SECURITY CONTROL SYSTEM

 D

CONTENTS

WITH INTELLIGENT KEY SYSTEM	
PRECAUTION	FUNCTION: System Diagram10 INTELLIGENT KEY SYSTEM/ENGINE START
DDECALITIONS	FUNCTION : System Description10
PRECAUTIONS Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN-SIONER" Precaution for Procedure without Cowl Top Cove	NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS12 NISSAN VEHICLE IMMOBILIZER SYSTEM- NATS: System Diagram
Precautions For Xenon Headlamp Service Precautions for Removing Battery Terminal	4 NATS : System Description
SYSTEM DESCRIPTION	6 VEHICLE SECURITY SYSTEM : System Dia-
COMPONENT PARTS Component Parts Location	6 tion16
Component Description	7 DIAGNOSIS SYSTEM (BCM)19 SE
CVT Shift Selector (Detention Switch)	COMMON ITEM ::::::::::::::::::::::::::::::::::::
TCM	8 INTELLIGENT KEY
Door Switch Inside Key Antenna Intelligent Key Park/Neutral Position Switch	THEFT ALM
Push-button Ignition Switch	9 IMMU24 9 IMMU : CONSULT Function (BCM - IMMU) 25 O
Starter Control Relay Starter Relay Stop Lamp Switch	9 CONSULT Function (IPDM E/R)26
Transmission Range Switch	
Vehicle Information Display	9
SYSTEM	ECM, IPDM E/R, BCM2810 List of ECU Reference28
NTELLIGENT KEY SYSTEM/ENGINE START	WIRING DIAGRAM29

Revision: November 2015 SEC-1 2016 JUKE

SECURITY CONTROL SYSTEM	29	Component Inspection	64
Wiring Diagram	29	B2557 VEHICLE SPEED	65
BASIC INSPECTION	44	DTC Logic	
		Diagnosis Procedure	
DIAGNOSIS AND REPAIR WORK FLOW	44	•	
Work Flow	44	B2601 SHIFT POSITION	
		DTC Logic	
ADDITIONAL SERVICE WHEN REPLACING		Diagnosis Procedure	66
CONTROL UNIT	47	B2602 SHIFT POSITION	
ECM	47		
ECM : Description		DTC Logic Diagnosis Procedure	
ECM : Work Procedure		Component Inspection	
LOW . WORK Frocedure	71	Component inspection	/ (
BCM	48	B2603 SHIFT POSITION	71
BCM : Description	48	DTC Logic	71
BCM : Work Procedure	48	Diagnosis Procedure	
DTC/CIDCUIT DIA CNOCIC		Component Inspection (Transmission Range	
DTC/CIRCUIT DIAGNOSIS	50	Switch)	74
P1610 LOCK MODE	50	Component Inspection [CVT Shift Selector (De-	
Description		tention Switch)]	74
DTC Logic		DOCA CHIET DOCUTION	
Diagnosis Procedure		B2604 SHIFT POSITION	
Blagitodo i roccadio	00	DTC Logic	
P1611 ID DISCORD, IMMU-ECM	51	Diagnosis Procedure	/5
DTC Logic		B2605 SHIFT POSITION	77
Diagnosis Procedure	51	DTC Logic	
DACAG CITAIN OF FOM IMMIT		Diagnosis Procedure	
P1612 CHAIN OF ECM-IMMU		•	
DTC Logic		B2608 STARTER RELAY	
Diagnosis Procedure	52	DTC Logic	
B2192 ID DISCORD, IMMU-ECM	53	Diagnosis Procedure	78
DTC Logic		B260F ENGINE STATUS	0.0
Diagnosis Procedure		Description	
		DTC Logic	
B2193 CHAIN OF ECM-IMMU		Diagnosis Procedure	
DTC Logic		Diagnosis i roccare	00
Diagnosis Procedure	54	B261A PUSH-BUTTON IGNITION SWITCH	81
B2195 ANTI-SCANNING	55	DTC Logic	
DTC Logic		Diagnosis Procedure	81
Diagnosis Procedure		DOCAE ASCD CLUTCH SWITCH	0.0
-		B261F ASCD CLUTCH SWITCH	
B2196 DONGLE UNIT	56	DTC Logic Diagnosis Procedure	
Description		Diagnosis Procedure	83
DTC Logic		B2620 PARK/NEUTRAL POSITION SWITCH	85
Diagnosis Procedure	56	DTC Logic	
B2198 NATS ANTENNA AMP	EO	Diagnosis Procedure	
DTC Logic		Component Inspection	
Diagnosis Procedure			
Diagnosis Frocedule	50	B26E8 CLUTCH INTERLOCK SWITCH	
B2555 STOP LAMP	61	DTC Logic	
DTC Logic		Diagnosis Procedure	
Diagnosis Procedure		Component Inspection	90
Component Inspection		B26F3 STARTER CONTROL RELAY	91
		DTC Logic	
B2556 PUSH-BUTTON IGNITION SWITCH.		Diagnosis Procedure	
DTC Logic			0 !
Diagnosis Procedure	63		

M

Ν

0

Р

J

Α

В

С

D

Е

F

G

Н

B26F4 STARTER CONTROL RELAY92	Diagnosis Procedure115
DTC Logic92	HEADLAMP FUNCTION117
Diagnosis Procedure92	
B26F7 BCM93	Component Function Check117 Diagnosis Procedure117
DTC Logic	Diagnosis Procedure117
Diagnosis Procedure93	HORN FUNCTION118
Diagnosis i roccaure	Component Function Check118
B26F8 BCM94	Diagnosis Procedure118
DTC Logic94	SECURITY INDICATOR LAMP119
Diagnosis Procedure94	Component Function Check119
B26F9 CRANKING REQUEST CIRCUIT95 DTC Logic95	Diagnosis Procedure119
Diagnosis Procedure95	SYMPTOM DIAGNOSIS121
•	ENGINE BOEG NOT OTABT WILEN INTELL
B26FA CRANKING REQUEST CIRCUIT97	ENGINE DOES NOT START WHEN INTELLI-
DTC Logic	GENT KEY IS INSIDE OF VEHICLE121
Diagnosis Procedure97	Description121 Diagnosis Procedure121
B26FB CLUTCH SWITCH99	Diagnosis Frocedure121
DTC Logic99	SECURITY INDICATOR LAMP DOES NOT
Diagnosis Procedure99	TURN ON OR BLINK122
•	Description122
B26FC KEY REGISTRATION100	Diagnosis Procedure122
DTC Logic	VEHICLE SECURITY SYSTEM CANNOT BE
Diagnosis Procedure100	SET
B209F CRANKING REQUEST CIRCUIT 101	3L1123
DTC Logic101	INTELLIGENT KEY123
Diagnosis Procedure101	INTELLIGENT KEY: Description123
B20A0 CRANKING REQUEST CIRCUIT 103	INTELLIGENT KEY: Diagnosis Procedure123
DTC Logic	DOOR REQUEST SWITCH123
Diagnosis Procedure	DOOR REQUEST SWITCH : Description123
·	DOOR REQUEST SWITCH : Diagnosis Proce-
B210B STARTER CONTROL RELAY105	dure123
DTC Logic	DOOR KEY CYLINDER124
Diagnosis Procedure105	DOOR KEY CYLINDER : Description124
B210C STARTER CONTROL RELAY107	DOOR KEY CYLINDER : Diagnosis Procedure 124
DTC Logic	
Diagnosis Procedure107	DOOR LOCK AND UNLOCK SWITCH124 DOOR LOCK AND UNLOCK SWITCH : Descrip-
B210D STARTER RELAY109	tion
DTC Logic	DOOR LOCK AND UNLOCK SWITCH: Diagnosis
Diagnosis Procedure	Procedure124
B210E STARTER RELAY111	VEHICLE SECURITY ALARM DOES NOT
DTC Logic111	ACTIVATE125
Diagnosis Procedure111	Description
B210F SHIFT POSITION/CLUTCH INTER-	Diagnosis Procedure125
LOCK SWITCH113	REMOVAL AND INSTALLATION126
DTC Logic113	
Diagnosis Procedure113	NATS ANTENNA AMP126
	Removal and Installation126
B2110 SHIFT POSITION/CLUTCH INTER-	PUSH-BUTTON IGNITION SWITCH127
LOCK SWITCH115	Removal and Installation127
DTC Logic115	

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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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

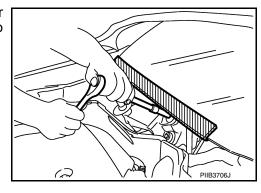
WARNING:

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 or batteries, 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.



INFOID:0000000012855979

INFOID:0000000012855980

Precautions For Xenon Headlamp Service

WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- · Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector.

PRECAUTIONS

< PRECAUTION >

[WITH INTELLIGENT KEY SYSTEM]

(Turning it ON outside the lamp case may cause fire or visual impairments.)

Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

CAUTION:

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

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

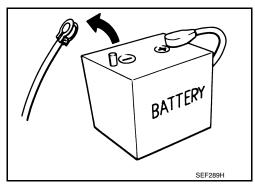
Precautions for Removing Battery Terminal

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

YS23DDT D4D engine : 20 minutes : 4 minutes HRA2DDT : 12 minutes YS23DDTT : 4 minutes K9K engine : 4 minutes ZD30DDTi : 60 seconds ZD30DDTT : 60 seconds M9R engine : 4 minutes

R9M engine : 4 minutes
V9X engine : 4 minutes
YD25DDTi : 2 minutes



NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

 After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

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

NOTE:

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

SEC

Α

В

D

Е

F

Н

INFOID:0000000012855981

L

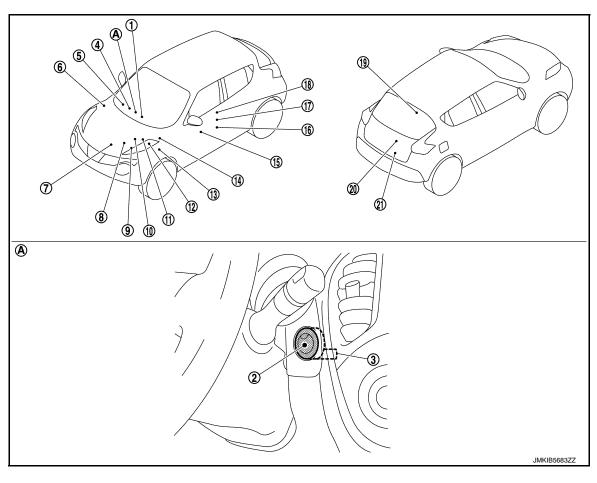
Ν

INFOID:0000000012202092

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



- Combination meter
 Refer to <u>MWI-6, "METER SYSTEM:</u>
 Component Parts Location".
- Inside key antenna (instrument center)
 Refer to <u>DLK-9.</u>

"Component Parts Location".

- Park/neutral position switch (M/T models) Refer to <u>TM-17</u>, "Component Parts <u>Location"</u>.
- 10. IPDM E/R
 Refer to PCS-5, "Component Parts
 Location".
- Clutch interlock switch (M/T models)
 Refer to <u>STR-5</u>, "Component Parts <u>Location"</u>.
- 16. Front door switch (driver side)

- Push-button ignition switch
- Remote keyless entry receiver Refer to <u>DLK-9</u>.
 "Component Parts Location".
- Transmission range switch (CVT models)
 Refer to TM-156, "CVT CONTROL SYSTEM: Component Parts Location".
- TCM (CVT models) Refer to <u>TM-156, "CVT CONTROL</u> <u>SYSTEM: Component Parts Location".</u>
- 14. BCM
 Refer to BCS-5, "BODY CONTROL
 SYSTEM: Component Parts Location".
- 17. Front door lock assembly (door key cylinder switch)

- 3. NATS antenna amp.
- ABS actuator and electric unit (control unit)
 Refer to <u>BRC-9</u>, "Component Parts <u>Location"</u>.
- 9. ECM
 Refer to EC-27, "ENGINE CONTROL SYSTEM:
 Component Parts Location".
- 12. Stop lamp switch
 Refer to <u>EC-27</u>, "<u>ENGINE CON-TROL SYSTEM</u>:
 Component Parts Location".
- Power window main switch (door lock and unlock switch)
- 18. Front door request switch (driver side)

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- 19. Inside key antenna (luggage room) Refer to <u>DLK-9</u>,
- 20. Back door request switch
- 21. Back door opener assembly (back door switch)

"Component Parts Location".

A. Behind push-button ignition switch

Component Description

INFOID:0000000012202093

Α

D

Е

Н

Component	Reference	
BCM	SEC-7	
CVT shift selector (detention switch) (CVT models)	SEC-7	
ECM	SEC-8	
IPDM E/R	SEC-8	
NATS antenna amp.	SEC-8	
TCM (CVT models)	SEC-8	
Clutch interlock switch (M/T models)	SEC-8	
Combination meter	SEC-8	
Door switch	SEC-8	
Inside key antenna	SEC-8	
Intelligent Key	SEC-8	
Park/neutral position switch (M/T models)	SEC-9	
Push-button ignition switch	SEC-9	
Remote keyless entry receiver	SEC-9	
Security indicator lamp	SEC-9	
Starter control relay	SEC-9	
Starter relay	SEC-9	
Stop lamp switch	SEC-9	
Transmission range switch (CVT models)	SEC-9	
Vehicle information display	SEC-9	

BCM INFOID:000000012202094

BCM controls INTELLIGENT KEY SYSTEM (ENGINE START FUNCTION), NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS [NVIS (NATS)], and VEHICLE SECURITY SYSTEM.

BCM performs the ID verification between BCM and Intelligent Key when the Intelligent Key is carried into the detection area of inside key antenna, and push-button ignition switch is pressed. If the ID verification result is OK, push-button ignition switch operation is available.

Then, when the power supply position is turned ON, BCM performs ID verification between BCM and ECM. If the ID verification result is OK, ECM can start engine.

CVT Shift Selector (Detention Switch)

Detention switch detects that CVT shift selector is in the P position, and then transmits the signal to BCM and IPDM E/R.

BCM confirms the CVT shift selector position with the following 5 signals.

- P position signal from CVT shift selector (detention switch)
- P/N position signal from transmission range switch
- P position signal from IPDM E/R (CAN)
- P/N position signal from IPDM E/R (CAN)
- P/N position signal from TCM (CAN)

IPDM E/R confirms the CVT shift selector position with the following 3 signals.

- P position signal from CVT shift selector (detention switch)
- P/N position signal from transmission range switch
- P/N position signal from BCM (CAN)

SEC

M

Ν

Р

INFOID:0000000012202095

Revision: November 2015 SEC-7 2016 JUKE

COMPONENT PARTS

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

ECM INFOID:000000012202096

ECM controls the engine.

When power supply position is turned ON, BCM starts communication with ECM and performs the ID verification between BCM and ECM.

If the verification result is OK, the engine can start. If the verification result is NG, the engine can not start.

When ECM restarts engine by the Stop/Start System (CVT models), ECM transmits the control signals to IPDM E/R and BCM to crank engine.

IPDM E/R

IPDM E/R has starter relay and starter control relay inside. Starter relay and starter control relay are used for the engine starting function. Starter relay is controlled by BCM, and starter control relay is controlled by IPDM E/R while communicating with BCM.

During engine is running, IPDM E/R controls starter control relay according to the cranking request signal from ECM for Stop/Start System.

NATS Antenna Amp.

INFOID:0000000012202098

The ID verification is performed between BCM and transponder in Intelligent Key via NATS antenna amp. when Intelligent Key backside is contacted to push-button ignition switch in case that Intelligent Key battery is discharged. If the ID verification result is OK, the operation of starting engine is available.

TCM INFOID:0000000122020099

TCM transmits the shift position signal (P/N position) to BCM and IPDM E/R via CAN communication. BCM confirms the CVT shift selector position with the following 5 signals.

- P position signal from CVT shift selector (detention switch)
- P/N position signal from transmission range switch
- P position signal from IPDM E/R (CAN)
- P/N position signal from IPDM E/R (CAN)
- P/N position signal from TCM (CAN)

IPDM E/R confirms the CVT shift selector position with the following 3 signals.

- P position signal from CVT shift selector (detention switch)
- P/N position signal from transmission range switch
- P/N position signal from BCM (CAN)

Clutch Interlock Switch

INFOID:0000000012202100

Clutch interlock switch detects that clutch pedal is depressed, then provides power source to starter control relay and starter relay, and transmits ON/OFF signal to BCM.

Combination Meter

Combination meter transmits the vehicle speed signal to BCM via CAN communication.

BCM also receives the vehicle speed signal from ABS actuator and electric unit (control unit) via CAN communication. BCM compares both signals to detect the vehicle speed.

Door Switch

Door switch detects door open/close condition and then transmits ON/OFF signal to BCM.

Inside Key Antenna

Inside key antenna detects whether Intelligent Key is inside the vehicle, and transmits the signal to BCM. Two inside key antennas are installed in the instrument center and luggage room.

Intelligent Key

Each Intelligent key has an individual electronic ID, and transmits the ID signal by request from BCM. Carrying the Intelligent Key whose ID is registered in BCM, the driver can performs door lock/unlock operation and push-button ignition switch operation.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Park/Neutral Position Switch

INFOID:0000000012202105

Α

D

Е

Н

Park/neutral position switch detects that shift lever is in the neutral position, and then transmits ON/OFF signal to BCM.

Push-button Ignition Switch

INFOID:0000000012202106

Push-button ignition switch detects that push-button is pressed, and then transmits the signal to BCM. BCM changes the power supply position with the operation of push-button ignition switch. BCM maintains the power supply position status while push-button is not operated.

Remote Keyless Entry Receiver

INFOID:0000000012202107

Remote keyless entry receiver receives each button operation signal and electronic key ID signal from Intelligent Key, and then transmits the signal to BCM.

Security Indicator Lamp

INFOID:0000000012202108

Security indicator lamp is located on combination meter.

Security indicator lamp blinks when power supply position is any position other than ON to warn that NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS [NVIS (NATS)] is on board.

Starter Control Relay

INFOID:0000000012202109

Engine starting system functions by controlling both starter relay and starter control relay.

Both relays are integrated in IPDM E/R. Starter relay is controlled by BCM, and starter control relay is controlled by IPDM E/R on request from BCM.

IPDM E/R transmits starter relay and starter control relay status signal to BCM via CAN communication. During engine is running, starter control relay is controlled by IPDM E/R according to the cranking request signal from ECM for Stop/Start System.

Starter Relay INFOID:0000000012202110

Engine starting system functions by controlling both starter relay and starter control relay.

Both relays are integrated in IPDM E/R. Starter relay is controlled by BCM, and starter control relay is controlled by IPDM E/R on request from BCM.

IPDM E/R transmits starter relay and starter control relay status signal to BCM via CAN communication. During engine is running, starter relay is controlled by BCM according to the cranking request signal from ECM for Stop/Start System.

Stop Lamp Switch

INFOID:0000000012202111

Stop lamp switch detects that brake pedal is depressed, and then transmits the signal to BCM.

Transmission Range Switch

Transmission range switch is integrated in CVT assembly, and detects the CVT shift selector position. TCM receives the transmission range switch signal and then transmits the P/N position signal to BCM and IPDM E/R.

BCM confirms the CVT shift selector position with the following 5 signals.

- P position signal from CVT shift selector (detention switch)
- P/N position signal from transmission range switch
- P position signal from IPDM E/R (CAN)
- P/N position signal from IPDM E/R (CAN)
- P/N position signal from TCM (CAN)

IPDM E/R confirms the CVT shift selector position with the following 3 signals.

- P position signal from CVT shift selector (detention switch)
- P/N position signal from transmission range switch
- P/N position signal from BCM (CAN)

Vehicle Information Display

INFOID:0000000012202113

Vehicle information display is integrated in combination meter.

Various information and warnings regarding to the Intelligent Key System are displayed.

SEC-9 **Revision: November 2015 2016 JUKE** **SEC**

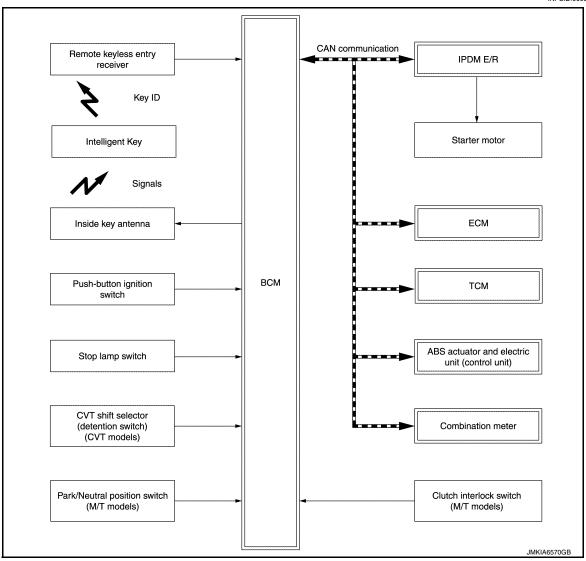
N

SYSTEM

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION: System Diagram

INFOID:0000000012202114



INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION: System Description

INFOID:0000000012202115

SYSTEM DESCRIPTION

• The engine start function of Intelligent Key system makes it possible to start and stop the engine without using the key, based on the electronic ID verification. The electronic ID verification is performed between BCM and Intelligent Key when the push-button ignition switch is pressed while the Intelligent Key is within the detection area of inside key antenna.

NOTE:

The driver should carry the Intelligent Key at all times.

- Intelligent Key has 2 IDs [Intelligent Key ID and NVIS (NATS) ID]. It can perform the door lock/unlock operation and the push-button ignition switch operation when the registered Intelligent Key is carried.
- When Intelligent Key battery is discharged, engine can be started by operating push-button ignition switch after contacting Intelligent Key backside to push-button ignition switch. At that time, the NVIS (NATS) ID verification is performed.
- If the ID is successfully verified, engine can be started.
- Up to 4 Intelligent Keys can be registered (Including the standard Intelligent Key) upon request from the customer.

NOTE:

Refer to DLK-13, "INTELLIGENT KEY SYSTEM: System Description" for any functions other than engine start function of Intelligent Key system.

PRECAUTIONS FOR INTELLIGENT KEY SYSTEM

The transponder [the chip for NVIS (NATS) ID verification] is integrated into the Intelligent Key. (For the conventional models, it is integrated into the mechanical key.) Therefore, ID verification cannot be performed by mechanical key only.

In that case, the NVIS (NATS) ID verification can be performed when Intelligent Key backside is contacted to push-button ignition switch. If verification result is OK, engine can be started.

OPERATION WHEN INTELLIGENT KEY IS CARRIED

- 1. When the push-button ignition switch is pressed, 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.
- BCM receives the Intelligent Key ID signal via remote keyless entry receiver and verifies it with the registered ID.
- BCM turns ACC relay ON and transmits the ignition power supply ON signal to IPDM E/R.
- IPDM E/R turns the ignition relay ON to start the ignition power supply.
- IPDM E/R turns the starter control relay ON for engine starting in advance.
- 7. BCM detects that the selector lever position and brake pedal operating condition (CVT models), or clutch pedal operation condition (M/T models).
- BCM transmits the starter request signal to IPDM E/R and turns the starter relay in IPDM E/R ON if BCM judges that the engine start condition* is satisfied.
- Power source is supplied to starter motor through the starter relay and the starter control relay. **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 receives feedback signal from ECM indicating that the engine is started, the BCM transmits a stop signal to IPDM E/R and stops cranking by turning OFF the starter motor relay. (If engine start is unsuccessful, cranking stops automatically within 5 seconds.) CAUTION:

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

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

OPERATION RANGE

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

ENGINE START OPERATION WHEN INTELLIGENT KEY IS CONTACTED TO PUSH-BUTTON IG-NITION SWITCH

When Intelligent Key battery is discharged, the NVIS (NATS) ID verification between transponder integrated into Intelligent Key and BCM is performed when Intelligent Key backside is contacted to push-button ignition switch. If the verification result is OK, engine can be started.

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

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

- When an Intelligent Key is within the detection area of inside key antenna and when Intelligent Key backside is contacted to push-button ignition switch, they are equivalent to the operations below.
- When starting the engine, the BCM monitors the engine start conditions as per the following,

CVT models

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

M/T models

J

Α

В

D

Е

F

Н

SEC

L

M

Р

SEC-11 Revision: November 2015 2016 JUKE

< SYSTEM DESCRIPTION >

- Clutch pedal operating condition
- Vehicle speed

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

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

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

Power supply position	CVT	models	M/T models	Push-button ignition switch operation
. c sappy position	Selector lever	Brake pedal operation condition	Clutch pedal operation condition	frequency
Engine is running → ACC	_	_	_	Emergency stop operation
Engine stall return operation while driving	N position	Not depressed	Depressed	1

Emergency stop operation

NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS

[•] 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.

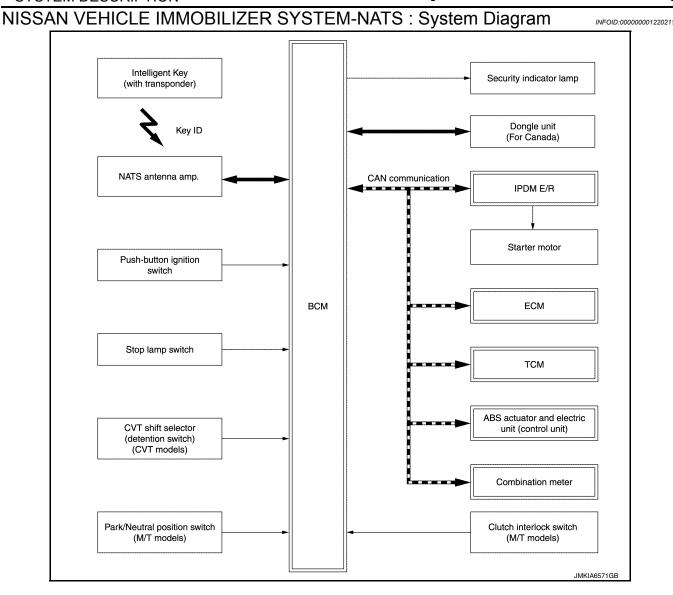
Α

Е

Н

SEC

Ν



NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Description

INFOID:0000000012202117

SYSTEM DESCRIPTION

- The NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS [NVIS (NATS)] prevents the engine from being started by Intelligent Key whose ID is not registered to the vehicle (BCM). It has higher protection against auto theft involving the duplication of mechanical keys.
- The ignition key integrated in the Intelligent Key cannot start the engine. When the Intelligent Key battery is
 discharged, the NVIS (NATS) ID verification is performed between the transponder integrated into Intelligent
 Key and BCM via NATS antenna amp. when the Intelligent Key backside is contacted to push-button ignition
 switch. If the verification results are OK, the engine start operation can be performed by the push-button ignition switch operation.
- The security indicator lamp on combination meter always blinks when the power supply position is any position other than ON which warns that the NVIS (NATS) is on board the model.
- Up to 4 Intelligent Keys can be registered (including the standard ignition key) upon request from the owner.
- Specified registration is required when replacing ECM, BCM or Intelligent Key.
- Possible symptom of NVIS (NATS) malfunction is "Engine cannot start". The engine can not be started because of other than NVIS (NATS) malfunction, so start the trouble diagnosis according to <u>SEC-44</u>. "Work <u>Flow"</u>.
- If ECM other than genuine part is installed, the engine cannot be started. For ECM replacement procedure, refer to <u>EC-157</u>, "Work <u>Procedure"</u>.

PRECAUTIONS FOR KEY REGISTRATION

- The ID registration is a procedure that erases the current NVIS (NATS) ID once, and then registers a new ID. Therefore before starting the registration operation, collect all registered Intelligent Keys from the customer.
- When registering the Intelligent Key, perform only one procedure to simultaneously register both ID [NVIS (NATS) ID and Intelligent Key ID].

SECURITY INDICATOR LAMP

- Warns that the vehicle is equipped with NVIS (NATS).
- Security indicator lamp always blinks when the power supply position is any position other than ON.

NOTE:

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

ENGINE START OPERATION WHEN INTELLIGENT KEY IS CONTACTED TO PUSH-BUTTON IGNITION SWITCH

- 1. When brake pedal is depressed, while selector lever is in the P position (CVT models), BCM activates NATS antenna amp. that is located behind push-button ignition switch.
- When Intelligent Key (transponder built-in) backside is contacted to push-button ignition switch, BCM starts NVIS (NATS) ID verification between BCM and Intelligent Key (transponder built-in) via NATS antenna amp.
- 3. When the NVIS (NATS) ID verification result is OK, buzzer in combination meter sounds and BCM transmits the result to ECM.
- When push-button ignition switch is pressed, BCM turns ACC relay ON and transmits ignition power supply ON signal to IPDM E/R.
- 5. IPDM E/R turns the starter control relay ON for engine starting in advance.
- 6. IPDM E/R turns the ignition relay ON to start the ignition power supply.
- 7. BCM detects that the selector lever position and brake pedal operating condition (CVT models), or clutch pedal operation condition (M/T models).
- 8. BCM transmits starter request signal to IPDM E/R and turns the starter relay in IPDM E/R ON if BCM judges that the engine start condition* is satisfied.
- 9. Power supply is supplied to the starter motor through the starter relay and the starter control relay.
- 10. When BCM receives feedback signal from ECM indicating that the engine is started, BCM transmits a stop signal to IPDM E/R to stop cranking by turning off the starter motor relay. (If engine start is unsuccessful, cranking stops automatically within 5 seconds.)
- *: For the engine start condition, refer to "POWER SUPPLY POSITION CHANGE TABLE BY PUSH-BUTTON IGNITION SWITCH OPERATION" below.

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

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

NOTE:

- When an Intelligent Key is within the detection area of inside key antenna and when Intelligent Key backside is contacted to push-button ignition switch, they are equivalent to the operations below.
- · When starting the engine, the BCM monitors the engine start conditions as per the following,

CVT models

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

M/T models

- Clutch pedal operating condition
- Vehicle speed

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

Power supply position	CVT	T models M/T models		Push-button ignition switch operation
	Selector lever	Brake pedal operation condition	Clutch pedal operation condition	frequency
OFF → ACC	_	Not depressed	Not depressed	1
$OFF \to ACC \to ON$	_	Not depressed	Not depressed	2

SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Power supply position	CVT	models M/T models		Push-button ignition switch operation
	Selector lever	Brake pedal operation condition	Clutch pedal operation condition	frequency
$OFF \to ACC \to ON \to OFF$	_	Not depressed	Not depressed	3
OFF → START ACC → START ON → START	P or N position	Depressed	Depressed	1
Engine is running → OFF	_	_	_	1

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

Power supply position	TVO	models	M/T models	Push-button ignition switch operation
. с.н. сорру роской	Selector lever	Brake pedal operation condition	Clutch pedal operation condition	frequency
Engine is running → ACC	_	_	_	Emergency stop operation
Engine stall return operation while driving	N position	Not depressed	Depressed	1

Emergency stop operation

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

VEHICLE SECURITY SYSTEM

J

Α

В

C

 D

Е

F

Н

SEC

L

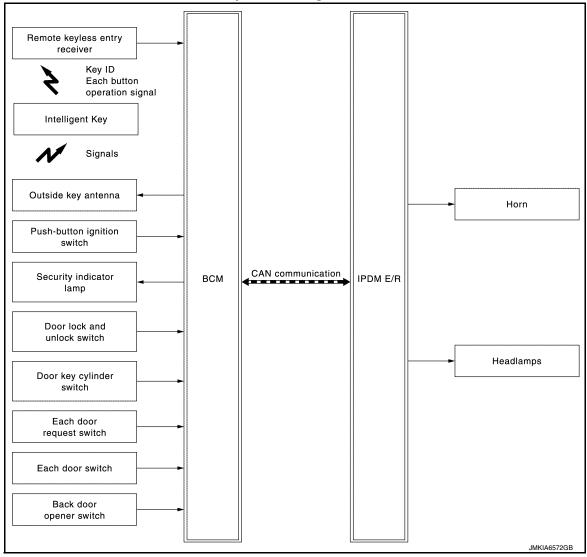
M

Ν

0

VEHICLE SECURITY SYSTEM: System Diagram

NFOID:000000001220211



VEHICLE SECURITY SYSTEM: System Description

INFOID:0000000012202119

- The vehicle security system has two alarm functions (theft warning alarm and panic alarm), and reduces the possibility of a theft or mischief by activating horns and headlamps intermittently.
- The panic alarm does not start when the theft warning alarm is activating, and the panic alarm stops when the theft warning alarm is activated.

The priority of the functions are as per the following.

Priority	Function
1	Theft warning alarm
2	Panic alarm

THEFT WARNING ALARM

- The theft warning alarm function activates horns and headlamps intermittently when BCM detects that any door is opened by unauthorized means, while the system is in the ARMED state.
- Security indicator lamp on combination meter always blinks when power supply position is any position other than ON. Security indicator lamp blinking warns that the vehicle is equipped with a vehicle security system.

Α

В

C

 D

Е

F

G

Н

J

SEC

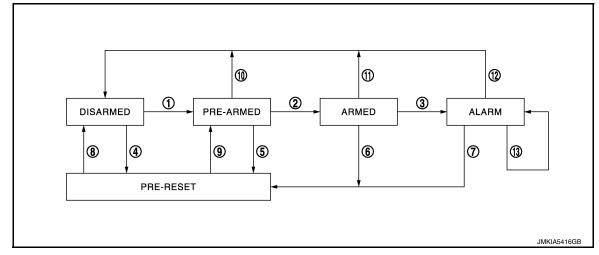
M

Ν

0

Р

Operation Flow



No.	System state		Switching condition	
1	DISARMED to	When all conditions of A and	A	В
	PRE-ARMED	one condition of B is satisfied.	Power supply position: OFF All doors: Closed	All doors are locked by: Door key cylinder LOCK switch LOCK button of Intelligent Key Door request switch Door lock and unlock switch
2	PRE-ARMED to ARMED	When all of the following conditions are satisfied for 30 seconds.	Power supply position: OFF All doors: Locked	
3	ARMED to	When all conditions of A and	A	В
	ALARM	of B are satisfied.	Intelligent Key: Not used	Any door: Open
4	DISARMED to PRE-RESET	No conditions.		
5	PRE-ARMED to PRE-RESET			
6	ARMED to PRE-RESET			
7	ALARM to PRE-RESET			
8	PRE-RESET to DISARMED			
9	PRE-RESET to PRE-ARMED			
10	PRE-ARMED to DISARMED	When one of the following condition is satisfied.	 Power supply position: ACC/ON. Door key cylinder UNLOCK swit UNLOCK button of Intelligent Ke Door request switch: ON Back door opener switch: ON Any door: Open 	ch: ON
11	ARMED to DISARMED	When one of the following condition is satisfied.	Power supply position: ACC/ON. Door key cylinder UNLOCK swit	ch: ON
12	ALARM to DISARMED		 UNLOCK button of Intelligent Ke Door request switch: ON Back door opener switch: ON	ey: ON
13	RE-ALARM	When the following condition is satisfied after the ALARM operation is finished.	Any door: Open	

NOTE:

• BCM ignores the door key cylinder UNLOCK switch signal input for 1 second after the door key cylinder LOCK switch signal input.

[WITH INTELLIGENT KEY SYSTEM]

- To lock/unlock all doors by operating remote controller button of Intelligent Key or door request switch, Intelligent Key must be within the detection area of outside key antenna. For details, refer to DLK-14, "DOOR LOCK FUNCTION: System Description".
- To open back door by operating back door opener switch, Intelligent Key must be within the detection area of outside key antenna. For
 details, refer to <u>DLK-14, "DOOR LOCK FUNCTION: System Description"</u>.

DISARMED Phase

The vehicle security system is not set in the DISARMED phase. The vehicle security system stays in this phase while any door is open, because it is assumed that the owner is inside or nearby the vehicle. Security indicator lamp blinks every 2.4 seconds.

When the vehicle security system is reset, each phase switches to the DISARMED phase directly.

PRE-ARMED Phase

The PRE-ARMED phase is the transient state between the DISARMED phase and the ARMED phase. This phase is maintained for 30 seconds, so that the owner can reset the setting due to a mis-operation. This phase switches to the ARMED phase when vehicle conditions are not changed for 30 seconds. Security indicator lamp illuminates while being in this phase.

To reset the PRE-ARMED phase, refer to the switching condition of No. 10 in the table above.

ARMED Phase

The vehicle security system is set, and BCM monitors all necessary inputs. If any door is opened without using Intelligent Key, vehicle security system switches to the ALARM phase. Security indicator lamp blinks every 2.4 seconds.

To reset the ARMED phase, refer to the switching condition of No. 11 in the table above.

ALARM Phase

BCM transmits "Theft Warning Horn Request" signal and "High Beam Request" signal intermittently to IPDM E/R via CAN communication. In this phase, horns and headlamps are activated intermittently for approximately 50 seconds to warn that the vehicle is accessed by unauthorized means. ON/OFF timing of horns and headlamps are synchronized. After 50 seconds, the vehicle security system returns to the ARMED phase. At this time, if BCM still detects unauthorized access to the vehicle, the system is switched to the ALARM phase again. This RE-ALARM operation is carried out a maximum of 2 times.

To cancel the ALARM operation, refer to the switching condition of No. 12 in the table above.

NOTE:

If a battery terminal is disconnected during the ALARM phase, theft warning alarm stops. But when the battery terminal is reconnected, theft warning alarm is activated again.

PRE-RESET Phase

The PRE-RESET phase is the transient state between each phase and DISARMED phase.

The PRE-RESET phase is not available for this models.

PANIC ALARM

- The panic alarm function activates horns and headlamps intermittently when the owner presses the PANIC ALARM button of Intelligent Key outside the vehicle while the power supply position is OFF.
- When BCM receives panic alarm signal from Intelligent Key, BCM transmits "Theft Warning Horn Request" signal and "High Beam Request" signal intermittently to IPDM E/R via CAN communication. To prevent the activation due to mis-operation of Intelligent Key by owner, the panic alarm function is activated when BCM receives the signal for 0.4 - 0.6 seconds.
- Panic alarm operation is maintained for 25 seconds.
- Panic alarm operation is cancelled when BCM receives one of the following signals.
- LOCK button of Intelligent Key: ON
- UNLOCK button of Intelligent Key: ON
- PANIC ALARM button of Intelligent Key: Long pressed
- Any door request switch: ON

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012998443

Α

В

D

Е

F

Н

SEC

Ν

0

Р

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item

System	Cub system calcution item	Diagnosis mode Work Support Data Monitor Active Tes		
System	Sub system selection item			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 conditioning system	AIR CONDITONER		×	×*
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	ВСМ	×		
NVIS - NATS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Theft warning alarm	THEFT ALM	×	×	×
RAP	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: November 2015 SEC-19 2016 JUKE

^{*:} For models with automatic A/C, this diagnosis mode is not used.

[WITH INTELLIGENT KEY SYSTEM]

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 position is "LOCK"*.)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power position is "OFF".)
	LOCK>ACC		While turning power position from "LOCK"* *to "ACC"
	ACC>ON		While turning power position from "ACC" to "IGN"
	RUN>ACC		While turning power position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN	Power position status of the moment a particular DTC is detected	While turning power position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power position from "ACC" to "OFF"
Vehicle Condition	OFF>LOCK		While turning power position from "OFF" to "LOCK"*
	OFF>ACC		While turning power position from "OFF" to "ACC"
	ON>CRANK		While turning power position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power position is "LOCK"*.) to low power consumption mode
	LOCK		Power position is "LOCK"*
	OFF		Power position is "OFF" (Ignition switch OFF)
	ACC		Power position is "ACC" (Ignition switch ACC)
	ON		Power position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN		Power position is "RUN" (Ignition switch ON with engine running)
	CRANKING		Power position is "CRANKING" (At engine cranking)
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 	

NOTE:

- *: Power position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models and CVT models), and any of the following conditions are met.
- · Closing door
- · Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

The power 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:0000000012998442

WORK SUPPORT

[WITH INTELLIGENT KEY SYSTEM]

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operation in this mode On: Operate Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode On: Operate Off: Non-operation
TRUNK/GLASS HATCH OPEN	NOTE: This item is displayed, but cannot be monitored
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 On: Operate Off: Non-operation
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
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be monitored
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operation with this mode On: Operate Off: Non-operation
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operation with this mode On: Operate Off: Non-operation
HAZARD ANSWER BACK	Hazard reminder function mode by door request switch and Intelligent Key button can be selected from the following with this mode Lock Only: Door lock operation only Unlock Only: Door unlock operation only Lock/Unlock: Lock and unlock operation Off: Non-operation
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch 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 operation with this mode
SHORT CRANKING OUTPUT	Starter motor can operate during the times below
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode
AUTO LOCK SET	Auto door lock operation time can be changed in this mode • MODE 1: OFF • MODE 2: 30 sec • MODE 3: 1 minute • MODE 4: 2 minutes • MODE 5: 3 minutes • MODE 6: 4 minutes • MODE 7: 5 minutes

SELF-DIAG RESULT

Refer to BCS-62, "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 -BD/TR	Indicates [On/Off] condition of back door request switch	
PUSH SW	Indicates [On/Off] condition of push-button ignition switch	
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch	
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply	
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch	
DETE/CANCL SW	Indicates [On/Off] condition of P position	
SFT PN/N SW	Indicates [On/Off] condition of P or N position	
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status	
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch	
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1	
DETE SW -IPDM	Indicates [On/Off] condition of P position	
SFT PN -IPDM	Indicates [On/Off] condition of P or N position	
SFT P -MET	Indicates [On/Off] condition of P position	
SFT N -MET	Indicates [On/Off] condition of N position	
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states	
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored	
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored	
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored	
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h]	
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [Km/h]	
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver side door status	
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger side door status	
ID OK FLAG	Indicates [Set/Reset] condition of key ID	
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility	
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored	
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-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	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Α

В

 D

Е

F

Н

SEC

Ν

Р

ACTIVE TEST

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation On: Operate Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation • Take Out: Take away warning chime sounds when CONSULT screen is touched • Key: Key warning chime sounds when CONSULT screen is touched • Knob: OFF position warning chime sounds when CONSULT screen is touched • Off: Non-operation
INDICATOR	This test is able to check warning lamp operation KEY ON: "KEY" Warning lamp illuminates when CONSULT screen is touched KEY IND: "KEY" Warning lamp blinks when CONSULT screen is touched Off: Non-operation
INT LAMP	This test is able to check interior room lamp operation On: Operate Off: Non-operation
LCD	This test is able to check meter display information BP N: Engine start operation indicator lamp indicate when CONSULT screen is touched BP I: Engine start operation indicator lamp indicate when CONSULT screen is touched ID NG: This item is displayed, but cannot be monitored ROTAT: This item is displayed, but cannot be monitored SFT P: Shift P warning lamp indicate when CONSULT screen is touched INSRT: This item is displayed, but cannot be monitored BATT: Key warning lamp indicator when CONSULT screen is touched NO KY: Key warning lamp indicator when CONSULT screen is touched OUTKEY: Engine start operation indicator lamp indicate when CONSULT screen is touched LK WN: Engine start operation indicator lamp indicate when CONSULT screen is touched
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after "LH/RH/Off" on CONSULT screen is touched
HORN	This test is able to check horn operation The horn is activated after "ON" on CONSULT screen is touched
P RANGE	This test is able to check CVT shift selector power supply On: Operate Off: Non-operation
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
PUSH SWITCH 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
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.
TRUNK/BACK DOOR	This test is able to check back door opener actuator open operation. This actuator opens when "Open" on CONSULT screen is touched.

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT)

WORK SUPPORT

INFOID:0000000012202122

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

^{*2:} OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

Service 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.

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.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
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.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch.
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from door key cylinder.
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from door key cylinder.
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.

ACTIVE TEST

Test Item	Description
THEFT IND	This test is able to check security indicator lamp operation. Security indicator lamp is turned on when "ON" on CONSULT screen is touched.
VEHICLE SECURITY HORN	This test is able to check horns operation. Horns are activated for 0.5 seconds after "ON" on CONSULT screen is touched.
HEADLAMP(HI)	This test is able to check headlamp operation. Headlamps are activated for 0.5 seconds after "ON" on CONSULT screen is touched.
FLASHER	This test is able to check hazard warning lamp operation. Hazard warning lamps are activated after "ON" on CONSULT screen is touched.

IMMU

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000012202123

Α

В

C

 D

Ε

F

Н

WORK SUPPORT

Service item	Description
CONFIRM DONGLE ID	It is possible to check that dongle unit is applied to the vehicle.

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	Indicates [YET] at all time.
CONFIRM ID3	Switches to [DONE] when a registered Intelligent Key backside is contacted to push-button igni-
CONFIRM ID2	tion switch.
CONFIRM ID1	
NOT REGISTERED	Indicates [ID OK] when key ID that is registered is received or is not yet received. Indicates [ID NG] when key ID that is not registered is received.
TP 4	
TP 3	Indicates the number of IDs that are registered
TP 2	Indicates the number of IDs that are registered.
TP 1	
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.

ACTIVE TEST

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

SEC

J

Ν

0

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (IPDM E/R)

CONSULT Function (IPDM E/R)

INFOID:0000000012998444

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with IPDM E/R.

Diagnosis mode	Description
Ecu Identification	Allows confirmation of IPDM E/R part number.
Self Diagnostic Result	Displays the diagnosis results judged by IPDM E/R.
Data Monitor	Displays the real-time input/output data from IPDM E/R input/output data.
Active Test	IPDM E/R can provide a drive signal to electronic components to check their operations.
CAN Diag Support Monitor	The results of transmit/receive diagnosis of CAN communication can be read.

SELF DIAGNOSTIC RESULT

Refer to PCS-24, "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 [Unit]	MAIN SIGNALS	Description
RAD FAN REQ [%]	×	Displays the value of the cooling fan speed request signal received from ECM via CAN communication.
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.
FR FOG REQ [Off/On]	×	Displays the status of the front fog light request signal received from BCM via CAN communication.
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper auto stop signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
IGN RLY1 -REQ [Off/On]		Displays the status of the ignition switch ON signal received from BCM via CAN communication.
IGN RLY [Off/On]	×	Displays the status of the ignition relay judged by IPDM E/R.
PUSH SW [Off/On]		Displays the status of the push-button ignition switch judged by IPDM E/R.
INTER/NP SW [Off/On]		Displays the status of the ignition power supply (M/T models) or shift position (CVT models) judged by IPDM E/R.
ST RLY CONT [Off/On]		Displays the status of the starter relay status signal received from BCM via CAN communication.
IHBT RLY -REQ [Off/On]		Displays the status of the starter control relay signal received from BCM via CAN communication.

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	MAIN SIGNALS	Description
ST/INHI RLY [Off/ ST ON/INHI ON/UNKWN]		Displays the status of the starter relay and starter control relay judged by IPDM E/R.
DETENT SW [Off/On]		Displays the status of the CVT shift selector (detention switch) judged by IPDM E/R.
S/L RLY -REQ [Off/On]		NOTE: This item is indicated, but not monitored.
S/L STATE [LOCK/UNLK/UNKWN]		NOTE: This item is indicated, but not monitored.
DTRL REQ [Off/On]		Displays the status of the daytime running light request signal received from BCM via CAN communication. NOTE: This item is monitored only for the except for NISMO models.
OIL P SW [Open/Close]		NOTE: This item is indicated, but not monitored.
HOOD SW [Off/On]		NOTE: This item is indicated, but not monitored.
HL WASHER REQ [Off/On]		NOTE: This item is indicated, but not monitored.
THFT HRN REQ [Off/On]		Displays the status of the theft warning horn request signal received from BCM via CAN communication.
HORN CHIRP [Off/On]		Displays the status of the horn reminder request signal received from BCM via CAN communication.

ACTIVE TEST

Test item

Test item	Operation	Description
HORN	On	Operates horn relay for 20 ms.
REAR DEFOGGER	Off	OFF
REAR DEFOGGER	On	Operates the rear window defogger relay.
	Off	OFF
FRONT WIPER	Lo	Operates the front wiper relay.
	Hi	Operates the front wiper relay and front wiper high relay.
	1	OFF
MOTOR FAN	2	Transmits 50% pulse duty signal (PWM signal) to the cooling fan control module.
MOTOR FAIN	3	Transmits 75% pulse duty signal (PWM signal) to the cooling fan control module.
	4	Transmits 100% pulse duty signal (PWM signal) to the cooling fan control module.
HEAD LAMP WASHER	On	NOTE: This item is indicated, but cannot be tested.
	Off	OFF
	TAIL	Operates the tail lamp relay.
EXTERNAL LAMPS	Lo	Operates the headlamp low relay.
	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals.
	Fog	Operates the front fog lamp relay.

Revision: November 2015 SEC-27 2016 JUKE

SEC

Α

В

С

 D

Е

F

G

Н

M

L

Ν

0

ECU DIAGNOSIS INFORMATION

ECM, IPDM E/R, BCM

List of ECU Reference

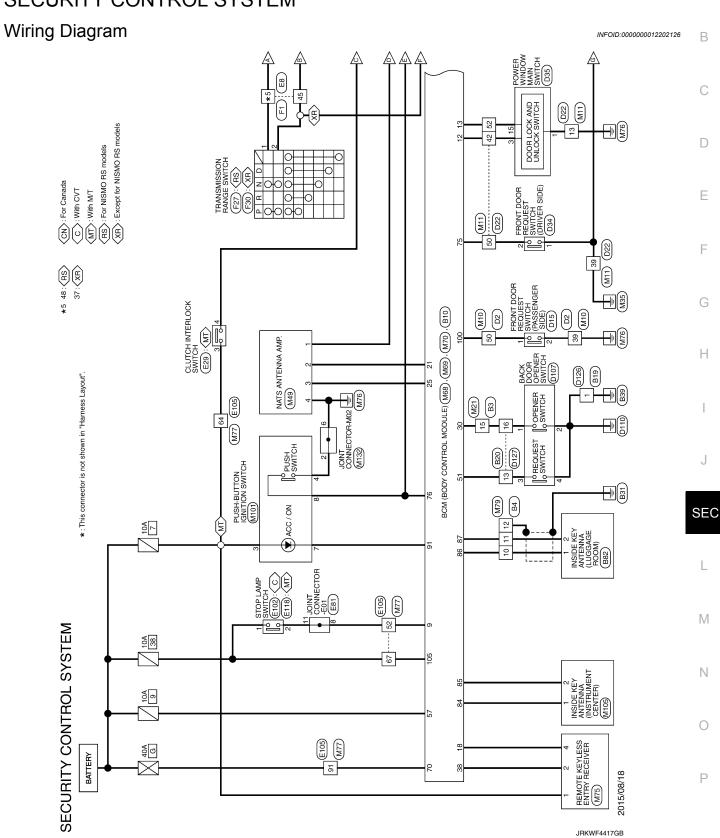
INFOID:0000000012202125

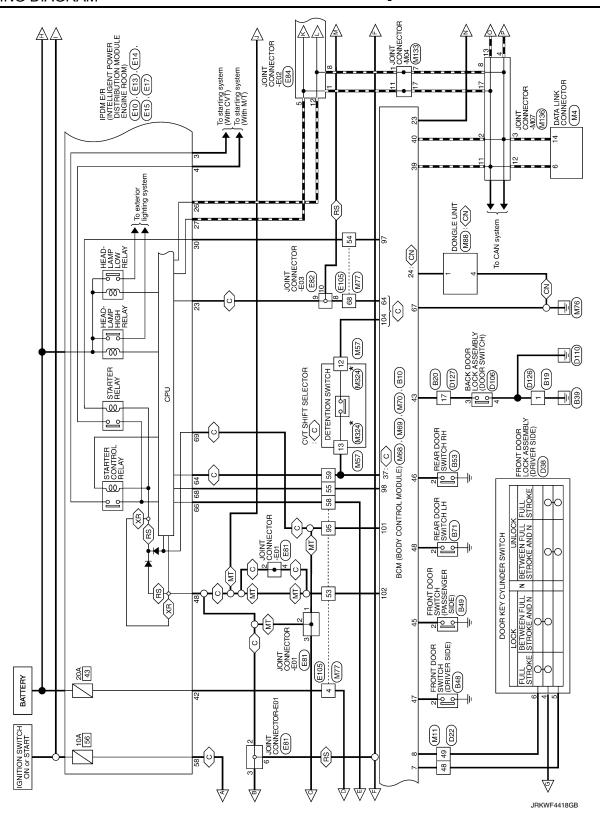
	ECU	Reference
	Reference Value	EC-96, "Reference Value"
ECM	Fail-safe	EC-111. "Fail Safe"
LOW	DTC Inspection Priority Chart	EC-113, "DTC Inspection Priority Chart"
	DTC Index	EC-115, "DTC Index"
	Reference Value	PCS-17, "Reference Value"
IPDM E/R	Fail-safe	PCS-23. "Fail-safe"
	DTC Index	PCS-24, "DTC Index"
	Reference Value	BCS-39, "Reference Value"
BCM	Fail-safe	BCS-60. "Fail-safe"
DOW	DTC Inspection Priority Chart	BCS-61, "DTC Inspection Priority Chart"
	DTC Index	BCS-62, "DTC Index"

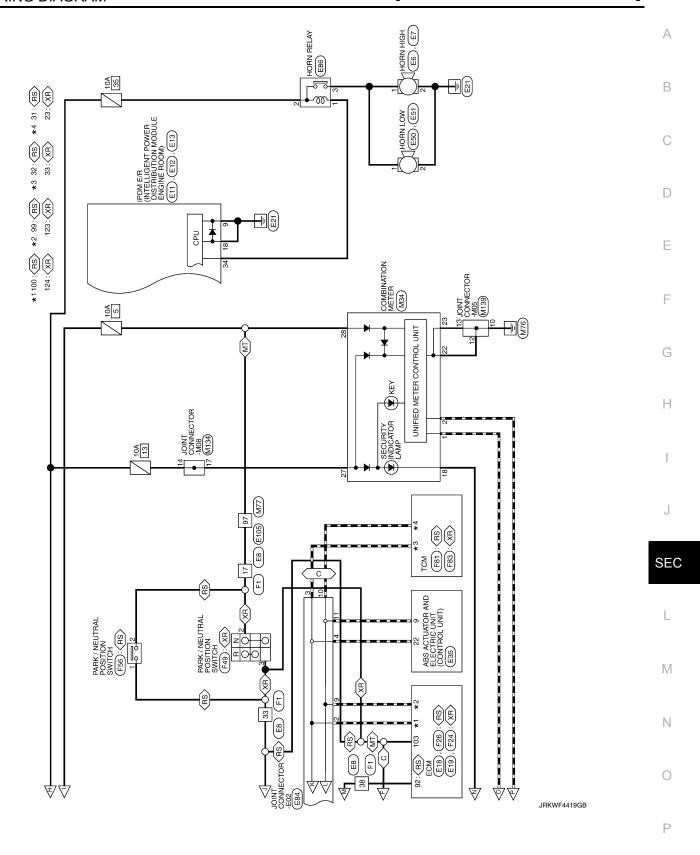
Α

WIRING DIAGRAM

SECURITY CONTROL SYSTEM







Connector No. 848	9.	Connector Type A03FW		#3.		Terminal Color Of Signal Name [Specification] No. Wire	2 SB .		Connector No. B49	Connector Name FRONT DOOR SWITCH (PASSENGER SIDE)	Π	Connector Type A03FW	€	The state of the s	H.S.	2	<u>.I.</u>]	-	lerminal Color Of Signal Name [Specification]	H			Connector No. B53	Connector Name REAR DOOR SWITCH RH	Connector Type A02EM				·en	C	7	
Connector No. 819	Je .	Connector Type M02MB-P-LC	香	1.5.		Terminal Color Of Signal Name [Specification]		2 R ·		Connector No. B20	Connector Name WIRE TO WIRE	T	٦		1 0 3 4 5 6	, I . I	9 10 11 12 13	×		Terminal Color Of			7 GR -	. 51 8		+	× >	14 SHIELD .	15 W -	16 L .	Н	18 GR -	
Terminal Color Of	_	3 GR .	5 BR .	110 V	Connector No. B10	Connector Name BCM (BODY CONTROL MODULE)	Connector Type FEA09FB-FHA6-SA	•	Ę	74 74 04 04 14	51 53 54 55			Terminal Color Of		43 P BACK DOOR SW	44 LG REAR WIPER STOP POSITION	Я	91	47 SB DKIVER DOOR SW 48 BR REARIH DOOR SW		51 Y BACK DOOR REQ SW	GR	а	SS G RR DOOR UNLK OUTPUT								
SECURITY CONTROL SYSTEM Connector No. 183	Je .	Connector Type TH32MW-NH	色	H.S. 12345678901121212141518 171819202122232122232122323013		Terminal Color Of Signal Name [Specification] No. Wire	\$	11 R	╁	Н	15 L	+	1/ Lb	+	20 > 02	26 Y	27 SHIELD -		+	30 B	ł		Connector No. 84	Connector Name WIRE TO WIRE	-	1			ŀ	1 2 3 4 5 6	7 0 0 141 140	7 0 3 10 11 17	

JRKWF4420GB

SECURITY CONTROL SYSTEM

	25 R	\mathbb{H}	+	42 R	GR		+	3 9	48 L .	+	52 88	1	- 1	Connector No. D34	Consector Name (BOALT DOOR BEOLIEST SWITCH (DRIVER SIDE)	П	Connector Type RK02FGY	d	in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section in the second section in the second section is a section section in the second section in the second section is a section section in the second section in the section is a section section in the section in the section in the section is a section section in the section in the section is a section section in the section in the section is a section in the section in the section in the section in the section is a section section in the section in the section is a section in the section in the section in the section in the section is a section in the section in the section in the section in the section is a section in the section in the section in the section in the section is a section in the section	≪ Sil		((1 2)))			Terminal Color Of Signal Name [Specification]	NO. WITE	- ·				Connector No. D35	Connector Name POWER WINDOW MAIN SWITCH		Connector Type NS16FW-CS	ď	彦		7 6 5 4 3 2 1	,,	0 0 0 10 17 10 18														
	Т		Connector Type RK02FGY)	,	Terminal Color Of Signal Name [Specification]	t	H			Connector No. D22	Connector Name WIRE TO WIRE		Connector Type TH40FW-CS15	q		15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	46 45 44 43 43 41 40 39 38 37 38	ड्यंत्राधायकाचामस्य । व्याजायकाचा				_		$^{+}$	+	3 SB	4 V	+	+	\dashv	10 Y	\dashv	\dashv	13 B .	Н	15 P .	16 LG .	Н	+	19 V	1									
	Т		Connector Type TH40FW-CS15		15 14 13 12 11 10 9 8 7 6 5 4 3 2 1		इस्टीमाडांबर्डां श्री अपन्य आधार का उम्मे			Terminal Color Of Signal Name [Specification]	$^{+}$	H	Н	4 V	-	14 SB -	15 1 .	4	+	+	19 R	+	5 57	+	39 B	40 LG	- 4	+	+	45 W	46 BG	50 P																							
SECURITY CONTROL SYSTEM	Terminal Color Of Signal Name [Specification]	Н		Connector No. 871	ē	Т	ation type		υ·1	Ī	7			Terminal Color Of Signal Name (Specification)		2 BR -		ſ	Connector No. B82	Connector Name INSIDE KEY ANTENNA (LUGGAGE ROOM)	Т	Connector Type RKUZFL	₫.	V ANT	≪	J.)			Terminal Color Of Signal Name [Specification]		, , , , , , , , , , , , , , , , , , ,	. LG .																					
																																																			JRK	WI	- 44	210	ЭВ

Revision: November 2015 SEC-33 2016 JUKE

Α

В

С

D

Е

F

G

Н

J

SEC

L

 \mathbb{N}

Ν

0

SECURI	ITY (SECURITY CONTROL SYSTEM					
=	Color O	Of Signal Name (Specification)	Connector No.	D106	Connector No.	D126	Connector No. E6
No.	Wire		Connector Name	BACK DOOR LOCK ASSEMBLY	Connector Name	WIRE TO WIRE	Connector Name HORN HIGH
2	SB	FRONT FOWER WINDOW	Connector Type	NS04FW-CS	Connector Type	M02FB-LC	Connector Type P01FB-A
3	œ		[
4	۵	ENCODER SIGNAL 2	E		E		
2	Λ	ENCODER SIGNAL 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u>[</u>	2	[
9	٨	REAR POWER WINDOW MOTOR RH DOWN SIGNAL	ŽĮ.		Ĉ.	F	T
7	91	П		4 3 2 1		2 1	-
8	BG	Н					
6	9	REAR POWER WINDOW MOTOR LH UP SIGNAL					
10	-	IGNITION POWER SUPPLY					
12	PT	ENCOD	Terminal Color Of	of Signal Name (Specification)	Terminal Color Of	Signal Name (Specification)	Terminal Color Of Signal Name (Sperification)
14	U	ENCODER POWER SUPPLY	No. Wire		No. Wire	incompanies of the second	No. Wire
15	æ		1 GR		1 8		1 6
16	≯	FRONT POWER WINDOW MOTOR (PASSENGER SIDE) UP SIGNAL	2 B		2 R		
			+				
			4 8	,			Connector No. E7
Connector No.	ا و	D38			Connector No.	D127	Connector Name HORN HIGH
Connector Name	Vame	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)	Connector No	7000	Connector Name	WIRE TO WIRE	Т
Connector Type	, vuo	S87X59903	CONTRECTOR INC.	010/	Connector Tune	NH10EWCS10	
	3		Connector Name	BACK DOOR OPENER SWITCH	1		Œ
Œ			Connector Type	TK06MW-1V	42		The state of the s
F.		[主	6 5 4 3 2 1	H.S.
i.S.		Į.	6	[1.5		2
		123456	H.S.	1		20 19 13 12 11 10 9 8 7	
				2 3 4 5		18 17 16 15 14	
				† >			Terminal Color Of Simple Many (Specification)
le le	Color O	Of Signal Name [Specification]) ler	Signal Name [Specification]	Wire
NO.	wire		Towns of		NO. WIFE		2 GK
1 6	> 5			Signal Name [Specification]	4 88 ×		
8	U		╁		91 8		Connector No. E8
4	60		2 B		6		Γ
. 2	-		3 SB		╁		Connector Name WIRE TO WIRE
. 9	~		ł		╀		Connector Type SAA36MB-RS10-SJZ2
			>		13 \$8		
			9		╀		(17) 3141 F 617 819
					15 γ		101111213141314131413
					16 L		1.5.
					17 P		19 26 27 28 20 30 30
					18 v		00 62 02 12 02
							31/20/20 94/20/30/30/30/30

JRKWF4422GB

SECURITY CONTROL SYSTEM

NS12K NS12K NS12K NS16F	62 61 60 59 58 57 56 55 54	Signal Name [Specification]								
Connector Name Connector Name Connector Type 1.		nal Color Of Wire	88	> ∪	_	٥	+	88	Н	91
Connector Connector Connector Connector S		Terminal No.	48	50	51	25	55	95	22	28
S S S S S S S S S S S S S S S S S S S	No. Wire Signal Name (Specification) 23 SB - 25 BR - 26 PP - 25 PP - 26 PP - 26 PP - 27 PP - 2	+	30 V	31 Y	33 G	34 L				
1	#S.	14		Terminal Color Of		9 8/7	10 L			
SECURITY CONTROL SYSTEM Terminal Cobe of Signal Manne [Specification] 1	- [Except for NISMO RS] - [For NISMO RS]	- [Except for NISMO RS]	- [For NISMO RS]	- [Without Intelligent Key] - [With Intelligent Key]		4			- [For NISMO RS]	- [Except for NISMO RS]
Mine of New Orlows (New Orl New Orl Ne	0 4 0 >	- 88 -	*	J 93	SB	80 0	>	1	BR	×
New York	30 31 32	33	34	37	38	39	40	42	43	43

SEC

J

Α

В

С

 D

Е

F

G

Н

L

 \mathbb{M}

Ν

0

JRKWF4423GB

	9 P CAN-L	11 BR DP.RR	12 W DS FR	13 G VCC	14 R SERIAL+	15 Y DS.RR	16 V IGN	17 W REVERSE SIGNAL	21 Y DPFR	22 L CAN-H	23 LG DP.FL	26 G RR_LH_SENS_VB	27 BR DS.FL	28 B GND	29 W SERIAL-	30 BE RR_LH_SENS_SIG		- 14 - 14 - 17 - 17 - 17 - 17 - 17 - 17	Ī	Connector Name HORN LOW	Connector Type P01FB-A				<u> </u>	=1) ler	No. Wire		Connector No ES1	Γ	Connector Name HORN LOW	Connector Type P01FB-A					6	<u>.</u>				
	SENSOR GROUND	POWER SUPPLY FOR ECM	SENSOR POWER SUPPLY	ECM GROUND	SENSOR GROUND	ECM GROUND	ACCELERATOR PEDAL POSITION SENSOR 1	SENSOR GROUND	ECM GROUND			E29	HOLIWIS ADO INSLINI HOLI ID	COLUMN TWO CAN SALL CHI	M04FW-LC		[_	*]]	Ju	Signal Name (Specification)					635	T ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	RH28FB-NU4-UH			1 2 5 6 8 9 11 12 13 14 15 16 17	3 4 NZZ BZZ C				Signal Name (Specification)	francounantel augus musico	BAT (MTR)	BAT (SOL)	GND (SOL)	GND (MTR)	VDC_OFF_SW	ASCD_CANCEL_SW
	144 Y	145 G	146 V	147 GR	148 Y	149 GR	150 R	151 GR	152 GR			Connector No.	Connector Name	CONTRACTOR INGINE	Connector Type	4	厚	S					ler	No. Wire	+	4 BR		Connector No.	Connector Name	Connector Type		唐	is.					ler O	No. Wire	1 W	2 L	3 B	+	+	9
	GR SENSOR GROUND	,	GR CLUTCH PEDAL POSITION SWITCH	O IGNITION SWITCH	P ASCD STEERING SWITCH	B SENSOR GROUND	BR ECM RELAY (SELF SHAT-OFF)	R STOP LAMP SWITCH	G BRAKE	٨	0	W ACCELERAT	λ.	G POWER SUPPLY FOR ECM	G THROTTLE CONTROL MOTOR POWER SUPPLY	GR	GR	+	× 8	5		Connector No. E19	Connector Name FCM	╗	Connector Type RH24F8-R28-L-LH		124124 133 144 145 149	1.	_	1 124 124 134 144 145 125]	All Color Of Signal Name [Specification]	L EVAP CONTROL SYSTEM PRESSURE SENSOR		L CAN COMMUNICATION LINE (CAN-H)	9	SB FUEL TANK TEMPERATURE SENSOR	GR CLUTCH	91	P AS	8	œ	υ.	+	0
	105	106	108	109	110	111	112	115	116	117	118	119	120	121	122	123	124	125	126] T	1	Connec	Connec		Connec	Q	季	Ħ	П			Terminal	121	123	124	125	128	132	133	134	135		_ _	 	147
SECURITY CONTROL SYSTEM							E17		ITAM STATUTE CONTRACTOR MODEL CANDING AND	TH10FB-NH			/	67 RB BB BA BB		72 69 68		7	Of Signal Name [Specification]				·						E18	ECM	RH24FGY-RZ8-R-RH		124 1201118118108104100	127 123 119119111 100 99	126 122 118 110 106 108	125 121 117 109 108 101			Of Signal Name [Specification]	_		CAN COMMUNICATION LINE (CAN-H)	SENSOR POWER SUPPLY	+	
SECURITY	S9 V			62 BE			Connector No.		CONTRACTOR INSTITUTE	Connector Type		F	2	ė					No Mire	+	╁	W 65	99 9	\dashv	+	+	72 W		Connector No.	Connector Name	Connector Type	€	卖	1.5					ler	-	99 P	4	101 V	+	103 BK

JRKWF4424GB

SECURITY CONTROL SYSTEM

	2 >	, A 65	, , , , , , , , , , , , , , , , , , ,		-			. 8S 89	70 BR	H	72 V		pecinication) 76 R -	. 8 B	. W 62	- 1 08	83 Y	84 1.6	85 р	. 38 98	- SHIELD	91 6	92 R		96	. * 97	3 8	66			Connector No.	Connector Name STOP LAMP SWITCH	Connector Type M02FB-LC	á								Terminal Color Of	No. Wire Signal Name (Specification)	1 w		2 R .
Connector No 16102	Τ	Connector Name STOP LAMP SWITCH	Connector Type M04FW-LC	1			13.4	<u> </u>	7 7			Terminal Color Of	No. Wire Signal reame [3]	. w	2 R	3 BE	4 P			Connector No. E105	TOWN OF JOHN		Connector Type TH80MW-CS16-TM4	4			2				Terminal Color Of Signal Name [Specification]	+	4 γ	- д 9	4	11 W	12 B -	13 R	14 SHIELD .	34 BE .	~	36 8	з7 Р	. S2 R	ŀ	53 BR
Connector No FRA	T	Connector Name JOINT CONNECTOR-E02	Connector Type A12FL	1				1211110 9 8 7 6 5 4 3 2 1				Terminal Color Of Circulate Colo	No. Wire Signal Name [Specimenton]	1 L .	2 1 .	3 1	4 L		- 1 9	7 P	- d 8	. d 6	10 P .	11 P .	12 P ·		Ī	Connector No. E86	Connector Name HORN RELAY	Connector Type Relay_24381_C990A		THE STATE OF THE S	2	- 0				Terminal Color Of Cianal Manage (Canada and Canada and	No. Wire Signal Ivanie (Specification)	1 1	2 BR -	. 9				
SECURITY CONTROL SYSTEM	Wire Signal Name [Specification]	7 GR			Connector No. E81	Connection Management Contraction Co.		Connector Type A12FL					12 11 10 9 8 6 4 3 2 1				al (No. Wire Specification	BR -		BR .	BR .						~		Connector No. E82	Connector Name JOINT CONNECTOR-E03	Connector Type RH10FB				9		N 8 6 0 Z			Terminal Color Of	Wire Signal Name [Specification]	S8		Ļ	

J

Α

В

С

 D

Е

F

Н

SEC

L

 \mathbb{N}

Ν

0

JRKWF4425GB

SECO	֡֝֟֝֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	SECURITY CONTROL SYSTEM									
Connector No.	No.	F1	32	91		7.1	_	SENSOR GROUND	Connector No.	No.	F26
Connector Name	. Name	WIRE TO WIRE	33	BR		72	89	SENSOR GROUND	Connector Name	Name	ECM
			34	9	- [For NISMO RS]	73	GR	SENSOR POWER SUPPLY			
Connector Type	Type	SAA36FB-RS10-SJZ2	34	۵.	- [Except for NISMO RS]	74	80	A/F SENSOR 1	Connector Type	Type	RH40FBR-RZ8-L-RH
Œ.	_	No Experience	37	υ <u>θ</u>	- [Without Intelligent Key]	75	- 2	MULTI-WAY CONTROL VALVE POSITION SENSOR	Œ		
手		181716151413131110	è e	5	[AAIGHINGHIRGHIR WEA]	, c	، د	INTEREST LEWISERALONE SENSON 2	至		C 2 22 02 83 03 02 02 02 00 80 00 00 00
H.S.		24 23 22 21 20	39	e B		62	4 ≥	A/F SENSOR 1	HS.		79 75 67 63 59 55
		30 29 28 27 28 19	40	-		8	>	THROTTLE POSITION SENSOR 2			94 90 86 82 74 62 58 54 50
			41	BB	- [For NISMO RS]	81	æ	ECM RELAY (SELF SHUT-OFF)			85 81 77 73 69 53 49
		्राह्म का	41	>	- [Except for NISMO RS]	82	>	FUEL PUMP RELAY			
			42	_	- [Except for NISMO RS]	83		SENSOR POWER SUPPLY]
Terminal	Color Of)f	42	Μ	- [For NISMO RS]	88	Μ	HEATED OXYGEN SENSOR 2	Terminal	Color Of	Control Name (Control
No.	Wire		43	_	- [For NISMO RS]	82	~	SENSOR GROUND	No.	Wire	oignai ivame [apecincation]
1	۵		43	Μ	- [Except for NISMO RS]	88	9	THROTTLE POSITION SENSOR 1	49	9	FUEL INJECTOR DRIVER POWER SUPPLY 1
2	٦		44	BR	- [Except for NISMO RS]	95	91	IGNITION SIGNAL NO.2	20	8	ECM GROUND (HIGH PRESSURE FUEL PUMP)
e	Μ	- [Except for NISMO RS]	44	9	- [For NISMO RS]	96	ď	IGNITION SIGNAL NO.1	51	GR	THROTTLE CONTROL MOTOR (OPEN)
3	>	- [For NISMO RS]	45	BR	,	97	>	THROTTLE CONTROL MOTOR RELAY	25	BR	THROTTLE CONTROL MOTOR (CLOSE)
4	BG	- (For NISMO RS)	46	æ		86	ч	ENGINE OIL PRESSURE CONTROL SOLENOID VALVE	23	BR	FUEL INJECTOR DRIVER POWER SUPPLY 2
4	GR	- [Except for NISMO RS]	47	>		101	SB	IGNITION SIGNAL NO.4	54	œ	HIGH PRESSURE FUEL PUMP DRIVER POWER SUPPLY
2	91		48	GR	- [With Intelligent Key]	103	BR	PNP SIGNAL	55	BR	HIGH PRESSURE FUEL PUMP (HI)
7	9		48	Å	- [Without Intelligent Key]	104	d	IGNITION SIGNAL NO.3	95	٨	HIGH PRESSURE FUEL PUMP (LO)
10	~	- [Except for NISMO RS]				105	BR	TURBOCHARGER BYPASS CONTROL VALVE	28	IJ	SENSOR POWER SUPPLY
10	>-	- [For NISMO RS]				106	œ	ELECTRIC WASTEGATE CONTROL ACTUATOR POWER SUPPLY	65	_	SENSOR GROUND
11	9	- [Except for NISMO RS]	Connector No.	r No.	F24	107	ζ١	ELECTRIC WASTEGATE CONTROL ACTUATOR MOTOR (+)	09	*	SENSOR GROUND
11	>	- [For NISMO RS]	Connection Mount	Money	2400	108	1/d	ELECTRIC WASTEGATE CONTROL ACTUATOR MOTOR (-)	62	8	SENSOR POWER SUPPLY
12	9			allipa	ECIM	110	8	ECM GROUND	63	BR	CAMSHAFT POSITION SENSOR (PHASE)
13	m	- [Except for NISMO RS]	Connector Type	r Type	MABSSFB-MEB10-LH	111	×	INTAKE VALVE TIMING CONTROL SOLENOID VALVE	64	~	CRANKSHAFT POSITION SENSOR (POS)
13	BG	- [For NISMO RS]		_		112	9	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE	29	91	EXHAUST VALVE TIMING CONTROL POSITION SENSOR
14	_	- [For NISMO RS]				113	>	POWER SUPPLY FOR ECM (ENGINE OFF TIMER)	89	>	SENSOR POWER SUPPLY
14	>	- [Except for NISMO RS]			56 616677 81 186771711711	114	_	INTAKE VALVE TIMING INTERMEDIATE LOCK CONTROL SOLENDID VALVE	69	_	EVAP CANISTER VENT CONTROL VALVE
15	BR		2		57 68727768 69 19411	115	_	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE	72	SR	SENSOR POWER SUPPLY
16	-					116	U	A/F SENSOR 1 HEATER	73	H	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
17	88				22 H H H H H H H H H H H H H H H H H H	117	g	HEATED OXYGEN SENSOR 2 HEATER	74	æ	SENSOR GROUND
18	G					118	g.	THROTTLE CONTROL MOTOR POWER SUPPLY	75	G	THROTTLE POSITION SENSOR 1
19	g					119	GR	THROTTLE CONTROL MOTOR (OPEN)	9/	*	THROTTLE POSITION SENSOR 2
20	BR		Terminal	Color Of	(- in - i	120	BR	THROTTLE CONTROL MOTOR (CLOSE)	77	>	THROTTLE CONTROL RELAY
21	U		.oN	Wire	olginal Name [opecification]				79	BG	BATTERY TEMPERATURE SENSOR
22	BR	- [For NISMO RS]	99	æ	EGR VOLUME CONTROL VALVE POWER SUPPLY				80	9	BATTERY CURRENT SENSOR
22	>	- [Except for NISMO RS]	22	Μ	EGR VOLUME CONTROL VALVE MOTOR (+)				81	М	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
23	8		28	В	EGR VOLUME CONTROL VALVE MOTOR (-)				82	ď	IGNITION SIGNAL NO:1
5.4	ď		09	8	ECM GROUND				83	9	G SENSOR
52	ч		61	Μ	SENSOR POWER SUPPLY				84	Ь	FUEL TANK TEMPERATURE SENSOR
97	8		63	٦	SENSOR GROUND				85	9	EXHAUST VALVE TIMING CONTROL SOLENDID VALVE
22	8		64	SHIELD	SHIELD				98	91	IGNITION SIGNAL NO.2
28	В		9	В	WASTEGATE CONTROL VALVE POSITION SENSOR				87	BR	SENSOR GROUND
53	W		99	9	SENSOR POWER SUPPLY				88	۸	INTAKE AIR TEMPERATURE SENSOR 2
30	GR	- [Except for NISMO RS]	- 67	BR	CAMSHAFT POSITION SENSOR				06	Ь	IGNITION SIGNAL NO.3
9.0	٣	- [For NISMO RS]	89	GR	EGR VOLUME CONTROL VALVE POSITION SENSOR				92	æ	CRANKING ENABLE SIGNAL
31	BG	4	69	91	EXHAUST VALVE TIMING CONTROL POSITION SENSOR				94	SB	IGNITION SIGNAL NO.4

JRKWF4426GB

SECURITY CONTROL SYSTEM

Α

В

С

 D

Е

F

G

Н

J

SEC

L

 \mathbb{N}

Ν

0

Р

The control of the		COLLING: F49	Connector No. F81			COILINECTO INC.	F83
Concept Year Conc					Connec	tor Name	TCM
Fig. 1 F	F27	T		FB-RZ8-L-RH	Connec	tor Type	RH40FB-RZ8-L-RH
Signification Concept Name Con	TRANSMISSION RANGE SWITCH		₫		<u>@</u>		
The A A A A A A A A A	RKO8FG	S	v <u>i</u>	25 26 27 28 29 30 25 26 27 28 29 30 15	Ŧ	ró.	33 34 35 37 38 39 40 47 23 24 26 30 45 16 17
Signal Name (Specification) Training Coop of Training Coop of	764B)		345 8910			4567 41
1 6	611213	Color Of Wire	-	Signal Name [Specification]	Termir No.	-	
Concector Anna Fast Concector Anna Concetor Anna Concector Anna Concetor Anna Concector Anna		H	H	RRANGESW	2	*	
Connector No. Signal Name Specification Connector No. Signal Name Specification Connector Name Date Date Connector Name Date Date Connector Name Date	Signal Name [Specification]	+	+	D RANGE SW	4 10	≥ 2	N RANGE SW
Connector No. Folk		\cdot	Н	r	9	9	R RANGE SW
Connector Name Pate 1/4 (NUTRAL POSITION SWITCH 19 6 6 6 6 6 6 6 6 6		Γ	+	GROUND	_ :	g >	P RANGE SW
Connector Types Prof. National Conforts Prof. National Conforts		Т	╁	CHIP SELECT (SEL 1)	12	- 85	CVT FLUID TEMPERATURE SENSOR
Country Coun			H	DATE I/O (SEL 3)	16	Ь	SECONDARY PRESSURE SENSOR
13		Type	+	P RANGE SW	17	۵	PRIMARY PRESSURE SENSOR
Signal Pame		4	+	SECONDARY PRESSURE SENSOR	23	۰ >	INDIT SPEED SENSOR
Signal Name Specification Signal Name Specification Specificat		THE THE PARTY OF T	╀	SENSOR GROUND	26	. 9	SENSOR POWER SUPPLY
Carry Carr		HS.	┞	SENSOR POWER SUPPLY	30	>	LINE PRESSURE SOLENOID VALVE
Terminal Color Of Term		(211)	Н	STEP MOTOR D	33	_	CAN-H
Terminal Color Of No. Signal Name Specification 32 1 C. C. C. C. C. C. C.	ASMISSION RANGE SWITCH		-	STEP MOTOR C	34	æ	OUTPUT SPEED SENSOR
Terminal Color Of Signal Name [Specification] 31			7	STEP MOTOR B	35	. BG	PRIMARY SPEED SENSOR
No Wire Signal Name (Specification) 32 1 1 1 1 1 1 1 1 1	John-H54	Color Of	+	SIEPIMOIORA	38	_ 9	TOBOLIE CONVERTER CLITCH SOLENOID VA
1 BR 2 58 2 2 2 2 2 2 2 2		Wire	+	CAN-L	8 8	2 0	SECONDARY PRESSURE SOLENOID VALVE
2 SS SE STCONDARFERED SINGNAL SE SE SE SE SE SE SE S	П	t	┢	PRIMARY SPEED SENSOR	40	>	PRIMARY PRESSURE SOLENOID VALVE
33 1 100/CLU STEETCROUND VALVE 45 8 8 9 9 9 9 9 9 9 9		Н	Н	SECONDARY SPEED SENSOR	41	В	GROUND
38 W STGCUNOWRETS GLENOL DALVE	(2 6 5 1		_	LOCK-UP SELECT SOLENOID VALVE	42	8	GROUND
29 W SECURATIVE STATE ST			o :	QUE CONVERTER CLUTCH SOLENOID VALVE	45	> ;	BATTERY POWER SUPPLY
42 8 00000000000000000000000000000000000			* >	SECONDARY PRESSURE SOLENOID VALVE	46	8 5	BATTERY POWER SUPPLY
45 16 16 16 16 16 16 16 1			, ,	LINE PRESSURE SULENOID VALVE	4	2 :	IGNITION POWER SUPPLY
4 d d d d d d d d d d d d d d d d d d d	Signal Name [Specification]		8	GROUND	48	*	IGNITION POWER SUPPLY
	ograf Name [specification]		PBG 4	IGNITION POWER SUPPLY TTERY POWER SUPPLY (MEMORY BACK-UP) IGNITION POWER SUPPLY			

JRKWF4427GB

Revision: November 2015 SEC-39 2016 JUKE

Connector No. M34	4		Connector Type TH40FW-NH			20 19 18 17 16 15 14 13 11 10 9 8 7 6 5 4 2 1	(3) 이 (3) 이 (3) (3) (3) (3) (3) (3) (3) (3) (3) (3)		Transital Calar Of		1 L CAN-H	2 P CAN-I.	>	6543	22[21[20[19[18]17]	 9 W SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	10 SB	11 6	13 GR ILLUMINATION CONTROL	د ع	16 W MANUAL MODE SHIFT DOWN SIGNAL	G WASH	~	19 GR AMBIENI SENSOR SIGNAL	c 00		8	I FUELLE	8	V PADDLE	LG	SR :	,	31 P A/CAUTO AMP. CONNECTION RECOGNITION SIGNAL 35 V AMAILIAI MADDE SIGNAL	- (4	0 0				
44 P	45 G	+	47 GR .	49 R	Н	52 BR		Connector No. M21	Connector Name WIRE TO WIRE	Connector Type TH32FW-NH	٥	I I		161514131211109	32 31 30 29 28 27 26 25 24 23		ler	Wire	TO SHIELD	Ŧ	13 W -	14 B .	4	16 P	+	H	20 R	26 R .	27 SHIELD -		+	+	32 W							
,		BR .		. ^	. 91	P			M11	e WIRE TO WIRE	TH40MW-CS15				16 17 18 19 27 27 22 22 25 25 25 25 25 25 25 25 25 25 25			Color Of Signal Name (Specification)	a.	¥5 ≫	. 88				2 >	GR	GR				SHIELD -			A 88		- *	8	^		GR .
38	Н	+	41	ł	Н	46 50	$\frac{1}{2}$		Connector No.	Connector Name	Connector Type	Q	医	H.S.				na P	NO.	2	3	4	+	× 0	+	ł	12 (13	14	┪	7	+	+	19	+	+	+	H	41	42 (
SECURITY CONTROL SYSTEM Connector No. M4	Connector Name DATA LINK CONNECTOR		Connector Type BD16FW		(3)	<u> </u>				Signal Name [Specification]				w 5				M10	Connector Name WIRE TO WIRE	Connector Type TH40MW-CS15			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11६ गत्रे १६ १६ १६ १६ १६ ४६ ४६ १६ ४६ १६ ४६ ४६ ४६ ४६ ४६ ४६ ४६ ४६			•	Terminal Color Of Signal Name (Specification)	Wire		9		>	90		SHELD		9]	

JRKWF4428GB

Connector Name Natz AvriBNAA AMP Connector Name BCM (BOD)	ECM (BODY CONTROL MODULE) THAGFE-MH Signal Mame (Specification) Signal Mame (Specification) COMBI SW INPUT 5 COMBI SW INPUT 3 COMBI SW INPUT 3 COMBI SW INPUT 4 COMBI SW INPUT 3 COMBI	Connector Type Connector Type Connector Type Color Of the Color Of the Color Of the Color Of the Color Of Color		88 88 88 88 88 88 88 88 88 88 88 88 88	READ BENET ANT. ROOM ANTT: R
THOLFWAHH THOL		Terminal Color C No. No. C C C C C C C C C	FEAGDSWV-PHAG-SA	+++++++++++++++++++++++++++++++++++++++	HOOM ANT 1 ROOM ANT 2 ROOM ANT 3 ROOM ANT 4 ROOM ANT 4 ROOM ANT 4 PUSH SHOW IN IGN SWILL GWD PUSH SHOW IN IGN SWILL GWD ROOM ANT 6 ROOM ANT 6
		initial 5	(1/4) TAB.	 	ROOM MATT? FOOM MATT? FOOM MATT. PUSHERIN IGN SWILL PARE FOOT ON HOD PUSHERIN IGN SWILL GND LICKY WARNE BUTZER ACC TELLAY CONT GIAN REALY TOWN FOR STORM IN MODELS RATHER GRANT MODELS RA
Terminal Name Specification No. Wire	Signal Name (Speeffication) Si	inal inal inal inal inal inal inal inal	65 66 67 68 68 68 68 68 68		PUSS GOOD ANT AT THE PROPERTY OF THE PROPERTY
1234	Signal Name Specification COMBISS WINPUT A COM	Freminal Color C No. Wire Size No. Wire Size No. Size Siz	Sgnal Name (Specificat Sgnal Name (Specificat INT ROOM LAMP PUR SASS DOOR HUN COTT THAN SIG BH OUTPL INT ROOM LAMP DOOR ALM INT ROOM LAMP COTT INT ROOM LAMP COTT INT ROOM LAMP COTT REVIESS SW ALL DOOR HUN COTT DR DOOR HUN COTT BAT INT SASS SASS SASS SASS SASS SASS SASS SA		ACC, DONING PROPERTY OF THE PR
1 2 3 4	Signal Name [Specification] COMBI SW INPUT 5 COMBI SW INPUT 3 C	Terminal Color (No. Wire St. 57 P. 59 C. 60 V. 61 C. 61 W. 62 C. 63 B. 64 C. 65 C. 6	65 66 77 68 69		HOSE-WING ISSUE OF THE STATE OF
MS7 Signal Name Specification MS7 Colf MS9 MS	Signal Name (Specification) COMBIS SW INPUT 5 COMBIS SW INPUT 3 FREY CH LOCK SW FREY SW INFOCK FREY SW INFOCK	Terminal Color C No. Wire	M70		HEW WARM BUZER ACC RELAY CONT STARTER RELAY CONT ION RELAY CONT ION RELAY (FIS) ION RELAY (F
Pre Signal Name Specification Pre Pr	Signal Name [Specification] COMBI SW INPUT 5 COMBI SW INPUT 4 COMBI SW INPUT 3 C	Control Color Co	M70	++++++++++	STANDERS RELAY CONT GIAN RELAY CONT GIAN RELAY (PONT GIAN RELAY (PONT GIATO HINTENSO SEN GIAS MAT MODELS) NEUTRAN SEN FOR MAT MODELS NEUTRAN SEN FOR MAT MODELS NEUTRAN SEN FOR MAT MODELS)
No. Signal Name Specification No. Wive No.	Signal Name (Specification) COMBI SWI INPUT 5 COMBI SWI INPUT 3 COMBI SWI INPUT 3 COMBI SWI INPUT 2 COMBI SWI INPUT 3 COMBI SWI INPUT 3 COMBI SWI INPUT 3 COMBI SWI INPUT 3 COMBI SWI INPUT 4 COMBI SWI INPUT 4 COMBI SWI INPUT 5 COMBI SWI INPUT 5 COMBI SWI INPUT 5 COMBI SWI INF SWI INPUT 5 COMBI SWI SWI SWI SWI SWI SWI SWI SWI SWI SW	Terminal Color (Wire S 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	M70		IGN RELAY (IPDM E/N) CONT IGN RELAY (IPDM E/N) CONT IGN RELAY (IPDM E/N) CONT IGN RELAY (IPDM E/N) IGN RELAY (IPDM E/N) IGN SEV NOOR (IECRET ICDM MAT MODELS) INTERNAL NOOR (IPDM MAT MODELS) INTERNAL NOOR (IPDM MAT MODELS)
No. Signal Name Specification No. Wire	Signal Name Stoperfication] COMBIS SWI INPUT 5 COMBIS SWI INPUT 3 FREY CRILOCK SWI FREY SWI INFOCK FREY SWI INFOCK FREY SWI INFOCK FREY SWI INFOCK FREY SWI SWI SWI FREY SWI SWI FREY SWI SWI FREY SWI SWI FREY SW	No. Wire No. Wire No. No	M70		IGN RELAY [F/8] CONT PASS DOOR REG XW CLUTCH INTEROCK SW [FOR MAT MODELS] IGN SPLY NO.2. [EXCEPT FOR MAT MODELS] PAN POSTION I EXCEPT FOR MAT MODELS] PAN POSTION I EXCEPT FOR MAT MODELS]
NEAT 2 1	COMBIS SWINPUTS STOP LAME SWINC FECKLUMIC SWIN STOP LAME SWINC COMBIS SWINPUTS	Sign P Sign Sig	INT BOOM LAWP PWR SPLY BASS DOOR RUNK OUTPUT TURNS SIG HOUTPUT TURN		CLUTCH INTERLOCK SWI FOR MAT MODELS IGN SEY NOD. [EXCEPT FOR MAT MODELS] INTERLOCK SWI FOR MAT MODELS] PAN POSITION [EXCEPT FOR MAT MODELS] REPRESENTED NI EXCEPT FOR MAT MODELS]
MS7 CAN A CAN	COMBIS SWINDERT A STOP LAMP SWI STOP L	57 P 59 58 69 58 60 60 64 8 65 V 66 C 67 8 67 8 68 C 67 8 68 C 63 C 7 P 7 P 7 P 7 P 7 P 8 P 10 P 10 P 10 P 10 P	PASS DODGE NUME COUNTY THENS SIG LIH OUTPUT THENS SIG LIH OUTPUT INTRODUCE SWA INTRODUCE SWA ALL DODGE UNCE CUTTUT DR DODGE UNCE CUTTUT DR DODGE UNCE CUTTUT GROUP UNCE OUTPUT GROUP PAR SPEV (164) PW PWR SPEV (164) BW 19770		CLUTCH INTERLOCK SW [FOR MyT MODELS IGNS EVEN OZ. [EXCEPT FOR MyT MODELS] NEUTRAL SW [FOR M/T MODELS] PAN POSTITON [EXCEPT FOR M/T MODELS] REDEFENST SW
M57 M57 M67 M67	COMB BY WHILE 3 OCHINE SWINGLIS REARWINDON DE SWINGLIS COMB SWINGLIS REARWINDON DE SWINGLIS COMB SWINGLIS REARWINDON DE SWINGLIS COMB SWINGLIS ACCOMB SWINGLI	SS SS SS SS SS SS SS S	(1/4) WAS DOOR MAY ON THE MAY ON		IGN SPLY NOZ. [EXCEPT FOR M/T MODELS] NEUTRAL SW [FOR M/T MODELS] P/N POSITION [EXCEPT FOR M/T MODELS] FR DEFROST SW
M57 M57 C C C C M67 M57 C C C C M71 M57 C C C C TH16FW-NH T T T T T T T T T	COMBIS SWINDUT COMBIS	60 V 61 W 63 BR 64 R 65 V 66 SB 67 B 69 C 69 P 69 P 70 Y	TURNS IG THO UNION TO THE STATE OF THE STATE	+++	NEUTRAL SW [FOR M/T MODELS] P/N POSITION [EXCEPT FOR M/T MODELS] FR DEFROST SW
MAST MAST	COMB SW HIPT I REYCH UNIOCK SW REYCH UNIOCK SW STOP LAMP SW I STOP LAMP SW I DOOR IL & UNIX SW LICK POTAL SING WHIS SW REAR WINDOW DET SW REAR WINDOW DET SW	61 W 63 BR 64 R 65 SB 66 SB 67 B 68 L 69 P 70 Y	(1/4) THIN STORY IN THE STORY I	+++	P/N POSITION [EXCEPT FOR M/T MODELS] FR DEFROST SW
MS7 L L	KEYCUL LUGGCKSW KEYCUL LUGGCKSW STOP LAMP SW 1 DOOR IL & LUMK SW LUGCK DOOR IL & LUMK SW LUGCK REAR WINDOW DEF SW RETY REAR WINDOW DEFT SW RETY RETY SW RETY REAR WINDOW DEFT SW RETY RETY SW RETY R	63 BR C 64 R C 65 V V C 66 SB C C C C C C C C C C C C C C C C C C	INTO MANDE CONT REFERSE SW ALL DOOR LOCK OUT DUT BR DOOR LUCK OUT DUT GND PW PWINS SEV. (164) BATTON M70 M70 M70 M70 M70 M70	#	FR DEFROST SW
MATS	STOP LAMP SWL 1 STOP LAMP SWL 1 DOOR ILE B. UNIX SW LINCK DOOR ILE B. UNIX SW LINCK POPTICAL SIEN BY REAR WINDOW DET SW		MALEONE LOCK CUTTOT DR DOOR LOCK CUTTOT DR DOOR LOCK CUTTOT DR DOOR LOCK CUTTOT PW PWR SPY (164) PW PWR SPY (164) BAT (1/1)	\blacksquare	A TOO STATE AND ADDRESS OF THE PARTY OF THE
Cort Signal Name (Specification) 1	STOP LAMP SW 1 DOOR IK & UNIK SW LOCK DOOR IK & UNIK SW UNCK OPTICAL SBNS REAR WINDOW DET SW OPTICAL SBNS REAR WINDOW DET SW OPTICAL SBNS REAR WINDOW DET SW OFTIVER GAN		ALL DOOR LOCK OUTPUT DR DOOR WINK OUTPUT GIND PW PWIR SEW (1GN) PW PWIR SEW (1GN) PW RT (F/L) BAT (F/L) M70		CVT SHIFT SELECT PWR SPLY
THISTOCKNING 12 GW 12 GW 13 GW 13 GW 14 GW 15 GW	DOOR LK & UNIK SW LOCK DOOR LK & UNIK SW UNLOCK OPTICAL SENS REAR WINDOW DEF SW OPTICAL SEN BWYSBY OFTICAL SEN BWYSBY OFTICE SMD		DR DOOK UNK OUTPUT GND DW PWR SPLY (ICM) PW PWR SPLY (ICM) BAT IF/1)		STOP LAMP SW 2
TH16FWANH 13 GR 13 GR 13 GR 14 GR 15 GR	DOOR IK & UNIK SW LOCK DOOR IK & UNIK SW UNLOK OPTICAL SENS REAR WINDOW DEF SW OPTICAL SENS PWY DECTIVE GAIN SPLY		ONNO MORE OF THE CONTROL OF THE CON	106 Y	BLWR RELAY CONT
14	DOOR LK & UNLL SSW UNLOCK OPTICAL SENS REAR WINDOW DEF SW OPTICAL SENS PWR SPLY PETSIVER GND		PW PWR SEV (1GN) PW PWR SEV (1GAT) PW TO THE T		
1 1 1 1 1 1 1 1 1 1	OPTICAL SENS REAR WINDOW DEF SW OPTICAL SENS PWR SPLY OFTENS PWR SPLY		PW PWR SPLY (BAT) BAT (F/L) M70		
15 16 17 17 17 18 18 19 19 19 19 19 19	REAR WINDOW DEF SW OPTICAL SENS PWR SPLY PECFELVER GND	70 Y Connector No.	BAT (F/L) M70	Connector No.	M75
8 7 6 5 4 3 2 1 18 18 18 18 18 18	OPTICAL SENS PWR SPLY	Connector No.	M70	Connector Name	REMOTE KEYLESS ENTRY BECEIVER
Signal Name (Specification) 25 27 28 29 29 29 29	DECEIVER GND	Connector No.	M70		
Signal Name (Specification) 26 27 28 29 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29	AECLI VLN OIND	Connector No.	M70	Connector Type	TH04FW-NH
24 24 24 25 25 25 25 26 27 27 27 27 27 28 28 29 29 29 29 29 29	NATS ANT AMP.			ą.	
24 25 [gral Name [Specification] 25 27 27 28 29 29 3 nn	SECURITY IND LAMP CON	Connector Name	BCM (BODY CONTROL MODULE)	李	
Signal Name (Specification) 26 27 27 27 28 28 29 29 29 20 20 20 20 20	DONGLELINK			Sil	K
25 28 28 29 29 30 30	NATS ANT AMP.	Connector Type	TH40FW-NH		
28 28 29 29 29	THERMO AMP.	ą.			1 2 4
. 29	A/C SW	ATT.			
67	BLOWEN FAIN SW	<u>S</u>			
	TAZAND 3W		72 75 76 78 78 90 81 82 83 84 85 86 87 90	Toursian	
	BN DOON OF EINER 3W		91 92 93 98 96 97 98 99 114 117 117 118 118 118		Signal Name [Specification]
NO 16	COMMERCIAL SENS			$^{+}$	almod
75	CONSI SW COIPEI 3			- 6	LOWER
	COMPLEASOR COLLEGE			+	SIGNAC
d .	COMBI SW CUIPUI 3	lerminal Color Of	Signal Name [Specification]	4	GND
	COMBI SW COLIFOL 2	+	an read to divisity t		
30	COMBLSW COLPUL I	+	A/CIND COTPUT		
3/	DEIENI SW	+	DR DOOR REQ SW		
	RECEIVER COMM	1	PUSH SW		
. 39 L	CAN-H	-	DRIVER DOOR ANT+		
40 P	CAN-L	+	DRIVER DOOR ANT-		
		80 BR	PASS DOOR ANT+		
		81 G	PASS DOOR ANT-		

SEC

J

Α

В

 D

Е

F

G

Н

L

M

Ν

 \cap

JRKWF4429GB

JRKWF4430GB

SECURITY CONTROL SYSTEM

1	,	Ŀ			l	50077				_
M134	13	4		Connector	١	ИТЗР	lerminal		Signal Name [Specification]	
M134	15	_		Connector		OINT CONNECTOR-MOZ	No.	Wire		_
Mail of the content	17	-1	•				1	M	٠	_
M134	18	≥		Connector		NH20FL-DC	2	×		_
M1334 M133	19	×		֓֞֞֜֞֜֞֓֓֓֓֓֓֓֟֟֜֟֝֓֓֓֟֟֜֟֝֓֓֓֟֟֜֟֜֟֜֟֟֜֟֜֟			e	M		_
Mi34 Mi34 Mi35				1			4	GR		_
M1134 M113							2	GR		_
Control Note:	Connector		M134	2		6 5 4 3	9	GR		_
MH20FLOCK Signal Name Specification	Connector	ameN	OINT CONNECTOR-MOS			19 18 17 16 15 14 13 12 11	7	9		_
MY2DT.LDC MY2D	COLLECTO	Mallic	JOHN CONNECTORINGS			1 2 0 1 1 0 10 10 10	80	9		_
1	Connector	Туре	NH20FL-DC		_		6	9		_
Territion Color Of Signal Name Specification 12 12 13 14 15 14 13 12 10 10 10 10 10 10 10	4						10	8		_
1 1 1 1 1 1 1 1 1 1	ß				Color Of	Signal Name (Specification)	11	В		_
Color Signal Name Specification Specif	Ę			No.	Wire	ognarivanie [opecinication]	12	8		_
Color Colo	2		7 5 3	1	Ь	•	13	8		_
Color Signal Name (Specification) 2			61 81 71 51	2	Ь		14	В		_
1			1 0 1	3	Ь	•	17	В		_
Color Of Wire Signal Name (Specification) S				4	Ь	,	18	ж		_
Connector No. Signal Name (Specification) Connector No. Connector No. Connector No. Connector Name Connector Na				2	Ь		19	В		_
Light Connector Name Connector Nam	Terminal			9	۵					
15 15 17 17 17 17 17 17	No.	Wire		7	Ь					
15 15 1 1 1 1 1 1 1	1	P7	-	8	Ь		Connector		.24	_
15 1 1 1 1 1 1 1 1 1	2	16		10	٦		Connector		TCHIET SELECTOR	_
150 151	3	97		11	1	•				_
15 15 15 15 15 15 15 15	2	16		12	٦		Connector		16MW-NH	_
150 151	7	FIG		13	_	•	4			
15 15 1 1 1 1 1 1 1	8	97		14	٦		居			
Y Y Y Y Y Y Y Y Y Y	6	16		15	_		Ě			
Y Y Y Y Y Y Y Y Y Y	10	>		16	_		Ş		5	
Y Y Y Y Y Y Y Y Y Y	12	>		17	٦				o o	
Y Y Y Y Y Y Y Y Y Y	13	>		18	GR				9 10 11 12 13	
15 15 15 15 15 15 15 15	14	>		19	GR					
LG Terminal Color Of Termi	15	>		20	GR					
R No. Wire No. W	17	97					Terminal	Color Of	Circuit Name (Consideration)	_
R Connector No. M139 1	18	В					No.	Wire	orginal realite [openingation]	_
R Connector Name Count CONNECTOR ANDS 2	19	ч		Connector A		M139	1	٨		_
3 W W WHATOW DCC 5 G G G G G G G G G G G G G G G G G G	20	æ		Connector N		OINT CONNECTOR-M05	2	>		_
MH20RW-DC 4 P 6 C							e	W		_
5				Connector 1	П	4H20FW-DC	4	а	•	_
7				ģ			2	g		_
19 18 17 6 5 4 3 2 1 9 8 9 9 9 19 18 17 14 13 12 11 11 10 11 11 11 11 11 11 11 11 11 11				F	_		9	9	•	_
19 8 7 6 5 4 3 2 1 1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				Ę			7	BR		_
14 13 12 11 10 3 10 11 11 11 11 11 11 11 11 11 11 11 11				į		8 7 6 5 4 3	80	9		_
14 13 12 11 10 1 10 11 11 11 11 11 11 11 11 11 1						· , ,	6	GR		_
+H						14 13 12 11	10	>		_
+							11	L/W		_
\dashv					_		12	0		_
							13	91		_

SEC

Α

В

 D

Е

F

G

Н

L

M

Ν

 \cap

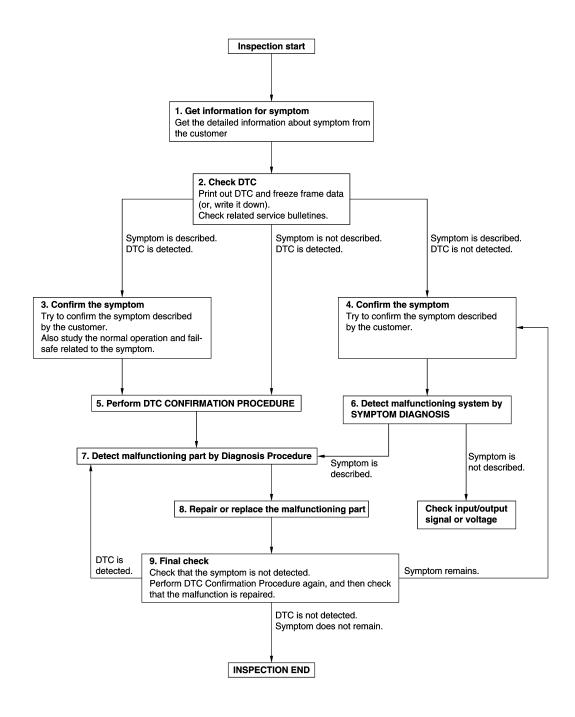
JRKWF4431GB

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

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

>> GO TO 2.

2.check dtc

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

${f 3.}$ 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.

f 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.

$oldsymbol{5}$.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 BCS-61, "DTC Inspection Priority Chart" (BCM), 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

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

Is DTC detected?

YES >> GO TO 7.

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

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

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

$\emph{/}$.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

SEC

Α

В

D

Е

Н

N

SEC-45 Revision: November 2015 2016 JUKE

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-45, "Intermittent Incident".

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

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

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

Is DTC detected and does symptom remain?

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

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

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT [WITH INTELLIGENT KEY SYSTEM] < BASIC INSPECTION > ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT Α ECM: Description INFOID:0000000012202128 В When replacing ECM, the following procedure must be performed. For details, refer to EC-157, "Work Proce-PROGRAMMING OPERATION After replacing with a blank ECM, programming is required to write ECM information. Be sure to follow the procedure to perform the programming. D ECM: Work Procedure INFOID:0000000012202129 Е 1.CHECK ECM PART NUMBER Check ECM part number to see whether it is blank ECM or not. Part number of blank ECM is 23703 - xxxxx. Check the part number when ordering ECM or with the one included in the label on the container box. Is the ECM a blank ECM? >> GO TO 2. >> GO TO 4. $2.\mathsf{save}$ ecm part number Н Read out the part number from the old ECM and save the number, following the programming instructions. Refer to "CONSULT Operation Manual". • The ECM part number is saved in CONSULT. Even when ECM part number is not saved in CONSULT, go to 3. >> GO TO 3. 3.PERFORM ECM PROGRAMMING SEC After replacing ECM, perform the ECM programming. Refer to "CONSULT Operation Manual". Refer to <u>EC-590</u>, "Removal and Installation" for replacement of ECM. • During programming, maintain the following conditions: - Ignition switch: ON - Electric load: OFF Brake pedal: Not depressed - Battery voltage: 12 – 13.5 V (Be sure to check the value of battery voltage by selecting "BATTERY VOLT" in "Data monitor" of CONSULT.) Ν >> GO TO 5. 4.REPLACE ECM Replace ECM. Refer to EC-590, "Removal and Installation". >> GO TO 5. ${f 5.}$ PERFORM INITIALIZATION OF NVIS (NATS) SYSTEM AND REGISTRATION OF ALL NVIS (NATS) IGNI-TION KEY IDS Refer to SEC-13, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Description". >> GO TO 6.

ECM

dure".

NOTE:

NOTE:

YES

NOTE:

NO

SEC-47 Revision: November 2015 2016 JUKE

 $oldsymbol{6}$.PERFORM ACCELERATOR PEDAL RELEASED POSITION LEARNING

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

Refer to EC-160, "Work Procedure".

>> GO TO 7.

7.PERFORM THROTTLE VALVE CLOSED POSITION LEARNING

Refer to EC-161, "Work Procedure".

>> GO TO 8.

8. PERFORM IDLE AIR VOLUME LEARNING

Refer to EC-162, "Work Procedure".

>> GO TO 9.

9. PERFORM G SENSOR CALIBRATION

Refer to EC-164. "Work Procedure".

>> END

BCM

BCM : Description

INFOID:0000000012202130

BEFORE REPLACEMENT

When replacing BCM, save or print current vehicle specification with CONSULT configuration before replacement. For details, refer to <u>SEC-48</u>, "BCM: Work <u>Procedure"</u>.

NOTE

If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM.

AFTER REPLACEMENT

CAUTION:

When replacing BCM, always perform "WRITE CONFIGURATION" with CONSULT. Or not doing so, BCM control function does not operate normally.

- Complete the procedure of "WRITE CONFIGURATION" in order.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- If you set incorrect "WRITE CONFIGURATION", incidents might occur.

NOŤF:

When replacing BCM, perform the system initialization (NATS) (if equipped).

BCM: Work Procedure

INFOID:0000000012202131

1. SAVING VEHICLE SPECIFICATION

©CONSULT Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-80</u>, "<u>Description</u>".

NOTE:

If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM.

>> GO TO 2.

2.REPLACE BCM

Replace BCM. Refer to BCS-94, "Removal and Installation".

>> GO TO 3.

3.WRITING VEHICLE SPECIFICATION

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

[WITH INTELLIGENT KEY SYSTEM] < BASIC INSPECTION > © CONSULT Configuration Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to BCS-80, "Work Procedure". Α >> GO TO 4. В 4. INITIALIZE BCM (NATS) (IF EQUIPPED) Perform BCM initialization. (NATS) C >> WORK END D Е F Н J **SEC** L Ν 0

SEC-49 Revision: November 2015 2016 JUKE

DTC/CIRCUIT DIAGNOSIS

P1610 LOCK MODE

Description INFOID:0000000012202132

ECM forcibly switches to the mode that inhibits engine start, when engine start operation is performed 5 times or more while communication between ECM and BCM is not normal.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1610	LOCK MODE	When ECM detects a communication malfunction between ECM and BCM 5 times or more.	_

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check DTC in "Self Diagnostic Result" mode of "ENGINE" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202134

1. CHECK ENGINE START FUNCTION

- Check that DTC except for DTC P1610 is not detected. If detected, erase the DTC after fixing.
- 2. Turn ignition switch OFF.
- Depress brake pedal and contact the registered Intelligent Key backside to push-button ignition switch, then wait 5 seconds.
- 4. Turn ignition switch ON.
- 5. Turn ignition switch OFF and wait 5 seconds.
- 6. Repeat steps 3 and 5 twice (a total of 3 times).
- 7. Check that engine can start.

P1611 ID DISCORD, IMMU-ECM

< DTC/CIRC	CUIT DIAGNOSIS >	w] ·	ITH INTELLIGENT KEY SYSTEM]
P1611 ID	DISCORD, IMM	U-ECM	
DTC Logic			INFOID:0000000012202135
DTC DETE	CTION 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.	• BCM • ECM
	IRMATION PROCEDUM DTC CONFIRMATION		
2. Check D s DTC detect YES >> (NO >> I	cted? Go to <u>SEC-51, "Diagnosi</u> NSPECTION END	esult" mode of "ENGINE" using CC	NSULT.
4	Procedure		INFOID:000000012202136
	M INITIALIZATION	Starten of all latelless of IZ.	CONOUNT
	•	istration of all Intelligent Keys using	
YES >> I	NSPECTION END	Title ongine se cialted with register	oa mongoneroy.
_	GO TO 2. SELF DIAGNOSTIC RES	SULT	
1. Select "S	Self Diagnostic Result" m	node of "ENGINE" using CONSULT.	
 Erase D Perform 		PROCEDURE for DTC P1611. Refe	er to <u>SEC-51, "DTC Logic"</u> .
Is DTC detec	cted?		
_	GO TO 3. INSPECTION END		
3.REPLACE			
Replace Perform	BCM. Refer to BCS-94, initialization of BCM and	"Removal and Installation". registration of all Intelligent Keys u	_
YES >> I	<u>em be initialized and car</u> INSPECTION END GO TO 4.	n the engine be started with register	red Intelligent Key?
4.REPLACE	EECM		
Replace ECN Refer to <u>EC-</u>	M. 590, "Removal and Insta	illation".	
>>	NSPECTION END		

P1612 CHAIN OF ECM-IMMU

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC P1612 is displayed with DTC U1000 (for BCM), first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC P1612 is displayed with DTC U1010 (for BCM), first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check DTC in "Self Diagnostic Result" mode of "ENGINE" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202138

1.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

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

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE ECM

Replace ECM.

Refer to EC-590, "Removal and Installation".

B2192 ID DISCORD, IMMU-ECM

DTC No. Trouble diagnosis name DTC detecting condition Possible cause B2192 ID DISCORD BCM-ECM The ID verification results between ECM + ECM DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT. IS DTC detected? YES >> Go to SEC-53, "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure 1. PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	< DTC/CIRCL	JIT DIAGNOSIS >	[W	TH INTELLIGENT KEY SYSTEM]
DTC DETECTION LOGIC DTC No. Trouble diagnosis name DTC detecting condition Possible cause	B2192 ID	DISCORD, IMMU	-ECM	
DTC No. Trouble diagnosis name DTC detecting condition Possible cause B2192 ID DISCORD BCM-ECM The ID verification results between BCM and ECM are NG. • BCM • ECM DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT. Is DTC detected? YES >> Go to SEC-53. "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure 1. PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53. "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	DTC Logic			INFOID:000000012202139
The ID verification results between BCM and ECM are NG. The ID verification results between BCM and ECM are NG. The ID verification results between BCM and ECM are NG. Turn Ignition PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT. Is DTC detected? YES >> Go to SEC-53. "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure 1. PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53. "DTC Logic". IS DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94. "Removal and Installation".	DTC DETEC	TION LOGIC		
DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT. Is DTC detected? YES >> Go to SEC-53, "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure 1. PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". IS DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
1. Turn ignition switch ON. 2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT. Is DTC detected? YES >> Go to SEC-53. "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure 1. PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53. "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	B2192	ID DISCORD BCM-ECM		
1. Turn ignition switch ON. 2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT. Is DTC detected? YES >> Go to SEC-53, "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure 1. PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	DTC CONFIF	RMATION PROCEDUR	E	
2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT. Is DTC detected? YES >> Go to SEC-53. "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure **PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53. "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	1.PERFORM	DTC CONFIRMATION P	ROCEDURE	
Is DTC detected? YES >> Go to SEC-53. "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure 1.PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2.CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53. "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3.REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".			ult" mode of "PCM" using CONSI	П Т
YES >> Go to SEC-53. "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure 1.PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2.CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53. "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3.REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".		· ·	uit mode of BCW using CONSC	JL1.
Diagnosis Procedure 1. PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	YES >> Go	o to <u>SEC-53, "Diagnosis F</u>	Procedure".	
1.PERFORM INITIALIZATION Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2.CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3.REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	-			
Perform initialization of BCM and registration of all Intelligent Keys using CONSULT. Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	Diagnosis F	Procedure		INFOID:0000000012202140
Can the system be initialized and can the engine be started with registered Intelligent Key? YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	1.PERFORM	INITIALIZATION		
YES >> INSPECTION END NO >> GO TO 2. 2. CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	Perform initiali	zation of BCM and registr	ration of all Intelligent Keys using	CONSULT.
2.CHECK SELF DIAGNOSTIC RESULT 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT. 2. Erase DTC. 3. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".	<u>-</u>		ne engine be started with registere	ed Intelligent Key?
 Select "Self Diagnostic Result" mode of "BCM" using CONSULT. Erase DTC. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to <u>SEC-53</u>, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END REPLACE BCM Replace BCM. Refer to <u>BCS-94</u>, "Removal and Installation". 				
 Erase DTC. Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to SEC-53, "DTC Logic". Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END REPLACE BCM Replace BCM. Refer to BCS-94, "Removal and Installation". 	2.CHECK SE	LF DIAGNOSTIC RESUL	.T	
 Perform DTC CONFIRMATION PROCEDURE for DTC B2192. Refer to <u>SEC-53, "DTC Logic"</u>. <u>Is DTC detected?</u> YES >> GO TO 3. NO >> INSPECTION END REPLACE BCM Replace BCM. Refer to <u>BCS-94, "Removal and Installation"</u>. 	1. Select "Se	elf Diagnostic Result" mod		
Is DTC detected? YES >> GO TO 3. NO >> INSPECTION END 3. REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".			OCEDURE for DTC B2192. Refe	r to SEC-53. "DTC Logic".
NO >> INSPECTION END 3.REPLACE BCM 1. Replace BCM. Refer to BCS-94, "Removal and Installation".				
 REPLACE BCM Replace BCM. Refer to <u>BCS-94, "Removal and Installation"</u>. 				
Replace BCM. Refer to BCS-94, "Removal and Installation".	_			
			emoval and Installation"	
	2. Perform in	itialization of BCM and re	gistration of all Intelligent Keys us	_
Can the system be initialized and can the engine be started with registered Intelligent Key?	-		ne engine be started with registere	ed Intelligent Key?
YES >> INSPECTION END NO >> GO TO 4.	_			
4.REPLACE ECM	4			
Replace ECM.				
Refer to EC-590, "Removal and Installation".	Refer to EC-59	90, "Removal and Installa	tion".	
>> INSPECTION END	>> IN	SPECTION END		

[WITH INTELLIGENT KEY SYSTEM]

B2193 CHAIN OF ECM-IMMU

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2193 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B2193 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2193	CHAIN OF BCM-ECM	Inactive communication between BCM and ECM	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.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202142

1.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

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

YES >> INSPECTION END

NO >> GO TO 2.

2.REPLACE ECM

Replace ECM.

Refer to EC-590, "Removal and Installation".

B2195 ANTI-SCANNING

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2195 ANTI-SCANNING

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

- 1. Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-55</u>, "Diagnosis Procedure".

NO >> INSPECTION END.

Diagnosis Procedure

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

- 1. Select "Self Diagnostic Result" mode of "BCM" using CONSULT.
- Erase DTC.
- Perform DTC CONFIRMATION PROCEDURE for DTC B2195. Refer to <u>SEC-55, "DTC Logic"</u>.

Is DTC 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 >> GO TO 4.

3.CHECK SELF DIAGNOSTIC RESULT 2

- 1. Obtain the customers approval to remove unspecified accessory part related to engine start, and then remove it.
- Select "Self Diagnostic Result" of "BCM" using CONSULT.
- Erase DTC.
- Perform DTC CONFIRMATION PROCEDURE for DTC B2195. Refer to <u>SEC-55. "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

Revision: November 2015 SEC-55 2016 JUKE

SEC

Ν

Р

Α

В

D

Е

Н

INFOID:0000000012202144

INFOID:0000000012202147

< DTC/CIRCUIT DIAGNOSIS >

B2196 DONGLE UNIT

Description INFOID:000000012202148

BCM performs ID verification between BCM and dongle unit.

When verification result is OK, BCM permits cranking.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2196	DONGLE NG	The ID verification results between BCM and dongle unit is NG.	Harness or connectors (Dongle unit circuit is open or shorted.) Dongle unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- 2. Turn ignition switch OFF.
- 3. Turn ignition switch ON.
- Check DTC in "Self-diagnosis result" mode of "BCM" using CONSULT.

Is the DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1.PERFORM INITIALIZATION

- Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.
- 2. Start the engine.

Dose the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK DONGLE UNIT CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect BCM connector and dongle unit connector.
- 3. Check continuity between BCM harness connector and dongle unit harness connector.

В	СМ	Dongle unit		Continuity
Connector Terminal		Connector	Terminal	Continuity
M68	24	M86	1	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector Terminal		Ground	Continuity
M68	24		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK DONGLE UNIT GROUND CIRCUIT

Check continuity between dongle unit harness connector and ground.

B2196 DONGLE UNIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Dong	le unit		Continuity	
Connector	Terminal	Ground	Continuity	
M86	4		Existed	

Is the inspection result normal?

YES >> Replace dongle unit.

NO >> Repair or replace harness.

Α

В

С

D

Е

F

G

Н

J

SEC

L

M

Ν

0

B2198 NATS ANTENNA AMP.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2198	NATS ANTENNA AMP	Inactive communication between NATS antenna amp. and BCM is detected when BCM enters in the low power consumption mode (BCM sleep condition)	Harness or connectors (NATS antenna amp. circuit is open or shorted.) NATS antenna amp. IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Make the conditions that BCM enters in the low power consumption mode (BCM sleep condition). Refer to <u>BCS-13</u>, "POWER CONSUMPTION CONTROL SYSTEM: System Description".
- 2. Turn ignition switch ON.
- 3. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202149

1. CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check that the following fuse in IPDM E/R is not blown.

Signal name	Fuse No.
Battery power supply	43 (20 A)

Is the fuse blown (open)?

YES >> Replace the blown fuse after repairing the cause of blowing.

NO >> GO TO 2.

2.CHECK NATS ANTENNA AMP. POWER SUPPLY

- 1. Disconnect NATS antenna amp. connector.
- 2. Check voltage between NATS antenna amp. harness connector and ground.

(+)		
NATS ant	enna amp.	(–)	Voltage (V)
Connector	Terminal		
M49	1	Ground	6 - 16

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK NATS ANTENNA AMP. POWER SUPPLY CIRCUIT

- 1. Disconnect IPDM E/R connector.
- 2. Check continuity between IPDM E/R harness connector and NATS antenna amp. connector.

IPDI	M E/R	NATS antenna amp.		Continuity
Connector Terminal		Connector	Terminal	Continuity
E14	42	M49	1	Existed

B2198 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

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

NO >> Repair or replace harness.

4. CHECK NATS ANTENNA AMP. GROUND CIRCUIT

Check continuity between NATS antenna amp. harness connector and ground.

NATS ant	enna amp.		Continuity
Connector	Connector Terminal		Continuity
M49	4		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK NATS ANTENNA AMP. COMMUNICATION SIGNAL 1

Check voltage signal between NATS antenna amp. harness connector and ground using an oscilloscope.

(+) NATS antenna amp. Connector Terminal		(–)	Condition		Voltage (V)
M49	2	Ground	Intelligent Key: Intelligent Key battery is removed Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed		→ ←40ms
				Brake pedal: Released	JMKIA6232JP 12

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

6. CHECK NATS ANTENNA AMP. OUTPUT SIGNAL CIRCUIT 1

- 1. Disconnect BCM connector.
- 2. Check continuity between NATS antenna amp. connector and BCM harness connector.

NATS ant	enna amp.	В	Continuity	
Connector Terminal		Connector	Terminal	Continuity
M49	2	M68	21	Existed

3. Check continuity between BNATS antenna amp. harness connector and ground.

NATS antenna amp.			Continuity
Connector	Terminal	Ground	Continuity
M49	2		Not existed

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace harness.

7.CHECK NATS ANTENNA AMP. COMMUNICATION SIGNAL 2

Check voltage signal between NATS antenna amp. harness connector and ground using an oscilloscope.

SEC

Α

D

Е

F

M

Ν

0

B2198 NATS ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	+) enna amp.	(–)	Condition		Voltage (V)
Connector	Terminal				
M49	3	Ground	Intelligent Key: Intelligent Key battery is removed Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed		(V) 15 10 5 0 +-40ms JMKIA6233JP
				Brake pedal: Released	12

Is the inspection result normal?

YES >> Replace NATS antenna amp. Refer to SEC-126, "Removal and Installation".

NO >> GO TO 8.

$8.\mathsf{CHECK}$ NATS ANTENNA AMP. OUTPUT SIGNAL CIRCUIT 2

- 1. Disconnect BCM connector.
- Check continuity between NATS antenna amp. harness connector and BCM connector.

NATS antenna amp.		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M49	3	M68	25	Existed

3. Check continuity between NATS antenna amp. harness connector and ground.

NATS ant	enna amp.		Continuity
Connector	Connector Terminal		Continuity
M49	3		Not existed

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace harness.

9. REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

[WITH INTELLIGENT KEY SYSTEM]

B2555 STOP LAMP

DTC Logic INFOID:0000000012202150

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis 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 BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Depress brake pedal and wait 1 second or more.
- Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

$1.\mathsf{check}$ stop lamp switch input signal 1

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

(+) BCM		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(/ (pp: 5/)	
M70	105	Ground	Battery voltage	

Is the inspection normal?

>> GO TO 2. YES

NO-1 >> Check 10 A fuse [No. 38, 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 switch harness connector and ground.

(+) Stop lamp s	Voltage (V)		• , ,	
Connector	Terminal		(πρριολ.)	
E102 (CVT models) E118 (M/T models)	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 INPUT SIGNAL 2

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

SEC-61 Revision: November 2015 2016 JUKE SEC

Α

В

D

Е

INFOID:0000000012202151

M

Ν

< DTC/CIRCUIT DIAGNOSIS >

	(+) BCM		Con	Condition	
Connector	Terminal				(Approx.)
M68	9	Ground	Brake pedal	Depressed	Battery voltage
IVIOO	9	Ground	Біаке рецаі	Not depressed	0

Is the inspecting result normal?

YES >> GO TO 4. NO >> GO TO 5.

4.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

5. CHECK STOP LAMP SWITCH CIRCUIT

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

Stop lamp swi	tch	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E102 (CVT models) E118 (M/T models)	2	M68	9	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

CHECK STOP LAMP SWITCH

Refer to SEC-62, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace stop lamp switch. Refer to BR-20, "Removal and Installation".

7.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000012202152

1. CHECK STOP LAMP SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace stop lamp switch. Refer to BR-20, "Removal and Installation".

B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2556 PUSH-BUTTON IGNITION SWITCH

DTC Logic (INFOID:000000012202153

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Press push-button ignition switch under the following condition.

CVT models

Brake pedal: Not depressed

M/T models

- Clutch pedal: Not depressed
- 2. Release push-button ignition switch and wait 100 seconds or more.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK PUSH-BUTTON IGNITION SWITCH INPUT SIGNAL

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

(+) Push-button ignition switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		(
M101	8	Ground	12

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT

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

Push-button	ignition switch	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M101	8	M70	76	Existed

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

Push-button ignition switch			Continuity
Connector	Terminal	Ground	Continuity
M101	8		Not existed

Revision: November 2015 SEC-63 2016 JUKE

SEC

Α

В

D

Е

Н

INFOID:0000000012202154

N /I

Ν

0

B2556 PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

4. CHECK PUSH-BUTTON IGNITION SWITCH GROUND CIRCUIT

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

Push-button ignition switch			Continuity
Connector	Terminal	Ground	Continuity
M101	4		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK PUSH-BUTTON IGNITION SWITCH

Refer to SEC-64, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace push-button ignition switch. Refer to <u>SEC-127</u>, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000012202155

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	
Terr	minal	Condition		Continuity	
ο .	1	Push-button ignition	Pressed	Existed	
O	4	switch	Not pressed	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace push-button ignition switch. Refer to <u>SEC-127</u>, "Removal and Installation".

B2557 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2557 VEHICLE SPEED

DTC Logic INFOID:0000000012202156

DTC DETECTION LOGIC

NOTE:

- If DTC B2557 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B2557 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible causes
B2557	VEHICLE SPEED	 BCM detects one of the following conditions for 10 seconds continuously. Vehicle speed signal from combination meter is 10 km/h (6.2 MPH) or more, and vehicle speed signal from ABS actuator and electric unit (control unit) is 4 km/h (2.5 MPH) or less. Vehicle speed signal from combination meter is 4 km/h (2.5 MPH) or less, and vehicle speed signal from ABS actuator and electric unit (control unit) is 10 km/h (6.2 MPH) or more. 	Harness or connectors (The CAN communication line is open or shorted.) Combination meter ABS actuator and electric unit (control unit)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Start engine and wait 10 seconds or more.
- 2. Drive the vehicle at a vehicle speed of 10 km/h (6.2 MPH) or more for 10 seconds or more.
- 3. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

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

Check DTC in "Self Diagnostic Result" mode of "ABS" using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to BRC-50, "DTC Index"

NO >> GO TO 2.

2. CHECK DTC OF "COMBINATION METER"

Check DTC in "Self Diagnostic Result" mode of "METER/M&A" using CONSULT.

Is DTC detected?

YFS >> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-33, "DTC Index".

>> GO TO 3. NO

3. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Α

В

D

Е

SEC

INFOID:0000000012202157

M

Ν

B2601 SHIFT POSITION

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2601 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B2601 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2601	SHIFT POSITION	When there is a difference between P range signal from CVT shift selector (detention switch) and P position signal from IPDM E/R (CAN).	Harness or connectors (CAN communication line is open or shorted.) Harness or connectors [CVT shift selector (detention switch) circuit is open or shorted.] BCM IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Shift the selector lever to the P position.
- Turn ignition switch ON and wait 2 seconds or more.
- 3. Shift the selector lever to any position other than P, and wait 2 seconds or more.
- 4. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202159

1. CHECK CVT SHIFT SELECTOR POWER SUPPLY

- 1. Turn ignition switch OFF.
- Disconnect CVT shift selector (detention switch) connector.
- Check voltage between CVT shift selector (detention switch) harness connector and ground.

(+) CVT shift selector (detention switch)		(-)	Voltage (V) (Approx.)
Connector	Terminal		(FF - /
M57	12	Ground	12

Is the inspection result normal?

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

2.CHECK CVT SHIFT SELECTOR POWER SUPPLY CIRCUIT

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

CVT shift selector	(detention switch)	BCM		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M57	12	M70	104	Existed	

3. Check continuity between CVT shift selector (detention switch) harness connector and ground.

B2601 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

CVT shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
M57	12		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

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

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

CVT shift selector	(detention switch)	IPDM E/R		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M57	13	E17	64	Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

CHECK CVT SHIFT SELECTOR CIRCUIT (BCM)

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

CVT shift selector	(detention switch)	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M57	13	M68	37	Existed

Check continuity between CVT shift selector (detention switch) harness connector and ground.

CVT shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
M57	13		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.
- Perform DTC CONFIRMATION PROCEDURE for DTC B2601. Refer to SEC-66, "DTC Logic".

Is DTC B2601 detected again?

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

NO >> INSPECTION END

SEC

Α

В

D

Е

Н

M

Ν

0

B2602 SHIFT POSITION

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2602 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B2602 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2602	SHIFT POSITION	BCM detects the following status for 10 seconds. • Selector lever is in the P position • Vehicle speed is 4 km/h (2.5 MPH) or more • Ignition switch is in the ON position	Harness or connectors (CAN communication line is open or shorted.) Harness or connectors [CVT shift selector (detention switch) circuit is open or shorted.] CVT shift selector (detention switch) Combination meter BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Start engine.
- 2. Drive vehicle at a speed of 4 km/h (2.5 MPH) or more for 10 seconds or more.
- 3. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202161

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

Check DTC in "Self Diagnostic Result" mode of "ABS" using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to BRC-50, "DTC Index".

NO >> GO TO 2.

2.CHECK DTC OF COMBINATION METER

Check DTC in "Self Diagnostic Result" mode of "METER/M&A" using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-33, "DTC Index".

NO >> GO TO 3.

${f 3}.$ check cvt shift selector power supply

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

(+) CVT shift selector (detention switch)		(–)	Voltage (V) (Approx.)	
Connector	Terminal		() ,	
M57	12	Ground	12	

Is the inspection result normal?

YES >> GO TO 6.

B2602 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> GO TO 4.

f 4 .CHECK CVT SHIFT SELECTOR POWER SUPPLY CIRCUIT

1. Disconnect BCM connector.

2. Check continuity between CVT shift selector (detention switch) harness connector and BCM harness connector.

CVT shift selector (detention switch)		В	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M57	12	M70	104	Existed

3. Check continuity between CVT shift selector (detention switch) harness connector and ground.

CVT shift selector	Continuity			
Connector Terminal		Ground	Continuity	
M57	12		Not existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. REPLACE BCM

Replace BCM. Refer to BCS-94, "Removal and Installation".

Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

6. CHECK CVT SHIFT SELECTOR CIRCUIT

Disconnect BCM connector and IPDM E/R connector.

2. Check continuity between CVT shift selector (detention switch) harness connector and BCM harness connector.

CVT shift selector	(detention switch)	В	CM	Continuity
Connector	Terminal	Connector Terminal		Continuity
M57	13	M68	37	Existed

3. Check continuity between CVT shift selector (detention switch) harness connector and ground.

CVT shift selector	(detention switch)		Continuity
Connector Terminal		Ground	Continuity
M57	13		Not existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

.CHECK CVT SHIFT SELECTOR (DETENTION SWITCH)

Refer to SEC-70, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace CVT shift selector. Refer to TM-316, "Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

SEC

Α

В

D

Е

Н

Ν

B2602 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Component Inspection

INFOID:0000000012202162

${\bf 1.}{\tt CHECK}\;{\tt CVT}\;{\tt SHIFT}\;{\tt SELECTOR}\;({\tt DETENTION}\;{\tt SWITCH})$

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

CVT shift selector (detention switch)		Condition		Continuity	
Terminal					
	13	Selector lever: P position	Selector button: Released	Not existed	
12		Selector level. 1 position	Selector button: Pressed	Existed	
		Selector lever: Except P position		Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace CVT shift selector. Refer to TM-316, "Removal and Installation".

B2603 SHIFT POSITION

DTC Logic

DTC DETECTION LOGIC

NOTE:

• If DTC B2603 is displayed with DTC B2601, first perform the trouble diagnosis for DTC B2601. Refer to SEC-66, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible causes
B2603	SHIFT POSI STATUS	BCM detects the following status when ignition switch is in the ON position. Transmission range switch signal: approx. 0 V CVT shift selector (detention switch) signal: approx. 0 V	Harness or connector [CVT shift selector (detention switch) circuit is open or shorted.] Harness or connectors (Transmission range switch circuit is open or shorted.) CVT shift selector (detention switch) Transmission range switch BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE 1

- 1. Shift the selector lever to the P position.
- 2. Turn ignition switch ON and wait 1 second or more.
- 3. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

- Shift the selector lever to any position other than P, and wait 1 second or more.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

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 8.

2.CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check that the following fuse in IPDM E/R is not blown.

Signal name	Fuse No.
Ignition power supply	56 (10 A)

Is the fuse blown (open)?

YES >> Replace the blown fuse after repairing the cause of blowing.

NO >> GO TO 3.

3. CHECK TRANSMISSION RANGE SWITCH POWER SUPPLY

- 1. Disconnect transmission range switch connector.
- 2. Turn ignition switch ON.

SEC

Α

В

D

Е

Н

INFOID:0000000012202164

Ν

 \circ

Р

Revision: November 2015 SEC-71 2016 JUKE

B2603 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3. Check voltage between transmission range switch harness connector and ground.

(+)			
Transmission	n range switch	(–)	Voltage (V)	
Connector Terminal				
F27	1	Ground	6 - 16	

Is the inspection result normal?

YES >> GO TO 5. NO >> GO TO 4.

4. CHECK TRANSMISSION RANGE SWITCH POWER SUPPLY CIRCUIT

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

Transmission range switch		IPDI	Continuity	
Connector	Terminal	Connector Terminal		Continuity
F27	1	E15	58	Existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

5. CHECK BCM INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Connect transmission range switch harness connector.
- 3. Turn ignition switch ON.
- Check voltage between BCM harness connector and ground.

(+) BCM		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(
M70	102	Ground	Selector lever P or N position		Battery voltage
IVI7 O	102	Ground	Selector level	Other than above	0

Is the inspection result normal?

YES >> GO TO 13. NO >> GO TO 6.

6.CHECK BCM INPUT SIGNAL CIRCUIT

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

Transmission range switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
F27	2	M70	102	Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK TRANSMISSION RANGE SWITCH

Refer to SEC-74, "Component Inspection (Transmission Range Switch)".

Is the inspection result normal?

B2603 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> GO TO 12.

NO >> Replace transmission range switch. Refer to TM-326, "Removal and Installation".

8.CHECK CVT SHIFT SELECTOR POWER SUPPLY

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

(+) CVT shift selector (detention switch)		(-)	Voltage (V) (Approx.)
Connector	Terminal		() ; ; ; ;
M57	12	Ground	12

Is the inspection result normal?

YES >> GO TO 10.

NO >> GO TO 9.

9. CHECK CVT SHIFT SELECTOR POWER SUPPLY CIRCUIT

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

CVT shift selector	(detention switch)	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M57	12	M70	104	Existed

3. Check continuity between CVT shift selector (detention switch) harness connector and ground.

CVT shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
M57	12		Not existed

Is the inspection result normal?

YES >> GO TO 12.

NO >> Repair or replace harness.

10.check cvt shift selector circuit

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

CVT shift selector	(detention switch)	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M57	13	M68	37	Existed

3. Check continuity between CVT shift selector (detention switch) harness connector and ground.

CVT shift selector (detention switch)			Continuity
Connector	Terminal	Ground	Continuity
M57	13		Not existed

Is the inspection result normal?

YES >> GO TO 11.

NO >> Repair or replace harness.

11.check cvt shift selector (detention switch)

Refer to SEC-74, "Component Inspection [CVT Shift Selector (Detention Switch)]".

Is the inspection result normal?

SEC

Α

В

D

Е

Н

M

Ν

0

F

B2603 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> GO TO 13.

NO >> Replace CVT shift selector. Refer to TM-316, "Removal and Installation".

12. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

13.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

Component Inspection (Transmission Range Switch)

INFOID:0000000012202165

1. CHECK TRANSMISSION RANGE SWITCH

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

Transmission range switch		Condition	Continuity	
Terr	minal	Condition	Continuity	
1	2	P or N position	Existed	
	2	Other than above	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace transmission range switch. Refer to TM-326, "Removal and Installation".

Component Inspection [CVT Shift Selector (Detention Switch)]

INFOID:0000000012202166

1. CHECK CVT SHIFT SELECTOR (DETENTION SWITCH)

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

CVT shift selector	(detention switch)	Condition		Continuity
Terr	minal			Continuity
		Selector lever: P position	Selector button: Released	Not existed
12	13	Selector level. 1 position	Selector button: Pressed	Existed
		Selector lever: Except P pos	ition	LXISteu

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace CVT shift selector. Refer to TM-316, "Removal and Installation".

B2604 SHIFT POSITION

DTC Logic INFOID:0000000012202167

DTC DETECTION LOGIC

NOTE:

- If DTC B2604 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B2604 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2604	PNP/CLUTCH SW	The following states are detected for 5 seconds while ignition switch is ON. P/N position signal is sent from transmission range switch but shift position signal input (CAN) from TCM is other than P and N. P/N position signal is not sent from transmission range switch but shift position signal input (CAN) from TCM is P or N.	Harness or connectors (CAN communication line is open or shorted.) Harness or connectors (Transmission range switch circuit is open or shorted.) Transmission range switch TCM BCM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Shift the selector lever to the P position.
- Turn ignition switch ON and wait 5 seconds or more.
- Shift the selector lever to the N position and wait 5 seconds or more.
- Shift the selector lever to any position other than P and N, and wait 5 seconds or more.
- 5. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

>> Go to SEC-75, "Diagnosis Procedure". YES

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK DTC OF TCM

Check DTC in "Self Diagnostic Result" mode of "TCM" using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to TM-203, "DTC Index".

NO >> GO TO 2.

2. CHECK BCM INPUT SIGNAL

Turn ignition switch ON.

Check voltage between BCM harness connector and ground.

	+) CM	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
M70	102	Ground	Selector lever	P or N position	Battery voltage
IVI7 U	102	Giodila	Selector level	Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3.REPLACE BCM

Replace BCM. Refer to BCS-94, "Removal and Installation".

SEC

Α

В

D

Е

INFOID:0000000012202168

M

Ν

0

B2604 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

4. CHECK BCM INPUT SIGNAL CIRCUIT

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

Transmission	range switch	В	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
F27	2	M70	102	Existed

5. Check continuity between transmission range switch harness connector and ground.

Transmission range switch			Continuity
Connector	Terminal	Ground	Continuity
F27	2		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

B2605 SHIFT POSITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2605 SHIFT POSITION

DTC Logic INFOID:0000000012202169

DTC DETECTION LOGIC

NOTE:

- If DTC B2605 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B2605 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2605	PNP/CLUTCH SW	When ignition switch is ON, P/N position signal input from transmission range switch and P/N position signal input (CAN) from IPDM E/R do not match.	Harness or connectors (CAN communication line is open or shorted.) 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

- Shift the selector lever to the P position.
- 2. Turn ignition switch ON and wait 1 second or more.
- Shift the selector lever to the N position and wait 1 second or more.
- Shift the selector lever to any position other than P and N, and wait 1 second or more.
- 5. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK IPDM E/R INPUT SIGNAL CIRCUIT

Turn ignition switch OFF.

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

IPDI	M E/R	BCM		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
E15	48	M70	102	Existed	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.REPLACE BCM

- Replace BCM. Refer to BCS-94, "Removal and Installation".
- Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.
- Perform DTC CONFIRMATION PROCEDURE for B2605. Refer to SEC-77, "DTC Logic".

Is DTC B2605 detected again?

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

>> INSPECTION END NO

SEC

Α

В

D

Е

INFOID:0000000012202170

N

B2608 STARTER RELAY

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B2608 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B2608 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".
- If DTC B2608 is displayed with DTC B210D (IPDM E/R), first perform the trouble diagnosis for DTC B210D.
 Refer to <u>SEC-109</u>, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2608	STARTER RELAY	BCM outputs starter relay OFF signal but BCM receives starter relay ON signal from IPDM E/R (CAN).	Harness or connectors (CAN communication line is open or shorted.) Harness or connectors (Starter relay circuit is open or shorted.) IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Press push-button ignition switch under the following conditions to start engine.

CVT models

- Selector lever: In the P position
- Brake pedal: Depressed

M/T models

- Shift lever: In the Neutral position
- Clutch pedal: Depressed
- Wait 1 second after engine started.
- 3. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202172

1.CHECK DTC OF IPDM E/R

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

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to PCS-24, "DTC Index".

NO >> GO TO 2.

2. CHECK STARTER RELAY CIRCUIT

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

IPDN	M E/R	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E13	30	M70	97	Existed

^{5.} Check continuity between IPDM E/R harness connector and ground.

B2608 STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Ν

II DIVI L	/R		Continuity
Connector	Terminal	Ground	Continuity
E13	30		Not existed
s the inspection result normal? YES >> GO TO 3. NO >> Repair or replace h REPLACE IPDM E/R			
Replace IPDM E/R. Refer to Perform DTC CONFIRMATED DTC B2608 detected again? YES >> INSPECTION END NO >> GO TO 4.	FION PROCEDURE for I	nd Installation". DTC B2608. Refer to <u>SEC</u>	C-78, "DTC Logic".
Replace BCM. Refer to BC Perform initialization of BC >> INSPECTION END	M and registration of all	<u>tallation"</u> . Intelligent Keys using CO	NSULT.

Revision: November 2015 SEC-79 2016 JUKE

B260F ENGINE STATUS

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B260F ENGINE STATUS

Description INFOID:000000012202173

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 BCS-83, "DTC Logic".
- If DTC B260F is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B260F	ENG STATE SIG LOST	BCM has not yet received the engine status signal from ECM when ignition switch is in the ON position.	Harness or connectors (CAN communication line is open or shorted.) ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON and wait 2 seconds or more.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202175

1. INSPECTION START

- Turn ignition switch ON.
- Select "Self Diagnostic Result" mode of "BCM" using CONSULT.
- 3. Touch "ERASE".
- Perform DTC CONFIRMATION PROCEDURE for DTC B260F. Refer to <u>SEC-80, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 2.

NO >> INSPECTION END

2.REPLACE ECM

Replace ECM.

Refer to EC-590, "Removal and Installation".

B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B261A PUSH-BUTTON IGNITION SWITCH

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B261A is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B261A is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Press push-button ignition switch for 1 second under the following condition.

CVT models

- Selector lever: In the P position
- Brake pedal: Not depressed

M/T models

- Shift lever: In the Neutral position
- Clutch pedal: Not depressed
- 2. Release push-button ignition switch and wait 1 second.
- 3. Check DTC in "Self diagnostic result" mode of "BCM" using CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-81</u>, "Diagnosis Procedure"

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK PUSH-BUTTON IGNITION SWITCH POWER SUPPLY CIRCUIT

Turn ignition switch OFF.

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

(+)			Voltage (V) (Approx.)
Push-button ignition switch		(–)	
Connector	Terminal		(11 /
M101	8	Ground	12

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK PUSH-BUTTON IGNITION SWITCH CIRCUIT $^{\scriptscriptstyle 1}$

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

SEC

Ν

Р

INFOID:0000000012202177

Α

В

D

Е

Н

Revision: November 2015 SEC-81 2016 JUKE

B261A PUSH-BUTTON IGNITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Push-button	ignition switch	IPDM E/R		Continuity
Connector	Terminal	Connector Terminal		Continuity
M101	8	E17	66	Existed

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

Push-button ignition switch			Continuity
Connector	Terminal	Ground	Continuity
M101	8		Not existed

Is the inspection result normal?

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

NO >> Repair harness or connector.

3.check push-button ignition switch circuit ${ ilde 2}$

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

Push-button	ignition switch	ВСМ		Continuity
Connector	Terminal	Connector Terminal		Continuity
M101	8	M70	76	Existed

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

Push-button ignition switch			Continuity
Connector	Terminal	Ground	Continuity
M101	8		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4.REPLACE BCM

- Replace BCM. Refer to <u>BCS-94, "Removal and Installation"</u>.
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

B261F ASCD CLUTCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B261F ASCD CLUTCH SWITCH

DTC Logic INFOID:0000000012202178

DTC DETECTION LOGIC

NOTE:

- If DTC B261F is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B261F is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detection condition	Possible cause
B261F	ASCD CNCL/CLTCH SW	BCM detects the following status for 10 seconds 3 times • Clutch pedal position switch input (CAN) from ECM: OFF • Vehicle speed: 40 km/h (24.8 MPH) or more	Harness or connectors. (CAN communication line is open or shorted.) (Clutch pedal position switch circuit is open or shorted.) ABS actuator and electric unit (control unit) Combination meter BCM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Start the engine.
- 2. Drive vehicle at a speed of 40 km/h (24.8 MPH) or more for 10 seconds.
- 3. Decrease the vehicle speed to below 40 km/h (24.8 MPH).
- 4. Repeat steps 2 and 3 twice (a total of 3 times).
- 5. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

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

Check DTC in "Self Diagnostic Result" mode of "ABS" using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to BRC-50, "DTC Index".

NO >> GO TO 2.

2.check dtc of combination meter

Check DTC in "Self Diagnostic Result" mode of "METER/M&A" using CONSULT. Refer to MWI-33, "DTC Index".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

$oldsymbol{3}.$ CHECK CLUTCH PEDAL POSITION SWITCH CIRCUIT

Refer to EC-572, "Component Function Check".

Is the inspection result normal?

YFS >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

SEC

INFOID:0000000012202179

Α

В

D

Е

M

Ν

Р

B261F ASCD CLUTCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2620 PARK/NEUTRAL POSITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2620 PARK/NEUTRAL POSITION SWITCH

DTC Logic

NOTE:

- If DTC B2620 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B2620 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detection condition	Possible cause
B2620	NEUTRAL SW	BCM detects the following status for 10 seconds 3 times • Park/neutral position switch input: Battery voltage • Vehicle speed: 40 km/h (24.8 MPH) or more	Harness or connector (CAN communication line is open or shorted.) Harness or connector (Park/neutral position switch circuit is open or shorted) Park/neutral position switch Combination meter BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Start the engine.
- 2. Drive vehicle at a speed of 40 km/h (24.8 MPH) or more for 10 seconds.
- 3. Decrease the vehicle speed to below 40 km/h (24.8 MPH).
- 4. Repeat steps 2 and 3 twice (a total of 3 times).
- 5. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK DTC OF COMBINATION METER

Check DTC in "Self Diagnostic Result" mode of "METER/M&A" using CONSULT.

Refer to MWI-33, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK FUSE

- Turn power switch OFF.
- Check that the following fuse in the fuse block (J/B) is not blown.

Signal name	Fuse No.
Ignition power supply	5 (10 A)

Is the fuse blown (open)?

YES >> Replace the blown fuse after repairing the cause of blowing.

NO >> GO TO 3.

3.check park/neutral position switch power supply

- Turn ignition switch OFF.
- 2. Disconnect park/neutral position switch connector.
- 3. Turn ignition switch ON.
- Check voltage between park/neutral position switch harness connector and ground.

SEC

INFOID:0000000012202181

Α

D

Е

L

M

Ν

. .

Р

B2620 PARK/NEUTRAL POSITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	+)	(-)	Voltage (V)	
Park/neutral	position switch		(Approx.)	
Connector	Terminal			
F49	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK PARK/NEUTRAL POSITION SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Connect park/neutral position switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between BCM harness connector and ground.

(+) BCM		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(
M70	102	Ground	Shift lever Neutral position		Battery voltage
IVI7O	102	Ground	Still level	Except neutral position	0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

6. CHECK PARK/NEUTRAL POSITION SWITCH SIGNAL CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect park/neutral position switch connector.
- 3. Disconnect BCM connector.
- 4. Check continuity between park/neutral position switch harness connector and BCM harness connector.

Park/neutral position switch		BCM		Continuity
Connector	Terminal	Connector Terminal		Continuity
F49	3	M70	102	Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK PARK/NEUTRAL POSITION SWITCH

Refer to SEC-87, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace park/neutral position switch. Refer to TM-24, "Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

B2620 PARK/NEUTRAL POSITION SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Component Inspection

INFOID:0000000012202182

Α

В

D

Е

F

Н

1. CHECK PARK/NEUTRAL POSITION SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect park/neutral position switch connector.
- 3. Check continuity between park/neutral position switch terminals.

Park/neutral	position switch	Condition		Continuity	
Terminal		Condition		Continuity	
2	3	Shift lever	Neutral position	Existed	
2	3	Still level	Except neutral position	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace park/neutral position switch. Refer to <u>TM-24, "Removal and Installation"</u>.

SEC

J

L

M

Ν

0

Р

B26E8 CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26E8 CLUTCH INTERLOCK SWITCH

DTC Logic

NOTE:

- If DTC B26E8 is displayed with DTC B210F, first perform the trouble diagnosis for DTC B210F. Refer to BCS-83, "DTC Logic".
- If DTC B26E8 is displayed with DTC B2110, first perform the trouble diagnosis for DTC B2110. Refer to BCS-84, "DTC Logic".

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detection condition	Possible cause
B26E8	CLUTCH SW	BCM detects the following conditions for 2 seconds or more. • Clutch pedal position switch input (CAN) from ECM: ON (Clutch pedal is released) • Clutch interlock switch signal: ON (Clutch pedal is depressed)	Harness or connector (CAN communication line is open or shorted) (Clutch interlock switch circuit is open or shorted) (Clutch pedal position switch circuit is open or shorted) Clutch interlock switch BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE 1

- 1. Turn ignition switch ON.
- 2. Wait 2 seconds or more under the following conditions.
- Shift lever: In the Neutral position.
- Clutch pedal: Depressed
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

- 1. Release clutch pedal and wait 2 seconds or more.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202184

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 3.

2.CHECK CLUTCH PEDAL POSITION SWITCH CIRCUIT

Refer to EC-572, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

3.CHECK FUSE

- 1. Turn power switch OFF.
- 2. Check that the following fuse in the fuse block (J/B) is not blown.

Revision: November 2015 SEC-88 2016 JUKE

B26E8 CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Signal name	Fuse No.
_	
Battery power supply	13 (10 A)

Is the fuse blown (open)?

>> Replace the blown fuse after repairing the cause of blowing.

NO

f 4 . CHECK CLUTCH INTERLOCK SWITCH POWER SUPPLY

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

Clutch inte	+) rlock switch	(-)	Voltage (V) (Approx.)	
Connector	Terminal		() ; ,	
E29	3	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

${f 5}$.CHECK CLUTCH INTERLOCK SWITCH SIGNAL

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

(+) BCM		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(
M70	101	Ground	Clutch pedal	Depressed	Battery voltage
IVI7U	101	Giouna	Ciuton pedal	Not depressed	0

Is the inspection result normal?

YES >> GO TO 9.

NO >> GO TO 6.

$oldsymbol{6}$.CHECK CLUTCH INTERLOCK SWITCH SIGNAL CIRCUIT

- Disconnect clutch interlock switch connector.
- 2. Disconnect BCM connector.
- Check continuity between clutch interlock switch harness connector and BCM harness connector.

Clutch interlock switch		В	Continuity	
Connector	Terminal	Connector Terminal		Continuity
E29	4	M70	101	Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.check clutch interlock switch

Refer to SEC-90, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace clutch interlock switch. Refer to TM-24, "Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

SEC

Α

В

D

Е

Н

Ν

Р

Revision: November 2015

B26E8 CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

9. REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- 2. Perform initialization of BCM and registration of all Intelligent Key using CONSULT.

>> INSPECTION END

Component Inspection

INFOID:0000000012202185

1. CHECK CLUTCH INTERLOCK SWITCH

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

.

Clutch inte	rlock switch	Condition		Continuity	
Terminal		Condition		Continuity	
2	3 4 Clutch pedal	Clutch nodal	Depressed	Existed	
		Ciuton pedai	Not depressed	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace clutch interlock switch. Refer to TM-24, "Removal and Installation".

B26F3 STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26F3 STARTER CONTROL RELAY

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B26F3 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B26F3 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26F3	START CONT RLY ON	BCM requests IPDM E/R to turn starter control relay OFF, but BCM cannot receive starter control relay OFF state signal from IPDM E/R (CAN).	Harness or connectors (CAN communication line is open or shorted.) IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Press push-button ignition switch under the following conditions to start engine.

CVT models

- Selector lever: In the P position
- Brake pedal: Depressed

M/T models

- Shift lever: In the Neutral position
- Clutch pedal: Depressed
- Wait 2 seconds after engine started.
- 3. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK DTC OF IPDM E/R

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

Is DTC detected?

YES >> Perform the diagnosis procedure related to the detected DTC. Refer to PCS-24, "DTC Index".

SEC-91

NO >> GO TO 2.

2.check intermittent incident

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

SEC

M

Ν

Р

INFOID:0000000012202187

Α

В

D

Е

F

Н

SEC

2016 JUKE

B26F4 STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26F4 STARTER CONTROL RELAY

DTC Logic

DTC DETECTION LOGIC

NOTE:

- If DTC B26F4 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B26F4 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26F4	START CONT RELAY OFF	BCM requests IPDM E/R to turn starter control relay ON, but BCM cannot receive starter control relay ON state signal from IPDM E/R.	Harness or connectors (CAN communication line is open or shorted.) IPDM E/R

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

 Press push-button ignition switch under the following conditions to start engine, and wait 1 second or more.

CVT models

- Selector lever: In the P position
- Brake pedal: Depressed

M/T models

- Shift lever: In the Neutral position
- Clutch pedal: Depressed
- 2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202189

1. CHECK DTC OF IPDM E/R

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

Is DTC detected?

YES >> Perform the diagnosis procedure related to the detected DTC. Refer to PCS-24, "DTC Index".

NO >> GO TO 2.

2.check intermittent incident

Refer to GI-45, "Intermittent Incident".

B26F7 BCM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26F7 BCM

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26F7	BCM	Inside key antenna output circuit in BCM is malfunctioning.	BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Press door request switch.
- 2. Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1.INSPECTION START

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "BCM" using CONSULT.
- 3. Touch "ERASE".
- 4. Perform DTC CONFIRMATION PROCEDURE for DTC B26F7. Refer to SEC-93, "DTC Logic".

Is DTC detected?

YES >> GO TO 2.

NO >> INSPECTION END

2.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

SEC

Α

В

D

Е

F

Н

INFOID:0000000012202191

Ν

0

Р

B26F8 BCM

DTC Logic

DTC DETECTION LOGIC

NOTE:

DTC B26F8 can be detected even though the related circuit is not used in this vehicle.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26F8	ВСМ	Starter control replay control signal and feedback circuit signal (inside BCM) does not match.	ВСМ

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON and wait 1 second.
- 2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202193

1.INSPECTION START

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "BCM" using CONSULT.
- 3. Touch "ERASE".
- 4. Perform DTC CONFIRMATION PROCEDURE for DTC B26F8. Refer to <u>SEC-94</u>, "DTC Logic".

Is DTC detected?

YES >> GO TO 2.

NO >> INSPECTION END

2.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

B26F9 CRANKING REQUEST CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26F9 CRANKING REQUEST CIRCUIT

DTC Logic INFOID:000000012202194

DTC DETECTION LOGIC

NOTE:

- If DTC B26F9 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B26F9 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26F9	CRANK REQ CIR SHORT	BCM detects that the status of the following signals does not match. • Cranking request signal from ECM • Starter control relay control signal from ECM (CAN)	Harness or connectors (CAN communication line is open or shorted.) Harness or connectors (Cranking request signal circuit is open or shorted.) ECM BCM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION

- 1. Perform DTC CONFIRMATION PROCEDURE for DTC P1650. Refer to EC-492, "DTC Logic".
- Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK CRANKING REQUEST SIGNAL

1. Turn ignition switch ON.

2. Check voltage between BCM harness connector and ground under the following conditions.

(+ BC		(–)		Condition	Voltage (V) (Approx.)	
Connector	Terminal					
			Ignition switch OFF		3.6	_
				Engine: Stopped Selector lever position: P	0	
M69	64	Ground	Ignition switch ON	Engine: Stopped Selector lever position: Other than P	12	
				Engine running	12	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CRANKING REQUEST SIGNAL CIRCUIT

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

SEC

Р

INFOID:0000000012202195

Α

В

D

Е

F

Н

Revision: November 2015 SEC-95 2016 JUKE

B26F9 CRANKING REQUEST CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

В	CM	E	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M69	64	F26	92	Existed

5. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector Terminal		Ground	Continuity
M69 64			Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94, "Removal and Installation".
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.
- 3. Perform DTC CONFIRMATION PROCEDURE for DTC B26F9. Refer to SEC-95, "DTC Logic".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE ECM

Replace ECM.

Refer to EC-590, "Removal and Installation".

B26FA CRANKING REQUEST CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26FA CRANKING REQUEST CIRCUIT

DTC Logic INFOID:000000012202196

DTC DETECTION LOGIC

NOTE:

- If DTC B26FA is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B26FA is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26FA	CRANK REQ CIR OPEN	BCM detects that the status of the following signals does not match. • Cranking request signal from ECM • Starter control relay control signal from ECM (CAN)	Harness or connectors (CAN communication line is open or shorted.) Harness or connectors (Cranking request signal circuit is open or shorted.) BCM ECM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION

- 1. Perform DTC CONFIRMATION PROCEDURE for DTC P1650. Refer to EC-492, "DTC Logic".
- Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

YES >> Go to <u>SEC-97</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK CRANKING REQUEST SIGNAL

1. Turn ignition switch ON.

2. Check voltage between BCM harness connector and ground under the following conditions.

(+) BCM		(-)		Condition	
Connector	Terminal				(Approx.)
			Ignition switch OFF		3.6
M69		Ground		Engine: Stopped Selector lever position: P	0
	64		Ground Ignition switch ON	Engine: Stopped Selector lever position: Other than P	12
				Engine running	12

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CRANKING REQUEST SIGNAL CIRCUIT

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

SEC

Ν

Р

INFOID:0000000012202197

Α

В

D

Е

F

Н

Revision: November 2015 SEC-97 2016 JUKE

B26FA CRANKING REQUEST CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

В	CM	E	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M69	64	F26	92	Existed

5. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector Terminal		Ground	Continuity
M69 64			Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.REPLACE BCM

- Replace BCM. Refer to <u>EC-590, "Removal and Installation"</u>.
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.
- Perform DTC CONFIRMATION PROCEDURE for DTC B26FA. Refer to <u>SEC-97, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE ECM

Replace ECM.

Refer to EC-590, "Removal and Installation".

B26FB CLUTCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26FB CLUTCH SWITCH

DTC Logic INFOID:0000000012202198

DTC DETECTION LOGIC

NOTE:

- If DTC B26FB is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-83, "DTC Logic".
- If DTC B26FB is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-84, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detection condition	Possible cause
B26FB	CLUTCH SW	BCM receives the abnormal signal of clutch pedal position switch from ECM via CAN communication.	Harness or connector (CAN communication line is open or shorted) (Clutch pedal position switch circuit is open or shorted.)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

YES >> Go to SEC-99, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.INSPECTION START

- 1. Turn ignition switch ON.
- Select "Self diagnostic result" mode of BCM using CONSULT.
- Touch "ERASE".
- Perform DTC CONFIRMATION PROCEDURE for DTC B26FB. Refer to <u>SEC-99</u>, "DTC Logic".

Is DTC detected?

YES >> GO TO 2.

NO >> INSPECTION END

2.CHECK CLUTCH PEDAL POSITION SWITCH CIRCUIT

Refer to EC-572, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

SEC

Α

В

D

Е

F

Н

INFOID:0000000012202199

M

Ν

Р

B26FC KEY REGISTRATION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26FC KEY REGISTRATION

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26FC	KEY REGISTRATION	Intelligent Key that does not match the vehicle is registered.	Improper registration operationIntelligent KeyBCM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.
- 2. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202201

1. REPLACE INTELLIGENT KEY

- Prepare Intelligent Key that matches the vehicle.
- Perform initialization of BCM and registration of Intelligent Key using CONSULT.
- 3. Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

YES >> GO TO 2.

NO >> INSPECTION END

2.REPLACE BCM

- 1. Replace BCM. Refer to BCS-94. "Removal and Installation".
- Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

B209F CRANKING REQUEST CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B209F CRANKING REQUEST CIRCUIT

DTC Logic

DTC DETECTION LOGIC

NOTE:

If DTC B209F is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-31, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B209F	CRANK REQ CIR OPEN	When the following items do not match, a malfunction is detected. Cranking request signal from ECM Starter control relay control signal from ECM (CAN)	Harness or connectors (CAN communication line is open or shorted.) Harness or connectors (Cranking request signal circuit is open or shorted.) IPDM E/R ECM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Perform DTC CONFIRMATION PROCEDURE for DTC P1650. Refer to EC-492, "DTC Logic".
- 2. Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-101</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012202203

1. CHECK CRANKING REQUEST SIGNAL

- Turn ignition switch ON.
- 2. Check voltage between IPDM E/R harness connector and ground under the following conditions.

(+) IPDM E/R		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal]			(17 - 7
			Ignition switch OFF		3.6
E13	23 Ground	Ignition switch ON	Engine: Stopped Selector lever position: P	0	
			Engine: Stopped Selector lever position: Other than P	12	
				Engine running	12

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CRANKING REQUEST SIGNAL CIRCUIT

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

SEC

Α

В

D

Е

Н

 \mathbb{N}

Ν

0

Revision: November 2015 SEC-101 2016 JUKE

B209F CRANKING REQUEST CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IPDN	M E/R	E	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E13	23	F26	92	Existed

5. Check continuity between BCM harness connector and ground.

IPDI	M E/R		Continuity
Connector Terminal		Ground	Continuity
E13	23		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.REPLACE IPDM E/R

- 1. Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".
- Perform DTC CONFIRMATION PROCEDURE for DTC B209F. Refer to <u>SEC-101, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE ECM

Replace ECM.

Refer to EC-590, "Removal and Installation".

B20A0 CRANKING REQUEST CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B20A0 CRANKING REQUEST CIRCUIT

DTC Logic

DTC DETECTION LOGIC

NOTE:

If DTC B20A0 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-31, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B20A0	CRANK REQ CIR SHORT	When the following items do not match, a malfunction is detected. Cranking request signal from ECM Starter control relay control signal from ECM (CAN)	Harness or connectors (CAN communication line is open or shorted.) Harness or connectors (Cranking request signal circuit is open or shorted.) IPDM E/R ECM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Perform DTC CONFIRMATION PROCEDURE for DTC P1650. Refer to EC-492, "DTC Logic".
- 2. Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-103</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK CRANKING REQUEST SIGNAL

Turn ignition switch ON.

2. Check voltage between IPDM E/R harness connector and ground under the following conditions.

(+) IPDM E/R		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				\ rr - /
			Ignition switch OFF		3.6
				Engine: Stopped Selector lever position: P	0
E13	23	23 Ground	Ignition switch ON	Engine: Stopped Selector lever position: Other than P	12
				Engine running	12

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CRANKING REQUEST SIGNAL CIRCUIT

Turn ignition switch OFF.

Revision: November 2015

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

SEC

Α

В

D

Е

Н

INFOID:0000000012202205

...

Ν

0

B20A0 CRANKING REQUEST CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IPDN	M E/R	E	CM	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E13	23	F26	92	Existed

5. Check continuity between BCM harness connector and ground.

IPDI	M E/R		Continuity
Connector Terminal		Ground	Continuity
E13	23		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.REPLACE IPDM E/R

- 1. Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".
- Perform DTC CONFIRMATION PROCEDURE for DTC B20A0. Refer to <u>SEC-103, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE ECM

Replace ECM.

Refer to EC-590, "Removal and Installation".

B210B STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B210B STARTER CONTROL RELAY

DTC Logic INFOID:0000000012202206

DTC DETECTION LOGIC

NOTE:

If DTC B210B is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-31, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	
B210B	STR CONT RLY ON CIRC	When comparing the following items, IPDM E/R detects that starter control relay is stuck in the ON position for 5 seconds or more. • Starter control relay signal (CAN) from BCM • Starter relay status signal (CAN) from BCM • Starter control relay and starter relay status signal (IPDM E/R input) • Starter control relay control signal (IPDM E/R output) • P/N position signal input • Ignition power supply No.2 signal from BCM	Harness or connectors (CAN communication line is open or shorted. (Ignition power supply No.2 circuit is open or shorted.) IPDM E/R BCM]

DTC CONFIRMATION PROCEDURE

PERFORM DTC CONFIRMATION PROCEDURE 1

Press push-button ignition switch under the following conditions to start engine, and wait 5 seconds or more.

CVT models

- Selector lever: In the P position
- Brake pedal: Depressed

M/T models

- Shift lever: In the Neutral position
- Clutch pedal: Depressed
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

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

NO (M/T models)>>INSPECTION END

NO (CVT models)>>GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

- Stop engine.
- Perform DTC CONFIRMATION PROCEDURE for DTC P1650. Refer to EC-492. "DTC Logic". 2.
- Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

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

>> INSPECTION END

Diagnosis Procedure

1. CHECK SELF DIAGNOSTIC RESULT

Select "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

What is the display history of DTC "B210B"?

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

"PAST" >> GO TO 2.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

SEC

Н

Α

В

Ν

INFOID:0000000012202207

2016 JUKE

SEC-105

B210B STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B210C STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B210C STARTER CONTROL RELAY

DTC Logic INFOID:0000000012202208

DTC DETECTION LOGIC

NOTE:

- If DTC B210C is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-31, "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	When comparing the following items, IPDM E/R detects that starter control relay is stuck in the OFF position for 5 seconds or more. • Starter control relay signal (CAN) from BCM • Starter relay status signal (CAN) from BCM • Starter control relay and starter relay status signal (IPDM E/R input) • Starter control relay control signal (IPDM E/R output) • P/N position signal input • Ignition power supply No.2 signal from BCM	Harness or connectors (CAN communication line is open or shorted. (Ignition power supply No.2 circuit is open or shorted.) IPDM E/R BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Press push-button ignition switch under the following conditions to start engine, and wait 5 seconds or more.

CVT models

- Selector lever: In the P position
- Brake pedal: Depressed

M/T models

- Shift lever: In the Neutral position
- Clutch pedal: Depressed
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

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

NO (M/T models)>>INSPECTION END

NO (CVT models)>>GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

- 1. Stop engine.
- Perform DTC CONFIRMATION PROCEDURE for DTC P1650. Refer to EC-492, "DTC Logic".
- Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

YES >> Refer to <u>SEC-107</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

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.

Α

В

D

Е

Н

SEC

M

N

INFOID:0000000012202209

B210C STARTER CONTROL RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

$\overline{2}$.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-97, "How to Handle Battery".

3.CHECK P/N POSITION SIGNAL CIRCUIT VOLTAGE

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

CVT models

Condition		Voltage (V)			
11	DorN				
	DanN				
position	P or N	9 - 16			
Condition		Voltage (V)			
				Doproceed	6 - 16
					Condition ch pedal Depressed

Is the inspection result normal?

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

NO >> GO TO 4.

4. CHECK P/N POSITION SIGNAL CIRCUIT

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

IPDM E/R		ВСМ		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E15	48	M70	102	Existed

Is the inspection result normal?

YES >> Replace BCM. Refer to PCS-37, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

[WITH INTELLIGENT KEY SYSTEM]

B210D STARTER RELAY

DTC Logic INFOID:0000000012202210

DTC DETECTION LOGIC

NOTE:

If DTC B210D is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-31, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	
B210D	STARTER RLY ON CIRC	When comparing the following items, IPDM E/R detects that starter relay is stuck in the ON position for 5 seconds or more. • Starter control relay signal (CAN) from BCM • Starter relay status signal (CAN) from BCM • Starter control relay and starter relay status signal (IPDM E/R input) • Starter control relay control signal (IPDM E/R output) • P/N position signal input • Ignition power supply No.2 signal from BCM	Harness or connectors (CAN communication line is open or shorted.) (Ignition power supply No.2 circuit is open or shorted.) BCM IPDM E/R	

DTC CONFIRMATION PROCEDURE

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

Press push-button ignition switch under the following conditions to start engine, and wait 5 seconds or more.

CVT models

- Selector lever: In the P position
- Brake pedal: Depressed

M/T models

- Shift lever: In the Neutral position
- Clutch pedal: Depressed
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

>> Go to <u>SEC-109</u>, "<u>Diagnosis Procedure</u>".

NO (M/T models)>>INSPECTION END

NO (CVT models>>GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

- Stop engine.
- 2. Perform DTC CONFIRMATION PROCEDURE for DTC P1650. Refer to EC-492. "DTC Logic".
- Turn ignition switch ON.
- 4. Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

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 CIRCUIT VOLTAGE

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

SEC-109 Revision: November 2015 2016 JUKE SEC

Α

В

M

Ν

INFOID:0000000012202211

B210D STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)				
IPDI	M E/R	(–)	Condition		Voltage (V)
Connector	Terminal				
E13	30	Ground	Ignition switch ON	Select lever P or N	6 - 16

Is the inspection result normal?

Approx. 12 V>>Replace IPDM E/R. Refer to <u>PCS-37, "Removal and Installation"</u>. Approx. 0 V>>GO TO 3.

3.CHECK STARTER RELAY CONTROL CIRCUIT

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

IPDI	/I E/R		Continuity
Connector	Connector Terminal		Continuity
E13	30		Not existed

Is the inspection result normal?

YES >> Perform the diagnosis procedure for DTC B2608 of BCM. Refer to BCS-62, "DTC Index".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

B210E STARTER RELAY

DTC Logic INFOID:0000000012202212

DTC DETECTION LOGIC

NOTE:

- If DTC B210E is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-31, "DTC Logic".
- If DTC B210E is displayed with DTC B2605, first perform the trouble diagnosis for DTC B2605. Refer to SEC-77, "DTC Logic".
- When IPDM E/R power supply voltage is low (Approx. 7 8 V for about 1 second), the DTC B210E may be detected.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210E	STARTER RLY OFF CIRC	When comparing the following items, IPDM E/R detects that starter relay is stuck in the OFF position for 5 seconds or more. • Starter control relay signal (CAN) from BCM • Starter relay status signal (CAN) from BCM • Starter control relay and starter relay status signal (IPDM E/R input) • Starter control relay control signal (IPDM E/R output) • P/N position signal input • Ignition power supply No.2 signal from BCM	Harness or connector (CAN communication line is open or shorted.) Harness or connector (Starter relay circuit is open or shorted.) IPDM E/R BCM Battery

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

Press push-button ignition switch under the following conditions to start engine, and wait 5 seconds or more.

CVT models

Selector lever: In the P position

Brake pedal: Depressed

M/T models

- Shift lever: In the Neutral position
- Clutch pedal: Depressed
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

>> Go to SEC-111, "Diagnosis Procedure".

NO (M/T models)>>INSPECTION END

NO (CVT models)>>GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE 2

- 1. Stop engine.
- Perform DTC CONFIRMATION PROCEDURE for DTC P1650. Refer to EC-492, "DTC Logic".
- Turn ignition switch ON.
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

>> Refer to <u>SEC-109</u>, "<u>Diagnosis Procedure</u>". YES

>> INSPECTION END NO

Diagnosis Procedure

What is the display history of DTC "B210E"?

"CRNT">> GO TO 3.

SEC

Α

В

D

Е

N

Р

INFOID:0000000012202213

1. CHECK SELF DIAGNOSTIC RESULT

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

B210E STARTER RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

"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-97, "How to Handle Battery".

3. CHECK STARTER RELAY CONTROL CIRCUIT VOLTAGE

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

(+)				
IPDM E/R		(–)	Condition		Voltage (V)
Connector	Terminal				
E13	30	Ground	Ignition switch ON	Select lever P or N	6 - 16

Is the inspection result normal?

Approx. 12 V>>GO TO 4.

Approx. 0 V>>Replace IPDM E/R. Refer to PCS-37, "Removal and Installation".

4. CHECK STARTER RELAY CONTROL 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.

ВСМ		IPDM E/R		Continuity
Connector Terminal		Connector	Terminal	Continuity
M70	97	E13	30	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M70	97		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to PCS-37, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

B210F SHIFT POSITION/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B210F SHIFT POSITION/CLUTCH INTERLOCK SWITCH

DTC Logic INFOID:0000000012202214

DTC DETECTION LOGIC

NOTE:

If DTC B210F is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-31, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B210F	INTRLCK/PNP SW ON	There is a difference between P/N position signal from transmission range switch and P/N position signal from BCM (CAN).	Harness or connectors (CAN communication line is open or shorted.) 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. Shift selector lever to the P position.
- Turn ignition switch ON and wait 1 second or more.
- Shift selector lever to the N position and wait 1 second or more.
- 4. Shift selector lever to any position other than P and N, and wait 1 second or more.
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

YES >> Go to SEC-113, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK DTC OF BCM

Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to <u>BCS-62, "DTC_Index"</u>.

NO >> GO TO 2.

2. CHECK DTC OF TCM

Check DTC in "Self Diagnostic Result" mode of "TCM" using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to TM-203, "DTC Index".

NO >> GO TO 3.

$3. {\sf CHECK}$ IPDM E/R SIGNAL CIRCUIT OPEN AND SHORT

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

IPDM E/R		Transmission range switch		Continuity
Connector	Connector Terminal		Terminal	Continuity
E15	48	F27	2	Existed

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

SEC

INFOID:0000000012202215

Α

В

D

Е

Н

N

SEC-113 Revision: November 2015 2016 JUKE

B210F SHIFT POSITION/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)			
IPDI	M E/R	(–)	Continuity	
Connector	Connector Terminal			
E15	48	Ground	Not existed	

Is the inspection result normal?

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

NO >> Repair or replace harness.

B2110 SHIFT POSITION/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2110 SHIFT POSITION/CLUTCH INTERLOCK SWITCH

Α DTC Logic INFOID:0000000012202216

DTC DETECTION LOGIC

NOTE:

If DTC B2110 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to PCS-31, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2110	INTRLCK/PNP SW OFF	There is a difference between P/N position signal from transmission range switch and P/N position signal from BCM (CAN).	Harness or connectors (CAN communication line is open or shorted.) 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. Shift selector lever to the P position.
- Turn ignition switch ON and wait 1 second or more.
- Shift selector lever to the N position and wait 1 second or more.
- 4. Shift selector lever to any position other than P and N, and wait 1 second or more.
- Check DTC in "Self Diagnostic Result" mode of "IPDM E/R" using CONSULT.

Is DTC detected?

YES >> Go to SEC-115, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK DTC OF BCM

Check DTC in "Self Diagnostic Result" mode of "BCM" using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to <u>BCS-62, "DTC_Index"</u>.

NO >> GO TO 2.

2. CHECK DTC OF TCM

Check DTC in "Self Diagnostic Result" mode of "TCM" using CONSULT.

Is DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to TM-203, "DTC Index".

NO >> GO TO 3.

$3. {\sf CHECK}$ IPDM E/R SIGNAL CIRCUIT OPEN AND SHORT

- Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- Disconnect transmission range switch connector.
- 4. Check continuity between IPDM E/R harness connector and transmission range switch harness connector.

IPDM E/R		Transmission range switch		Continuity
Connector Terminal		Connector	Terminal	Continuity
E15	48	F27	2	Existed

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

SEC

INFOID:0000000012202217

В

D

Е

Н

N

SEC-115 Revision: November 2015 2016 JUKE

B2110 SHIFT POSITION/CLUTCH INTERLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)			
IPDM E/R		(–)	Continuity
Connector	Terminal		
E15	48	Ground	Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

HEADLAMP FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HEADLAMP FUNCTION

Component Function Check

INFOID:0000000012202218

INFOID:0000000012202219

Α

В

D

Е

F

Н

1. CHECK FUNCTION

- 1. Perform "HEAD LAMP(HI)" in "ACTIVE TEST" mode of "THEFT ALM" of "BCM" using CONSULT.
- Check headlamps operation.

Test item		Description	
HEAD LAMP (HI)	ON	Headlamps (Hi)	Light
	OFF	r leadiamps (r ii)	Do not light

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SEC-117</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK HEADLAMP FUNCTION

Refer to EXL-50, "Component Function Check" (Xenon type) or EXL-162, "Component Function Check" (Halogen type).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

SEC

Ν

0

Р

Revision: November 2015 SEC-117 2016 JUKE

< DTC/CIRCUIT DIAGNOSIS >

HORN FUNCTION

Component Function Check

INFOID:0000000012202220

1. CHECK FUNCTION

- Perform "VEHICLE SECURITY HORN" in "ACTIVE TEST" mode of "THEFT ALM" of "BCM" using CON-SULT.
- 2. Check the horn operation.

Tes	st item	Desc	ription
VEHICLE SECURITY HORN	ON	Horn	Sounds (for 0.5 sec)

Is the operation normal?

YES >> INSPECTION END

NO >> Go to SEC-118, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012202221

1. CHECK HORN FUNCTION

Check that horn functions properly using horn switch.

Do horns sound?

YES >> GO TO 2.

NO >> Check horn circuit. Refer to HRN-4, "Wiring Diagram".

2.CHECK HORN CONTROL CIRCUIT

- Disconnect horn relay.
- 2. Disconnect IPDM E/R connector.
- 3. Check continuity between IPDM E/R harness connector and horn relay harness connector.

IPDI	IPDM E/R Horn relay		Continuity	
Connector	Terminal	Connector	Terminal	Continuity
E13	34	E5	1	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

SECURITY INDICATOR LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SECURITY INDICATOR LAMP

Component Function Check

1.CHECK FUNCTION

1. Perform "THEFT IND" in "ACTIVE TEST" mode of "IMMU" of "BCM" using CONSULT.

2. Check security indicator lamp operation.

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

Is the inspection result normal?

YES >> INSPECTION END

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

Diagnosis Procedure

1. CHECK FUSE

1. Turn power switch OFF.

2. Check that the following fuse in the fuse block (J/B) is not blown.

Signal name	Fuse No.
Battery power supply	11 (10 A)

Is the fuse blown (open)?

YES >> Replace the blown fuse after repairing the cause of blowing.

NO >> GO TO 2.

2.CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

Disconnect combination meter connector.

2. Check voltage between combination meter harness connector and ground.

(+) Combination meter		(-)	Voltage (V) (Approx.)
Connector	Terminal		() ,
M34	27	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK SECURITY INDICATOR LAMP SIGNAL

1. Connect combination meter connector.

2. Disconnect BCM connector.

3. Check voltage between BCM harness connector and ground.

(+) BCM Connector Terminal		(-)	Voltage (V) (Approx.)

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4.REPLACE BCM

SEC

Α

В

D

Е

Н

INFOID:0000000012202222

INFOID:0000000012202223

M

N

Ν

0

Р

SECURITY INDICATOR LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- Replace BCM. Refer to <u>BCS-94, "Removal and Installation"</u>.
- 2. Perform initialization of BCM and registration of all Intelligent Keys using CONSULT.

>> INSPECTION END

5. CHECK SECURITY INDICATOR LAMP CIRCUIT

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

Combina	tion meter	В	CM	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M34	18	M68	23	Existed	

Check continuity between combination meter harness connector and ground.

Combination meter			Continuity
Connector Terminal		Ground	Continuity
M34	18		Not existed

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-64, "Removal and Installation".

NO >> Repair or replace harness.

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

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

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

Description INFOID:0000000012202224

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

- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- The engine start function, door lock function, power distribution system, and NATS-IVIS/NVIS in the Intelligent Key system are closely related to each other regarding control. The vehicle security function can operate only when the door lock and power distribution systems are operating normally.

Conditions of Vehicle (Operating Conditions)

- "ENGINE START BY I-KEY": ON Check the setting of "ENGINE START BY I-KEY" in "Work Support" mode of "INTELLIGENT KEY" of "BCM" using CONSULT.
- One or more of Intelligent Keys with registered Intelligent Key ID are in the vehicle.

Diagnosis Procedure

1.PERFORM WORK SUPPORT

Perform "INSIDE ANT DIAGNOSIS" in "Work Support" mode of "INTELLIGENT KEY" of BCM using CON-SULT.

Refer to DLK-28, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

>> GO TO 2.

2 .PERFORM SELF-DIAGNOSIS RESULT

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

Is DTC detected?

YES >> Refer to BCS-62, "DTC Index".

NO >> GO TO 3.

3 . CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.

Refer to PCS-78, "Component Function Check".

Is the operation normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection normal?

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

NO >> GO TO 1.

Α

В

D

Е

F

INFOID:0000000012202225

SEC

M

N

0

Р

2016 JUKE

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

Security indicator lamp does not blink when ignition switch is in a position other than ON. **NOTE:**

- Before performing the diagnosis, check "Work Flow". Refer to SEC-44, "Work Flow".
- Check that vehicle is under the condition shown in "CONDITIONS OF VEHICLE (OPERATING CONDITIONS)" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

Power supply position is not the ON position.

Diagnosis Procedure

INFOID:0000000012202227

1. CHECK SECURITY INDICATOR LAMP

Check security indicator lamp.

Refer to SEC-119, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

VEHICLE SECURITY SYSTEM CANNOT BE SET

< SYMPTOM DIAGNOSIS >

Is the result normal?

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY SYSTEM CANNOT BE SET	А
INTELLIGENT KEY: Description	
INTELLIGENT KEY: Description	В
Armed phase is not activated when all doors are locked using Intelligent Key. NOTE:	
Check that vehicle is under the condition shown in "CONDITIONS OF VEHICLE (OPERATING CONDITIONS)" before starting diagnosis, and check each symptom.	С
CONDITION OF VEHICLE (OPERATING CONDITIONS)	_
"SECURITY ALARM SET": ON Check the setting of "SECURITY ALARM SET" in "Work Support" mode of "THEFT ALM" of "BCM" using CONSULT.	D
INTELLIGENT KEY : Diagnosis Procedure	Е
1. CHECK INTELLIGENT KEY SYSTEM (REMOTE KEYLESS ENTRY FUNCTION)	_
Lock/unlock door with Intelligent Key. Refer to DLK-18, "REMOTE KEYLESS ENTRY FUNCTION: System Description".	Γ
Is the inspection result normal?	G
YES >> GO TO 2. NO >> Check Intelligent Key system (remote keyless entry function). Refer to <u>DLK-97, "Diagnosis Procedure".</u>	
2.CONFIRM THE OPERATION	Н
Confirm the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".	
NO >> GO TO 1.	
DOOR REQUEST SWITCH	J
DOOR REQUEST SWITCH : Description	
Armed phase is not activated when all doors are locked using door request switch. NOTE:	SEC
Check that vehicle is under the condition shown in "CONDITIONS OF VEHICLE (OPERATING CONDITIONS)" before starting diagnosis, and check each symptom.	L
CONDITION OF VEHICLE (OPERATING CONDITIONS)	
"SECURITY ALARM SET": ON Check the setting of "SECURITY ALARM SET" in "Work Support" mode of "THEFT ALM" of "BCM" using	M
CONSULT.	
DOOR REQUEST SWITCH : Diagnosis Procedure	Ν
1. CHECK INTELLIGENT KEY SYSTEM (DOOR LOCK FUNCTION)	
Lock/unlock door with door request switch. Refer to DLK-14, "DOOR LOCK FUNCTION: System Description".	0
Is the inspection result normal?	
YES >> GO TO 2. NO >> Check Intelligent Key system (door lock function). Refer to <u>DLK-93, "ALL DOOR REQUEST SWITCHES: Diagnosis Procedure"</u> .	Р
2.CONFIRM THE OPERATION	
Confirm the operation again.	

Revision: November 2015 SEC-123 2016 JUKE

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

VEHICLE SECURITY SYSTEM CANNOT BE SET

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> GO TO 1.

DOOR KEY CYLINDER

DOOR KEY CYLINDER: Description

INFOID:0000000012202232

ARMED phase is not activated when all doors are locked using mechanical 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)

· SECURITY ALARM SET: ON

Check the setting of "SECURITY ALARM SET" in "Work Support" mode of "THEFT ALM" of "BCM" using CONSULT.

DOOR KEY CYLINDER: Diagnosis Procedure

INFOID:0000000012202233

1. CHECK POWER DOOR LOCK SYSTEM

Lock or unlock doors using mechanical key.

Refer to DLK-11, "System Description".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check power door lock system. Refer to DLK-96, "Diagnosis Procedure".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH: Description

INFOID:0000000012202234

Armed phase is not activated when all doors are locked by door lock and unlock switch.

NOTE:

Check that vehicle is under the condition shown in "CONDITIONS OF VEHICLE (OPERATING CONDITIONS)" before starting diagnosis, and check each symptom.

CONDITION OF VEHICLE (OPERATING CONDITIONS)

"SECURITY ALARM SET": ON

Check the setting of "SECURITY ALARM SET" in "Work Support" mode of "THEFT ALM" of "BCM" using CONSULT.

DOOR LOCK AND UNLOCK SWITCH: Diagnosis Procedure

INFOID:0000000012202235

1. CHECK DOOR LOCK FUNCTION

Lock/unlock door using mechanical key inserted into door key cylinder.

Refer to DLK-11, "System Description".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check Intelligent Key system (remote keyless entry function). Refer to <u>DLK-90, "ALL DOOR</u>: Diagnosis Procedure".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

VEHICLE SECURITY ALARM DOES NOT ACTIVATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Р

VEHICLE SECURITY ALARM DOES NOT ACTIVATE Α Description INFOID:0000000012202236 Alarm does not operate when alarm operating condition is satisfied. В NOTE: Check that vehicle is under the condition shown in "CONDITIONS OF VEHICLE (OPERATING CONDI-TIONS)" before starting diagnosis, and check each symptom. CONDITION OF VEHICLE (OPERATING CONDITIONS) "SECURITY ALARM SET": ON Check the setting of "SECURITY ALARM SET" in "Work Support" mode of "THEFT ALM" of "BCM" using D CONSULT. Diagnosis Procedure INFOID:0000000012202237 Е 1. CHECK DOOR SWITCH Check door switch. Refer to DLK-77, "Component Function Check". Is the inspection result normal? >> GO TO 2. YES NO >> Replace the malfunctioning door switch 2.CHECK HEADLAMPS FUNCTION Check head lamps function. Н Refer to SEC-117, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.check horn function Check horn function. Refer to SEC-118, "Component Function Check". Is the inspection result normal? SEC YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". NO >> GO TO 1. Ν

Revision: November 2015 SEC-125 2016 JUKE

INFOID:0000000012202238

REMOVAL AND INSTALLATION

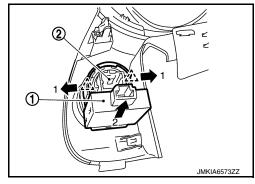
NATS ANTENNA AMP.

Removal and Installation

REMOVAL

- 1. Remove the cluster lid A. Refer to IP-13, "Removal and Installation".
- 2. Remove the NATS antenna amp.
 - 1. Disengage the NATS antenna amp. (1) fixing pawls using remover tool.
 - 2. Pull NATS antenna amp. to remove it from push-button ignition switch (2).





INSTALLATION

Install in the reverse order of removal.

PUSH-BUTTON IGNITION SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

PUSH-BUTTON IGNITION SWITCH

Removal and Installation

INFOID:0000000012202239

Α

В

C

D

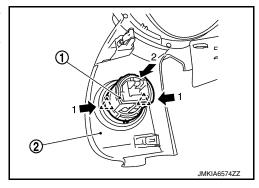
Е

F

REMOVAL

- 1. Remove the NATS antenna amp. Refer to IP-13, "Removal and Installation".
- 2. Remove the push-button ignition switch.
 - 1. Disengage the push-button ignition switch (1) fixing pawls using remover tool.
 - 2. Press the push-button ignition switch to remove it from cluster lid A (2).





INSTALLATION

Install in the reverse order of removal.

Н

SEC

J

M

L

Ν

0

Р