal B26E1 NO RECEPTION OF ENGINE STATUS SIGNAL **ECM** from ECM when ignition switch is in ON position F DTC CONFIRMATION PROCEDURE 1. 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. Н Check "Self diagnostic result" with CONSULT. Is DTC detected? >> Go to SEC-69, "Diagnosis Procedure". YES >> INSPECTION END NO Diagnosis Procedure INFOID:0000000008284489 1. INSPECTION START Turn ignition switch ON.

2. Check "Self diagnostic result" with CONSULT. Touch "ERASE".

Perform DTC Confirmation Procedure.

See SEC-69, "DTC Logic".

Is the DTC B26E1 displayed again?

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

2.replace ecm

Replace ECM. Refer to SEC-8, "ECM RE-COMMUNICATING FUNCTION: Description".

>> INSPECTION END

f 3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SEC-69 Revision: 2013 December 2013 EX

B26EA KEY REGISTRATION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INFOID:0000000008284492

B26EA KEY REGISTRATION

Description INFOID:000000008284490

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 operationIntelligent KeyBCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Perform initialization with CONSULT. Register all Intelligent Keys.

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. PERFORM INITIALIZATION

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

Is DTC detected?

YES >> GO TO 2.

NO >> INSPECTION END

2. REPLACE INTELLIGENT KEY

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

Is DTC detected?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> INSPECTION END

B2617 STARTER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2617 STARTER RELAY CIRCUIT

Description INFOID:000000008284493

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2617 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".
- If DTC B2617 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "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 SEC-82, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2617	STARTER RELAY CIRCUIT	An immediate operation of starter relay is requested by BCM, but there is no response for more than 1 second	Harness or connectors (Starter relay circuit is open or shorted.) IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Go to SEC-71, "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				(44.5)
M121	52	Ground	Selector lever	N or P position	Battery voltage
IVITZT	32	Giodila	Selector level	Other than above	0

Is the measurement value within the specification.

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK STARTER RELAY CIRCUIT

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

SEC

Α

D

Е

F

Н

INFOID:0000000008284495

Р

N

B2617 STARTER RELAY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IPDM E/R		ВСМ		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	
E6	46		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

NO >> Repair or replace harness or connector.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B261A PUSH-BUTTON IGNITION SWITCH

Description INFOID:0000000008284496

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

DTC Logic INFOID:0000000008284497

DTC DETECTION LOGIC

NOTE:

 If DTC B261A is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".

 If DTC B261A is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to SEC-32, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE 1

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

Is DTC detected?

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

NO >> GO TO 2.

2.perform dtc confirmation procedure $\scriptscriptstyle 2$

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

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

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 PUSH-BUTTON IGNITION SWITCH OUTPUT SIGNAL 1

- Turn ignition switch OFF.
- Disconnect push-button ignition switch connector and IPDM E/R connector.

SEC

Α

D

Е

F

N

INFOID:0000000008284498

B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

(Push-button	+) ignition switch	(-)	Voltage (V) (Approx.)	
Connector	Terminal		(Арргох.)	
M50	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6. NO >> GO TO 3.

3.CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT 1

- Disconnect BCM connector.
- 2. Check continuity between push-button ignition switch harness connector and BCM harness connector.

Push-button ignition switch		ВСМ		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M50	4	M122	60	Existed

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness or connector.

4. CHECK PUSH-BUTTON IGNITION SWITCH OUTPUT SIGNAL 2

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

(Push-button	+) ignition switch	(-)	Voltage (V) (Approx.)
Connector Terminal			(+)
M50	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

${f 5.}$ CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT 2

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

Push-button ignition switch		IPDM E/R		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M50	4	E5	28	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

DTC/CIRCUIT DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
s the inspection result normal? YES >> GO TO 6.	
NO >> Repair or replace harness or connector.	
CHECK INTERMITTENT INCIDENT	
Refer to GI-42, "Intermittent Incident".	
>> INSPECTION END	

Revision: 2013 December SEC-75 2013 EX

0

B261E VEHICLE TYPE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B261E VEHICLE TYPE

Description INFOID:000000008284499

There are two types of vehicle.

- 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-30, "BCM: DTC Logic".
- If DTC B261E is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to <u>SEC-32</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.
- 2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284501

1.INSPECTION START

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

See SEC-76, "DTC Logic".

Is the 1st trip DTC B261E displayed again?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> INSPECTION END

B210B STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B210B STARTER CONTROL RELAY

Description INFOID:0000000008284502

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

DTC Logic INFOID:0000000008284503

DTC DETECTION LOGIC

NOTE:

If DTC B210B is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-14, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210B	STR CONT RLY ON CIRC	IPDM E/R detects that the relay is stuck at ON position even if the followings condition 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 ignition switch ON.
- Turn ignition switch OFF and wait for 1 second or more. 2.
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

YES >> Go to SEC-77, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK SELF DIAGNOSTIC RESULT

What is the display history of DTC "B210B"?

Check DTC using CONSULT.

"CRNT">>> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

"PAST" >> GO TO 2.

Revision: 2013 December

2.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident"

>> INSPECTION END

SEC

INFOID:0000000008284504

Α

D

Е

F

Ν

Р

2013 EX

SEC-77

B210C STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B210C STARTER CONTROL RELAY

Description INFOID:000000008284505

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210C is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: 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	STR CONT RLY OFF CIRC	IPDM E/R detects that the relay is stuck at OFF position even if the followings condition 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. Press push-button ignition switch to start engine, and wait 1 second or more.
- 2. Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284507

1. CHECK SELF DIAGNOSTIC RESULT

Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

What is the display history of DTC "B210C"?

"CRNT">> GO TO 3.

"PAST" >> GO TO 2.

2. CHECK BATTERY VOLTAGE

Measure the battery voltage.

Which is the measurement result?

More than 12.4 V>>GO TO 5

Less than 12.4 V>>Perform battery inspection. Refer to PG-3, "How to Handle Battery".

3.check p/n position signal circuit voltage

- Turn ignition switch ON
- Selector lever is in P position.
- Check the voltage between IPDM E/R harness connector and ground.

	+) Λ E/R	(-)	Voltage (Approx.)
Connector Terminal			(дрргох.)
E5	30	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

B210C STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> GO TO 4.

4. CHECK P/N POSITION SIGNAL CIRCUIT

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

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

Is the inspection result normal?

>> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SEC

M

Р

SEC-79 Revision: 2013 December 2013 EX

Α

В

D

Е

F

Н

Ν

B210D STARTER RELAY

Description INFOID:000000008284508

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210D is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: DTC Logic".
- If DTC B210D is displayed with DTC B2617, first perform the trouble diagnosis for DTC B2617. Refer to <u>SEC-71, "DTC Logic"</u>.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210D	STARTER RLY ON CIRC	IPDM E/R detects that the relay is stuck at ON position even if the followings condition 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

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284510

1. CHECK SELF DIAGNOSTIC RESULT

Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

What is the display history of DTC "B210D"?

"CRNT">> GO TO 2.

"PAST" >> GO TO 4.

2.CHECK STARTER RELAY CONTROL SIGNAL CIRCUIT VOLTAGE

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

	+) M E/R	(-)	Condition	Voltage (Approx.)
Connector	Terminal			, , ,
E6	46	Ground	Other than at engine cranking	Battery voltage

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

NO >> GO TO 3.

3.CHECK STARTER RELAY CONTROL SIGNAL CIRCUIT

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

B210D STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection result normal?

YES >> Perform the diagnosis procedure for DTC B2608 of BCM. Refer to SEC-66, "DTC Logic".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Α

В

С

D

Е

F

G

Н

1

J

SEC

M

N

0

B210E STARTER RELAY

Description INFOID:0000000008284511

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B210E is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-30, "BCM: 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-86</u>, "DTC Logic".
- If DTC B210E is displayed with DTC B2617 for BCM, first perform the trouble diagnosis for DTC B2617.
 Refer to <u>SEC-71</u>, "DTC Logic".
- When IPDM E/R power supply voltage is low (Approx. 7 8 V for about 1 second), the DTC B210F may be detected.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210E	STARTER RLY OFF CIRC	IPDM E/R detects that the relay is stuck at OFF position even if the followings condition 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 for at least 1 second.
- Selector lever is in the P or N position.
- Do not depress brake pedal.
- Check "Self diagnostic result" with CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284513

1. CHECK SELF DIAGNOSTIC RESULT

Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

What is the display history of DTC "B210E"?

"CRNT">> GO TO 3.

"PAST" >> GO TO 2.

2.CHECK BATTERY VOLTAGE

Check the battery voltage.

Which is the measurement result?

More than 12.4 V>>GO TO 5.

Less than 12.4 V>>Perform battery inspection. Refer to PG-3, "How to Handle Battery".

3.CHECK STARTER RELAY CONTROL SIGNAL

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

B210E STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	+) M E/R	(-)	Condition	Voltage (Approx.)	
Connector	Terminal				
E6	46	Ground	Other than at engine cranking	Battery voltage	

Α

В

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

С

D

Е

F

Н

4. CHECK STARTER RELAY CONTROL SIGNAL CIRCUIT

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

В	BCM		IPDM E/R	
Connector	Terminal	Connector	Terminal	Continuity
M121	52	E6	46	Existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SEC

Ν

0

B210F PNP/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B210F PNP/CLUTCH INTERLOCK SWITCH

Description INFOID:000000008284514

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-30</u>, "BCM: DTC Logic"

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284516

1. CHECK DTC WITH BCM

Check "Self diagnostic result" with CONSULT. Refer to SEC-167, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK TRANSMISSION RANGE SWITCH INPUT SIGNAL

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

	(+) IPDM E/R		Condition		Voltage (V) (Approx.)
Connector	Terminal				
E5	30	Ground	Selector lever	P or N	Battery voltage
E 3	30	Giodila	Selector level	Other than above	0

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

NO >> GO TO 3.

3. CHECK TRANSMISSION RANGE SWITCH CIRCUIT

1. Turn ignition switch OFF.

B210F PNP/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Disconnect TCM connector.

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

IPDI	IPDM E/R		TCM	
Connector	Terminal	Connector	Terminal	Continuity
E5	30	F51	9	Existed

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

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E5	30		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SEC

Ν

SEC-85 2013 EX Revision: 2013 December

D

Α

В

Е

Н

B2110 PNP/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2110 PNP/CLUTCH INTERLOCK SWITCH

Description INFOID:000000008284517

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-30, "BCM: DTC Logic"</u>.

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008284519

1. CHECK DTC WITH TCM

Check "Self diagnostic result" with CONSULT. Refer to TM-156, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK TRANSMISSION RANGE SWITCH INPUT SIGNAL

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

(+) IPDM E/R		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(44)
E5	30	Ground	Selector lever		Battery voltage
	30	Ground	Selector level	Other than above	0

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

NO >> GO TO 3.

B2110 PNP/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

$\overline{3}$.check transmission range switch circuit

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

IPDI	M E/R	TCM		Continuity
Connector	Terminal	Connector Terminal		Continuity
E5	30	F51	9	Existed

4. 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?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SEC

Р

Revision: 2013 December SEC-87 2013 EX

С

Α

В

D

Е

F

Н

D 4

Ν

0

.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000008284520

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

- Turn ignition switch OFF.
- 2. Disconnect BCM connectors.
- 3. 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:0000000008284521

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 >

[WITH INTELLIGENT KEY SYSTEM]

	4.1	•	•		_
19	the	fuse	ŤΙ	ıcın	U.S

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 (Approx.)
IPDN	Л E/R		
Connector	Connector Terminal		
E4	1	Ground	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	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.

SEC

В

D

Е

F

Н

_ _

Ν

0

< DTC/CIRCUIT DIAGNOSIS >

HOOD SWITCH

Description INFOID:000000008284522

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

INFOID:0000000008284523

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> Hood switch is OK.

NO >> Go to <u>SEC-90</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008284524

1. CHECK HOOD SWITCH POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HOOD SWITCH CIRCUIT

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

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

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

IPDN	1 E/R		Continuity
Connector	Terminal	Ground	Continuity
E9	104		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK HOOD SWITCH GROUND CIRCUIT

Check continuity between hood switch harness connector and ground.

[WITH INTELLIGENT KEY SYSTEM]

Hood	I switch		Continuity
Connector	Terminal	Ground	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-91, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace hood lock (RH). Refer to <u>DLK-254, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK HOOD SWITCH

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

Hood	switch	Con	dition	Continuity
Terr	minal	0011	uition	Continuity
1	2	Hood	Close	Not existed
ı	2	ПООО	Open	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace hood lock (RH). Refer to <u>DLK-254, "Removal and Installation"</u>.

SEC

Α

В

D

Е

F

Н

INFOID:0000000008284525

M

Ν

0

HEADLAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HEADLAMP

Description INFOID:0000000008284526

Headlamp lighting when vehicle security system is alarm phase.

Component Function Check

INFOID:0000000008284527

1. CHECK HEADLAMP OPERATION

Check if headlamp operate by lighting switch.

Does headlamp come on when turning switch "ON"?

YES >> Headlamp circuit is OK.

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

Diagnosis Procedure

INFOID:0000000008284528

1. CHECK HEADLAMP OPERATION

Refer to SEC-92, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> repair or replace the malfunctioning parts.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SECURITY INDICATOR LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SECURITY INDICATOR LAMP

Description INFOID:0000000008284529

- · Security indicator lamp is built in combination meter.
- IVIS (Infinity Vehicle Immobilizer System-NATS) and vehicle security system conditions are indicated by blink or illumination of security indicator lamp.

Component Function Check

1. CHECK FUNCTION

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

Test it	em	Descript	ion
THEFT IND	ON	Security indicator lamp	Illuminate
THEFT IND	OFF	Security indicator famp	Not illuminate

Is the inspection result normal?

YES >> INSPECTION END

NO >> Go to SEC-93, "Diagnosis Procedure".

Diagnosis Procedure

 $1.\mathsf{CHECK}$ DTC WITH "UNIFIED METER AND A/C AMP."

Perform "Self Diagnostic Result" for unified meter and A/C amp. Refer to MWI-110, "DTC Index".

Is the inspection result is normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SEC

Α

В

D

Е

INFOID:0000000008284530

INFOID:0000000008284531

В. Л

Ν

O

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY WARNING LAMP

Description INFOID:000000008284532

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:0000000008284533

1. CHECK FUNCTION

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

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

Is the inspection result normal?

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

NO >> Refer to <u>SEC-94, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000008284534

1. CHECK KEY WARNING LAMP

Refer to DLK-104, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION [WITH INTELLIGENT KEY SYSTEM]

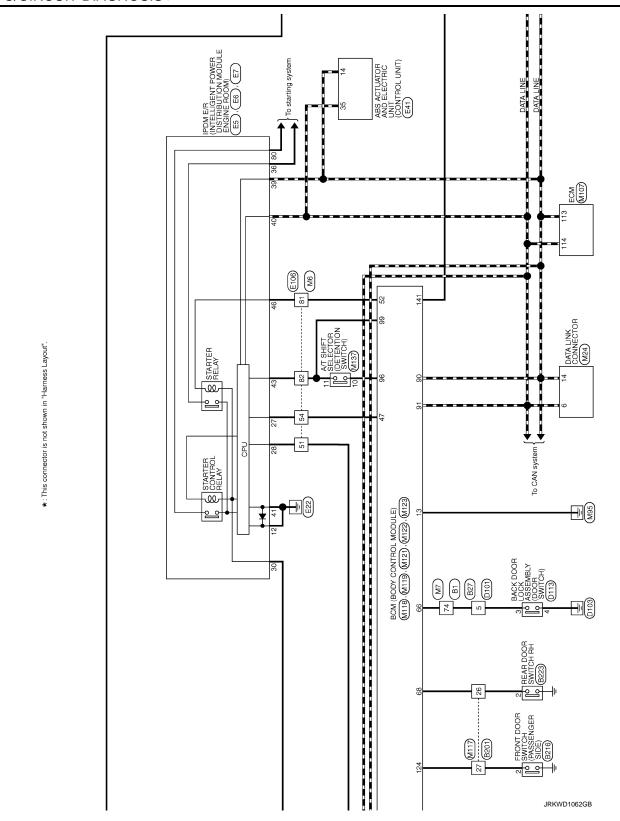
Α

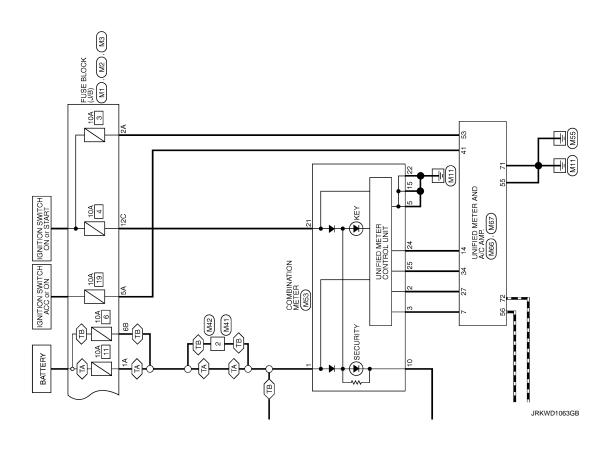
INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

Wiring Diagram - INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION -

For connector terminal arrangements, harness layouts, and alphabets in a 🔘 (option abbreviation; if not

В described in wiring diagram), refer to GI-12, "Connector Information". C (TA). (TB): Refer to "Connector Information" in "HOW TO READ WIRING DIAGRAMS" in "GENTRAL INFORMATION" D Е TCM TRANSMISSION CONTROL MODULE) A/T ASSEMBLY (F51) FRONT DOOR SWITCH (DRIVER SIDE) F (M Н INSIDE KEY ANTENNA (LUGGAGE ROOM) BCM (BODY CONTROL MODULE) (M118) , (M119) , (M123) , (M123) |° PUSH |o≀SWITCH W95 E103 PUSH-BUTTON IGNITION SWITCH (M50) FUSE BLOCK
(J/B)
(M1), (M2),(LOCK B201 J lacksquareINTELLIGENT KEY SYSTEM / ENGINE START FUNCTION SEC 0 ₽ M Ν M42 M41 0 M41 Ρ (Mg 40**A** BATTERY 2013/11/22 JRKWD1061GB





Α

В

С

D

Е

F

G

Н

J

SEC

L

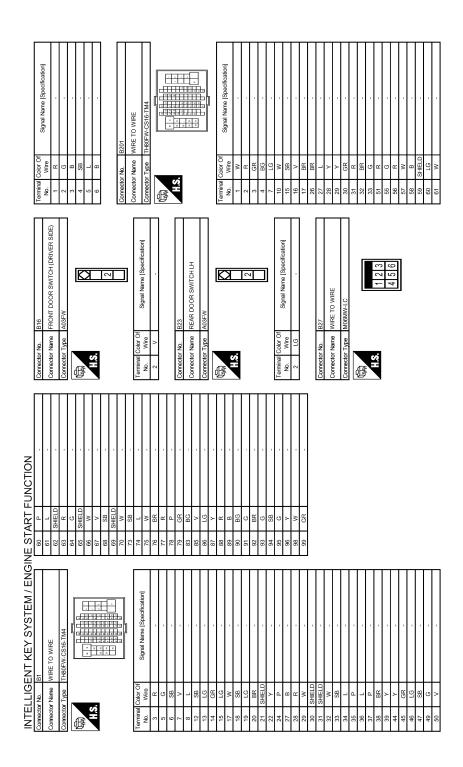
M

Ν

0

Ρ

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION [WITH INTELLIGENT KEY SYSTEM]



JRKWD1281GB

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION IT DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

System S	<u>ا</u>	計	- BB	62 RR Compediately R223	Terminal Color Of	19 W
Cornector Name Connector Name Conn	63	╀				╀
Cornector Type A03FW Signal Name Sworthallor) Cornector Name C	9	┞	-	Connector Name REAR DOOR SWITCH RH	α.	┞
Cornector Name Corn	69	┝	9	Connector Type A03FW	H	H
Figure Corrector Name Sugrat Name Stocklication Name Sugrat Name Stocklication Name Sugrat Name	99	H	,		H	H
Terminal Color Of Signal Name [Specification] Terminal Color Of Terminal Color Of Terminal Color Of Terminal Color Of Terminal Color	67	-	-	_	┞	30 GR
Terminal Older Of Signal Name [Specification] Terminal Older O	99		HELD -		H	H
Former Character No. Signal Name Specification Corrector Name Signal Name Specification Corrector Name Signal Name Specification Signal Name Specificati	59	-	- ^	Ž.H.	\vdash	
Terminal Color Of Signal Name (Specification) Corrector Name Correct	76	Н	Υ .	2		
Terminal Color Of Frenche Corrector Na. Corrector Na. Corrector Na. Corrector Na. Corrector Name Specification Na. Name Specification Name N	71	H	SB -	ī		Connector No. E6
Corrector Name Signal Name Specification Corrector Type NSVIAFW.CS	72	Н			П	Connector Name PDM E/R (NTELLIGENT POWER DISTRIBUTION MODULE
Terminal Color Signal Name [Specification] Corrector Type RIVIGHTW-CS12 MATERIAN (LOCACE ROOM) Corrector Name Signal Name [Specification] Corrector Name Signal Name [Specification] Corrector Name No. Whee Corrector Name No. Whee Corrector Name Signal Name [Specification] Corrector Name No. Whee Corrector Name No. Whee Corrector Name Signal Name [Specification] Corrector Name No. Whee Corrector Name Signal Name [Specification] Corrector Name No. Whee Corrector Name Signal Name [Specification] No. Whee Corrector Name No. No.	73	-	BR -			
Corrector No. Wire Corrector No. BZ28	75	Н	Υ .		COLLECCO Name BACK DOOK COOK ASSEMBLE	Connector Type TH08FW-NH
Corrector No. B228	98	\dashv		Wire	Connector Type NS04FW-CS	4
Corrector No. E228 Corrector No. Corre	8	\dashv	SB -	┪	4	
Corrector Name Rising KEYAMTENAN (LUGGAGE ROOM) Corrector Name Signal Name Specification Corrector Name Correct	82	+			医	K
Corrector Name NEGGE NAME Negge Negge Negge Negge Ne	8	+		-1		<u> </u>
Cornector Name Signal Name Signal Name Signal Name Specification	20 5	+	Υ.	1	_	41 40 38
Corrector Type RK02FGY	ő	+			4 3 2 1	46 45 44 43
Terminal Cohor Of Signal Name Specification Terminal Cohor Of T	8	+	BG	NO LONGE TO SECUL		
Terminal Color Of Signal Name Specification Terminal Color Of Terminal Color	õ	+	-	Connector Type RKUZFG?		
Terminal Color Of No. Signal Name Specification No. Signal Name Specification No. Signal Name Specification No. Signal Name Specification No. No. No. Signal Name Specification No. N	ž (+	, a ;	ą.	· .	<u>a</u>
Terminal Color Of Signal Name (Specification) Terminal Color Of Signal Nam	5	+	· > (AHA		wire
Terminal Color Of Name (Specification) Corrector Name (Name (Specification) Corrector Name (Name	8	+		S	+	38 7
Terminal Calco Of Flow Signal Name [Specification] Corrector Name Signal Name [Specification] Corrector Name Signal Name [Specification] Corrector Name Name Signal Name Specification] Corrector Name Name Signal Name Specification] Corrector Name Name Specification] Name Signal Name Specification] Na	5 6	+	× 6		$^{+}$	$^{+}$
Terminal Color Of Signal Name [Specification] Corrector No. Estimate Color Of Name C	8 8	+	388		+	41 B/W
Terminal Color Of No. Wreelens Signal Name Specification 1	8 6	+)	$^{+}$	$^{+}$
Terminal Color Of Signal Name [Specification] Corrector No. ES Provided Color Of Signal Name [Specification] Corrector No. ES Provided Color Of Corrector No. Provided Color Of Provid	5 8	+	5 0		┨	
Part	% [8	+		Townson Color Of		5 6
1	8 3	1,	-		Γ	┨
Signal Name Specification 2 58	2		,	+	Т	
Signal Name Specification Signal Name Specification				╁		Connector No. E7
Corrector No. Corrector No	Con	ector N	H			PDM E/R (NTELLIGENT POWER DISTRIBUTION MODULE
Commercior No. Comm	C	actor N	Jame FRONT DOOR SWITCH (PASSENGER SIDE)	- 1	ģ	COLLECCOL INGILITIE ENGINE ROOM)
Corrector Name WirE TO WIRE				- 1	[E]	Connector Type TH20FW-CS12-M4
Commercior Type MAGETW.LC	5	ector		Connector Name WIRE TO WIRE	E	Œ
Terminal Color Of Signal Name [Specification] Signal Name [Spe	ß	1	E	Connector Type M06FW-LC	2 3	
1	7	ď	K	d)		
2 Terminal Color Of		ē				88
			2			
Signal Name [Specification] 7 7 112 113				6 5 4	wire ^	Terminal Color Of
7 172 173 179 179 179 179 179 179 179 179 179 179	Term	inal	Olemon Momes Co		+	No. Wire Signal Name [Specification]
113	Š	2	Olginal rating [5		\dashv	
+	2	\dashv	L -		+	+
⊣					+	+
					\dashv	53 W -

L

Α

В

С

D

Е

F

G

Н

J

SEC

M

. . .

Ν

0

JRKWD1282GB

Р

Revision: 2013 December SEC-99 2013 EX

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION T DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

- 1	Connector No. E106	Connector Name WIRE TO WIRE	-	Connector Type TH80FW-CS16-TM4			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 7 7 7 8 8 8 8 8 8 8 8 8				aa B		+	2 W	+	4 GK	t	9 BR	10 BG -	11 SB -	12 BG -	13 L	14 R	15 P -	16 V -	17 SB -	18 v	20 BG -	21 L .	22 V -	23 G .	24 P -	25 Y -	26 V -	27 W -	28 G	31 BG -	32 W	H	H	H	36 SHIELD -	37 V	38 BR		H	Н	
		Ō	UST	BUS-L	DP.FL	DS RL	ZN	DS RR	BLS	VDC OFF SW	CAN-H	BUS-H			E103	FUSE BLOCK (J/B)	00 1110101	NS16FW-CS			84 48 7 94 18		#8 #8			Picture (Constitution)	olgikal name [opecincation]					•																		
-	7	굜	19 P	25 Y	\dashv	27 GR	28 G	29 LG	30 SB	31 R	35 L	45 B			Connector No.	Connector Name		Connector Type	4	+	ζ. E					Terminal Color Of	No. Wire	1F SB	2F W	4F G	6F BR	8F L	9F R																	
:UNCTION								•																		E41	THE ACTIVITY OF THE PROPERTY OF A	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	BAA42FB-AHZ4-LH				(S)	46 3 2 1 3 3 3 3 3 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Complete Complete	orginal ivalue [opecification]	GROUND	UBMR	UBVR	GROUND	DS FL	DP RL	DP RR	DP FR	DSFR	VAC	
ART	9	g	>	Ь	٣	BR	Υ	G	BG	SHIELD	٦	Ь	œ	≥ .	9	υ <u>ξ</u>	2 1	SHELD W	: #	9	В	SB	ч				Comparator Nome		Connector Type	ŀ	_		ā)	Wire	В	S	~	В	>	BG	H	В	^	٦	
SES	52	27	78	29	30	31	32	33	34	37	38	38	40	4	42	43	0,0	40	48	49	20	51	52			Connector No.	Journal	Connec	Connec		1	ŧ	Ģ					Terminal	ė	-	2	က	4	2	9	_	6	10	12	
끎	54 P -	55 SB -	\dashv	57 G -	\dashv	-	Н	Н	75 SB -	Н	77 R -	Н		Γ	Connector No. E13	Connector Name WIRE TO WIRE	othic cod discourse	Connector Lype SAASowis-RS8-SR28		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ź.	2	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	100 mm 10		В	olgikii Name	Г	2 SHIELD -	3 L/B -	4 SHIELD -	Н	- 9 2	- M 8		10 Y -	H	Н	13 L -	L	┞	16 LG	⊦	H	L	┞	22 W -	L	24 G -	

JRKWD1283GB

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

Connector No. F51 Connector Name ArT ASSEMBLY Connector Type RK10FG-DGY ##.S. \$\begin{array}{c} \ 5 \ 4 \ 3 \ 2 \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ 1 \ \ \ 1 \ \ \ 1 \ \ \ 1 \ \ \ 1 \ \ \ 1 \ \ \ \ 1 \ \ \ 1 \	Terminal Color Of No. Signal Name (Specification) No. Wire Wire Signal Name (Specification) 1		
12 P	24 LG 27 CR 28 VR 29 BR 29 LR 29 LR 30 R 31 P 32 WW 33 SB 34 O 37 SHELD 34 CR 41 B 42 CR 45 CR	45 SHELD	
NE START FUNCTION MOMENTIC	1 1 1 1 1 1 1 1 1 1	Superior Type SAA36FB-RSB-SH28 SAA56FB-RSB-SH28 SAA56B-RSB-SH28 SAA56B-RSB-SH28 SAA56B-RSB-SH28 SAA56B-RSB-SH28 SAA56B-RSB-SB-SB-SB-SB-SB-SB-SB-SB-SB-SB-SB-SB-S	
NTELLIGENT KEY SYSTEM / ENGINE START FUNCTION 143 BR 154 BK 154 BK 155 BK	W C C C C C C C C C C C C C C C C C C C	R	

JRKWD1284GB

SEC-101 Revision: 2013 December 2013 EX

В

Α

C

D

Е

F

G

Н

SEC

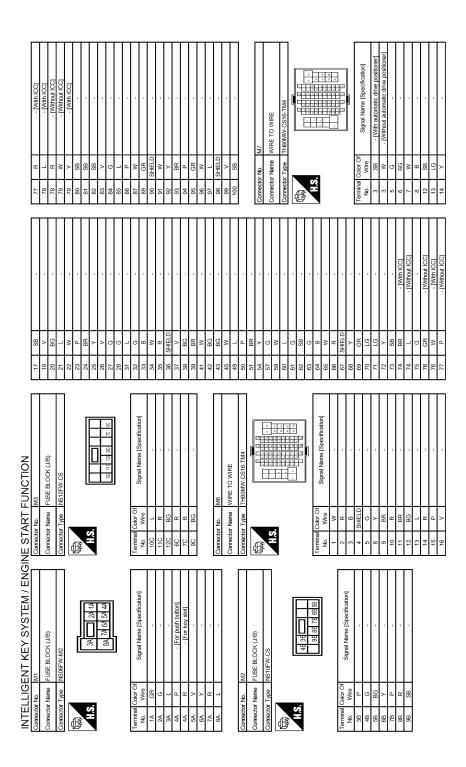
L

M

Ν

0

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION [WITH INTELLIGENT KEY SYSTEM]



JRKWD1285GB

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION T DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

SEC

Α

В

С

D

Е

F

G

Н

L

M

Ν

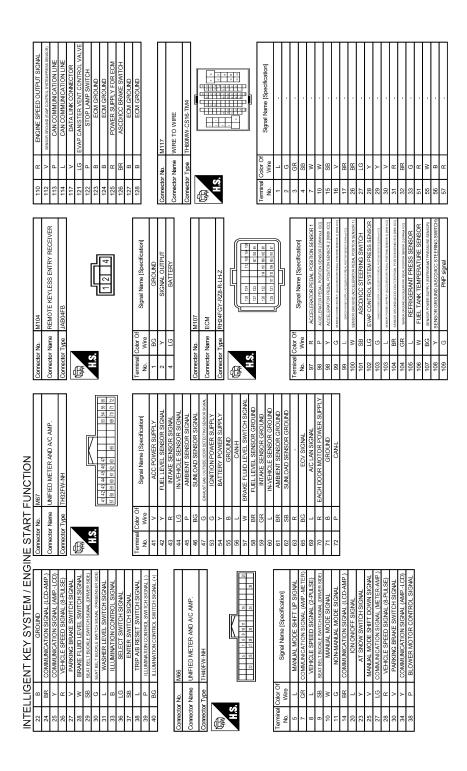
0

JRKWD1286GB

Ρ

Revision: 2013 December SEC-103 2013 EX

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION [WITH INTELLIGENT KEY SYSTEM]



JRKWD1287GB

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION T DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

Color Of Signal Name Specification Signal Name Spec	G SHIELD V		Corrector No. M118 Corrector Name BCM (BODY CONTROL MODULE)	Connector No. Connector Name	M121 BCM (BODY CONTROL MODULE)	88 83	ਲੂ ≥ ¤	NATS ANT AMP. NATS ANT AMP. IGN RELAY (F/B) CONT
The minimal Color Of Terminal Color Of Termina	Ц		Connector Type M03FB-LC	Connector Type	TH40FGY-NH	83	: >-	KEYLESS ENTRY RECEIVER COMM
Terminal Color Of Signal Name Specification 1 m 1	\perp		1	4		87	BR >	COMBI SW INPUT 5
The property of the property	Ц			Arth		8 6	> @	CAN-L
Terminal Coter Of	╛		1.3.	Ž E		91	٦	CAN-H
Terminal Cody Of Signal Name (Specification) No. Wire Corrector No					20 20 20 20 20 20 20 20 20 20 20 20 20 2	95	<u>ا</u>	KEY SLOT ILL CONT
Terminal Color Of Signal Name Specification Number Signal Name Specification Signal Name Signal Name Specification Signal Name Speci	1		3			88	> >	UNINO THE COURT I THE COURT
Terminal Color Of Signal Name Specification No. Wive Suprair Name Suprair Name Suprair Name No. Wive Suprair Name No. Wive Suprair Name Suprair Name No. Wive Suprair Name Suprair Name No. Wive Suprair Name Supra	ATIECD /					t o	- 8	ACC BELAY CONT
No. Wire Signal Name Specification No. Wire Signal Name Specification Signal Name Signal Name Specification Signal Name Signal Name Specification Signal		1	Color Of	Terminal Color Of	L	96	8	A/T SHIFT SELECTOR POWER SUPPLY
1 W POWER WINDOW POWER SUPPLY(RAT) 34 SB LUGGAGE ROOM ANT 100 SB SF LUGGAGE ROOM ANT 101 SB SB RACK COOR ANT 102 SB STARTER RELAY CONT 103 TO LC TO LC TO LC TO LC TO TO TO TO TO TO TO T		1	Wire	No. Wire		66	ď	SHIFT P
2		-		H	LUGGAGE ROOM ANT-	100	9	PASSENGER DOOR REQUEST SW
3	L		П	35 V	LUGGAGE ROOM ANT+	101	SB	DRIVER DOOR REQUEST SW
Corrector No. M119	L		>	H	BACK DOOR ANT-	102	BG	BLOWER FAN MOTOR RELAY CONT
Corrector No. Mi19 Mi19	L			H	BACK DOOR ANT+	103	PΠ	KEYLESS ENTRY RECEIVER POWER SUPPLY
Convector No. M119 Convector No. M12 M1 M1 M1 M1 M1 M2 M2	L	1		47 Y	IGN RELAY (IPDM E/R) CONT	107	PΠ	COMBI SW INPUT 1
Corrector Name BOM (BODY CONTROL MODULE) Corrector Name Corrector	L			H	STARTER RELAY CONT	108	ď	COMBI SW INPUT 4
Corrector Type MS16FPVCS Corrector Type MS16FPVCS Corrector Type MS16FPVCS Corrector Type MS16FPVCS Corrector Type Correct	L			H	PUSH SW	109	У	COMBI SW INPUT 2
Corrector Type NS16FW-CS 64 V HKTY WARR BUZZER (ENG ROOM) 66 R BACK WIDER STOP POSITION 67 GR BACK WIDE	L			H	BACK DOOR OPENER REQUEST SW	110	9	HAZARD SW
Corrector No. Corrector No	L			V V	I-KEY WARN BUZZER (ENG ROOM)			
1 1 1 1 1 1 1 1 1 1	L			┞	REAR WIPER STOP POSITION			
1 13 14 15 17 18 19 10 69 R REJAR MIDOR SW Corrector Name FEAR MIDOR SW Corrector Name Corrector				_	BACK DOOR SW	Connecto		M123
1 1 1 1 1 1 1 1 1 1				┝	BACK DOOR OPENER SW			i i i i i i i i i i i i i i i i i i i
14 15 14 15 17 18 19 19 19 19 19 19 19			4 5 7 1 8 9	H	REAR RH DOOR SW	Connecto	Name	BCM (BODY CONTRUL MODULE)
Terminal Cobr Of Signat Name Specification Cornector Name Corne			81 21 21 18	L	REAR LH DOOR SW	Connecto	Type	TH40FG-NH
Terminal Color Of Signal Name [Steedification] Terminal Color Of Signal Name [Steedification] The Connector Name BCM (BODY CONTROL MODULE) Connector Name BCM (BODY CONTROL MODULE) Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FB-NAT TH40F		-	01 21					
Corrector No. Corrector No						E C		
Terminal Code OI Signal Name Sheedification Terminal Code OI Signal Name Sheedification Connector Name BCM (BODY CONTROL MODULE) Connector Name BCM (BODY CONTROL MODULE) Connector Name Connector Name Code OI				Connector No.	M122			
No. Wire Signatural polarization value Down Pour Pour Pour Pour Pour Pour Pour Pour			Color Of			Ž E	Į!	<u> </u>
4 LG INTERIOR COMPONER SUPPLY Corrector Type TH40FB.N4	L		Wire	Connector Name	_			12 22
1	L	- [Without BOSE audio]	97	Connector Type	TH40FB-NH		92	38 38
7	L	- [With BOSE audio]	7	[
S	L	- [Without BOSE audio]	7 Y STEP LAMP CONT					
BR FEANDOOR UND. CONCLORED CONTROL	Ц	- [With BOSE audio]	> (V.		Terminal	Color Of	Signal Name [Specification]
R			5 8		6 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9	2	
No. PLISH BLITGOLIAN TOTAL SIGNAL RH (FRONT) TOTAL SIGNAL RH (¥ .			113	1 8	OPLICAL SENSOR
V PUSHBUTTONIONITIONSWILL GND Terminal Color Of Signal Name (Specification) T2 BR 119 SB 120 BR 120			< 0			140	9 0	STOP LAWR SW I
V FUSH-BUTTOW ISMIT LOND V TURN SIGNAL RH (FRONT) TAX Signal Name [Specification] T23 BK W TURN SIGNAL RH (FRONT) T4 SB PASSENGER DOOR ANT- T24 LG V INTROOM LAMP CONT T6 V DRIVER DOOR ANT- T32 BK T7 LG V DRIVER DOOR ANT- T34 BK T7 LG V DRIVER DOOR ANT- T34 BK T8 V ROOM NATT- T34 BK T8 T3			n ;			81.1	- 6	STOP LAMP SW Z
V TURN SIGNAL RH (FRONT) No. Wire PASSENSER DOOR ANT 123 W 124 BK No. Wire PASSENSER DOOR ANT 124 BK NO. Wire PASSENSER DOOR ANT 124 LG CR PASSENSER DOOR ANT 124 LG CR PASSENSER DOOR ANT 125 BK NO. NO. CR CR CR CR CR CR CR C			* ;	T		911	3	DR DOOR UNLOCK SENSOR
W TURN IONAL HERONT)			<u></u>			121	쑮	KEY SLOT SW
BG TURN SIGNAL LH (FRONT) 74 SB PASSENGER DOOR ANT- 124 125			*	+		123	≥	IGN F/B
V INT ROOM LAMP CONT 75 GR PASSENGER DOOR ANT+ 132 BR 132 BR 133 BR 133 BR 134 BR 134 BR 134 BR 134 BR 134 BR 135 B			BG	+	PASSENGER DOOR ANT-	124	ΓG	PASSENGER DOOR SW
V DRIVER DOOR ANT- 133 W LG DRIVER DOOR ANT+ 134 GR Y ROOM ANT1- 137 BG			>	\dashv	PASSENGER DOOR ANT+	132	BR	POWER WINDOW SW COMM
LG DRIVER DOOR ANT+ 134 GR Y ROOM ANT1- 137 BG				76 V	DRIVER DOOR ANT-	133	Χ	PUSH-BUTTON IGNITION SW ILL POWER
Y ROOM ANT1- 137 BG				+	DRIVER DOOR ANT+	134	GR	LOCK IND
				+	ROOM ANT1-	137	BG	RECEIVER/SENSOR GND

SEC

Α

В

D

Е

F

G

Н

L

M

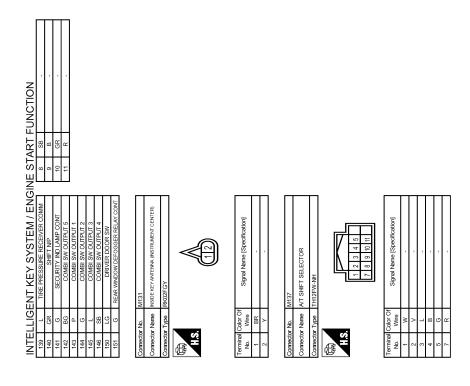
Ν

0

JRKWD1288GB

Ρ

Revision: 2013 December SEC-105 2013 EX



JRKWD1289GB

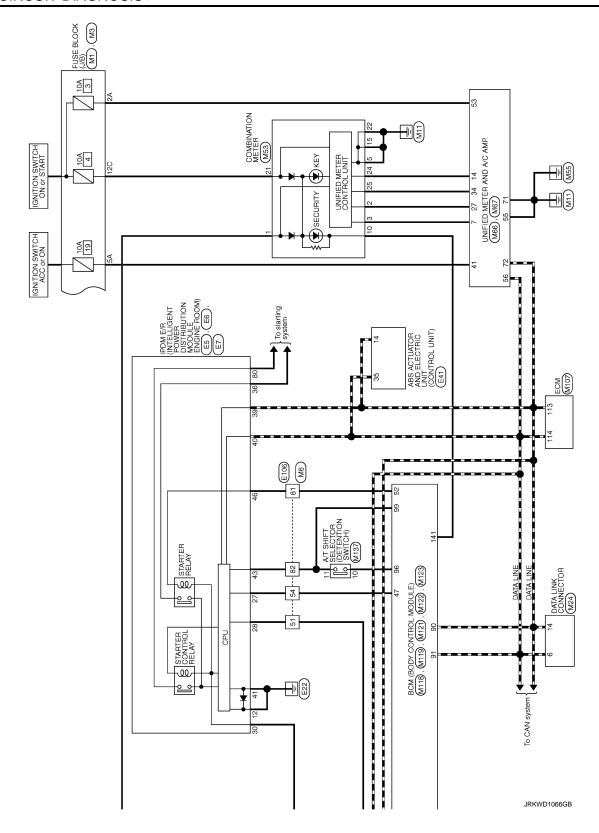
Α

INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS

....

Wiring Diagram - IVIS -INFOID:0000000008284536 For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not В described in wiring diagram), refer to GI-12, "Connector Information" C JOINT D (TA). (TB): Refer to "Connector Information" in "HOW TO READ WIRING DIAGRAMS" in "GENTRAL INFORMATION" Е 26 F FRONT DOOR SWITCH (PASSENGER SIDE) (B216) M117 B201 KEY SLOT Н M2), (E103) (BODY CONTROL MODULE)), (M119), (M122), (M123) 98 FUSE BLOCK (J/B) FRONT DOOR SWITCH (DRIVER SIDE) O PUSH SWITCH (F) PUSH-BUTTON IGNITION SWITCH (M50) J BCM (B M118). SEC 10A INFINITI VEHICLE IMMOBILIZER SYSTEM M *: This connector is not shown in "Harness Layout". Ν 0 10 4 M41 Ρ 2013/11/22 M6 40A A BATTERY

JRKWD1065GB



INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS AGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

CONTROL OF THE CONTRO	+	- Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)	ġ,	No. Wire	Signal Name [Specification]
Connector Type TH80FW-CS16-TM4	62 83	\neg	/	7 2	ഷ ഗ	
	\top	SHIELD . G	K	8 4	SB BS	
2 2 2 2 2 2 2 2 3	99	\ \ \	<u>K</u>	9	_ 8	
V 5 2 3 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	П	SB	2			
A A	П			Connector No.	Н	B201
	23	88		Connect	or Name	Connector Name WIRE TO WIRE
Signal Name [Specification]	74	L Terminal Color Of Wire	Signal Name [Specification]	Connect	Connector Type	TH80FW-CS16-TM4
	92	-			1	
	2.2			F		
	78			ŧ		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	79	GR - Cornector No. B23		2	7	2 2 3 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	83	Connector Name	REAR DOOR SWITCHTH			3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	92					9 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	98	LG - Connector Type A03FW	>			
	87		[. 0	
,	88 8	- LAN		lermina	erminal Color Of	Signal Name [Specification]
	80 0	S	<u>x</u>	į	D W	
	+		ľ	- ^	ε α	
	6		7	1 0	2 25	
	33			4	5 5	
	3 2	9 89]	-	3 5	
	95	Terminal		. 01	>	
	96		Signal Name [Specification]	12	g	
	86	W		16	^	
	66	GR -		17	BR	-
				56	BR	
		Connector No. B27		27	_	
		IMIBE TO WIBE	TO WIBE	28	≻	
			, C	59	≻	
		Connector Type M06MW-LC	IW-LC	30	GR	
		ď		31	œ	
				32	BR	
				33	9	
		i E	1 2 3	51	ч	=
-				22	9	-
			0 6 4	26	ď	
•				22	Μ	-
				28	В	
				29	SHIELD	
				9	9	
_						

SEC

Α

В

D

Е

F

G

Н

L

M

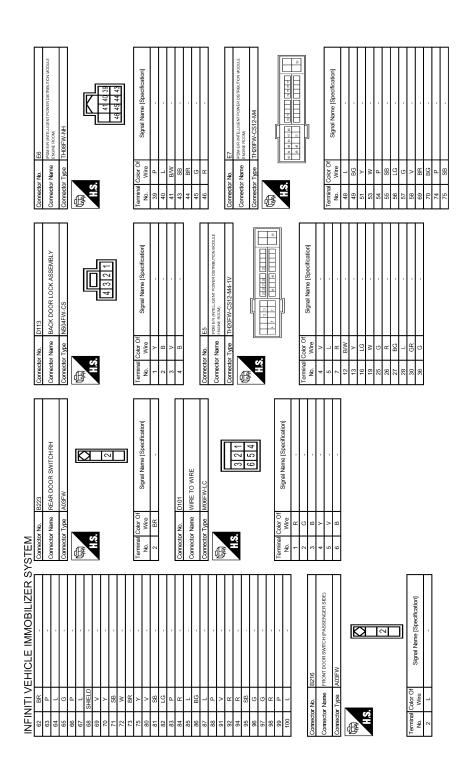
Ν

0

JRKWD1298GB

Р

Revision: 2013 December SEC-109 2013 EX



JRKWD1299GB

INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS AGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

ŀ	+	+	14 R -	15 P -	16 V -	17 SB -	\dashv	20 BG -	+	4	4	\dashv	25 Y -	-		Н	31 BG -	\dashv	+	+	Т	30 SMELD :	+	38 BK	$^{+}$	╁	H	45 W -	+	50 P	51 L	+	- Na 7c	+	7	+	. SB 20	+	64 B	+	1	67 SHIELD -	- × 89	- TC 97 69	70 W	71 R -	72 Y -	73 B -	Ŧ
MO TTO OCT	VDC OFF SW	CAN-H	BUS-H			E103	FLISE BLOCK (J/B)	\neg	NS16FW-CS				6F 4F 7		\$ 5 S			Of Signal Name (Specification)									E106	WIRE TO WIRE		TH80FW-CS16-TM4									Of Signal Name [Specification]					-					
╁	× .	+	45 B			Connector No.	Connector Name		Connector Type	þ	ほ	Ę	ė L					nal	7	+	+	+	PP PP	7 20	┨		Connector No.	Connector Name		Connector Type	þ	新	\ \ \						Terminal Color Of	+	~ -	2 W	3 B	4 GR	5 GR	8	9 BR	┞	+
YSTEM	T	+		40 R	41 W -	42 LG -	+	45 BG -	46 SHIELD -	\dashv	48 BR -	4	50 B -	51 SB .	52 R -			Connector No. E41	Connector Name ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)		Connector Type BAA42FB-AH24-LH	4	AHT	SH	(S)				E S	_	1 B GROUND	5 0	κ (n ;	DSE.		0 P.K.K.		10 W DSFR	1	4	SHIELD	۵	25 Y BUS-L	26 LG DP.FL	27 GR DS.RL	9	ä	2 6
MOBILIZER SYSTEM									Connector Type SAA36MB-RS8-SHZ8		22 22	2 2	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 33 40 41 6 43	0 K C C C C C C C C C C C C C C C C C C		Signal Nama [Spacification]	financia de la companion de la																		Ī							-		1			

SEC

Α

В

С

D

Е

F

G

Н

M

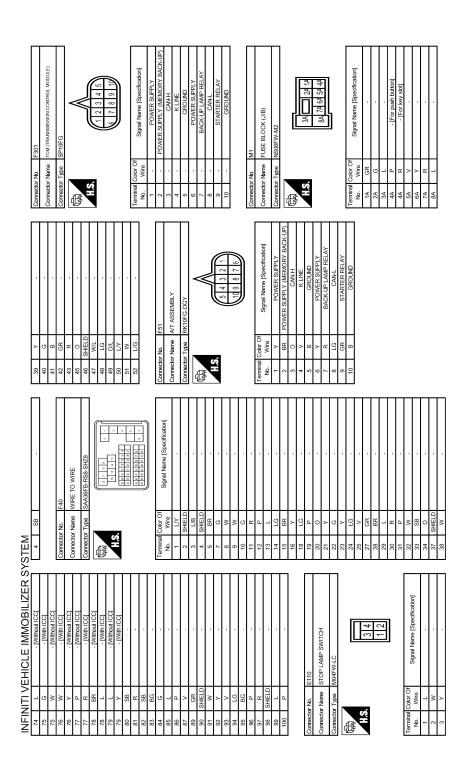
Ν

0

JRKWD1300GB

Р

Revision: 2013 December SEC-111 2013 EX



JRKWD1301GB

INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS AGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

					M7	WIRE TO WIRE		TH80MW-CS16-TM4		9999	3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3.1	11	0 0 0	6 9			Signal Name [Specification]	- [With automatic drive positioner]	- [Without automatic drive positioner]										-		•			-		•		-			,	,				,		
SHELD	;	> %			or No.	Connector Name		Connector Type									Color Of		SB	Α	9	BG	٨	В	SB	PΠ	Υ	9	≥	SB	9	BR	SHIELD	>	>	В	Μ	ď	SHIELD	٦	۵	SB	7	۵	_	۵	BR	>	-
86	8	£ 5			Connector No.	Connect		Connect		E	1	35					Terminal	2º	8	3	2	9	7	8	12	13	14	15	17	18	19	20	21	22	24	27	28	58	30	31	32	33	34	32	36	37	38	88	44
					1		-		-							í		1			1	- [With ICC]	- [Without ICC]		- [Without ICC]	- [With ICC]	- [Without ICC]	- [With ICC]	- [With ICC]	- [Without ICC]	- [Without ICC]	- [With ICC]		•		-	-		1										
88	3	≥ _	۵	R	>	9	×	Ţ	9	SB	Ö	8	Μ	~	SHELD	>	GR	2	PC	>	88	BR	7	9	GR	W	Ь	æ	_	ď	Ņ	>	SB	SB	SB	>	g	7	Ь	W	GR	SHELD	Μ	>	BR	۵	GR	3	-
43	ļ.	t 4 64 64	20	51	54	22	29	9	61	62	63	49	65	99	Т	Т	69	0,2	7	72	73	74	74	75	92	92	2.2	77	78	78	79	79	80	81	82	83	84	82	98	87	68	Г	Г	92	83	96	92	96	45
STEM M6	T	Connector Name WIRE TO WIRE	Connector Type TH80MW-CS16-TM4				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 9 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				Terminal Color Of	No. Wire Signal Name [Specification]	W	2 R	8	SHIELD	5 6	· ~	9 BR	10 R	11 BR -	12 BG -	13 L	14 R -	15 P -	16 V -	"	- \	20 BG -	\dashv		+	_	25 Y -	26 V -	27 G -	28 G .	34 L	H	L	M	H	돐	37 V	38 BG	F	┞	H
INFINITI VEHICLE IMMOBILIZER SYSTEM Connector No. M/2		Connector Name FUSE BLOCK (J/B)	Connector Type NS10FW-CS			F	4838	100	8c ho h/ h8 h6			1	Signal Name [Specification]							,			M3	(GIL) XIOO IS TOLIS COMPANY	FUSE BLUCK (J/B)	Connector Type NS12FW-CS					\$	124 114 104 90 70 90			Terminal Color Of Signal Name [Specification]	Wire Ogner reme [opcorrection]												1	1

SEC

Α

В

D

Е

F

G

Н

L

 \mathbb{N}

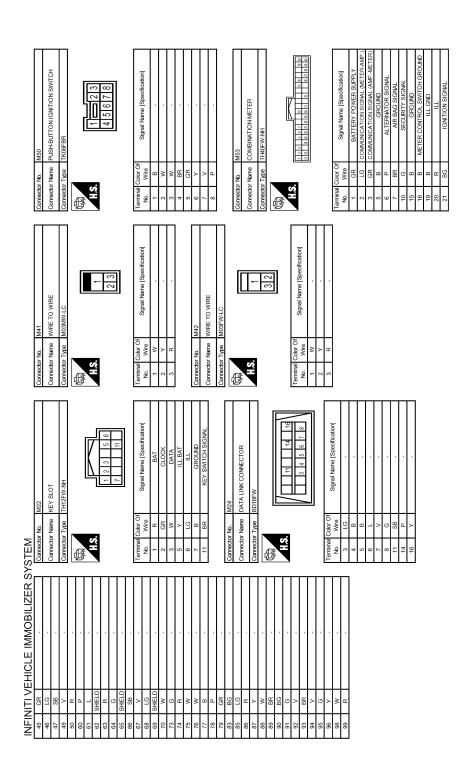
Ν

 \cap

JRKWD1302GB

Р

Revision: 2013 December SEC-113 2013 EX



JRKWD1303GB

WIRE TO WIRE THEOMAN-CSTG-TMA THEOMAN-CSTG-TMA Signal Name [Specification]
Corrector No. December No. Corrector Name No. No
Corrector Name
TEM
SYSTEM Convector by Convector by Above the second of th
EHICLE IMMOBILIZER GROUND MANABER GROUND GROUND GROUND MANABER GROUND GROUND MANABER GROUND MANABER GROUND MANABER GROUND MANABER GROUND MANABER GROUND GRO
NA INFINITION Name of the part of th

JRKWD1304GB

Revision: 2013 December SEC-115 2013 EX

В

Α

С

D

Е

F

G

Н

SEC

L

 \mathbb{N}

Ν

0

INFINITI VEHICLE IMN	HICLE IMMOBILIZER SYSTEM	YSTE	MΞ							
73 G		S	Connector No.	M119	9	>	BACK DOOR OPENER REQUEST SW	110 G	HAZARD SW	
75 W		č	socios blomo	THEOR CODINGS NOON WOO	64	^	I-KEY WARN BUZZER (ENG ROOM)			
^		3	Connector Name	BUM (BUDY CONTROL MUDULE)	65	BG	REAR WIPER STOP POSITION			
81 SB		Ö	Connector Type	NS16FW-CS	99	œ	BACK DOOR SW	Connector No.	M123	
┝		L			49	GR	BACK DOOR OPENER SW			
83 P		Œ	\		89	H	REAR RH DOOR SW	Connector Name	BCM (BODY CONTROL MODULE)	
84 R			Ţ	-	69	œ	REAR LH DOOR SW	Connector Type	TH40FG-NH	
7 98		•	ń	4 5 7 8 9 10				[
86 BG				11 13 14 15 17 18 10				E		
7 L8				11 10 11	Connector No.		M122	·		
88 P					Compositor Namo		Callidom Logaroo Adoo Mod	Ż.	7	
٥١ /							SOM (BOD) CONTINCE MODOLE)		2E EE EE	
		Tern	ᄝ	Signal Name [Specification]	Connector Type		TH40FB-NH		数 数 3 2 2 3 3 3 3 3 4 3 5 3 4 3 5 3 5 3 5 5 5 5 5	
\dashv		2	No. Wire		4	-				
96 W			4 LG	INTERIOR ROOM LAMP POWER SUPPLY	B					
96 96			2 r	PASSENGER DOOR UNLOCK OUTPUT	ŧ			Terminal Color Of	Of Signal Nama (Spootfication)	
Y 26		Ľ	۷ .	STEP LAMP CONT	Ź	<u>l</u>	7	No. Wire		
98 BR		_	۸ ۸	ALL DOOR, FUEL LID LOCK OUTPUT		44	75 76 76 76 76 76 76 76 76 76 76 76 76 76	113 P	OPLICAL SENSOR	
Ы 66	- [Without BOSE audio]	Ĺ	9 6	DRIVER DOOR, FUEL LID UNLOCK OUTPUT			10 12 13 11	116 SB	STOP LAMP SW 1	
^ 66		_	10 BR	REAR DOOR UNLOCK OUTPUT				118 P	STOP LAMP SW 2	
100 L	- [Without BOSE audio]	-	11 R	BAT (FUSE)				119 SB	DR DOOR UNLOCK SENSOR	
100 SB	- With BOSE audiol	Ĺ	13 B	GROUND	Terminal Color Of	Color Of		L		
-		_	Ĺ	PUSH-BUTTON IGNITION SW ILL GND	2	Wire	Signal Name [Specification]	╁		
		_	15 Y	ACC IND	74	g	PASSENGER DOOR ANT-	124 LG	PASSENGER DOOR SW	
Connector No. M118	81	_	W 71	TURN SIGNAL RH (FRONT)	75	GR	PASSENGER DOOR ANT+	132 BR	2	
Γ		ľ	┞	TURN SIGNAL LH (FRONT)	92	>	DRIVER DOOR ANT-	┞	PUSH	
Connector Name BCN	BCM (BODY CONTROL MODULE)	_	H	INT ROOM LAMP CONT	77	97	DRIVER DOOR ANT+	F	T	
Connector Type M03FB-LC	FB-LC				2/8	>	ROOM ANT1-	╀	RECEIV	
and and an					62	8	BOOM ANT1+	╀	RFCF	
Œ		Č	Connector No	M424	8	a	NATS ANT AMP	130	TIPE DECK! IDE DECENTED COMM	
金寸		3		171 101	3 &	á ≥	NATS ANT AMP	140 GR	╀	
E.S.	2 1	5	Connector Name	BCM (BODY CONTROL MODULE)	8	œ	IGN RFI AY (F/R) CONT	H	SPCLIRI	
	3	Š	Connector Type	TH40FGY-NH	8	>	KEYLESS ENTRY RECEIVER COMM	F	L	
	3	ļĹ			87	R	COMBI SW INPUT 5	┞		
]	1	_		88	>	COMBI SW INPUT 3	144 G	COMBI SW OUTPUT 2	
		Ŧ	Ţ		6	۵	CAN-L	L	COMBI SW OUTPUT 3	
Terminal Color Of	4	1	į		9	_	CAN-H	146 SB		
No. Wire	Signal Name [Specification]			8 8 8 8 8	85	97	KEY SLOT ILL CONT	150 LG		
Α.	BAT (F/L)			88 88 87 86 88 81 80 S.2	93	>	QNI NO	151 G	REAR WIN	
Г	WER WINDOW POWER SUPPLY(BAT)				96	>	PUDDLE LAMP CONT	1	1	
3 Y POV	POWER WINDOW POWER SUPPLY(RAP)				98	BG	ACC RELAY CONT			
		Terr	erminal Color Of		98	t	ALT SHIFT SELECTOR POWER SUPPLY			
		Z	No. Wire	Signal Name [Specification]	66	Н	SHIFT P			
		e	34 SB	LUGGAGE ROOM ANT-	100	O	PASSENGER DOOR REQUEST SW			
		e.	H	LUGGAGE ROOM ANT+	101	gg	DRIVER DOOR REQUEST SW			
		3	38 B	BACK DOOR ANT-	102	BG	BLOWER FAN MOTOR RELAY CONT			
		e 	39 W	BACK DOOR ANT+	103	PI	KEYLESS ENTRY RECEIVER POWER SUPPLY			
		4	Н	IGN RELAY (IPDM E/R) CONT	107	FC	COMBI SW INPUT 1			
		2	Н	STARTER RELAY CONT	108	ч	COMBI SW INPUT 4			
		9	60 BR	PUSH SW	109	>	COMBI SW INPUT 2			

JRKWD1305GB

INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS AGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Α

В

С

D

Е

F

G

Н

,

SEC

L

M

Ν

 \cap

Ρ

SYSTEM			П			Ι							Ι		
INFINITI VEHICLE IMMOBILIZER SYSTEM	M137	A/T SHIFT SELECTOR	TH12FW-NH	1 1 2 8 1 2 8 1 1 1 1 1 1 1 1 1	Signal Name [Specification]			•		•	•	-		-	
	ē	r Name	r Type		Color Of Wire	3	>	٦	В	9	œ	SB	a	GR	æ
퇿	Connector No.	Connector Name	Connector Type	是 H.S.	Terminal Color Of No. Wire	-	2	3	4	2	7	8	6	10	11

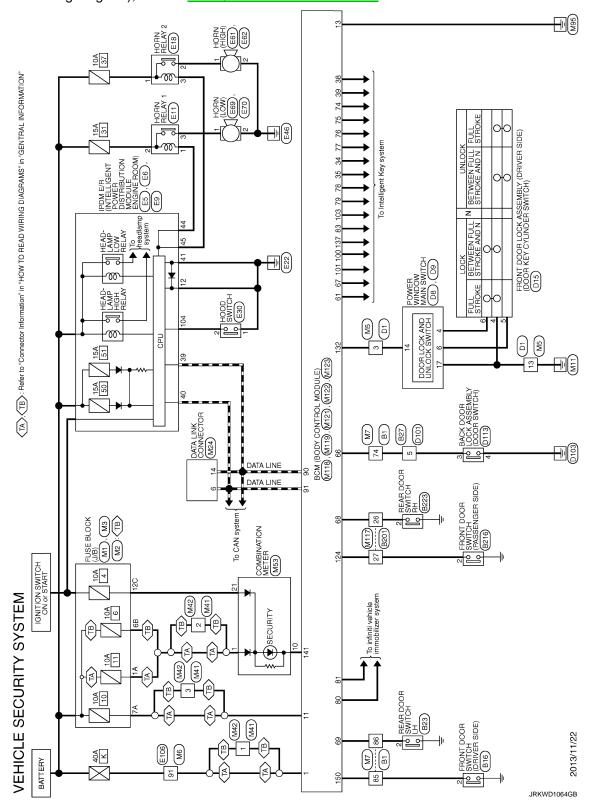
JRKWD1306GB

INFOID:0000000008284537

VEHICLE SECURITY SYSTEM

Wiring Diagram - VEHICLE SECURITY SYSTEM -

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



VEHICLE SECURITY SYSTEM

Α

В

С

D

Е

F

G

Н

SEC

L

 \mathbb{N}

Ν

0

VEHICLE SECURITY	SECURITY SYSTEM								
$\overline{}$	B1	09	۵.	-	Connector No. B16		Terminal	Color Of	Signal Name [Specification]
Connector Name M	WIRE TO WIRE	6 69	SHED		Connector Name FRO	FRONT DOOR SWITCH (DRIVER SIDE)	<u>Ş</u> -	a wie	
Connector Type T	TH80FW-CS16-TM4	63	ч		Connector Type A03FW	M=	- 2	. 0	1
4		64	9				8	В	
医		65	SHIELD		摩	K	4	SB .	
ElS.	0 s 8 8 9 8	2 6	>		H.S.	K	ი «		
l		89	88			Ţ¢			,
		69	SHIELD	-		7			
		20	Μ				Connector No.	or No. B201	01
. 0		۲ i	g .]	Connect	Connector Name WI	WIRE TO WIRE
lerminal Color Of	Signal Name [Specification]	75	٦ ///		No Wire	Signal Name [Specification]	Contractor Trace	_	THOOFIN COAS TMA
		2 8	8		>		00	1	
+		2 12	ś		. 7		1		
H		82	: 0				手		8 0 2 2 5 8
H		62	- B		Connector No B23		A.S.	7.	7 A A A A A A A A A A A A A A A A A A A
╀		83	Sg		L			ı	1 7 X
12 SB		85	>		Connector Name REA	K DOOK SWIICH LH			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
H		86	97		Connector Type A03FW	M-			
╀		87	>						
15		88	2		€	•	Terminal	Color Of	
╀		68			手		2	Wire	Signal Name [Specification]
H		06	P.S.		S. H	<u> </u>		Μ	
H		91	9			ľ	2	ď	1
Г		92	H			7	က	GR	,
21 SHIELD		93	9				4	BG	,
Г		94	SB]	7	ŊΠ	,
24 P		92	ŋ		Terminal Color Of	9	10	Α	
27 B		96	>		No. Wire	Signal Name [Specification]	15	SB	,
H		86	W		2 LG		16	^	
29 W	-	66	GR	•			17	BR	=
φ							56	H	
31 SHIELD					Connector No. B27		27	7	=
Н					Connector Name	HIM OT HIM	28	\	-
33 SB							59	>-	
\dashv					Connector Type M06	M06MW-LC	30	GR	
35 P					4		31	ď	
36 L					B		32	BR	
37 P							33	9	-
38 BR					Ä.	1 2 3	21	α	,
⊦						1	22	9	
× ×						4 5 6	92	0 00	
╀							57	3	
3							9	: 0	
+							8 6		
$^{+}$							60	STIELD	-
+							g	2	
20 v	-						61	Μ	

JRKWD1290GB

Signal Name Sportication Sportication Sportication Sportication Sportication	EHICLE	SECURITYSTOLEM	Connector No. Connector Name	<u>p</u>	B223 REAR DOOR SWITCH RH	21 20	≥ 0 ₽		Connector No. Connector Nar	Corrector No. D8 Corrector Name POWER WINDOW MAIN SWITCH
Terminal Color Of Signal Name [Specification] 22 0 V 25 0 C			Connector		O3FW	23 23	7 E		Connector Tw	
Familian Color Of Signat Name Specification Terminal Color Of Terminal Col	Д			1		24	>		1	1
Ferminal Color Of Signat Name (Specification) Signation Name (Specificatio	٦	-			Ē	25	GR	=	E	
Terminal Color Of Signal Name (Specification) 23 SHELD 22 SHELD 23 SHELD 24 C 24 C 24 C 25 SHELD 25 SHE	SHIELD	-	N E		K	56	>		E	֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟
Terminal Color Off Signal Name Steadhcalcol Steadhcalcol Signal Name Steadhcalcol Steadhc	>		5			27	В		į	o] ;
Terminal Color Of No. Signal Name [Steathcalor] Sign	>				C	28	SHIELD			9 10 11
Terminal Color Of Signal Name (Specification) 23	SB				<u> </u>	29	FG	-		
Terminal Color Of Signat Name (Specification) 23	W					30	9	-		
Terminal Code Of Signal Name Specification 32 1	Æ]	34	×			
No. Wive Signal kane Specification Signal kane Specifi	>		Terminal	Color Of	5	32	ŋ		Terminal Cold	
Corrector Name Corr	>		N	Wire	Signal Name [Specification]	33	_			
Corrector Name Corr	g		2	æ		8	g		-	- ^
Corrector Number Corrector N	PI					32	ď		H	
Connector Nume Connector Nume Signal Name (Specification) Connector Nume Connecto	۵					98	97		H	
Cornector Name WIRE TO WIRE Cornector Name WIRE TO WIRE Cornector Name WIRE TO WIRE Cornector Type HARGY-UCS1S	ď		Connector	ı	74	37	ď			
Corrector type H40PW-CS15	_				L COURT OF L	88	۵			-
Corrector Type TH40PW.CS15 40 BR 2 C C C C C C C C C C C C C C C C C C	BG	•	COLLECTO	2	VINE IO WINE	39	0		H	-
A	_		Connector	Г	H40FW-CS15	40	BR		7 E	
HS Common Color Of Common Color Of Common Color Of Common Color Of Color Color Of Color Colo	۵			1		4	_		8	
10 10 10 10 10 10 10 10	>		To the second			45	⊢			
11 C C C C C C C C C	œ		·			43	H	- [With automatic drive positioner]	L	
Terminal Color Of Eligibility Distribution Signal Name Specification Terminal Color Of Signal Name Specification Terminal Color Of Signal Name Specification Terminal Color Of Termi	œ		Ś		ę Q	43	H	- [Without automatic drive positioner]		
Terminal Color Off Signal Name Specification Terminal Color Off Terminal C	SB				80 80 80 80 80	44	⊦	- [Without automatic drive positioner]	H	-
Terminal Color Of Signal Name (Specification) As C Without automatic drive positioner) As C Without automatic drive positioner As C Without automatic	9					44	H	- [With automatic drive positioner]		- /
Terminal Coder Office Signal Name Specification No. Wire	9			,		45	9	- [Without automatic drive positioner]	L	
Terminal Codor Of Signal Name Specification As C NWith automatic drive positioned As C NWith automatic drive positioned Connector Name Specification As NY NY NY NY NY NY NY N	Я	-				45	٨	- [With automatic drive positioner]		
No. Wife Compositioned No. Wife Wife Compositioned No. Wife Wife	Ь		Terminal	Color Of	Signal Namo [Socotfication]	46	9	 [With automatic drive positioner] 		
1 R 49 GR Corrector Name PowErn	٦	•	ġ.	Wire	orginal realine [obsculloation]	46	>	- [Without automatic drive positioner]	Connector No	
Signal Name [Specification] 15			-	œ		49	8		Connector Na	POWER WINDOW MAIN SWITCH
Signal Name [Specification] 15	١		2	В		20	В			
No. No.	١	B216	3	>		25	œ		Connector Ty	
Signal Name [Specification] 15			4	*	-	93	SB	_	4	
Comparison	- Agrico		9	L	-	54	0	-	E	
7 GR 10 ER 11 Emire Cobor Of 10 EM 11 Emire Cobor Of 11 Emire Cobor Of 12 LG 13 Emire Cobor Of 14 Y 14 Y 15 W 15 W 16 Emire 17 W 18	or Type	A03FW	9	0		22	>		Į	[[
Signal Name [Specification] 17 W 19 W	١,		7	GR					Ž E	<u></u>
9 0 Terminal Coor Of 11 P No. Whee 12 W No. Whee 13 W 15 W		E	80	Μ						24
10 BR		K	6	0						2
11 P	Ġ		10	BR						
Lange Lang		ľ	1	۵	1					
13		7	12	<u>c</u>	1				Terminal Col	L
14 Y 17 17 18 19 19 19 19 19 19 19			ç	٥					N N	
Signal Name [Specification] 16]	2 7	4					+	
Signal Name [Specification] 15 W	. 0		†	- 3					+	
16			15	8					4	
+	wlle		16	Υ :						
+	-		,	≥ (
			0 9	; و						

JRKWD1291GB

Corrector No. E11 Corrector Name HORN RELAY 1 Corrector Type Relay 24381_7390A	H.S.	Terminal Color Of Signal Name (Specification) No. Wire 1 pp	2 LG		Connector No. E18	Connector Name HORN RELAY 2 Connector Type M03FW-R-LC		Sign of the second seco	23	Terminal Color Of Signal Name [Specification] No. Wire 1 RR	2 Y								
Corrector No. E6 Corrector Name Brank Environment Dermannon woodle Corrector Name Brank Econol. Corrector Type TH90FW-NH	H.S. (4) 44(3) 44(4) 44(3) 44(4) 44(Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification]	╫	+	H	-		Connector Name Engine Room)		97 92 94	Terminal Color Of	No. Wire Signal Name [Specification]	F	y 76	104 LG :				
Corrector No. D113 Corrector Name BACK DOOR LOCK ASSEMBLY Corrector Type NS04FW.CS	H.S. 4321	Terminal Color Of Signal Name (Specification) No. Wire	3 S S	4 B	Connector No F5	Э	Connector Type TH20FW-CS12-M4-1V			Terminal Color Of Signal Name (Specification)	5 L	7 R -	+	Н	18 W	H	27 BG .	H	36 6 -
VEHICLE SECURITY SYSTEM Cornector No. D15 Cornector Name Frowt DOORLOCK/SSEMELY(DRIVERSDE) Cornector Type E08FGY-RS	H.S. (121341516)	Terminal Color Of Signal Name (Specification) No. Wire	3 L C	5 ×	Н	Connector No. D101	Connector Name WIRE TO WIRE	Connector Type M06FW-LC	H.S.	654	Terminal Color Of Signal Name [Specification] No.	₩ C C	+	Н	> a	┨			

SEC

Α

В

С

D

Е

F

G

Н

L

M

Ν

0

JRKWD1292GB

3 BR -	┝	╀		+	7 BR .	H	H	SB	╀	Н	7	7 SHELD .	5	H		+	1 BR - [With ICC]	-	9	W	W	Y - [Without ICC]	1 a	BR	7	_	SB - (With ICC)	H	+	B BG	+	-	H	- GR	S			> -	+
43	45	49	20	25 25	57	9	61	62	8 8	65	99	69	8	20	71	2 4	74	74	75	75	76	76	1	78	78	79	8 8	81	85	8 3	, S	8 8	87	88	06	91	95	93	g 5
E106		WIRE TO WIRE	TH80FW-CS16-TM4			- v 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	h 0 0			Signal Name [Specification]	T.			1										1		ı							1		1				
Connector No.	Т	Connector Name	Connector Type		S. S.	i			nal Color Of	_	+	≥ 0	Ŧ	H	H	æ 8	+	╀	H	ď	Ь	> 8	+	Ë	Н	+	.p a	>	+	≥ <	Ŧ	ł	H	╀	H	SHIELD	Н	8 S	+
Š	L	J O	Con	1	F	ļ			Terminal	-Ö		2 0	0 4	2	8	0 5	7	12	13	14	15	16	18	20	21	22	23	25	56	27	8 2	8	33	8	35	36	37	88 8	SS.
3	Signal Name [Specification]				U	¥-		[П	_]			Signal Name [Specification]										2]]			Signal Name (Specification)											
Terminal Color Of		╁		Connector No E69	ше	Connector Type P01FB-BR-A	ģ	唐	H.S.				Terminal Color Of	Wire	1 B		Connector No. 1570	_	Connector Name HORN (LOW)	Connector Type P01FB-A	ą	B	H.S.				Terminal Color Of		2 B										

JRKWD1293GB

VEHICLE SECURITY SYSTEM

00 1 D	CD 1/4 V. CD 1/4	- 12	14 Y - Connector Lybe	M3	- 16 R	FUSE BLOCK (J/B)		NS12FW-CS	7 0		20 L	21 16]	+		25 GR - 1 W	2 R	Color Of	Wire Signal Name [Specification] 28 CHIELD		29 Y 29 J	11C R - 8 Y -	12C BG - 31 R - 9 BR -	6	017	23 28	9C BG 34 Y 12 BG	35 P - 13 L	14	C1 20 10 10 10 10 10 10 10 10 10 10 10 10 10	WIDE TO WIDE - 16 16		- 18 V	47 R	77	44 V	STATE STAT	A6 SB - [With automatic drive positioner] 25 Y	V - [Without automatic drive positioner]	727	Signal Name (Specification)	Wire	11 R 32 G	(1)	33 46 59	3 BR - 55 SB - 34 W -	35 R	- UT3HIN 98	75			- 30	80°	+
				3		SE BLOCK (J/B)		12FW-CS					_ []	70 90 100	1				Signal Name [Specificat			1					•				DE TO WIDE		40MW-CS15		2 3 4 5 6 7 8 9 13 11 1		R I I	2			Signal Name [Specificat						1			J.	r	-		
-	8 8	┨	ſ	Connector No. M3		Connector Name FU	1	Connector Type NS	 	4	THE PARTY OF THE P	Į	ý.						Terminal Color Of	Wire	+	4	11C R	12C BG	L	+	+	ac BG		-14	1	Connector Name		Connector Type TH	1	v E		p.	_	J	T	Ţ.	No. Wire		ł	+	+		2	ŀ	ł		8 W		L
VEHICLE SECURITY SYSTEM	٠					PA 44	COLLEGED INC.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Connector Name FUSE BLOCK (J/B)	010000000	Connector Type NS06FW-M2				3A T 3A 1A		0 7 A 6 4 5 A				×	Signal Name [Specification]	Wire	GR -		0 -		P - [For push button]	R - [For key slot]	-		R -	1		Connector No M2	Connector Name FUSE BLOCK (J/B)		Connector Type NS10FW-CS				4838	Ľ	86 89 74 88 8				Terminal Color Of	ire Signal Name [Specification]			. 9	BG -		

SEC

Α

В

С

D

Е

F

G

Н

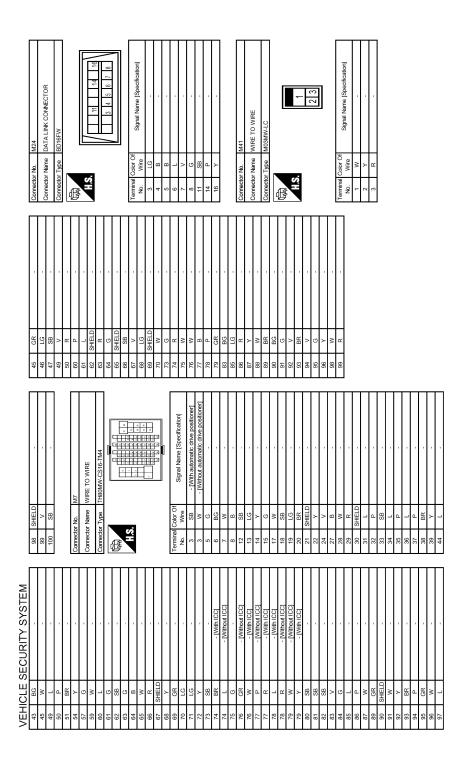
L

 \mathbb{N}

Ν

0

JRKWD1294GB



JRKWD1295GB

VEHICLE SECURITY SYSTEM							
Connector No. M42	28	W BRAKE FLUID LEVEL SWITCH SIGNAL	61	97	-	Connector No. M118	
Connector Name WIRE TO WIRE	59	SB SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	62	BR		Connector Name BCM (BODY CONTROL MODULE)	
	30	G SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)	63	7		┪	
Connector Type M03FW-LC	31	-	64	PI		Connector Type M03FB-LC	
ý	33		65	В		ģ	
	36		99	œ		[[]	
Ī	37	SB ENTER SWITCH SIGNAL	67	×		F	
2	38	L TRIP A/B RESET SWITCH SIGNAL	89	SHIELD	-	2 1	
	39	P ILLUMINATION CONTROL SWITCH SIGNAL (-)	69	۸			
3.2	40	BG ILLUMINATION CONTROL SWITCH SIGNAL (+)	20	٨	1	3	
			7.1	SB			
			72	Μ	,		
Terminal Color Of	Connector No.	o. M117	73	9		Terminal Color Of	_
No. Wire Signal Name [Specification]			22	Μ		No. Wire Signal Name [Specification]	
	Connector Name	ame WIKE 10 WIKE	8	>	,	1 W BAT (F/L)	
2	Connector Type	voe TH80MW-CS16-TM4	80	SB		2 W POWER WINDOW POWER SUPPLY/BAT	
0.00			83	>	,	>	
	Œ		8	. а			
	華	8 S S S S S S S S S S S S S S S S S S S	3 2	. п	,		
Connector No M53	S S		5 4	-		Connector No M119	
T			3 8	ے د		T	
Connector Name COMBINATION METER		8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 8	S -	,	Connector Name BCM (BODY CONTROL MODULE)	
		6	ò	-			
Connector Type TH40FW-NH			88	а.		Connector Type NS16FW-CS	
¢			91	>		¢	
	ā	Color Of Signal Nama (Specification)	95	9	-		
	ġ	Wire Ognal Name [Specification]	94	9	1		
	-		98	M		4 5 7 6 8 9 10	
3 5 6 7 99 15	2	9	96	9		07 07 27 27 77 77	
71 22 24 25 26 27 28 29 39 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 38 39 44 39 39 44 39 39 44 39 39 44 39 39 44 39 39 44 39 39 44 39 39 39 44 39 39 39 39 39 39 39 39 39 39 39 39 39	e	GR	26	>-		01 14 13 17 10	
	4	- as	86	BR			
		- M	8	á	- DWithout BOSE audiol		
Torminal Color Of	. ç		8 8	- >	DWith BOSE andial	Torminal Color Of	
No Mire Signal Name [Specification]	2 4		8 5		- [VIIII BOOK audio]		
t	2 9		9 9	J 6	- [without Book and o]	2	
┰	₽ !	> 6	9	g	- [with BOSE audio]	၅ .	
+	-	-				5 L PASSENGER DOOR UNLOCK OUTPUT	
GR	56	BR -				>	
m	27	- 91				1	
6 P ALTERNATOR SIGNAL	28	Υ .				9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	
7 BR AIR BAG SIGNAL	59	,				10 BR REAR DOOR UNLOCK OUTPUT	
10 G SECURITY SIGNAL	30	- ^				11 R BAT (FUSE)	
B GROI	31					-	
B METER CONTROL 8	32	BB				H	
ď	£					>	
2 0	8					NO.	
+	0 1	× .				× 0	
BG	99					598	
B GROI	26					19 V INT ROOM LAMP CONT	
BR	22						
Y COMMUNICATION S	┪	9					
R VEHICLE SPEED S		SHIELD -					
V PARKING BRAKE:	09	· ·					

SEC

Α

В

С

D

Е

F

G

Н

M

Ν

0

JRKWD1296GB

		VEHICLE SECURITY SYSTEM						
Connector No.	- 1	M121	80	GR	NATS ANT AMP.	139	_	TIRE PRESSURE RECEIVER COMM
Connector Name	ar Name	BOM (BODY CONTROL MODILLE)	81	Λ	NATS ANT AMP.	140	GR	SHIFT NP
OO BECCO	i kalila		82	ď	IGN RELAY (F/B) CONT	141	9	SECURITY IND LAMP CONT
Connector Type	r Type	TH40FGY-NH	83	Υ	KEYLESS ENTRY RECEIVER COMM	142	BG	COMBI SW OUTPUT 5
			87	BR	COMBI SW INPUT 5	143	۵	COMBI SW OUTPUT 1
			88	>	COMBI SW INPUT 3	144	O	COMBI SW OUTPUT 2
			06	۵	CAN-L	145	1	COMBI SW OUTPUT 3
S			91	_	CANH	146	gg	COMBI SW OUTPUT 4
		47 8 8 8 3 3 4 4	95	PIC	KEY SLOT ILL CONT	150	97	DRIVER DOOR SW
	_	89 86 67 86 66 94 61 80 80 52	83	>	QNINO	151	G	REAR WINDOW DEFOGGER RELAY CONT
			94	>	PUDDLE LAMP CONT			
			95	BG	ACC RELAY CONT			
erminal	Terminal Color Of	Ĺ	96	GR	A/T SHIFT SELECTOR POWER SUPPLY			
ō.	Wire	Signal Name [Specification]	66	œ	SHIFT P			
34	SB	LUGGAGE ROOM ANT-	100	9	PASSENGER DOOR REQUEST SW			
35	^	LUGGAGE ROOM ANT+	101	SB	DRIVER DOOR REQUEST SW			
38	В	BACK DOOR ANT-	102	BG	BLOWER FAN MOTOR RELAY CONT			
39	×	BACK DOOR ANT+	103	Pl	KEYLESS ENTRY RECEIVER POWER SUPPLY			
47	>	IGN RELAY (IPDM E/R) CONT	107	97	COMBI SW INPUT 1			
52	SB	STARTER RELAY CONT	108	٣	COMBI SW INPUT 4			
60	BR	PUSHSW	109	>	COMBI SW INPUT 2			
61	W	BACK DOOR OPENER REQUEST SW	110	9	HAZARD SW			
64	۸	I-KEY WARN BUZZER (ENG ROOM)						
92	BG	REAR WIPER STOP POSITION						
99	Я	BACK DOOR SW	Connector No.	or No.	M123			
29	GR	BACK DOOR OPENER SW		Comments of the comments	I III COM TOUR TOUR ACCOUNTS			
68	BR	REAR RH DOOR SW	COLLEGE	alle i				
69	ď	REAR LH DOOR SW	Connector Type	or Type	TH40FG-NH			
			ą					
1	П		新					
Connector No.		M122	ŧ					
onnecto	Connector Name	BCM (BODY CONTROL MODULE)		•	20 ES			
Connector Type	r Type	TH40FB-NH			13 EO 16 EC 14 EC 14 EC 14 EC 15 EC 15 EC 15 EC 15 EC			
1								
SH			Terminal	Ferminal Color Of	Signal Name [Specification]			
		88 88 88 88 88 88 88 88 88 88 88 88 88	113	۵	OPLICAL SENSOR			
		10 N	116	SS	STOP LAMP SW 1			
			118	۵	STOP LAMP SW 2			
			119	gg	DR DOOR UNLOCK SENSOR			
erminal	Terminal Color Of		121	H	KEY SLOT SW			
9	Wire	ognar Name [opecinication]	123	Λ	IGN F/B			
74	SB	PASSENGER DOOR ANT-	124	PT	PASSENGER DOOR SW			
75	GR	PASSENGER DOOR ANT+	132	BR	POWER WINDOW SW COMM			
9/	^	DRIVER DOOR ANT-	133	Μ	PUSH-BUTTON IGNITION SW ILL POWER			
77	PT	DRIVER DOOR ANT+	134	GR	LOCK IND			
78	>	ROOM ANT1-	137	BG	RECEIVER/SENSOR GND			
6/	BR	ROOM ANT1+	138	>	RECEIVER/SENSOR POWER SUPPLY			

JRKWD1297GB

ECU DIAGNOSIS INFORMATION

BCM

Reference Value

INFOID:0000000008776156

Α

D

Е

F

Н

J

SEC

M

Ν

0

Р

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	MON	ITOR	ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
IN WIFEIN III	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
FR WIFER 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 IN I	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
FR WIFER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
KK WIPEK ON	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
KK WIPEK INT	Rear wiper switch INT	On
DD WACHED CW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
TORN SIGNAL L	Turn signal switch LH	On
TAIL LAMP CVV	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
HEAD LAIMP SW 1	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
I ILAD LAWIF SW Z	Lighting switch 2ND	On
DASSING SW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LICUT CM	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On

Monitor Item	Condition	Value/Status
FR FOG SW	Front fog lamp switch OFF	Off
-K FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
2000 014/00	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
2007 014/ 40	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
2000 000 00	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD CW DI	Rear LH door closed	Off
OOOR SW-RL	Rear LH door opened	On
2000 014 014	Back door closed	Off
DOOR SW-BK	Back door opened	On
	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
(E) (O) (1 1 1 (O) M	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
(E) (O) (1 LINL O) (1	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
LAZADD OM	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
FD/DD ODEN CW	Back door opener switch OFF	Off
FR/BD OPEN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the key is not pressed	Off
RNE-LOCK	LOCK button of the key is pressed	On
DKE TINI OCK	UNLOCK button of the key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
DIVE DANIC	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	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
REQ SW -AS	Passenger door request switch is not pressed	Off
NEQ 3W -A3	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
DEO SW -DD/TD	Back door request switch is not pressed	Off
REQ SW -BD/TR	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
OGI I GVV	Push-button ignition switch (push switch) is pressed	On
GN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
DRAKE SW 2	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
DETE/CAINCL SW	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
SI I FIN/IN SVV	Selector lever in P or N position	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
UNLK SEN -DR	Driver door is unlocked	Off
JNLK SEN -DK	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
OOI I OVV -IFDIVI	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
ION INCLUIATIO	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
DETE OVV II DIVI	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
S I IT II DIVI	Selector lever in P or N position	On

Monitor Item	Condition	Value/Status
CET D. MET	Selector lever in any position other than P	Off
SFT P -MET	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
ENGINE STATE	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 speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK 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 FNO OTDT	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
VEV 0W 01 0T	The key is not inserted into key slot	Off
KEY SW -SLOT	The key is inserted into key slot	On
RKE OPE COUN1	During the operation of the key	Operation frequency of the key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
OONEDWID	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIDM ID 4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done
CONFIDM ID2	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done

BCM

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet
CON INWIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done
TP 4	The ID of fourth key is not registered to BCM	Yet
17 4	The ID of fourth key is registered to BCM	Done
TP 3	The ID of third key is not registered to BCM	Yet
IF 3	The ID of third key is registered to BCM	Done
TP 2	The ID of second key is not registered to BCM	Yet
IF Z	The ID of second key is registered to BCM	Done
TP 1	The ID of first key is not registered to BCM	Yet
IFI	The ID of first key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGGI FLI	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI FRI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGGI KKI	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DL 1	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
VVAINING LAWIF	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLEN	Tire pressure warning alarm is sounding	On

0

Ν

Α

В

С

D

Е

F

G

Н

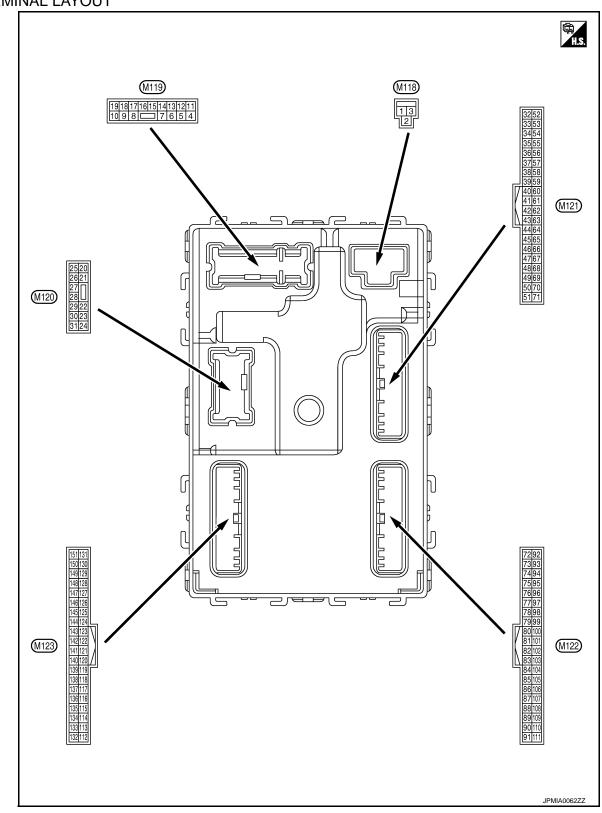
J

SEC

L

 \mathbb{N}

TERMINAL LAYOUT



PHYSICAL VALUES

Torm	inal No.	Description					Δ
	e color)	Description	Input/		Condition	Value	А
+	_	Signal name	Output			(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	В
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage	С
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON	1	Battery voltage	
					battery saver is activated. com lamp power supply)	0 V	D
4 (LG)	Ground	Interior room lamp power supply	Output	ed.	battery saver is not activator room lamp power supply)	Battery voltage	Е
5	Ground	Passenger door UN-	Output	Passanger door	UNLOCK (Actuator is activated)	Battery voltage	F
(L)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V	F
7	Ground	Step lamp	Output	Step lamp	ON	0 V	G
(Y)	Giodila	Зієр іапір	Output	Step lamp	OFF	Battery voltage	0
8	Ground	All doors, fuel lid	Output	All doors	LOCK (Actuator is activated)	Battery voltage	Н
(V)	Giodila	LOCK	Output	All doors	Other than LOCK (Actuator is not activated)	0 V	
9	Ground	Driver door, fuel lid	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage	I
(G)	Giodila	UNLOCK	Output	Driver door	Other than UNLOCK (Actuator is not activated)	0 V	J
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door	UNLOCK (Actuator is activated)	Battery voltage	
(BR)	Giodila	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V	SEC
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
13 (B)	Ground	Ground	-	Ignition switch ON	l	0 V	_
					OFF	0 V	M
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10	N
						0 2 ms JSNIA0010GB	O P
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF or ON	Battery voltage	
(Y)	2.34.14		Carpat	-g	ACC	0 V	1

	inal No. e color)	Description			O a little a	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(V)		control		lamp	ON Turn signal switch OFF	0 V 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	Crownd	Dools door open	Output	Back door	OPEN (Back door opener actuator is activated)	Battery voltage
(G)	Ground	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
26	Graves	Poor winer	Outerist	Poor winer	OFF (Stopped)	0 V
(G)	Ground	Rear wiper	Output	Rear wiper	ON (Operated)	Battery voltage

	inal No. e color)	Description			O It's	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
34	Ground	the passe ment Luggage room antenna (-) Output Ignition switch OFF When Inter	m anten- Output	Output Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0062GB
(SB)	Glound				Oll	When Intelligent Key is not in the passenger compartment
35 (V) Ground		Luggage room antenna (+)		tput Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 1
38		Back door antenna (–		When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 1
(B)	Ground	Ground)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

Signal name		ninal No. e color)	Description			O and distant	Value	
Arrow Ground Back door antenna Arrow Ground			Signal name	Input/ Output		Condition	(Approx.)	
Compared with ignition switch OFF When Intelligent Key is not in the antenna detection area Compared with ignition switch OFF When Intelligent Key is not in the antenna detection area Compared with ignition switch Compared with ignition switc		Ground	Back door antenna	Qutput			15 10 5 0	
Ground E/R) control Cutput Ignition switch ON	(W)	Glound	(+)	Output	operated with ig-	in the antenna detection	15 10 5 0	
Concept Control Concept Control Concept Conc	47	Cround	Ignition relay (IPDM	Output	Ignition quitab	OFF or ACC	Battery voltage	
Same of the process	(Y)	Ground	E/R) control	Output	ignition switch	ON	0 V	
Ground (BR)	52	Ground	Startor rolay control	Output	Ignition switch		Battery voltage	
Ground (BR) Ground (Push switch) Input tion switch (push switch) Not pressed Battery voltage ON (Pressed) 0 V Back door opener request switch (Push switch) OFF (Not pressed) 0 V Ground (W) Ground (V) Intelligent Key warning buzzer (Engine room) Not sounding Battery voltage Ground (V) Rear wiper stop position Input tion switch (push switch) Not pressed (Push switch) OV Not pressed Battery voltage ON (Pressed) 0 V Sounding 0 V Not sounding Battery voltage In stop position Input (V) Intelligent Key warning buzzer (Engine room) Not sounding Battery voltage	(SB)	Ground	Starter relay control	Output	ON		0 V	
Second Second Switch (Push switch) Sw	60	0	Push-button ignition	1		Pressed	0 V	
Ground (W) Ground Back door opener request switch (W) Back door opener request switch (V) 15 10 10 ms JPMIA0016GB 1.0 V Ground (V) Ground ing buzzer (Engine room) (Engine room) Not sounding Battery voltage Ground Rear wiper stop position Input Rear wiper Instep position (V) 15 10 ms JPMIA0016GB 1.0 V		Ground		Input		-		
Ground Ground Back door opener request switch Input Back door opener request switch OFF (Not pressed) Ground Ground Ground Intelligent Key warning buzzer (Engine room) Ground Rear wiper stop position Ground Rear wiper stop position Ground Rear wiper stop position Input Rear wiper						ON (Pressed)	0 V	
Ground ing buzzer (Engine room) Output warning buzzer (Engine room) Not sounding Battery voltage Input Rear wiper In stop position Output warning buzzer (Engine room) Input Rear wiper In stop position Output warning buzzer (Engine room) Input Rear wiper In stop position JPMIA0016GB 1.0 V		Ground		Input		OFF (Not pressed)	15 10 5 0 10 ms JPMIA0016GB	
(V) Ground ing buzzer (Engine room) Output warning buzzer (Engine room) Not sounding Battery voltage Rear wiper stop position Rear wiper In stop position JPMIA0016GB 1.0 V	64		Intelligent Key warn-			Sounding	0 V	
Ground Rear wiper stop position Rear wiper stop position Input Rear wiper In stop position In stop position JPMIA0016GB 1.0 V		Ground	ing buzzer (Engine	Output		Not sounding	Battery voltage	
		Ground		Input	Rear wiper	In stop position	10 5 0 10 ms JPMIA0016GB	
						Martin atau 200		

BCM

[WITH INTELLIGENT KEY SYSTEM]

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
					Pressed	0 V
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V

SEC

Α

В

С

D

Е

F

G

Н

M

Ν

0

	inal No. e color)	Description		Condition		Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
74		Passenger door an-		When the pas- senger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S S S S S S S S S	
(SB)	Ground	tenna (–)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
75		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(GR)	Ground	tenna (+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB	
76	Ground	Ground Driver door antenna (-)		When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s	
(8)			Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 1	

	ninal No. e color)	Description		O to Pitto		Value	
+	-	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 operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
78 (Y) Gro	Crown	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
79	Ground	Room antenna 1 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(BR)		(Instrument panel)	Carpat	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

BCM

Terminal No. (Wire color)		Description				Value	
+	e color)	Signal name	Input/ Output	Condition		(Approx.)	
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the 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 key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
82	Ground	Ignition relay [Fuse	Output	Lauritian accitate	OFF or ACC	0 V	
(R)	Ground	block (J/B)] control	Output	Ignition switch	ON	Battery voltage	
83	Ground	Remote keyless entry receiver communica-	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(1)	tion		When operating e	ither button on the key	(V) 15 10 5 1 ms JMKIA0065GB		

BCM

[WITH INTELLIGENT KEY SYSTEM]

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0041GB 1.4 V	
87					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
(BR)					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 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	

SEC

Α

В

С

D

Е

F

G

Н

M

Ν

0

	inal No.	Description				Value	
(VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
			•		All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 0 2 ms JPMIA0037GB	
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 0 2 ms JPMIA0039GB 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 0 2 ms JPMIA0040GB	
90 (P)	Ground	CAN-L	Input/ Output	_		_	
91 (L)	Ground	CAN-H	Input/ Output	_		_	

<u> </u>		IOSIS INFORMAT				EEEIGENT RET GTGTEIN]
	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
					OFF	Battery voltage
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 1 1 1 1 1 1 1 1 1 1
					ON	0 V
93			_		OFF or ACC	Battery voltage
(V)	Ground	ON indicator lamp	Output	Ignition switch	ON	0 V
94	0	Doddle less control	0	Decidally 15 co	OFF	Battery voltage
(Y)	Ground	Puddle lamp control	Output	Puddle lamp	ON	0 V
95	Crownsi	ACC rolov control	Outerist	Ignition contab	OFF	0 V
(BG)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	Battery voltage
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	_		Battery voltage
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V
(R)	Giodila	tion switch	input	Selector level	P position Any position other than P ON (Pressed)	Battery voltage
					* *	0 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (Pressed)	0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 JPMIA0016GB 1.0 V
102		Blower fan motor re-			OFF or ACC	1.0 V
(BG)	Ground	lay control	Output	Ignition switch	ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	
107 (LG)	Ground	Ground Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	

Revision: 2013 December

[WITH INTELLIGENT KEY SYSTEM]

Termina		Description				Volum
(Wire o	color)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	1.3 V (V) 15 10 5 0 JPMIA0036GB 1.3 V
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 2 ms JPMIA0039GB 1.3 V

2013 EX

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 10 ms JPMIA0012GB

BCM

	inal No.	Description				Value	A
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	1
113	Cravad	Ontical concer	loout	Ignition switch	When bright outside of the vehicle	Close to 5 V	[
(P)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V	
116 (SB)	Ground	Stop lamp switch 1	Input	_		Battery voltage	(
		Stop lamp switch 2		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V	
118	Ground	(Without ICC)	Input	Stop lamp switch	ON (Brake pedal is depressed)	Battery voltage	
(P)	Ground	Stop lamp switch 2	liput		OFF (Brake pedal is not de- brake hold relay OFF	0 V	E
		(With ICC)			ON (Brake pedal is de- rake hold relay ON	Battery voltage	F
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 10 ms JPMIA0012GB	G
					UNLOCK status (Unlock switch sensor ON)	1.1 V 0 V	
121	0	Kan alat andtak	lament	When the key is in	nserted into key slot	Battery voltage	
(BR)	Ground	Key slot switch	Input	When the key is no	ot inserted into key slot	0 V	,
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V 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)	11.8 V 0 V	1
132 (BR)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms	(
				Ignition switch OF	E or ACC	10.2 V	
				ignition switch OF	I UI ACC	Battery voltage	

Signal name Output Cutput Output Outp		inal No. e color)	Description			Condition	Value
Second Push-button ignition Output Push-button ignition switch illumination Output Push-button ignition switch illumination Output On (Tail lamps ON) On (Tail		-	Signal name	Input/ Output		Condition	(Approx.)
133 Ground Push-button ignition witch illumination Output Push-button ignition switch illumination Output Indiana Output One						ON (Tail lamps OFF)	NOTE: The pulse width of this wave is varied by the illumination bright-
134 (GR) Ground LOCK indicator lamp (Output lamp) COK indicator lamp (ON OV ON OV ON OV ON OV ON OV ON ON OV ON ON OV ON ON OV ON ON ON OV ON		Ground		Output	tion switch illumi-		(V) 15 10 5 0 JPMIA0159GB
Company Comp							
137 Ground Receiver and sensor ground Input Ignition switch ON OV		Ground	LOCK indicator lamp	Output			
Ground Power supply Output Ignition switch ACC or ON 5.0 V Standby state Standby state Ground Tire pressure receiver communication Output ON Unput ON	137	Ground		Input			
ACC or ON ACC or ON Standby state Standby state Tire pressure receiver communication (L) Ground GR) Ground GR GR Ground GR Ground GR GR Ground GR GR Ground GR GR GR GR GR GR GR GR GR G		Ground		Output	lanition switch		
Ground (L) Ground Ground (R) Ground Ground (GR) Ground Ground Ground (GR) Ground Ground Ground (GR) Ground Ground Ground (GR) Ground Ground Ground Ground (GR) Ground Ground Ground Ground Ground (GR) Ground Groun	(Y)	0.00	power supply	- Canpan		ACC or ON	5.0 V
When receiving the signal from the transmitter When receiving the signal from the transmitter P or N position Battery voltage Except P and N positions ON ON ON ON ON ON ON ON ON O		Ground				Standby state	6 4 2 0
Ground Ground Position Input Selector lever Except P and N positions 0 V ON 0 V Ground Ground Security indicator Output Security indicator Blinking Output Selector lever Except P and N positions 0 V ON 10 V Applicator Security indicator Dutput Security indicator Blinking 11.3 V	(L)	Glodina	er communication	Output	ON		6 4 2 0
GR) position Except P and N positions 0 V ON 0 V 141 (G) Ground Security indicator Output Security indicator Blinking Description Security indicator Security indicator Blinking 11.3 V		Ground		Input	Selector lever	-	Battery voltage
Ground Security indicator Output Security indicator Blinking Output Security indicator Blinking Output Security indicator Blinking Output O	(GR)		position			· ·	
Ground Security indicator Output Security indicator Blinking 10 5 0 10 10 11 11 11 11 11 11 11 11 11 11 1						ON	0 V
		Ground	Security indicator	Output	Security indicator	Blinking	10 5 0 1 s JPMIA0014GB
Sattory voltage						OFF	Battery voltage

[WITH INTELLIGENT KEY SYSTEM]

Р

	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	0 V
					Lighting switch 1ST	0.0
				Combination	Lighting switch HI	(V) 15
142 (BG)	Ground	Combination switch OUTPUT 5	Output	switch (Wiper intermit- tent dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms JPMIA0031GB
					All switches OFF	10.7 V
					(Wiper intermittent dial 4)	
					Front wiper switch HI (Wiper intermittent dial 4)	
143	Ground	Combination switch	Output	Combination	Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5
(P)	Giodila	OUTPUT 1	Output	switch	Any of the conditions below with all switches OFF	5
					Wiper intermittent dial 1	
					 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7 	
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
444		Oznakia atian amitak		O a mala ima ati a m	Rear wiper switch ON (Wiper intermittent dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Rear washer switch ON (Wiper intermittent dial 4)	10 5 0
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V) 15
145 (L)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms
						JPMIA0034GB 10.7 V

BCM

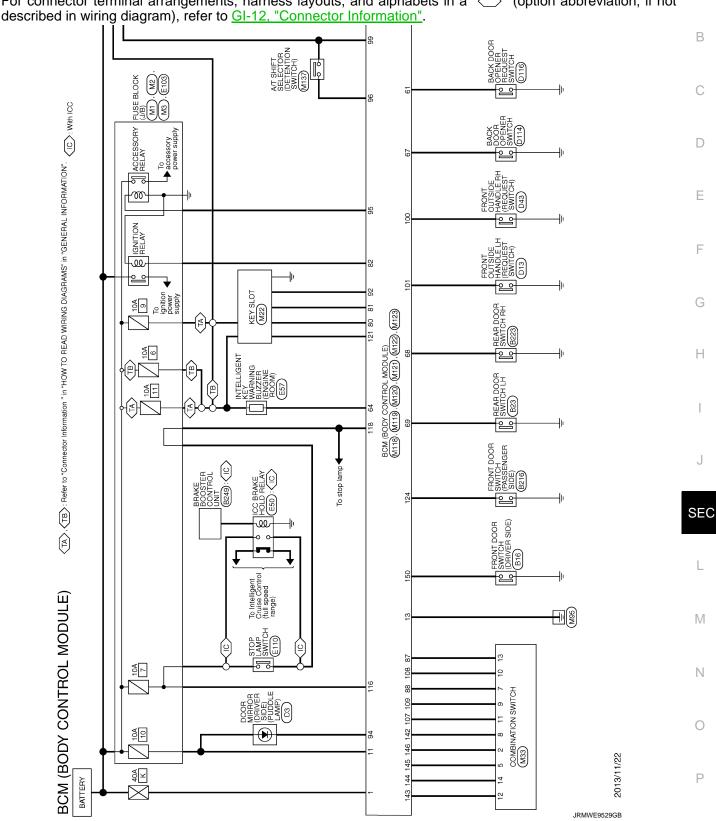
	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	0 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V)
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(SB)	0.00.110	OUTPUT 4	o a i p a i	(Wiper intermit- tent dial 4)	Turn signal switch LH	0 JPMIA0035GB 10.7 V
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V
(G)	Ground	ger relay control	Output	fogger	Not activated	Battery voltage

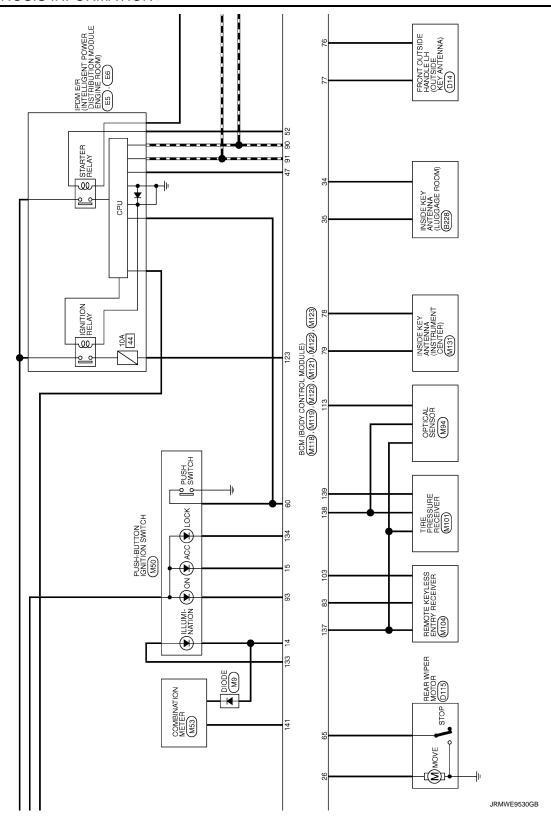
INFOID:0000000008776157

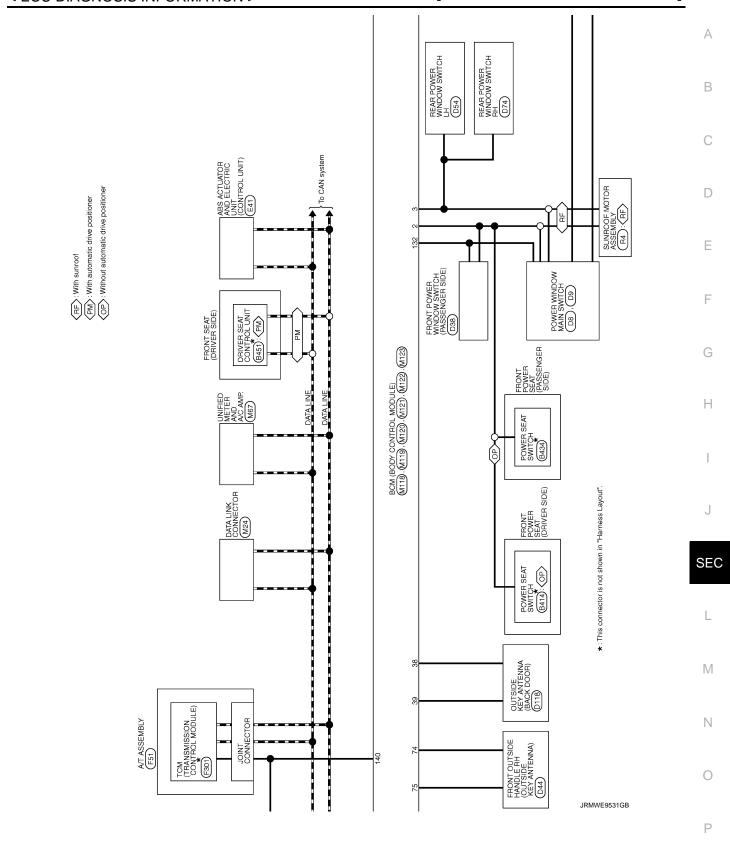
Α

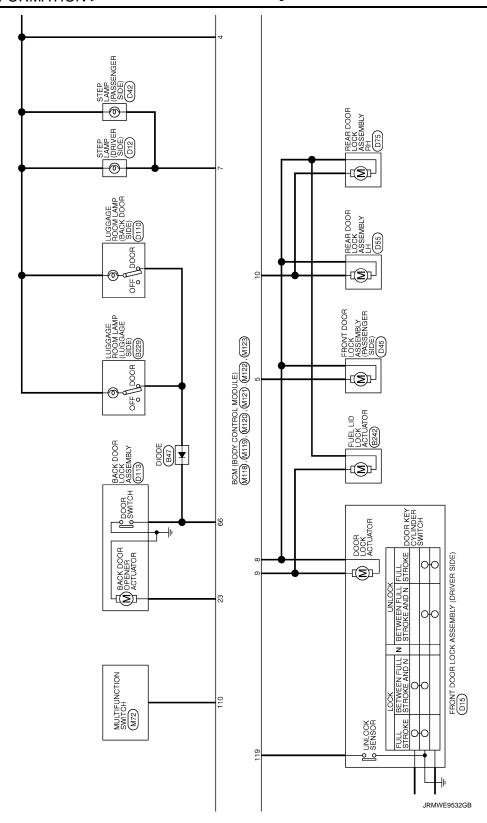
Wiring Diagram - BCM -

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not

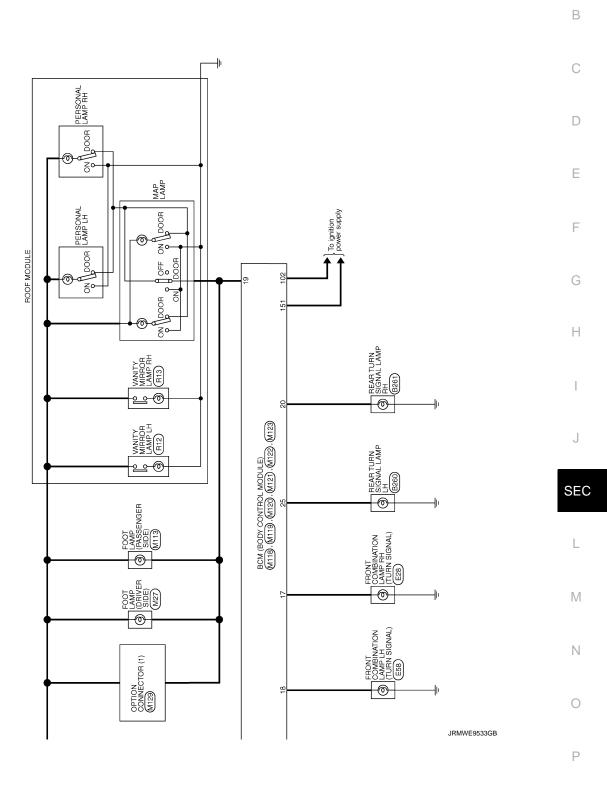


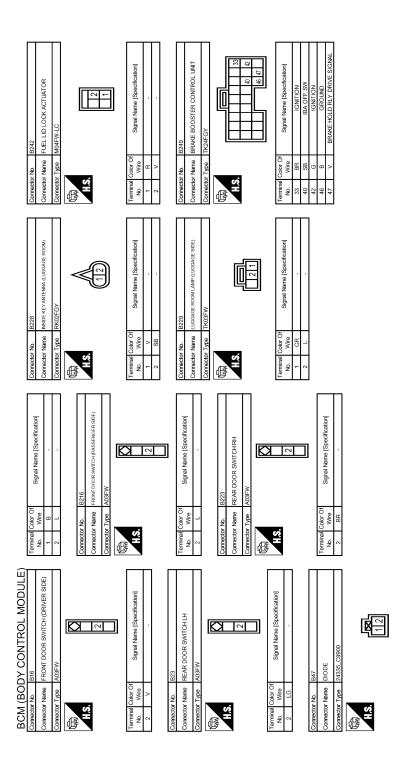






Α





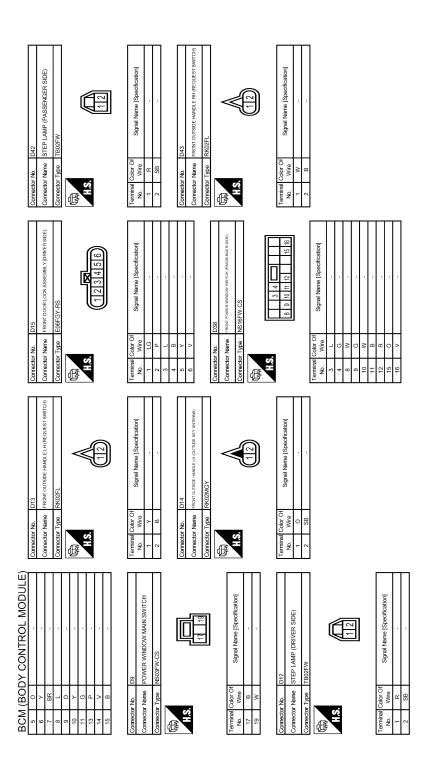
JRMWE9716GB

Α

Р

R SIDE)	LH COMM IMAGE SIGNAL OWER SUPPLY OWER SUPPLY OWER SUPPLY A LH GND A LH GND A LH GND Pecification)	В
D3	Signal Name ISpecification SIDE CAMERA LH INAGE SIGNAL SIDE CAMERA LH INAGE SIGNAL SIDE CAMERA LH INAGE CIND SIDE CAMERA LH INAGE CIND SIDE CAMERA LH GND SIDE CAMER	С
Connector No. D3 Connector Name D0 Connector Type TH4 LS.	No.	D
<u> </u>		Е
P451 THSZPW THSZPW 1 3	Signal Name (Specification) RX4 CX4 PLLSE (RECLINING) SLIDING SW (BACKWARD) REAR LIFTING SW (COWWARAD) REAR LIFTING SW (COWWARAD) REAR LIFTING SW (COWWARAD) REAR LIFTING SW (COWWARAD) RECLINING SW (FORWARD)	F
_		G
Cornector No. Cornector Name Cornector Type	Terminal Cohor Off Termina	Н
NSIGNWCS NSIGNWCS 2 1	Signal Name Specification	I
	MS V V V V V V V V V V V V V V V V V V V	J
Corrector No. Corrector Name Corrector Type H.S.	Terminal Color Ol Wire No. Wi	SEC
BCM (BODY CONTROL MODULE) Corrector Nens REAR TURN SIGNAL LAMP LH Corrector Type HEGGT-6W	Signal Name [Specification]	L
DY CONTROL MO BERO REAR THEN SIGNAL LAMP IN HSIGNEG.W	B261 HS02FG	M
BCM (BOI Connector Name Connector Type	Terminal Coder Of Sign	N
		0
	JRMWE9717GB	

SEC-157 2013 EX Revision: 2013 December



JRMWE9718GB

Corrector No. D110 Corrector Name (Lucasve Room Lake (RACK DOOR SIDE) Corrector Type TK03FW H.S.	Terminal Color Off Signal Name Specification 1	
Corrector No. D74 Corrector Name REAR POWER WINDOW SWITCH RH Corrector Type NS08FW.CS H.S.	Territed Color Of Signal Name Specification 1 W 2 V 2 V 3 3 3 3 3 3 3 3 3	
Corrector No. D54 Corrector Name REAR POWER WINDOW SWITCH LH Corrector Type INSOBEW-CS H.S. [23451]	Termine Codor Of Signal Name Specification 1	
BCM (BODY CONTROL MODULE) Corrector No. D04 Corrector Name RROZMGY Corrector Type RROZMGY H.S.	Termitral Color Of No. Wire Signal Name (Specification) 1	
		JRMWE9719GB

Revision: 2013 December SEC-159 2013 EX

В

Α

С

D

Е

F

G

Н

J

SEC

L

 \mathbb{N}

Ν

0

Р

Cornector No. E28 Cornector Name FRONT COMBINATION LAMP RH Cornector Type RSJ06FB-FR	No. No.	Terminal Coor Of Signal Name Specification
Corrector No. E5 Corrector Name Evers (See No. View Proving Derivation Module Corrector Type Intel® (No. See No. No. See No. No. See No. No. See No. S	Terminal Color Of Signal Name [Specification] Wire No. Wire Signal Name [Specification] 4	\$ a \$ m x
Corrector No. D116 Corrector Name SwyttCH Corrector Type IR02MBR.P H.S.	Terminal Color Of Signal Name (Specification) 1	Terminal Color Of Signal Name (Specification) Wire Signal Name (Specification) 1 BR
BCM (BODY CONTROL MODULE) Corrector Name BACK DOOR OPENER SWITCH Corrector Type IndOMBR-P	Terminal Color Of Signal Name (Specification) 1	Terminal Color Of Signal Name Specification No Wire Signal Name Specification 2 C C 3 C C C 4 B C C C C C C C C C

JRMWE9720GB

- 1	Connector No. F301	Connector Name TCM (TRANSMISSION CONTROL MODULE)	Connector Type SP10FG	4		12345	01 8 8 7 9	Terminal Color Of	No. Wire Sign	2 - POWER SUPPLY (MEMORY BACK-UP)	3 - CANH		6 - POWER SUPPLY	8 - CANL	. STA	10 - GROUND	ſ	Connector No. M1	Connector Name FUSE BLOCK (J/B)	Connector Type NS06FW-M2		Ä.	Y 8A 74 64 54 4A		Terminal (No. Wire	2A	N 3A L	- 4A P	4A R - [For key slot]	5A V -	. ∀9
- 1	Connector No. E110	Connector Name STOP LAMP SWITCH	Connector Type M04FW-LC	1	Chris	3 4	112	Terminal Color Of	No. Wire Signal Name [Specification]	2 W	3 <			Connector No. F51	Connector Name AVI ASSEMBLY	Connector Type RK10FG-DGY	♥	<T	6 4 3 2 1	9 2 8 6 0 1	Terminal Color Of	No. Wire Signal Name Specification	2 BR POWER SUPPLY (MEMORY BACK-UP) 3 0 CAN-H	4 V KLINE	8	6 Y POWER SUPPLY 7 R BACK-UP LAMP RELAY	8 LG CAN-L	9 GR STARTER RELAY	10 B GROUND			
- 1	Connector No. E58	Connector Name FRONT COMBINATION LAMP LH	Connector Type RS08FB-PR	d)	The state of the s	135 2 3 4	5678	Terminal Color Of	No. Wire Signal Name [Specification]	3 BN	4 B/W		- P		- 1	$\overline{}$		Connector Type NS16FW-CS	E	H.S. 64 44 71 128 18	l-		Terminal Color Of Signal Name [Specification] No.	1F SB .	\dashv	6F BR -	H	9F R -				
آښ																cification]							ER (ENGINE ROOM)				e	_			[Specification]	-
BCM (BODY CONTROL MODULE		GR DSRI		LG DS RR	JA.	L CAN-H B BUS-H				Connector Type Invoice T-K-US		- 6 4		Ŧ		Terminal Color Of Signal Name [Specification]		8 4	SB	- X		Connector No. E57	Connector Name Intelligent KEY WARNING BUZZER (ENSINE ROOM) Connector Type RK03FBR	1	•	≪	I]		Terminal Color Of Signal Name [Spec	

SEC

J

Α

В

С

D

Е

F

G

Н

L

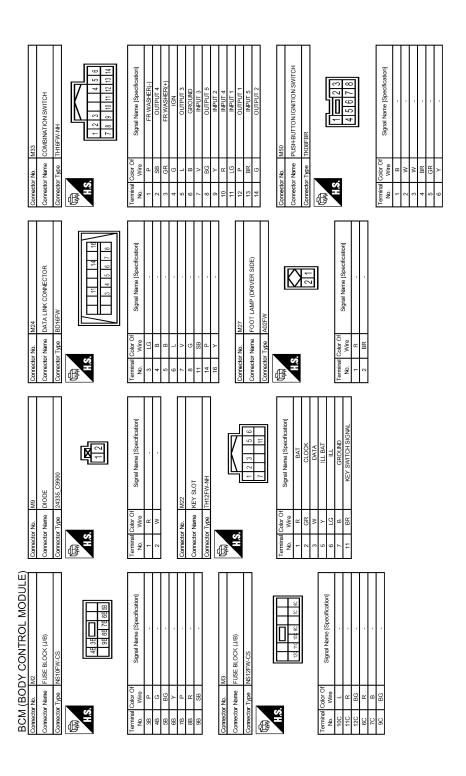
M

Ν

0

JRMWE9721GB

Ρ



JRMWE9722GB

	Connector No. M101	Connector Name TIRE PRESSURE RECEIVER	Connector Type TK04FW	d	THE		1 2 4			Terminal Color Of Signal Name (Specification)	_	1 BG GROUND	2 L SIGNAL	4 Y BATTERY		100000		Connector Name REMOTE KEYLESS ENTRY RECEIVER	Connector Tyne(AB04FB	1				12 4				Ierminal Color Of Signal Name [Specification]	WIE	SIG	4 LG BATTERY						_				
Γ	Connector No. M72	Connector Name MULTIFUNCTION SWITCH	Connector Type TH16FW-NH	1	The state of the s	/	4 6 8 14 16	1 3 5 9		Terminal Color Of Signal Name [Specification]	No. Wire	В	>	x ;	>	+		2 ×	- c			Connector No. M94	Connector Name OPTICAL SENSOR	Т	Connector Type TK03FW	q	(H/h)			1 2 3			屋	No. Wire		3 P COUNTY					
	Connector No. M67	Connector Name UNIFIED METER AND A/C AMP.	Connector Type TH32FW-NH	d	Arth.		42 43 44 45 46 47	57 58 59 60 61 62 65 65 65 66 70 71 72		Jan J	Wire	>	≻	ĸ :	- 91	45 P AMBIENT SENSOR SIGNAL	2 0	4/ G ENHAUST GAS/OUTSIDE ODOR DETECTING SENSOR SIGNAL	>	- 60	7	57 W BRAKE FLUID LEVEL SWITCH SIGNAL	BR FI	S.	_	BR	+	× 2	69 BG ECV SIGNAL	R EACH DOO	В	72 P CAN-L									
BCM (BODY CONTROL MODULE)	>	٠,		No. M53	Name COMBINATION METER	Type TH40FW-NH				3 5 6 7 19 15 19	[기조] [사건[전] [전] [전] [전] [전] [전] [전]			color Of Signal Name [Specification]	╅	GR BATTERY POWER SUPPLY	╈	+	AI TE			B GROUND	METER CON	_		IGN	+		P VEHICLE SPEED SIGNAL (8-PLI SE)	PARKING BRAKE S	W BRAKE FLUID LEVEL SWITCH SIGNAL	П	G SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)	T		SELECT SWITCH SIGNAL	TRIE	P ILLUMINATION CONTROL SWITCH SIGNAL (-)	۲		
BCM (7	00		Connector No.	Connector Name	Connector Type	ą	医	S S					<u>a</u>	Ö.	+	+	7 (o (c	_	10	15	16	19	+	+	22	24	52 52	27	28	59	30	31	33	37 30	38	38	┝	1	

SEC

J

Α

В

С

D

Е

F

G

Н

L

 \mathbb{N}

Ν

0

JRMWE9723GB

Ρ

BCM (BODY CONTROL MODULE)						
Connector No. M113	Connector No. M119	Connector No.	M121	80	GR	NATS ANT AMP.
Complete North COOT AMD (DASSENDED	CTILIDOM LOCATION MODIFICATION	Constant Nome	CAM GOOD COMPONING	81	Μ	NATS ANT AMP.
באיו ואואו ורטטו		colliector value		82	×	IGN RELAY (F/B) CONT
Connector Type A02FW	Connector Type NS16FW-CS	Connector Type	TH40FGY-NH	83	Υ	KEYLESS ENTRY RECEIVER COMM
4	4	4		87	BR	COMBI SW INPUT 5
				88	۸	COMBI SW INPUT 3
K		Ę		96	۵	CAN-L
K]]			91	_	CAN-H
2 1	11 13 14 15 17 18 19		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	85	5	KEY SLOT ILL CONT
]			N 10	93	>	ONINO
				94	>	PUDDLE LAMP CONT
				92	BG	ACC RELAY CONT
ē	폏	<u>aa</u>	Signal Name [Specification]	96	GR	A/T SHIFT SELECTOR POWER SUPPLY
No. Wire Ognerine December of	No. Wire Ognari warre Lopeanoaron	No. Wire	organia mento l'obcompanoni	66	œ	SHIFT P
1 R -	4 LG INTERIOR ROOM LAMP POWER SUPPLY	34 SB	LUGGAGE ROOM ANT-	100	G	PASSENGER DOOR REQUEST SW
2 BR -	5 L PASSENGER DOOR UNLOCK OUTPUT	35 V	LUGGAGE ROOM ANT+	101	SB	DRIVER DOOR REQUEST SW
	7 Y STEP LAMP CONT	38 B	BACK DOOR ANT-	102	BG	BLOWER FAN MOTOR RELAY CONT
	8 V ALL DOOR, FUEL LID LOCK OUTPUT	39 W	BACK DOOR ANT+	103	97	KEYLESS ENTRY RECEIVER POWER SUPPLY
Connector No. M118	9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	47 Y	IGN RELAY (IPDM E/R) CONT	107	PT	COMBI SW INPUT 1
THE GOM TOURISH ON MOOD AND A STREET	10 BR REAR DOOR UNLOCK OUTPUT	52 SB	STARTER RELAY CONT	108	œ	COMBI SW INPUT 4
CONTRECTOR INSIDE BOIN (BOD) CONTROL MODULE)	11 R BAT (FUSE)	60 BR	PUSHSW	109	У	COMBI SW INPUT 2
Connector Type M03FB-LC	13 B GROUND	61 W	BACK DOOR OPENER REQUEST SW	110	9	HAZARD SW
	14 W PUSH-BUTTON IGNITION SW ILL GND	V V	I-KEY WARN BUZZER (ENG ROOM)			
	15 Y ACC IND	65 BG	REAR WIPER STOP POSITION			
	17 W TURN SIGNAL RH (FRONT)	66 R	BACK DOOR SW	Connector No.		M123
13.	18 BG TURN SIGNAL LH (FRONT)	Н	BACK DOOR OPENER SW	Connector Name		BCM (BODY CONTROL MODILLE)
	19 V INT ROOM LAMP CONT	68 BR	REAR RH DOOR SW			Com (EOS) COMMOS MOSOCE)
<u></u>		69 R	REAR LH DOOR SW	Connector Type	-1	TH40FG-NH
l	Connection bla			1		
Tarminal Color Of	Τ	Connoctor No	M133	A ST		
No Mire Signal Name [Specification]	Connector Name BCM (BODY CONTROL MODULE)	COLLINECTOL INC.		\ \ \ \		[
+	Commenter Times NS42EW CS	Connector Name	BCM (BODY CONTROL MODULE)		_	20 E
WOUNIND GENERAL	7	Controctor Type	THAOFBINE		100	36 MS M2 M2 M2 M2 MS
+		add i add			J	
		4				
				Terminal	Color Of	9
		Ŋ.	K	9	Wire	Signal Name [Specification]
	25 26		20 00 10 E8 87 E8 88 E8 E	113	Ь	OPLICAL SENSOR
			10 30 12 12 12 13 10 10 10 10 10 10 10 10 10 10 10 10 10	116	SB	STOP LAMP SW 1
				118	Д	STOP LAMP SW 2
	Terminal Color Of			119	SB	DR DOOR UNLOCK SENSOR
	No. Wire Signal Manie (Specification)	Terminal Color Of		121	H	KEY SLOT SW
	20 V TURN SIGNAL RH (REAR)	No. Wire	olginal Name [opecinication]	123	*	IGN F/B
	23 G BACK DOOR OPEN OUTPUT	74 SB	PASSENGER DOOR ANT-	124	97	PASSENGER DOOR SW
	25 G TURN SIGNAL LH (REAR)	75 GR	PASSENGER DOOR ANT+	132	BR	POWER WINDOW SW COMM
	26 G REAR WIPER OUTPUT	V 97	DRIVER DOOR ANT-	133	W	PUSH-BUTTON IGNITION SW ILL POWER
		77 LG	DRIVER DOOR ANT+	134	GR	LOCK IND
		\dashv	ROOM ANT1-	137	BG	RECEIVER/SENSOR GND
		79 BR	ROOM ANT1+	138	≻	RECEIVER/SENSOR POWER SUPPLY

JRMWE9724GB

Corrector No. R12 Corrector Name VANITY MIRROR LAWP LH Corrector Type MCAN2FW H.S.	Terminal Color Of Viral 1		
M137 A7 SHET SELECTOR TH2PAV-NH 1 2 3 4 5 7 8 9 10 11	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) Signal Name (Specification)	Signal Name [Specification] SW-BIT1 SW-BIT-	SPEED SENSOR(2P) TIMER(+IGN) GROUND
Corrector No. Corrector Name Corrector Type	Terminal Color Of	Terminal Color Of No. Wire 1 GR	HH
BCM (BODY CONTROL MODULE) 139 L TIRE PRESSURE RECEIVER COMM 141 G SHIT TWO PUT 142 B COMBIS SWO UTPUT 144 G COMBIS SWO UTPUT 144 G COMBIS SWO UTPUT 144 G COMBIS SWO UTPUT 145 C C C C C C C C C	M129 OPTION CONNECTOR (1) THOBIAW-NAT THOBIAW-NAT Signal Name [Specification] ROOM_LAMP_BOTT_SAVER[POWER] ROOM_LAMP_OUTPUT M131 M131 RRODE REY AVERNA, (RISTIBABENT CENTER) RRODE SY		Signal Name [Specification]
BCM (BOC 139 L 140 GR 141 BG 143 P 144 C 146 SB 146 SB 150 C	Corrector Name Corrector Name H.S. H.S. Corrector Name Corrector Name Corrector Name Corrector Name R.S. R. R. Corrector Name A.S. Corrector Name A.S. A.S. Corrector Name A.S. A.S. Corrector Name A.S. A		Terminal Color Of No. Wire 1 BR 2 Y

SEC

Α

В

C

D

Е

F

G

Н

M

Ν

0

Р

JRMWE9725GB

INFOID:0000000008776158

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

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

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stops.
- 2. Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:0000000008776159

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

[WITH INTELLIGENT KEY SYSTEM]

EC

M

Ν

0

Р

Priority	DTC	۸
	B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY	В
	 B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW 	С
4	 B2608: STARTER RELAY B260A: IGNITION RELAY B260F: ENG STATE SIG LOST B2614: ACC RELAY CIRC 	D
	 B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM 	Е
	B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG	F G
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR	Н
5	 C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL 	I
	 C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	J
6	B2621: INSIDE ANTENNA B2623: INSIDE ANTENNA	SEC

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-23, "COM-MON ITEM"</u>.

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-41
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-42
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-43
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-40

ECO DIAGNOSIS INFORM	, (11011)				
CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-43
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-44
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-45
B2195: ANTI SCANNING	×	_	_	_	SEC-46
B2553: IGNITION RELAY	_	×	_	_	PCS-50
B2555: STOP LAMP	_	×	_	_	SEC-47
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-49
B2557: VEHICLE SPEED	×	×	×	_	SEC-51
B2560: STARTER CONT RELAY	×	×	×	_	SEC-52
B2562: LOW VOLTAGE	_	×	_	_	BCS-44
B2601: SHIFT POSITION	×	×	×	_	SEC-53
B2602: SHIFT POSITION	×	×	×	_	SEC-56
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-59
B2604: PNP SW	×	×	×		SEC-62
B2605: PNP SW	×	×	×	_	SEC-64
B2608: STARTER RELAY	×	×	×	_	SEC-66
B260A: IGNITION RELAY	×	×	×		PCS-52
B260F: ENG STATE SIG LOST	×	×	×		SEC-68
B2614: ACC RELAY CIRC	_	×	×		PCS-54
B2615: BLOWER RELAY CIRC		×	×	_	PCS-57
B2616: IGN RELAY CIRC		×	×	_	PCS-60
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-71
B2618: BCM	×	×	×	_	PCS-63
B261A: PUSH-BTN IGN SW		×	×	_	SEC-73
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-76
B2621: INSIDE ANTENNA	_	×	_	_	DLK-58
B2623: INSIDE ANTENNA	_	×	_	_	DLK-60
B26E1: ENG STATE NO RES	×	×	×	_	SEC-69
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-70
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	VA/T CC
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-23</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR		_	_	×	
C1710: [NO DATA] RR	_	_	_	×	<u>WT-25</u>
C1711: [NO DATA] RL	_	_	_	×	-

BCM

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-28
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-30</u>
C1734: CONTROL UNIT	_	_	_	×	WT-32

Е

D

Α

В

С

F

G

Н

J

SEC

L

M

Ν

0

Ρ

[WITH INTELLIGENT KEY SYSTEM]

IPDM E/R

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.

Monitor Item		Condition	Value/Status
RAD FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 – 100 %
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL OCUD DEC	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On
III I O DEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND HI or AUTC	(Light is illuminated)	On
DEO	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI		On
		Front fog lamp switch OFF	Off
FR FOG REQ	Lighting switch 2ND or AUTO (Light is illuminated)	 Front fog lamp switch ON Daytime running light activated (Only for Canada) 	On
		Front wiper switch OFF	Stop
FR WIP REQ		Front wiper switch INT	1LOW
	Ignition switch ON	Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
WIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK
ION DIVA DEO	Ignition switch OFF or ACC		Off
IGN RLY1 -REQ	Ignition switch ON		On
ION DIV	Ignition switch OFF or ACC		Off
IGN RLY	Ignition switch ON	On	
DUCULOW/	Release the push-button ignition	n switch	Off
PUSH SW	Press the push-button ignition s	witch	On
INTER/NP SW	Ignition switch ON	Selector lever in any position other than P or N	Off
		Selector lever in P or N position	On
ST 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

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item		Condition	Value/Status		
	Ignition switch ON		Off		
	At engine cranking		INHI ON \rightarrow ST ON		
ST/INHI RLY		tarter control relay cannot be recognized by n, etc. when the starter relay is ON and the	UNKWN		
DETENT SW	Ignition switch ON	Press the selector button with selector lever in Procition			
	Release the selector button w	elease the selector button with selector lever in P position			
S/L RLY -REQ	NOTE: The item is indicated, but not	Off			
S/L STATE	NOTE: The item is indicated, but not	UNLOCK			
DTRL REQ	NOTE: The item is indicated, but not	Off			
OII	Ignition switch OFF, ACC or e	engine running	Open		
OIL P SW	Ignition switch ON		Close		
HOOD SW	Close the hood		Off		
HOOD SW	Open the hood		On		
HL WASHER REQ	NOTE: The item is indicated, but not	monitored.	Off		
	Not operation		Off		
THFT HRN REQ	Panic alarm is activated Horn is activated with VEHI TEM	On			
Not operating		Off			
HORN CHIRP	N CHIRP Door locking with Intelligent Key (horn chirp mode)				
CRNRNG LMP REQ	NOTE: The item is indicated, but not	Off			

SEC

Α

В

С

D

Е

F

G

Н

L

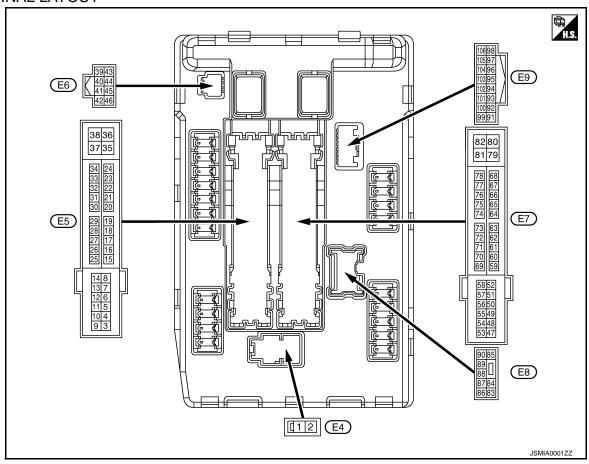
M

Ν

0

Ρ

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition swi	tch OFF	Battery voltage
2 (L)	Ground	Battery power supply	Input	Ignition swi	tch OFF	Battery voltage
4	0	Frant win and O	0	Ignition	Front wiper switch OFF	0 V
(V)	Ground	Front wiper LO	Output	switch ON	Front wiper switch LO	Battery voltage
5	0	Frant win an I II	0	Ignition	Front wiper switch OFF	0 V
(L)	Ground	Front wiper HI	Output	switch ON	Front wiper switch HI	Battery voltage
7	0	Tail, license plate lamps &	0	Ignition	Lighting switch OFF	0 V
(R)	Ground	interior lamps	Output	switch ON	Lighting switch 1ST	Battery voltage
12 (B/W)	Ground	Ground	_	Ignition swi	tch ON	0 V
13					tely 1 second or more after ignition switch ON	0 V
(Y)	Ground	Fuel pump power supply	Output	 Approximately 1 second after turning the ignition switch ON Engine running 		Battery voltage
16				Ignition	Front wiper stop position	0 V
(LG)	Ground	Front wiper auto stop	Input	switch ON	Any position other than front wiper stop position	Battery voltage

[WITH INTELLIGENT KEY SYSTEM]

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
19	Cround	Ignition roley newer cumply	Output	Ignition swi	itch OFF	0 V
(W)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
25	Cround	Ignition roley newer cumply	Output	Ignition swi	itch OFF	0 V
(G)	Ground	Ignition relay power supply	Output	Ignition swi	itch ON	Battery voltage
26*	Ground	Ignition relay power supply	Output	Ignition swi	itch OFF	0 V
(R)	Ground	ignition relay power supply	Output	Ignition swi	itch ON	Battery voltage
27	Ground	Ignition relay monitor	Input	Ignition swi	itch OFF or ACC	Battery voltage
(BG)	Ground	igilition relay monitor	input	Ignition swi	itch ON	0 V
28	Ground	Push-button ignition	Input	Press the p	bush-button ignition switch	0 V
(L)	Ground	switch	input	Release th	e push-button ignition switch	Battery voltage
30 (GR)	Ground	Starter relay control	Input	Ignition switch ON	Selector lever in any position other than P or N	0 V
()					Selector lever P or N	Battery voltage
36 (G)	Ground	Battery power supply	Input	Ignition sw	itch OFF	Battery voltage
39 (P)	_	CAN-L	Input/ Output		_	_
40 (L)	_	CAN-H	Input/ Output		_	
41 (B/W)	Ground	Ground	_	Ignition swi	itch ON	0 V
42	Ground	Cooling fan relay control	Input	Ignition switch OFF or A	itch OFF or ACC	0 V
(Y)	0.00	cooming rain rollay collinol		Ignition swi	itch ON	0.7 V
43 (SB)	Ground	A/T shift selector (Detention switch)	Input	Ignition switch ON	Press the selector button (Selector lever P) Selector lever in any position other than P	Battery voltage
					Release the selector but- ton (selector lever P)	0 V
44	Ground	Horn relay control	Input	The horn is	deactivated	Battery voltage
(BR)	Giodila	Tioni relay control	Πρατ	The horn is	activated	0 V
45	Ground	Anti theft horn relay control	Input	The horn is	deactivated	Battery voltage
(G)	Giodila	And their norm relay control	IIIput	The horn is	activated	0 V
46 (R)	Ground	Starter relay control	Input	Ignition switch ON	Selector lever in any position other than P or N	0 V
(11)				SWILCH OIV	Selector lever P or N	Battery voltage
					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
40				Ignition swi (More than ignition swi	a few seconds after turning	0 V
49 (BG)	Ground	ECM relay power supply	Output	Ignition s Ignition s (For a fe tion switch	switch OFF w seconds after turning igni-	Battery voltage

Revision: 2013 December SEC-173 2013 EX

SEC

Α

В

С

D

Е

F

G

Н

L

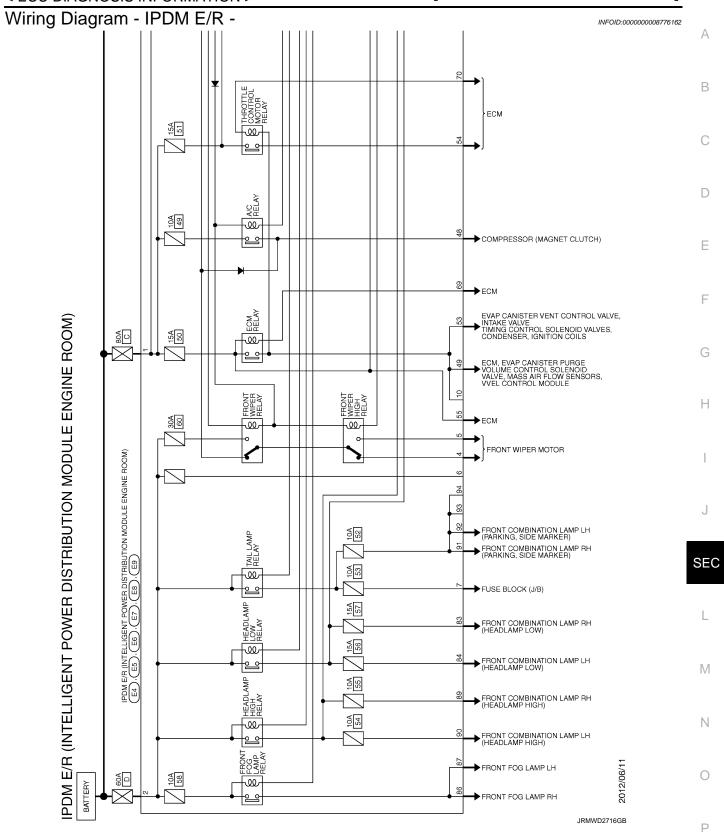
Terminal No. (Wire color) Description					Value	
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
51			<u> </u>	Ignition sw	itch OFF	0 V
(Y)	Ground	Ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
5 2				Ignition swi (More than ignition swi	a few seconds after turning	0 V
53 (W)	Ground	ECM relay power supply	Output	Ignition s	w seconds after turning igni-	Battery voltage
54		Throttle control motor re-		Ignition switch OFF (More than a few seconds after turning ignition switch OFF)		0 V
(P)	Ground	lay power supply	Output	Ignition s	w seconds after turning igni-	Battery voltage
55 (SB)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage
56	Ground	Ignition relay power supply	Output	Ignition sw	itch OFF	0 V
(LG)	Giodila	ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
57	Cravad	lanition relevance comple	Outnut	Ignition sw	itch OFF	0 V
(G)	Ground	Ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
58	Cround	lanition roley newer cumply	Output	Ignition sw	itch OFF	0 V
(V)	Ground	Ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
69				Ignition swi (More than ignition swi	a few seconds after turning	Battery voltage
(BR)	Ground	ECM relay control	Output	Ignition s	w seconds after turning igni-	0 – 1.5 V
70 (BG)	Ground	Throttle control motor re- lay control	Output	Ignition switch ON $ ightarrow$ OFF		0 − 1.0 V ↓ Battery voltage ↓ 0 V
				Ignition switch ON		0 – 1.0 V
74	0	Indian relative	0.4.	Ignition sw	itch OFF	0 V
(P)	Ground	Ignition relay power supply	Output	Ignition sw	itch ON	Battery voltage
75	Graves	Oil proceure quitab	lnn::4	Ignition	Engine stopped	0 V
(SB)	Ground	Oil pressure switch	Input	switch ON	Engine running	Battery voltage

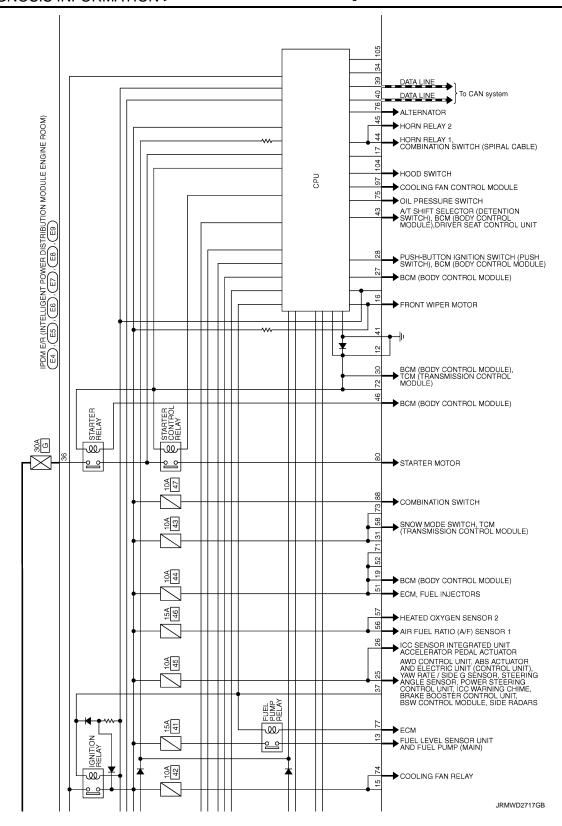
Terminal No.		Description				Value
(Wire	e color)	Signal name		Condition		(Approx.)
76 (Y)	Ground	Power generation command signal	Output	Ignition switch ON		(V) 6 4 2 0 → 2ms JPMIA0001GB 6.3 V
				40% is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 2 2ms JPMIA0002GB 3.8 V
				80% is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 2 ms JPMIA0003GB 1.4 V
77 (R)	Ground	Fuel pump relay control	Output	Approximately 1 second after turning the ignition switch ON Engine running Approximately 1 second or more after turning the ignition switch ON		0 – 1.0 V
						Battery voltage
80 W)	Ground	Starter motor	Output	At engine cranking		Battery voltage
83 BG)	Ground	Headlamp LO (RH)	Output	Ignition switch ON	Lighting switch OFF Lighting switch 2ND	0 V Battery voltage
84 (V)	Ground	Headlamp LO (LH)	Output	Ignition switch ON	Lighting switch OFF Lighting switch 2ND	0 V Battery voltage
86 (W)	Ground	Front fog lamp (RH)	Output	Lighting switch 2ND	Front fog lamp switch OFF Front fog lamp switch ON Daytime running light activated (Only for Canada)	0 V Battery voltage
87 (L)	Ground	Front fog lamp (LH)	Output		Front fog lamp switch OFF	0 V
				Lighting switch 2ND	 Front fog lamp switch ON Daytime running light activated (Only for Canada) 	Battery voltage
88	Ground	Washer pump power supply	Output	Ignition swi	itch ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value
+ -		Signal name	Input/ Output	Condition		(Approx.)
89 (BR)	Ground	Headlamp HI (RH)	Output	Ignition switch ON	Lighting switch OFF	0 V
					Lighting switch HILighting switch PASS	Battery voltage
90 (P)	Ground	Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch OFF	0 V
					Lighting switch HI Lighting switch PASS	Battery voltage
91 (P)	Ground	Parking lamp (RH)	Output	Ignition switch ON	Lighting switch OFF	0 V
					Lighting switch 1ST	Battery voltage
92 (BG)	Ground	Parking lamp (LH)	Output	Ignition switch ON	Lighting switch OFF	0 V
					Lighting switch 1ST	Battery voltage
97 (V)	Ground	Cooling fan control	Output	Engine idling		0 – 5 V
104 (LG)	Ground	Hood switch	Input	Close the hood		Battery voltage
				Open the hood		0 V

^{*:} Only for the models with ICC system





Α

В

С

D

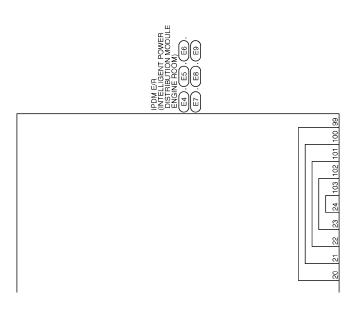
Е

F

G

Н

J



SEC

L

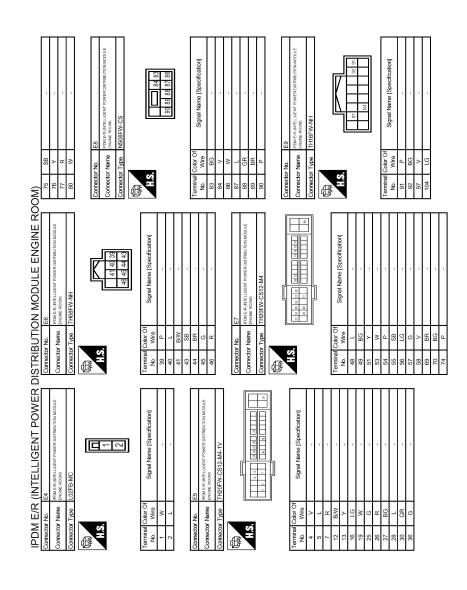
M

Ν

0

JRMWD2718GB

Р



JRMWE9734GB

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

[WITH INTELLIGENT KEY SYSTEM]

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	
Alternator	Outputs the power generation command signal (PWM signal) 0%	

If No CAN Communication Is Available With BCM

Control part	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 lampsLicense plate lampsSide maker lampsIlluminationsTail lamps	 Turns ON the tail lamp relay when the ignition switch is turned ON Turns OFF the tail lamp relay when the ignition switch is turned OFF 	
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating. 	
Front fog lamps	Front fog lamp relay OFF	
Horn	Horn relay OFF	
Ignition relay	The status just before activation of fail-safe is maintained.	
Starter motor	Starter control relay OFF	

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay 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 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	-	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" Turns ON the tail lamp relay for 10 minutes	
OFF	ON	Ignition relay OFF stuck	Detects DTC "B2099: IGN RELAY OFF"	

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.

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	The front wiper stop position signal does not change for 10 seconds.

SEC

Ν

Р

J

Α

В

D

Е

Revision: 2013 December SEC-181 2013 EX

< ECU DIAGNOSIS INFORMATION >

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	Reference
No DTC is detected. further testing may be required.	_	_
U1000: CAN COMM CIRCUIT	×	PCS-14
B2098: IGN RELAY ON CIRC	×	PCS-15
B2099: IGN RELAY OFF CIRC	_	PCS-17
B210B: STR CONT RLY ON CIRC	_	<u>SEC-77</u>
B210C: STR CONT RLY OFF CIRC	_	<u>SEC-78</u>
B210D: STARTER RLY ON CIRC	_	<u>SEC-80</u>
B210E: STARTER RLY OFF CIRC	_	<u>SEC-82</u>
B210F: INTRLCK/PNP SW ON	_	<u>SEC-84</u>
B2110: INTRLCK/PNP SW OFF	_	<u>SEC-86</u>

ENGINE DOES NOT START WITH INTELLIGENT KEY

[WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α ENGINE DOES NOT START WITH INTELLIGENT KEY Description INFOID:0000000008284547 В Before performing the diagnosis in the following table, 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) "ENGINE START BY I-KEY" in "WORK SUPPORT" is ON when setting on CONSULT. D · 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 Е 1.PERFORM WORK SUPPORT Perform "INSIDE ANT DIAGNOSIS" on Work Support of "INTELLIGENT KEY". F Refer to SEC-24. "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)". >> GO TO 2. 2.PERFORM SELF DIAGNOSTIC RESULT Perform "BCM" Self Diagnostic Result. Н Is DTC detected? YES >> Refer to DLK-58, "DTC Logic" (instrument center), or DLK-60, "DTC Logic" (luggage room). NO >> GO TO 3.

3.check push-button ignition switch

Check push-button ignition switch.

Refer to PCS-67, "Component Function Check".

Is the inspection 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-42. "Intermittent Incident".

NO >> GO TO 1.

SEC

N

ENGINE DOES NOT START WHEN INTELLIGENT KEY IS INSERTED INTO KEY SLOT

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

ENGINE DOES NOT START WHEN INTELLIGENT KEY IS INSERTED INTO KEY SLOT

Description INFOID:000000008284545

- Before performing the diagnosis in the following table, check "Work Flow". Refer to SEC-5, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Diagnosis Procedure

INFOID:0000000008284550

1. PERFORM INITIALIZATION

Perform initialization with CONSULT. Register all Intelligent Keys.

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

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

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK KEY SLOT

Check key slot.

Refer to DLK-96, "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-42, "Intermittent Incident".

SECURITY INDICATOR LAMP DOES NOT TURN ON OR BLINK

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SECURITY INDICATOR LAMP DOES NOT TURN ON OR BLINK

Description INFOID:0000000008284551

- Before performing the diagnosis in the following table, 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)

- Intelligent Key is not inserted in key slot.
- Ignition switch position is not in the ON position.

Diagnosis Procedure

1. CHECK SECURITY INDICATOR LAMP

Check security indicator lamp.

Refer to SEC-93, "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-42, "Intermittent Incident".

NO >> GO TO 1.

0_0

M

Ν

Р

Revision: 2013 December SEC-185 2013 EX

SEC

Α

В

C

D

Е

F

Н

INFOID:0000000008284552

0

VEHICLE SECURITY SYSTEM CAN NOT BE SET

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY SYSTEM CAN NOT BE SET

INTELLIGENT KEY

INTELLIGENT KEY: Description

INFOID:0000000008284553

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:0000000008284554

1. CHECK INTELLIGENT KEY SYSTEM (REMOTE KEYLESS ENTRY FUNCTION)

Lock/unlock door with Intelligent Key.

Refer to DLK-28, "REMOTE KEYLESS ENTRY FUNCTION: System Description".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check Intelligent Key system (remote keyless entry function). Refer to <u>DLK-186. "Diagnosis Procedure".</u>

2.check hood switch

Check hood switch.

Refer to SEC-90, "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-42, "Intermittent Incident".

NO >> GO TO 1.

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH: Description

INFOID:0000000008284555

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:0000000008284556

1. CHECK INTELLIGENT KEY SYSTEM (DOOR LOCK FUNCTION)

Lock/unlock door with door request switch.

Refer to <u>DLK-19</u>, "DOOR LOCK FUNCTION: System Description".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check Intelligent Key system (door lock function). Refer to <u>DLK-183, "ALL DOOR : Diagnosis Procedure".</u>

2. CHECK HOOD SWITCH

<u>M]</u>
_
_
_
14557
34557
ck
34558
_
_
ŀ

Ρ

VEHICLE SECURITY ALARM DOES NOT ACTIVATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY ALARM DOES NOT ACTIVATE

Description INFOID.000000008284559

Before performing the diagnosis in the following table, check "Work Flow". Refer to SEC-5, "Work Flow".

Diagnosis Procedure

INFOID:0000000008284560

1. CHECK DOOR SWITCH

Check door switch.

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

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-90, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the malfunctioning door switch

3.CHECK HEADLAMP ALARM

Check headlamp operation.

Refer to SEC-92, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4.CHECK HORN

Check horn.

Refer to <u>DLK-100</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

< SYMPTOM DIAGNOSIS > [WITH INTER	
VEHICLE SECURITY SYSTEM CAN NOT CANCELED	
INTELLIGENT KEY	
INTELLIGENT KEY : Description	INFOID:000000000828456
Before performing the diagnosis in the following table, check "Work Flow". Refer to	SEC-5, "Work Flow".
INTELLIGENT KEY : Diagnosis Procedure	INFOID:00000000828456
1. CHECK INTELLIGENT KEY	
Check Intelligent Key. Refer to DLK-94, "Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CHECK INTELLIGENT KEY SYSTEM	
Check Intelligent Key system. Refer to SEC-9, "System Description".	
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Refer to <u>SEC-5, "Work Flow"</u> .	
3.CONFIRM THE OPERATION	
Confirm the operation again. Is the result normal?	
YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	
NO >> GO TO 1.	
DOOR REQUEST SWITCH	
DOOR REQUEST SWITCH : Description	INFOID:000000000828456
Before performing the diagnosis in the following table, check "Work Flow". Refer to	SEC-5, "Work Flow".
DOOR REQUEST SWITCH : Diagnosis Procedure	INFOID:00000000828456
1.CHECK DOOR REQUEST SWITCH	
Check door request switch.	
Refer to DLK-83, "Component Function Check".	
Is the inspection normal? YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.check intelligent key system	
Check Intelligent Key system.	
Refer to <u>DLK-15, "INTELLIGENT KEY SYSTEM: System Description"</u> . Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Refer to <u>DLK-7, "Work Flow"</u> .	
3.confirm the operation	

Revision: 2013 December SEC-189 2013 EX

>> Check intermittent incident. Refer to $\underline{\text{GI-42, "Intermittent Incident"}}.$ >> GO TO 1.

Confirm the operation again.

DOOR KEY CYLINDER

Is the result normal?

YES NO

VEHICLE SECURITY SYSTEM CAN NOT CANCELED

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR KEY CYLINDER: Description

INFOID:0000000008284565

Before performing the diagnosis in the following table, check "Work Flow". Refer to SEC-5, "Work Flow".

DOOR KEY CYLINDER: Diagnosis Procedure

INFOID:0000000008284566

1. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK INTELLIGENT KEY SYSTEM

Check power door lock system.

Refer to DLK-15, "INTELLIGENT KEY SYSTEM: System Description".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to <u>DLK-7</u>, "Work Flow".

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

INTELLIGENT KEY INSERT INFORMATION DOES NOT OPERATE

[WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS > INTELLIGENT KEY INSERT INFORMATION DOES NOT OPERATE Α Description INFOID:0000000008284567 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-38, "WARNING FUNCTION: System Description". Diagnosis Procedure INFOID:0000000008284568 1. CHECK POWER POSITION Check if ignition switch position is changing or not. Does ignition switch position change? YFS >> GO TO 3. NO >> GO TO 2. 2.CHECK PUSH-BUTTON IGNITION SWITCH Check push-button ignition switch. Refer to PCS-67, "Component Function Check". Is the inspection result normal? >> Check BCM for DTC. Refer to SEC-167, "DTC Index". YES Н NO >> Repair or replace the malfunctioning parts. 3.check door switch Check door switch. Refer to DLK-63, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4.CHECK KEY SLOT **SEC** Check key slot. Refer to DLK-96, "Component Function Check". Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

 ${f 5.}$ CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to DLK-102, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

O.CHECK KEY SLOT INDICATOR

Check key slot indicator.

Refer to DLK-98, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.

>> Repair or replace the malfunctioning parts. NO

.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

SEC-191 Revision: 2013 December 2013 EX M

N

INTELLIGENT KEY INSERT INFORMATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Check intermittent incident. Refer to GI-42. "Intermittent Incident".

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

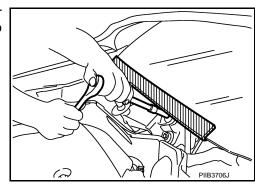
WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with
 a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing
 serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

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



SEC

INFOID:0000000008284570

Α

В

D

Е

Н

L

M

Ν

0

[WITH INTELLIGENT KEY SYSTEM]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000008284571

Tool name		Description
Remover tool	PIIB7923J	Removes the clip and pawl and metal clip

[WITH INTELLIGENT KEY SYSTEM]

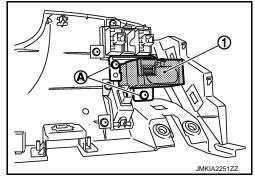
REMOVAL AND INSTALLATION

KEY SLOT

Removal and Installation

REMOVAL

- 1. Remove the instrument driver lower panel. Refer to <u>IP-13.</u> "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.

SEC

Α

В

C

D

Е

Н

INFOID:0000000008284572

L

IVI

Ν

0

PUSH-BUTTON IGNITION SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

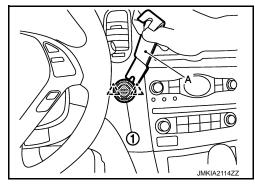
PUSH-BUTTON IGNITION SWITCH

Removal and Installation

INFOID:0000000008284573

REMOVAL

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



INSTALLATION

Install in the reverse order of removal.