SECURITY CONTROL SYSTEM

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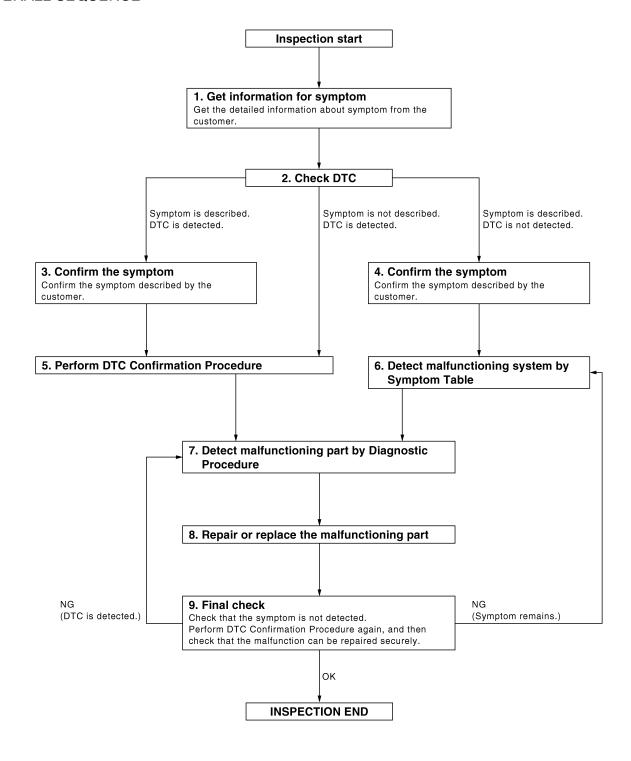
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

- Check DTC for Intelligent Key unit and BCM.
- Perform the following procedure if DTC is displayed.
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- Check related service bulletins for information.

Is any symptom described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.

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

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.

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

>> GO TO 6. 5 . PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. If two or more DTCs are detected, refer to SEC-115, "DTC Inspection Priority Chart" (Intelligent Key unit) SEC-108, "DTC Inspection Priority Chart" (BCM) and determine trouble diagnosis order.

Is DTC detected?

YES >> GO TO 7.

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

O.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to Symptom Table based on the confirmed symptom in step 4.

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

>> GO TO 8.

>> GO TO 7.

f 8.REPAIR OR REPLACE THE MALFUNCTIONING PART

- Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replace-2. ment.
- Check DTC. If DTC is displayed, erase it.

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

>> GO TO 9.

9. FINAL CHECK

When DTC was detected in step 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.

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

Are all malfunctions corrected?

NO (DTC is detected)>>GO TO 7. NO (Symptom remains)>>GO TO 6. YES >> INSPECTION END

INSPECTION AND ADJUSTMENT [WITH INTELLIGENT KEY SYSTEM] < BASIC INSPECTION > INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description INEOID:0000000006202319 Perform the system initialization when replacing BCM, ECM, Intelligent Key unit or steering lock unit with a used parts or registering an additional Intelligent Key or mechanical key. ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:0000000006202320 Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS. ECM RE-COMMUNICATING FUNCTION ECM RE-COMMUNICATING FUNCTION: Description INFOID:0000000006202321 Performing following procedure can automatically perform re-communication of ECM and BCM, but only when the ECM has been replaced with a new one (*1). *1: New one means a virgin ECM which has never been energized on-board. (In this step, initialization procedure by CONSULT-III is not necessary) NOTE: When registering new Key IDs or replacing the ECM that is not brand new, refer to CONSULT-III Operation Manual NATS-IVIS/NVIS. If multiple keys are attached to the key holder, separate them before work. • Distinguish keys with unregistered key ID from those with registered ID. ECM RE-COMMUNICATING FUNCTION: Special Repair Requirement INFOID:0000000006202322 1. PERFORM ECM RE-COMMUNICATING FUNCTION 1. Install ECM. Using a registered key (*2), turn ignition switch to "ON".

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

Can engine be started?

YES >> Procedure is completed.

NO >> Initialize control unit. Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS. SEC

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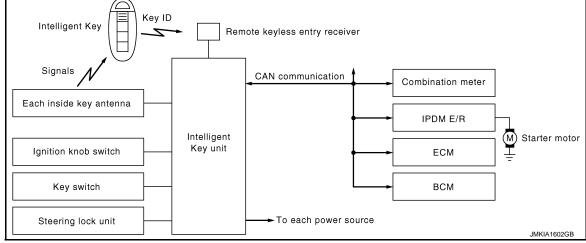
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SYSTEM DESCRIPTION

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

System Diagram

INFOID:0000000006202323



System Description

INFOID:0000000006202324

INPUT/OUTPUT SIGNAL CHART

Intelligent Key Unit

3					
Sw	itch/Input signal	Input signal to Intelligent Key unit	Intelligent Key unit function	Actuator/Output signal	
Key switch		Mechanical key (insert/remove)	Engine start function		
Ignition kno	bb switch	Ignition knob (press/release)		KEY warning lamp/buzzer Steering lock unit Storter relevations (to IDDM E/	
Steering lo	ck unit	Steering lock (lock/unlock)		Starter relay request (to IPDM E/R) Inside key antenna	
Inside key (Console, r		Intelligent Key (inside antenna detection area or not.)		(Console, rear seat)	
IPDM E/R					
Sw	itch/Input signal	Input signal to IPDM E/R	IPDM E/R function	Actuator/Output signal	
Transmissi	on range switch	P, N range	Engine start function	Starter relay Starter motor	
всм					
Sw	itch/Input signal	Input signal to BCM	BCM function	Actuator/Output signal	
Key switch		Mechanical key (insert/remove)	Engine start function	Inside key antenna (Cconsole, rear seat)	

SYSTEM DESCRIPTION

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

The driver should carry the Intelligent Key at all times.

 Intelligent Key has 2 IDs (for Intelligent Key and for NVIS/NATS). It can perform the door lock/unlock operation and the engine start operation when the registered Intelligent Key is carried.

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- When the Intelligent Key battery is discharged, it can be used as emergency back-up by inserting the
 mechanical key set in the Intelligent Key to the ignition key cylinder. At that time, perform the NVIS/NATS ID
 verification. If it is used when the Intelligent Key is carried, perform the Intelligent Key ID verification.
- If the ID is successfully verified, and when the ignition knob switch is pressed, steering lock will be released and initiating the engine will be possible.
- The door lock/unlock operation can be performed when the Intelligent Key battery is discharged, by operating the driver door key cylinder using the mechanical key set in the Intelligent Key.
- Up to 4 Intelligent Keys can be registered (Including the standard Intelligent Key) on request from the owner.
 NOTE:
 - Refer to <u>SEC-15, "System Description"</u> for any functions other than engine start function of Intelligent Key system.

PRECAUTIONS FOR INTELLIGENT KEY SYSTEM

• In the Intelligent Key system of model S35, the transponder [the chip for NVIS/NATS ID verification] is integrated into the Intelligent Key. (For the conventional models, it is integrated into the mechanical key.) Therefore, the mechanical key cannot perform the ID verification, and thus it cannot start the engine. Instead, the NVIS/NATS ID verification can be performed by inserting the mechanical key into the key cylinder, and then it can start the engine.

OPERATION WHEN INTELLIGENT KEY IS CARRIED

- 1. When the ignition knob switch is ON, and Intelligent Key unit is transmit the request signal to the Intelligent Key.
- 2. The Intelligent Key receives the request signal and transmits the Intelligent Key ID signal to the Intelligent Key unit.
- 3. The Intelligent Key unit receives the Intelligent Key ID signal and verifies it with the registered ID.
- Intelligent Key unit transmits the steering lock/unlock signal to steering lock unit and turn on the key warning lamp (green) if the verification results are OK. (The detail of key warning lamp operation, refer to <u>DLK-34</u>, "WARNING FUNCTION: System <u>Description</u>")
- Release of the steering lock.
- 6. BCM transmits the starter request signal via CAN communication to IPDM E/R and turns the starter relay in IPDM E/R ON if BCM judges that the engine start condition is satisfied.
- 7. IPDM E/R turns the starter control relay ON when receiving the starter request signal.
- When shift position is in P or N position, battery power is supplied through the starter relay and operate the starter motor and to start the cranking.
 CAUTION:

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

OPERATION RANGE

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

OPERATION WHEN MECHANICAL KEY IS USED

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

For details relating to starting the engine using mechanical key, refer to SEC-15, "System Description".

STEERING LOCK OPERATION

Steering is locked by steering lock unit when ignition switch is in the OFF position (the ignition knob is released) and key switch is OFF (key is removed from ignition key cylinder).

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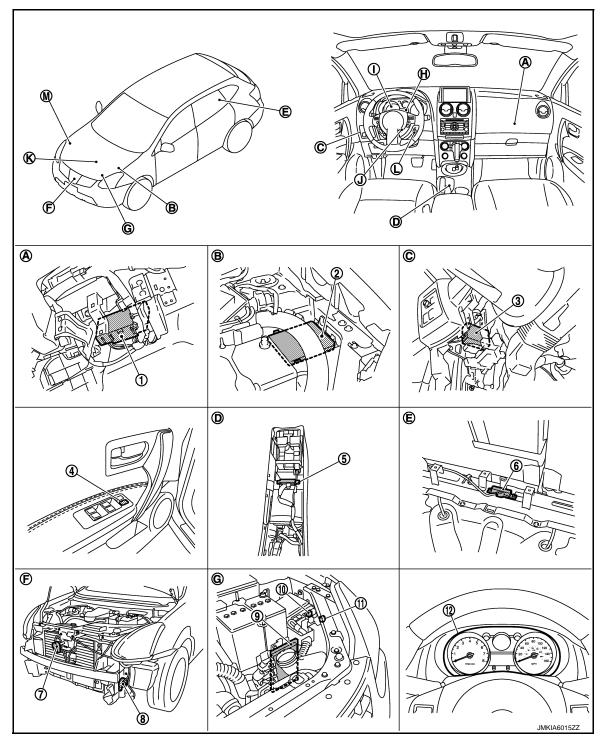
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Component Parts Location

INFOID:0000000006202325



- 1. BCM
- Door lock and unlock switch (power window main switch)
- 7. Horn (low)
- 10. Horn relay (except for Mexico)

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Horn (high)
- 11. Theft warning horn relay (for Mexico)
- 3. Intelligent Key unit
- 6. Inside key antenna (rear seat)
- 9. ECM
- 12. Combination meter

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

< SYSTEM DESCRIPTION >

- A. Over the glove box
- B. Engine room (LH)
- C. Over the instrument driver lower cover

- D. Back side of center console
- E. View with luggage floor trim center finisher removed
- F. View with front bumper removed

- G. Engine room (LH)
- H. Built in combination meter
- Θ ① **(J**) (14) (13) **(K) ((M)** 2
- Security indicator lamp (combination meter)
- 16. Key switch (Ignition knob switch, key switch and key lock solenoid)
- 19. Front door lock assembly (driver side)
- 22. Hood switch (for Mexico)
- I. Built in combination meter
- L. View with steering column cover removed

- Key warning lamp (combination meter)
- 7. Steering lock unit
- 20. NATS antenna amp.
- 23. Back door switch (back door lock assembly)
- J. View with steering column cover removed
- M. Engine room (RH)

 Ignition knob switch (Ignition knob switch, key switch and key lock solenoid)

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- 18. Transmission range switch
- 21. Hood switch (for Mexico)
 - Transaxle assembly

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

< SYSTEM DESCRIPTION > Component Description

INFOID:0000000006202326

Component	Reference
Intelligent Key unit	<u>SEC-43</u>
BCM	BCS-7
ECM	For California: <u>EC-44</u> For USA (Fedelal) and Canada: <u>EC-529</u> For Mexico: <u>EC-969</u>
Combination meter	MWI-8
Steering lock unit	<u>SEC-41</u>
Ignition knob switch	<u>SEC-53</u>
Key switch	<u>SEC-51</u>
Inside key antenna	<u>DLK-91</u>
Security indicator lamp	<u>SEC-64</u>

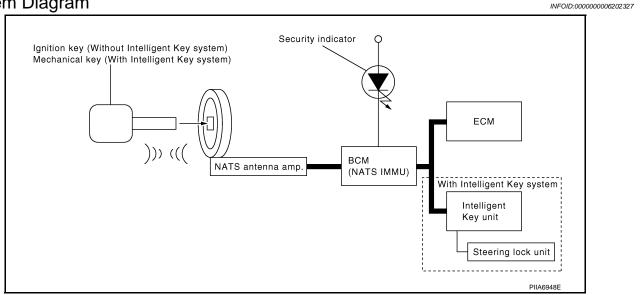
NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

System Diagram



System Description

INPUT/OUTPUT SIGNAL CHART

Intelligent Key Unit

Switch/Input signal	Input signal to BCM	Intelligent Key unit function	Actuator/Output signal
Ignition knob switch	Ignition knob (press/release)		
Key switch	Mechanical key (Insert/remove)	NVIS/NATS	Steering lock unit
Steering lock unit	Steering (lock/unlock)		
ECM	Engine status signal		

BCM

Switch/Input signal	Input signal to BCM	BCM function	Actuator/Output signal
NATS antenna amp.	Key ID	NVIS/NATS	Security indicator lamp
ECM	Engine status signal	14010/14/410	Starter request

SYSTEM DESCRIPTION

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) has the following immobilizer functions:

- Engine immobilizer shows high anti-theft performance to prevent engine from starting by other than the
- Only a key with key ID registered in BCM and ECM can start engine, and shows high anti-theft performance to prevent key from being copied or stolen.
- Therefore, NVIS/NATS warns outsiders that the vehicle is equipped with the anti-theft system. Refer to <u>SEC-</u> 20, "System Description".
- If system detects malfunction, security indicator illuminates when ignition switch is turned to ON position.
- If the owner requires, ignition key ID or mechanical key ID can be registered for up to 5 keys.

PRECAUTIONS FOR KEY REGISTRATION

 The key registration is a procedure that erases the current NVIS/NATS ID once, and then re-registers a new ID. Therefore the registered Intelligent Key is necessary for this procedure. Before starting the registration operation collect all registered Intelligent Keys from the customer.

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NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- The NVIS/NATS ID registration is the procedure that registers the ID stored into the transponder (integrated in mechanical key) to BCM.
 - The Intelligent Key ID registration is the procedure that registers the ID to Intelligent Key unit.
- When performing the Intelligent Key system registration only, the engine cannot be started by inserting the key into the key cylinder. When performing the NVIS/NATS registration only, the engine cannot be started by using the mechanical key.

SECURITY INDICATOR

- Warns that the vehicle is equipped with NVIS/NATS.
- The security indicator lamp always blinks, when the ignition switch is in the except ON position.
- The security indicator lamp turns OFF, when the ignition switch is in ON position.
- When NVIS/NATS detects trouble, the security indicator lamp lights up while ignition key is in the "ON" position.

MAINTENANCE INFORMATION

CAUTION:

- During trouble diagnosis or when the following parts have been replaced with a used parts, and if
 mechanical key is added, registration* is required. A new part (except Intelligent Key and mechanical
 key) should register automatically after the ignition switch is turned ON. New one means a virgin
 control unit that has never been energized on-board
 - *: All keys kept by the owner of the vehicle should be registered with mechanical key.
- ECM
- BCM
- Mechanical key
- Intelligent Key unit
- Steering lock unit
- NVIS/NATS trouble diagnosis, system initialization and additional registration of other mechanical key IDs must be carried out using CONSULT-III hardware and SECURITY CARD.
 When NVIS/NATS initialization has been completed, the ID of the inserted Intelligent Key or mechanical key IDs can be carried out.
- Possible symptom of NVIS/NATS malfunction is "Engine cannot start". The engine can be started
 with the Intelligent Key system and NVIS/NATS. Identify the possible causes according to "Work
 Flow", Refer to SEC-6, "Work Flow".
- If ECM other than Genuine NISSAN is installed, the engine cannot be started.

Component Parts Location

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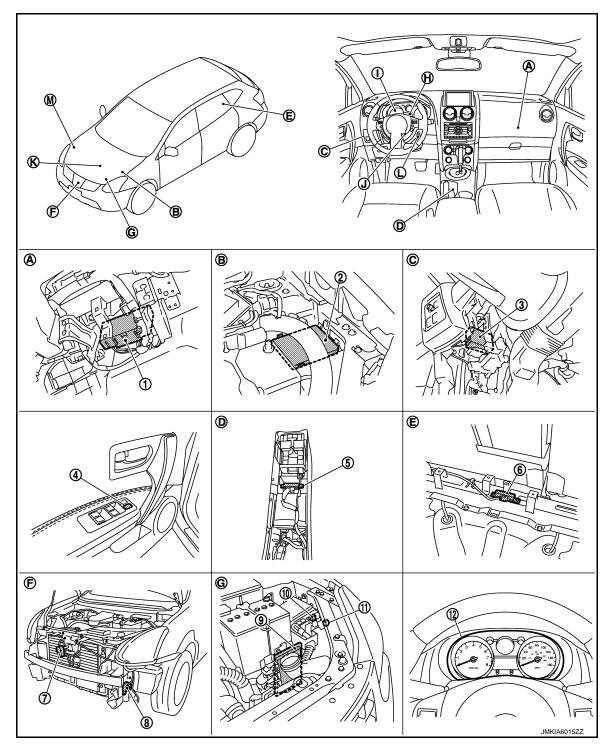
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- 1. BCM
- Door lock and unlock switch (power window main switch)
- 7. Horn (low)
- 10. Horn relay (except for Mexico)

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Horn (high)
- 11. Theft warning horn relay (for Mexico)
- 3. Intelligent Key unit
- 6. Inside key antenna (rear seat)
- 9. ECM
- 12. Combination meter

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NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION > Over the glove box

Engine room (LH)

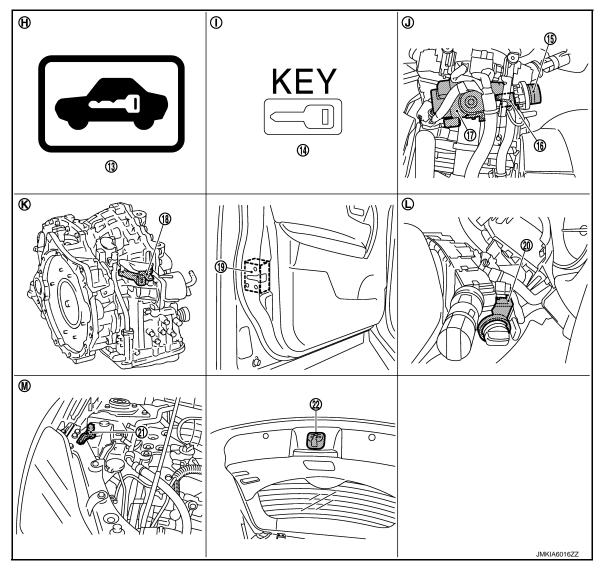
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Engine room (LH)

D. Back side of center console View with luggage floor trim center F.

B.

View with front bumper removed finisher removed Built in combination meter



- 13. Security indicator lamp (combination meter)
- 16. Key switch (Ignition knob switch, key switch and key lock solenoid)
- 19. Front door lock assembly (driver side)
- 22. Hood switch (for Mexico)
- Built in combination meter
- View with steering column cover re- M. moved

- Key warning lamp (combination meter)
- 17. Steering lock unit
- 20. NATS antenna amp.
- Back door switch 23. (back door lock assembly)
- View with steering column cover re-J. moved
- Engine room (RH)

15. Ignition knob switch (Ignition knob switch, key switch and key lock solenoid)

Over the instrument driver lower cov-

- 18. Transmission range switch
- 21. Hood switch (for Mexico)
- Transaxle assembly

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

< SYSTEM DESCRIPTION > Component Description

[WITH INTELLIGENT KEY SYSTEM]

INFOID:0000000006202330

Component	Reference
BCM	BCS-7
IPDM E/R	PCS-2
Steering lock unit	<u>SEC-41</u>
Key switch	<u>SEC-51</u>
Ignition knob switch	<u>SEC-53</u>
NATS antenna amp.	<u>SEC-38</u>
Security indicator lamp	<u>SEC-64</u>
Door lock and unlock switch	DLK-60
Key cylinder switch	<u>DLK-71</u>

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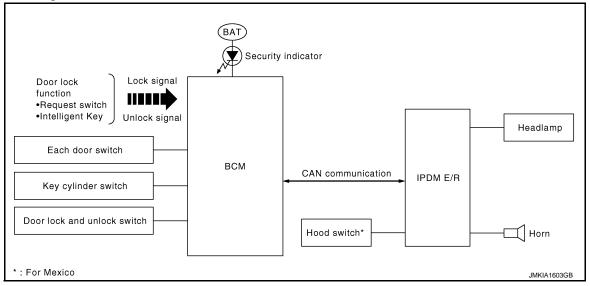
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VEHICLE SECURITY SYSTEM

System Diagram

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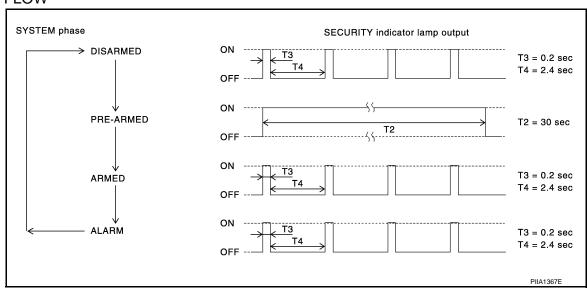
System Description

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INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to BCM	BCM system	Actuator
All door switch	Open or close	Vehicle security system	
Hood switch	— Open of close		
Door key cylinder switch			• IPDM E/R
Door lock and unlock switch	Lock or unlock		 Head lamp Horn Security indicator lamp
Door request switch			
Intelligent Key	Lock or unlock		
Intelligent Key	Panic alarm		

OPERATION FLOW



SETTING THE VEHICLE SECURITY SYSTEM

Initial Condition

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

• Ignition switch is in OFF position.

Disarmed Phase

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

Pre-armed Phase and Armed Phase

When the following operation 1 or 2 is performed, the vehicle security system turns into the "pre-armed" phase. (The security indicator lamp illuminates for approx. 30 seconds. Then, the system automatically shifts into the "armed" phase.)

- BCM receives LOCK signal from front door key cylinder switch or Intelligent Key, after hood, back door and all doors are closed.
- 2. Hood, back door and all doors are closed after front doors are locked by key or door lock and unlock switch.

CANCELING THE SET VEHICLE SECURITY SYSTEM

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

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

CANCELING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

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

ACTIVATING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

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

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

PANIC ALARM OPERATION

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

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

The headlamp flashes and the horn sounds intermittently.

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

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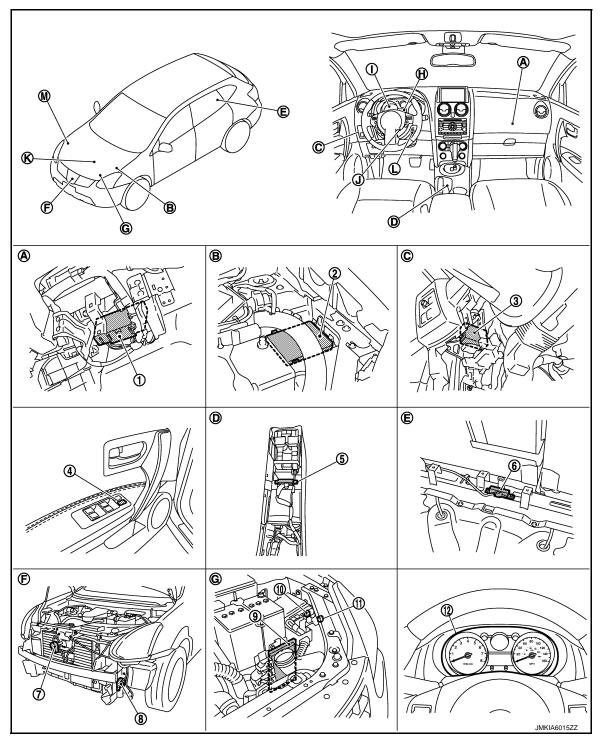
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Component Parts Location

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- 1. BCM
- Door lock and unlock switch (power window main switch)
- 7. Horn (low)
- 10. Horn relay (except for Mexico)

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Horn (high)
- 11. Theft warning horn relay (for Mexico)
- 3. Intelligent Key unit
- 6. Inside key antenna (rear seat)
- 9. ECM
- 12. Combination meter

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- Over the glove box
- B. Engine room (LH)
- Over the instrument driver lower cov-

- D. Back side of center console
- E. View with luggage floor trim center finisher removed
- F. View with front bumper removed

- Engine room (LH) G.
- Built in combination meter H.
- Θ ① **(J**) 14) (13) **(K) ((M)** 2 JMKIA6016ZZ
- Security indicator lamp (combination meter)
- Key warning lamp (combination meter)
- 15. Ignition knob switch (Ignition knob switch, key switch and key lock solenoid)

- 16. Key switch (Ignition knob switch, key switch and key lock solenoid)
- 17. Steering lock unit
- 18. Transmission range switch

- 19. Front door lock assembly (driver side)
- 20. NATS antenna amp.
- 21. Hood switch (for Mexico)

22. Hood switch

- 23. Back door switch (back door lock assembly)
 - Transaxle assembly

- (for Mexico)
- I. Built in combination meter
- View with steering column cover re-J. moved
- View with steering column cover removed
- Engine room (RH) M.

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VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Component Description

INFOID:0000000006202334

Component	Reference	
BCM	BCS-7	
Horn	<u>SEC-62</u>	
Hood switch	<u>SEC-55</u>	
Security indicator	<u>SEC-64</u>	
Door switch	<u>DLK-301</u>	
IPDM E/R	PCS-2	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description	
ECU Identification	BCM part number is displayed.	
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to SEC-209, "DTC_Index".	
Data Monitor	BCM input/output signals are displayed.	
Active Test	The signals used to activate each device are forcibly supplied from BCM.	
Work Support	Changes the setting for each system function.	
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM. 	
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.	

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

Cuatara	CONSULT-III sub system selection item	Diagnosis mode		
System		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Auto air conditioning systemManual air conditioning system	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Body control system	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
_	FUEL LID*			
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×
Panic alarm system	PANIC ALARM			×

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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

IMMU

IMMU: CONSULT-III Function (BCM - IMMU)

INFOID:0000000006202336

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

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

DATA MONITOR

Monitor item	Content
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.

ACTIVE TEST

Test item	Description
THEFT IND	This test is able to check security indicator operation [ON/OFF].

THEFT ALM

THEFT ALM: CONSULT-III Function (BCM - THEFT ALM)

INFOID:0000000006202337

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

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

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
KEYLESS LOCK*2	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK*2	Indicates [ON/OFF] condition of unlock signal from key fob.
I-KEY LOCK*1	Indicates [ON/OFF] condition of lock signal from Intelligent Key.
I-KEY UNLOCK*1	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.
TRUNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.
TRNK OPNR MNTR	NOTE: The item is indicated, but not monitored.
HOOD SW	Indicates [ON/OFF] condition of hood switch.
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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.	
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.	
KEY CYL LK-SW	Indicates [ON/OFF] condition of key cylinder switch.	
KEY CYL UN-SW	Indicates [ON/OFF] condition of key cylinder switch.	
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.	
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.	

^{*1:} For vehicle equipped with Intelligent Key.

ACTIVE TEST

Test item	Description
THEFT IND	This test is able to check security indicator operation [ON/OFF].
VEHICLE SECURITY HORN	This test is able to check horn operation [ON].
HEAD LAMP(HI)	This test is able to check head lamp (HI) operation [ON/OFF].

WORK SUPPORT

Test item	Description	
SECURITY ALARM SET	Vehicle security function mode can be changed in this mode. ON: Vehicle security function is ON. OFF: Vehicle security function is OFF.	
THEFT ALM TRG	The switch which triggered vehicle security system is recorded. This mode can be able to confirm and erase the record of vehicle security system.	

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^{*2:} For the vehicle equipped with remote key less entry system.

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

CONSULT-III Function (INTELLIGENT KEY)

INFOID:0000000006596505

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with Intelligent Key unit.

Diagnosis mode	Function Description	
WORK SUPPORT	Changes the setting for each system function	
SELF-DIAG RESULTS	Displays the diagnosis results judged by Intelligent Key unit	
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from Intelligent Key unit	
DATA MONITOR	The Intelligent Key unit input/output signals are displayed	
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit	
ECU IDENTIFICATION	The Intelligent Key unit part number is displayed	

WORK SUPPORT

Support item	Description	
CONFIRM KEY FOB ID	It can check whether Intelligent Key ID code is registered or not	
TAKE OUT FROM WINDOW WARN	Take away warning chime (from window) mode can be changed	
LOW BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed	
ANSWER BACK FUNCTION	Buzzer reminder operation can be changed	
SELECTIVE UNLOCK FUNCTION	Selective unlock mode can be changed	
ANTI KEY LOCK IN FUNCTION	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode	
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	
HAZARD ANSWER BACK	Hazard reminder operation mode can be changed	
ANSWER BACK WITH I-KEY LOCK	Buzzer reminder operation (lock operation) mode by each door request switch can be changed	
ANSWER BACK WITH I-KEY UNLOCK	Buzzer reminder operation (unlock operation) mode by each door request switch can be changed	
AUTO RELOCK TIMER	Auto door lock operation mode can be changed	
PANIC ALARM DELAY	Panic alarm button pressing time on Intelligent Key remote control button can be changed	
P/W DOWN DELAY	This item is indicated, but not possible to use it	
ENGINE START BY I-KEY	Engine start function (by Intelligent Key) mode can be changed	
LOCK/UNLOCK BY I-KEY	Door lock function by door request switch can be changed	

SELF-DIAG RESULT

Refer to SEC-115, "DTC Index".

DATA MONITOR

Monitor Item	Condition	
PUSH SW	Indicates [ON (pressed)/OFF (released)] condition of ignition knob switch	
KEY SW	Indicates [ON (inserted)/OFF (removed)] condition of key switch	
DR REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (driver side)	
AS REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (passenger side)	
BD/TR REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (back door)	

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	
IGN SW	Indicates [ON (ON or START position)/OFF (other than ON and START position)] condition of ignition switch ON position	
ACC SW	Indicates [ON/OFF] condition of ignition switch ACC position	
STOP LAMP SW	Indicates [ON/OFF] condition of stop lamp switch	
P RANGE SW	Indicates [ON/OFF] condition shift lever park position	
BD OPEN SW	This item is indicated, but not monitored	
TR CANCEL SW	This item is indicated, but not monitored	
DOOR LOCK SIG	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key	
DOOR UNLOCK SIG	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key	
KEYLESS TRUNK	This item is indicated, but not monitored	
KEYLESS PANIC	Indicates [ON/OFF] condition PANIC button of Intelligent key	
KEYLS PSD LH	This item is indicated, but not monitored	
KEYLS PSD RH	This item is indicated, but not monitored	
KEYLS PBD SIG	This item is indicated, but not monitored	
DOOR SW DR	Indicates [OPEN/CLOSE] condition of front door switch (driver side) from BCM via CAN communication	
DOOR SW AS	Indicates [OPEN/CLOSE] condition of front door switch (passenger side) from BCM via CAN communication	
DOOR SW RR	Indicates [OPEN/CLOSE] condition of rear door switch (RH) from BCM via CAN communication	
DOOR SW RL	Indicates [OPEN/CLOSE] condition of rear door switch (LH) from BCM via CAN communication	
DOOR BK SW	Indicates [OPEN/CLOSE] condition of back door switch from BCM via CAN communication	
TRUNK SW	This item is indicated, but not monitored	
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h]	

ACTIVE TEST

Test item	Description	
DOOR LOCK/UNLOCK	This test is able to check door lock/unlock operation • ALL UNLK: All door lock actuators are unlocked • DR UNLK: Door lock actuator (driver side) is unlocked • AS UNLK: Door lock actuator (passenger side) is unlocked • BK UNLK: This item is indicated, but inactive • LOCK: All door lock actuator is locked	
ANTENNA	This test is able to check Intelligent Key antenna operation. When the following condition are met, LED (on Intelligent Key) blinks ROOM ANT1: Inside key antenna (console) transmissions can be detected by Intelligent Key, when "ROOM ANT1" is selected ROOM ANT2: This item is displayed, but cannot be used LUG ANT: Inside key antenna (rear seat) transmissions can be detected by Intelligent Key, when "LUG ANT" is selected DR ANT: Outside key antenna (driver side) transmissions can be detected by Intelligent Key, when "DR ANT" is selected AS ANT: Outside key antenna (passenger side) transmissions can be detected by Intelligent Key, when "AS ANT" is selected BK ANT: Outside key antenna (rear bumper) transmissions can be detected by Intelligent Key, when "BK ANT" is selected	
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation ON OFF	

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DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Test item	Description	
INSIDE BUZZER	This test is able to check warning chime in combination meter operation take out: Take away warning chime sounds knob: Ignition knob switch warning chime sounds key: Key warning chime sounds off	
INDICATOR	This test is able to check warning lamp operation BLUE ON: Key warning lamp (green) illuminates RED ON: Key warning lamp (red) illuminates KNOB ON: Lock warning lamp illuminates BLUE IND: Key warning lamp (green) flashes RED IND: Key warning lamp (red) flashes KNOB IND: Lock warning lamp flashes OFF	

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

BCM

BCM : Description

INFOID:000000006596506

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

CAN Communication Signal Chart. Refer to LAN-25, "CAN Communication Signal Chart".

BCM : DTC Logic

DTC DETECTION LOGIC

DTC	DTC Detection Condition	Possible cause
U1000: CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

BCM: Diagnosis Procedure

1. PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

YES >> Refer to LAN-15, "Trouble Diagnosis Flow Chart".

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

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

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

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

CAN Communication Signal Chart. Refer to LAN-25, "CAN Communication Signal Chart".

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

DTC DETECTION LOGIC

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

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

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

agnosis Procedure

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1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

YES >> Refer to LAN-15, "Trouble Diagnosis Flow Chart".

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

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic INFOID:0000000006202345

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of CAN controller of Intelligent Key unit.	Intelligent Key unit

Diagnosis Procedure

1.REPLACE INTELLIGENT KEY UNIT

When DTC [U1010] is detected, replace Intelligent Key unit.

>> Replace Intelligent Key unit.

Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

Initialize control unit. Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS.

>> WORK END

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[WITH INTELLIGENT KEY SYSTEM]

P1610 LOCK MODE

Description INFOID:0000000000202348

When the starting operation is carried more than 10 times consecutively under the following conditions, NVIS/NATS will shift to the mode which prevents the engine from being started.

- Unregistered mechanical key is used.
- · BCM or ECM's malfunctioning.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1610	LOCK MODE	When the BCM detects wrong key ID, 10 or more times consecutively under the following conditions. Unregistered mechanical key BCM or ECM's malfunctioning.	_

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

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1. CHECK ENGINE START FUNCTION

- 1. Perform the check for DTC except DTC P1610.
- 2. Use CONSULT-III to erase DTC after fixing.
- 3. Check that engine can start with registered mechanical key.

Does the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P1611 ID DISCORD, IMMU-ECM

Description INFOID:0000000006202351

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

DTC Logic INFOID:0000000006202352

DTC DETECTION LOGIC

NOTE:

 If DTC P1611 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-31, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON.

Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

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

NO >> INSPECTION END

1.PERFORM INITIALIZATION

Diagnosis Procedure

Perform initialization with CONSULT-III. Re-register all mechanical keys.

For initialization and registration of mechanical key. Refer to "CONSULT-III Operation Manual NATS-IVIS/ NVIS".

Can the system be initialized and can the engine be started with re-registered mechanical key?

>> INSPECTION END (ID was unregistered.)

NO >> GO TO 2.

2.REPLACE BCM

Replace BCM. Refer to BCS-66, "Removal and Installation"

Perform initialization with CONSULT-III. Re-register all mechanical keys. For initialization and registration of mechanical key. Refer to "CONSULT-III Operation Manual NATS-IVIS/ NVIS".

Can the system be initialized and can the engine be started with re-registered mechanical key?

YES >> INSPECTION END (BCM was malfunctioning.)

NO >> GO TO 3.

3.REPLACE ECM

Replace ECM. Refer to the following page.

- For CALIFORNIA: Refer to EC-26, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- For USA (FEDERAL) and CANADA: Refer to EC-511, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- For MEXICO: Refer to EC-959, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- Perform initialization with CONSULT-III. Re-register all mechanical keys. For initialization and registration of mechanical key. Refer to "CONSULT-III Operation Manual NATS-IVIS/ NVIS".

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P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Can the system be initialized and can the engine be started with re-registered mechanical key?

YES >> INSPECTION END (ECM was malfunctioning.)

NO >> GO TO 4.

4. CHECK INTERMITENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

P1612 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P1612 CHAIN OF ECM-IMMU

Description INFOID:0000000006202354

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

DTC Logic INFOID:0000000006202355

DTC DETECTION LOGIC

NOTE:

 If DTC P1612 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-31, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON.

2. Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

1.REPLACE BCM

Replace BCM. Refer to BCS-66, "Removal and Installation". Perform initialization with CONSULT-III.

For initialization refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS".

Does the engine start?

YES >> INSPECTION END (BCM was malfunctioning.)

NO

>> ECM is malfunctioning.

Replace ECM. Refer to following page.

- For CALIFORNIA: Refer to EC-26, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

 For USA (FEDERAL) and CANADA: Refer to EC-511, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

 For MEXICO: Refer to EC-959, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

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INFOID:0000000006202356

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P1614 CHAIN OF IMMU-KEY

Description

Performs ID verification through BCM and NVIS/NATS antenna amplifier when ignition knob switch is pressed. Prohibits the release of steering lock or start of engine when an unregistered ID of mechanical key is used.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1614	NATS ANTENNA AMP	Inactive communication between NATS antenna amp. and BCM. Mechanical key is malfunctioning.	Harness or connectors (The NATS antenna amp. circuit is open or short) Mechanical key NATS antenna amp. BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Insert mechanical key into key cylinder.
- 2. Press ignition knob switch.
- 3. Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

YES >> Refer to <u>SEC-38</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006202359

1. CHECK NATS ANTENNA AMP. INSTALLATION

Check NATS antenna amp. installation. Refer to SEC-140, "Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Reinstall NATS antenna amp. correctly.

2.CHECK MECHANICAL KEY

Start engine with another registered mechanical key.

Does the engine start?

YES >> Replace mechanical key. Perform initialization and registration of mechanical key. Refer to "CON-SULT-III Operation Manual NATS-IVIS/NVIS"

NO >> GO TO 3.

3.CHECK NATS ANTENNA AMP. POWER SUPPLY

- 1. Turn ignition switch OFF.
- Disconnect NATS antenna amp. connector.
- Check voltage between NATS antenna amp. harness connector and ground.

(· NATS ant	+) enna amp.	(-)	Voltage (V) (Approx.)	
Connector Terminal			(11 -)	
M26	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

4. CHECK NATS ANTENNA AMP. GROUND CIRCUIT

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

NATS ant	tenna amp.		Continuity	
Connector Terminal		Ground	Continuity	
M26 3			Existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace circuit.

5. CHECK NATS ANTENNA AMP. SIGNAL CIRCUIT

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

(+) NATS antenna amp.		(–)	Condition	Voltage (V) (Approx.)	
Connector Terminal				(/ (pprox.)	
	2	2 Ground	Just after inserting mechanical key in key cylinder.	Pointer of tester should move.	
M26			Other than above.	0	
IVI20	4	Just after inserting mechanical key in key cylinder.	Pointer of tester should move.		
			Other than above.	0	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace circuit.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

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P1615 DIFFRENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P1615 DIFFRENCE OF KEY

Description

Performs ID verification through BCM when ignition knob switch is pressed.

Prohibits the release of steering lock or start of engine when an unregistered ID of mechanical key is used.

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Insert mechanical key into key cylinder.
- 2. Press ignition knob switch.
- 3. Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:00000000006202362

1. PERFORM INITIALIZATION

Perform initialization with CONSULT-III. Re-register all mechanical keys.

For initialization and registration of mechanical key. Refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS".

Can the system be initialized and can the engine be started with re-registered mechanical key?

YES >> Mechanical key was unregistered.

NO >> INSPECTION END (BCM is malfunctioning.)

- Replace BCM. Refer to BCS-66, "Removal and Installation".
- Perform initialization again.

B2013 ID DISCORD I-KEY-STRG

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2013 ID DISCORD I-KEY-STRG

Description INFOID:000000006202363

Intelligent Key unit performs the ID verification with the steering lock unit and releases the steering lock if both Intelligent Key unit and steering lock unit ID are same. Intelligent Key unit starts the communication with the steering lock unit when Intelligent Key is carried into the vehicle and the ignition knob switch is pressed.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2013	STRG COMM 1	The ID verification results between Intelligent Key unit and steering control unit are NG. The registration is necessary.	Harness or connectors Steering lock unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Press ignition knob switch.
- Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1.PERFORM INITIALIZATION

Perform initialization with CONSULT-III. Re-register all mechanical keys.

For initialization and registration of mechanical key. Refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS".

Can the system be initialized and can steering lock be released with re-registered mechanical key?

YES >> INSPECTION END (Steering lock unit was unregistered.)

NO >> GO TO 2.

2. CHECK STEERING LOCK UNIT POWER SUPPLY-1

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

	+) lock unit	(–)	Voltage (V) (Approx.)	
Connector	Terminal			
M28	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK STEERING LOCK UNIT POWER SUPPLY-2

Check voltage between steering lock unit harness connector and ground.

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B2013 ID DISCORD I-KEY-STRG

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	(+)	(-)	Voltage (V)	
Steering	g lock unit		Voltage (V) (Approx.)	
Connector	Connector Terminal		, , , ,	
M28	2	Ground	5	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK STEERING LOCK UNIT GROUND CIRCUIT

- 1. Disconnect Intelligent Key unit connector.
- 2. Check continuity between Intelligent Key unit harness connector and steering lock unit harness connector.

Intelligent Key unit		Steering	Continuity		
Connector	Terminal	Connector Terminal		Continuity	
M40	31	M28	4	Existed	

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligen	nt Key unit		Continuity	
Connector Terminal		Ground	Continuity	
M40 31			Not existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK STEERING LOCK UNIT COMMUNICATION CIRCUIT

- 1. Connect Intelligent Key unit connector and steering lock unit connector.
- 2. Check voltage between steering lock unit harness connector and ground.

(+) Steering lock unit		(–) Condition		Voltage (V) (Approx.)	
Connector	Terminal				(, 44, 2,)
				LOCK status	5
M28	3	Ground Steering lock	_	LOCK ⇔ UNLOCK	(V) 6 4 2 0 100 ms JMKIA0433ZZ
				For 15 seconds after UNLOCK	5
				15 seconds later UN- LOCK	0

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

B2552 INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2552 INTELLIGENT KEY

Description

Intelligent key unit performs engine start operation and steering lock control by crosschecking ID with the Intelligent key.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2552	INTELLIGENT KEY	Malfunction is detected inside Intelligent key unit.	Intelligent Key unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. REPLACE INTELLIGENT KEY UNIT

- 1. Replace Intelligent Key unit.
- 2. Perform initialization with CONSULT-III. Re-register all mechanical keys. Refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS".
- 3. Start the engine.

Does the engine start?

YES >> INSPECTION END (Intelligent Key unit was malfunctioning.)

NO >> Perform "DTC confirmation procedure". Refer to <u>SEC-43, "DTC Logic"</u>.

Special Repair Requirement

 ${f 1}$.required work when replacing intelligent key unit

Initialize control unit. Refer to CONSULT-III operation manual NATS-IVIS/NVIS.

>> WORK END

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B2590 ID DISCORD BCM-I-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2590 ID DISCORD BCM-I-KEY

Description INFOID:0000000006202370

Intelligent Key unit performs the ID verification with BCM that allows the engine to start. BCM starts the engine if the ID is OK and prevents the engine from starting if the ID is not registered.

DTC Logic INFOID:0000000006202371

DTC DETECTION LOGIC

NOTE:

 If DTC B2590 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-31, "BCM: DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2590	ID DISCORD BCM-I- KEY	The ID verification results between BCM and Intelligent Key unit are NG. The registration is necessary.	BCM Intelligent Key unit

DTC CONFIRMATION PROCEDURE

${f 1}$.PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

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

>> INSPECTION END NO

Diagnosis Procedure

INFOID:00000000006202372

1. PERFORM INITIALIZATION

Perform initialization with CONSULT-III. Re-register all mechanical keys.

For initialization and registration of mechanical key. Refer to "CONSULT-III Operation Manual NATS-IVIS/ NVIS".

Can the system be initialized and can the engine be started with re-registered mechanical key?

>> INSPECTION END (ID was unregistered.)

NO >> BCM is malfunctioning. Replace BCM

- · Perform initialization again

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT: Diagnosis Procedure

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1.CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
11	Battery power supply	14 (10A)
6	Ignition power supply	1 (10A)

Is the fuse blown?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

Disconnect Intelligent Key unit connector.

3. Check voltage between Intelligent Key unit harness connector and ground.

	Terminal				
	(+) (-)				
Intellige	nt Key unit	Ground	Voltage (V) (Approx.)		
Connector	Terminal				
MAO	11	Ground	Detterweeters		
M40	6		Battery voltage		

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between Intelligent Key unit harness connector and ground.

Intelliger	t Key unit		Continuity
Connector	Connector Terminal		Continuity
M40	12		Exists

Does continuity exist?

YES >> Intelligent Key unit power supply and ground circuit are OK.

NO >> Repair harness or connector.

INTELLIGENT KEY UNIT: Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

Initialize control unit. Refer to CONSULT-III operation manual NATS-IVIS/NVIS.

>> WORK END

BCM

BCM: Diagnosis Procedure

1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not fusing.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Signal name	Fuses and fusible link No.
41	Battery power supply	10 (10A)
57	Battery power suppry	J (50A)
4	ACC power supply	20 (10A)
3	Ignition power supply	1 (10A)

Is the fuse fusing?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

	Terminals			Ignition switch position		
((+)		ignition switch position			
В	всм		OFF	ACC	ON	
Connector	Terminal		OFF	ACC	ON	
M65	4		Approx. 0 V	Battery voltage	Battery voltage	
IVIOS	3	Ground	Approx. 0 V	Approx. 0 V	Battery voltage	
M66			Detterminister	Dattanivaltana	Dattanivaltana	
M67	57		Battery voltage	Battery voltage	Battery voltage	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M67	55		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

DOOR SWITCH

[WITH INTELLIGENT KEY SYSTEM] < DTC/CIRCUIT DIAGNOSIS > **DOOR SWITCH** Α Description INFOID:0000000006202376 Detects door open/closed condition. В Component Function Check INFOID:0000000006202377 1. CHECK FUNCTION (III) With CONSULT-III Check door switches ("DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR", "BACK DOOR D SW") in "Data Monitor" mode with CONSULT-III. Monitor item Door condition Display Е DOOR SW-DR DOOR SW-AS DOOR SW-RL $\mathsf{CLOSE} \to \mathsf{OPEN}$ $\mathsf{OFF} \to \mathsf{ON}$ F DOOR SW-RR **BACK DOOR** Is the inspection result normal? YES >> Door switch is OK. NO >> Refer to SEC-47, "Diagnosis Procedure". Н Diagnosis Procedure INFOID:0000000006202378 1. CHECK DOOR SWITCH INPUT SIGNAL Turn ignition switch OFF. 2. Disconnect door switch connectors. J

Check signal between door switch harness connector and ground with oscilloscope.

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(+)		(–)	Voltage (V) (Approx.)	
Connector	Terminal	()	, ,	
Front door switch (passenger side)	B27	2		(V) ₁₅ 10 5 0 ++10ms JPMIA0586GB
Front door switch (driver side)	B34	2		(V) ₁₅ 10 5 0 → 10ms JPMIA0587GB
Rear door switch RH	ar door switch RH B53 2 Grou		Ground	(V) ₁₅ 10 5 0 → 10ms JPMIA0587GB
Rear door switch LH	B71	2		(V) 15 10 5 0 → 10ms JPMIA0594GB
Back door lock assembly (back door switch)	D190	3		(V) 15 10 5 0

Is the inspection result normal?

YES >> • Back door switch : GO TO 3.

• Door switch: GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

- 1. Disconnect BCM connectors.
- 2. Check continuity between BCM harness connector and door switch harness connector.

[WITH INTELLIGENT KEY SYSTEM]

BCM		Door swi	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
MOS	12	B27	2	
M65	13	B53	- 2	
	43	D190	3	Exists
M66	47	B34	2	
	48	B71	2	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal		Continuity
M65	12		Does not exist
COIVI	13	Ground	
	43		
M66	47		
	48		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-66, "Exploded View".

NO >> Repair or replace harness.

3.CHECK BACK DOOR GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock a	assembly		Continuity
Connector	Terminal	Ground	Continuity
D190	D190 4		Exist

Is the inspection result normal?

>> GO TO 4. YES

NO >> Repair or replace harness.

4. CHECK DOOR SWITCH

Check door switch.

Refer to SEC-49, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door switch. Refer to <u>DLK-265</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK DOOR SWITCH

- Turn ignition switch OFF.
- 2. Disconnect door switch connector.
- Check door switch.

Terminal		Condition	Continuity	
Each door 2	2	Ground	Door switch pressed	Exists
Lacif door	2	Ground	Door switch released	Does not exist

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Terminal		Condition	Continuity	
Back door 3	2	4	Back door open	Exists
Dack door	3		Back door close	Does not exist

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door switch . Refer to <u>DLK-265</u>, "Removal and Installation".

[WITH INTELLIGENT KEY SYSTEM]

KEY SWITCH

Description INFOID:0000000000202380

Key switch detects that mechanical key is inserted into the key cylinder, and then transmits the signal to BCM.

Component Function Check

1. CHECK KEY SWITCH INPUT SIGNAL

Check key switch ("KEY ON SW") in "Data Monitor" mode with CONSULT-III. Refer to <u>DLK-46, "DOOR LOCK</u>: CONSULT-III Function (BCM - DOOR LOCK)".

Monitor item	Condition	
KEY ON SW	Insert mechanical key into key cylinder	: ON
KEY ON SW	Remove mechanical key from key cylinder	: OFF

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Refer to <u>SEC-51</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK KEY SWITCH POWER SUPPLY CIRCUIT

- 1. Remove mechanical key from key cylinder.
- Disconnect key switch connector.
- Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

(+)			Voltage (V) (Approx.)	
Ignition knob switch, key switch	ch and key lock solenoid	(–)		
Connector	Terminal		(11 - 7	
M25	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2. CHECK KEY SWITCH SIGNAL CIRCUIT

 Check continuity between BCM harness connector and ignition knob switch, key switch and key lock solenoid connector.

ВСМ		Ignition knob switch, key switch and key lock so- lenoid		Continuity
Connector	Terminal	Connector	Terminal	
M65	37	M25	1	Exists

Check continuity between key switch and ground.

Ignition knob switch, key s	witch and key lock solenoid		Continuity
Connector	Terminal	Ground	Continuity
M25	1		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK KEY SWITCH

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KEY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Check key switch function.

Refer to SEC-52, "Component Inspection".

Is the inspection result normal?

yes >> GO TO 4.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006202383

1. CHECK KEY SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect key switch connector.
- 3. Check continuity between ignition knob switch, key switch and key lock solenoid terminals.

Terminal Ignition knob switch, key switch and key lock solenoid		Condition	Continuity
		Condition	
1	2	Insert mechanical key into key cylinder	Exists
	2	Remove mechanical key from key cylinder	Does not exist

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

IGNITION KNOB SWITCH

Description INFOID:0000000006202384

Ignition knob switch detects that ignition knob is pressed, and then transmits the signal to Intelligent Key unit.

Component Function Check

1. CHECK IGNITION KNOB SWITCH INPUT SIGNAL

Check ignition knob switch ("PUSH SW") in "Data Monitor" mode with CONSULT-III.

Monitor item	Conditi	ion
PUSH SW	Ignition knob switch is pressed	: ON
PUSH SW	Ignition knob switch is released	: OFF

Is the inspection result normal?

YES >> Ignition knob switch is OK.

NO >> Refer to <u>SEC-53</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK IGNITION KNOB SWITCH POWER SUPPLY CIRCUIT

Turn ignition switch OFF.

2. Disconnect ignition knob switch, key switch and key lock solenoid connector.

3. Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

(+)		V 16 0.0	
Ignition knob switch, key s	witch and key lock solenoid	(–)	Voltage (V) (Approx.)	
Connector Terminal			(11 - 7	
M25	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.check ignition knob switch signal circuit

 Check continuity between Intelligent Key unit harness connector and ignition knob switch, key switch and key lock solenoid harness connector.

Intelligent Key unit		Ignition knob switch, key switch and key lock solenoid		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	27	M25	3	Exists

Check continuity between ignition knob switch, key switch and key lock solenoid harness connector and ground.

Ignition knob switch, key s	witch and key lock solenoid		Continuity
Connector	Terminal	Ground	Continuity
M25	3		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

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IGNITION KNOB SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Refer to SEC-54, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006202387

1. CHECK IGNITION KNOB SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect ignition knob switch. Key switch and key lock solenoid connector.
- Check continuity between ignition knob switch, key switch and key lock solenoid terminals under the following conditions.

Ignition knob switch, key switch and key lock solenoid Terminal		Condition	Continuity
2	4	Ignition knob switch is pressed	Exists
3	4	Ignition knob switch is released	Does not exist

Is the inspection result normal?

YES >> Ignition knob switch is OK.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

[WITH INTELLIGENT KEY SYSTEM]

HOOD SWITCH

Description

Hood switch detects that hood is open/close condition, and then IPDM E/R detects the signal.

Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>SEC-55</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK HOOD SWITCH SIGNAL

1. Turn ignition switch OFF.

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

	+) M E/R	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 - 7
E13	34 Ground	Ground	Hood	Open	0
E13		Пооц	Close	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK HOOD SWITCH SIGNAL CIRCUIT

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

IPDI	M E/R	Hood s	switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E13	34	E113	1	Existed

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

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E13	34		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check hood switch ground circuit

Check continuity between hood switch harness connector and ground.

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Revision: 2010 July SEC-55 2011 Rogue

HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Hood	Hood switch		Continuity
Connector	Terminal	Ground	Continuity
E113	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK IPDM E/R OUTPUT

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

IPD	M E/R		Voltage (V)
Connector	Terminal	Ground	(Approx.)
E13	34		Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace IPDM E/R. Refer to PCS-29, "Removal and Installation".

5. CHECK HOOD SWITCH

Refer to SEC-56, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace hood switch. Refer to <u>SEC-141</u>, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006202391

1. CHECK HOOD SWITCH

Check continuity between hood switch terminals.

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

Is the inspection result normal?

YES >> Hood switch is OK.

NO >> Replace hood switch. Refer to <u>SEC-141</u>, "Removal and Installation".

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER: Description

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Detects whether Intelligent Key is inside the vehicle.

INSTRUMENT CENTER: Component Function Check

INFOID:0000000006202393

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

(P)With CONSULT-III

- 1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
- 2. Touch "ROOM ANT 2".
- 3. When Intelligent Key is in inside key antenna (instrument center) detection area, LED (on Intelligent Key) blinks.

Test Item		Inside Antenna	
ANTENNA	:ROOM ANT 2	Inside key antenna (instrument center)	

Is the inspection result normal?

YES >> Inside key antenna (instrument center) is OK.

NO >> Refer to <u>SEC-57</u>, "INSTRUMENT CENTER: Diagnosis Procedure".

INSTRUMENT CENTER: Diagnosis Procedure

INFOID:00000000006202394

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect inside key antenna (instrument center) connector.
- Check signal between inside key antenna (instrument center) harness connector and ground with oscilloscope.

Terr	ninals			
(+)			Condition	Signal
Inside key antenna (instrument center) connector	Terminal	(-)	Condition	(Reference value)
M56	1	Ground	Ignition knob switch is pressed	(V) 15 10 5 0 1 1 1 1 1 1 1 1 1 1
Wide	2	Clound	ignition knob switch is pressed	(V) 15 10 5 0 11 1

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center).

NO >> GO TO 2.

INSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. CHECK INSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect Intelligent Key unit connector.
- 2. Check continuity between Intelligent Key unit harness connector and inside key antenna (instrument center) harness connector.

Intelligen	t Key unit	Inside key antenna (instr	ument center)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	33	M56	1	Exists
IVI40	34	VIOO	2	EXISIS

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelliger	t Key unit		Continuity
Connector	Terminal	Ground	
M40	33	Ground	Does not exist
IVI40	34		Does not exist

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-273</u>, "Removal and Installation".

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (instrument center).

CONSOLE

CONSOLE : Description

INFOID:0000000006202395

Detects whether Intelligent Key is inside the vehicle.

CONSOLE: Component Function Check

INFOID:0000000006202396

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

(P)With CONSULT-III

- 1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
- 2. Touch "ROOM ANT 1".
- 3. When Intelligent Key is in inside key antenna (console) detection area, LED (on Intelligent Key) blinks.

	Test Item	Inside Antenna
ANTENNA	:ROOM ANT 1	Inside key antenna (console)

Is the inspection result normal?

YES >> Inside key antenna (console) is OK.

NO >> Refer to <u>SEC-58</u>, "CONSOLE : Diagnosis Procedure".

CONSOLE : Diagnosis Procedure

INFOID:0000000006202397

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect inside key antenna (console) connector.
- 3. Check signal between inside key antenna (console) harness connector and ground with oscilloscope.

	Terminal				
(+)			Condition	Signal	
Inside key antenna (console) connector	Terminal	(-)		(Reference value)	
M252	1	Ground	Ignition knob switch is pressed	(V) 15 10 5 0 JMKIA0393ZZ	
IVIZƏZ	2	Ground	ignition knob switch is pressed	(V) 15 10 10 1 s 1 s	

Is the inspection result normal?

YES >> Replace inside key antenna (console).

NO >> GO TO 2.

2.check inside key antenna circuit

- Disconnect Intelligent Key unit connector.
- Check continuity between Intelligent Key unit harness connector and inside key antenna (console) harness connector.

Intellige	nt Key unit	Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	15	M252	1	Exists
17140	16	IVIZOZ	2	LAISIS

Check continuity between Intelligent Key unit harness connector and ground.

Intelligen	t Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	15	Giodila	Does not exist
WI4O	16		Does not exist

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-273, "Removal and Installation".

>> Repair or replace harness between Intelligent Key unit and inside key antenna (console). NO

REAR SEAT

REAR SEAT: Description

Detects whether Intelligent Key is inside the vehicle.

REAR SEAT : Component Function Check INFOID:0000000006202399

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

(P)With CONSULT-III

Check "ANTENNA" in "Active Test" mode with CONSULT-III.

SEC-59 Revision: 2010 July 2011 Rogue

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INFOID:0000000006202398

INSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- 2. Touch "ROOM ANT 2".
- When Intelligent Key is in inside key antenna (rear seat) detection area, LED (on Intelligent Key) blinks.

Test Item		Inside Antenna
ANTENNA	:ROOM ANT 2	Inside key antenna (rear seat)

Is the inspection result normal?

YES >> Inside key antenna (rear seat) is OK.

NO >> Refer to SEC-60, "REAR SEAT : Diagnosis Procedure".

REAR SEAT: Diagnosis Procedure

INFOID:0000000006202400

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect inside key antenna (rear seat) connector.
- 3. Check signal between inside key antenna (rear seat) harness connector and ground with oscilloscope.

Terr	Terminal				
(+)			Condition	Signal	
Inside key antenna (rear seat) connector	Terminal	(-)		(Reference value)	
B45	1	Ground	Ignition knob switch is pressed	(V) 15 10 5 0 1 1 1 1 1 1 1 1 1 1	
240	2	Sisting	ig.m.o. m.o. om.o. o procedu	(V) 15 10 5 0	

Is the inspection result normal?

YES >> Replace inside key antenna (rear seat).

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector.

Check continuity between Intelligent Key unit harness connector and inside key antenna (rear seat) harness connector.

Intelliger	nt Key unit	Inside key antenna (rear seat)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	13	B45	1	Exists
10140	14	B45	2	EXISIS

3. Check continuity between Intelligent Key unit harness connector and ground.

INSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Intellige	ent Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	13	Giodila	Does not exist
IVI40	14		Does not exist

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-273</u>, "Removal and Installation".

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (rear seat).

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< DTC/CIRCUIT DIAGNOSIS >

HORN

EXCEPT FOR MEXICO

EXCEPT FOR MEXICO: Description

INFOID:0000000006202401

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

EXCEPT FOR MEXICO: Component Function Check

INFOID:0000000006202402

1. CHECK FUNCTION

- 1. Select "HORN" in "Active Test" mode with CONSULT-III.
- Check the horn (high/low) operation.

Test item		Desc	ription
HORN	ON	Horn (high/low)	ON (for 20 ms)

Is the operation normal?

YES >> INSPECTION END

NO >> Refer to <u>SEC-62</u>, "EXCEPT FOR MEXICO : Diagnosis Procedure".

EXCEPT FOR MEXICO: Diagnosis Procedure

INFOID:0000000006202403

1. CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

YES >> GO TO 2.

NO >> Refer to HRN-2, "EXCEPT FOR MEXICO: Wiring Diagram - HORN -".

2.CHECK HORN RELAY CIRCUIT

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

IPDM E/R		Horn	Continuity	
Connector	Terminal	Connector Terminal		Continuity
E15	57	E5	1	Existed

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

IPDI	M E/R		Continuity
Connector	Connector Terminal		Continuity
E15	57		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-29, "Removal and Installation".

NO >> Repair or replace harness.

FOR MEXICO

FOR MEXICO: Description

INFOID:0000000006202404

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

FOR MEXICO: Component Function Check

INFOID:0000000006202405

1. CHECK FUNCTION

- Select "HORN" in "Active Test" mode with CONSULT-III.
- Check the horn (high/low) operation.

[WITH INTELLIGENT KEY SYSTEM]

Test item		Descript	ion		
HORN	ON	Horn (high/low) ON (for 20 ms)			
HORN the operation norma	-	Horn (high/low) ON (for 20 ms)			

YES >> INSPECTION END

>> Refer to SEC-63, "FOR MEXICO: Diagnosis Procedure". NO

FOR MEXICO: Diagnosis Procedure

1. CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

YES >> GO TO 2.

NO >> Refer to HRN-2, "EXCEPT FOR MEXICO: Wiring Diagram - HORN -".

2.CHECK HORN RELAY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connector, horn relay connector and theft warning horn relay connector.
- Check continuity between IPDM E/R harness connector and horn relay harness connector.

IPD	IPDM E/R		Horn relay	
Connector	Terminal	Connector Terminal		Continuity
E15	57	E5	1	Existed

Check continuity between IPDM E/R harness connector and theft warning horn relay harness connector.

IPD	M E/R	Theft warnin	g horn relay	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E15	57	E70	1	Existed

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

	IPDI	M E/R		Continuity
	Connector	Terminal	Ground	Continuity
-	E15	57		Not existed

Is the inspection result normal?

>> Replace IPDM E/R. Refer to PCS-29, "Removal and Installation". YES

NO >> Repair or replace harness. **SEC**

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VEHICLE SECURITY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY INDICATOR

- Vehicle security indicator is built in combination meter.
- NVIS/NATS and vehicle security system conditions are indicated by blink or illumination of vehicle security indicator.

Component Function Check

INFOID:0000000006202408

1. CHECK FUNCTION

- 1. Perform "THEFT IND" in the "Active Test" mode with CONSULT-III.
- 2. Check vehicle security indicator operation.

Test it	em	Descript	ion
THEFT IND	ON	Vehicle security indicator	ON
	OFF	verlicle security indicator	OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SEC-64, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000006202409

1. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

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

(+) Combination	n meter	(–)	Voltage (V) (Approx.)
Connector	Terminal		(Арргох.)
M34	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK SECURITY INDICATOR LAMP SIGNAL CIRCUIT

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

В	CM	Combina	tion meter	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	23	M34	28	Existed

Check continuity between combination meter harness connector and ground.

Combina	tion meter		Continuity
Connector	Terminal	Ground	Continuity
M34	28		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

1. Connect combination meter connector.

VEHICLE SECURITY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. Check voltage between BCM harness connector and ground.

	+) CM	(-)	Voltage (V) (Approx.)
Connector	Terminal		
M65	23	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-66, "Removal and Installation".

NO >> Replace combination meter. Refer to MWI-78, "Removal and Installation".

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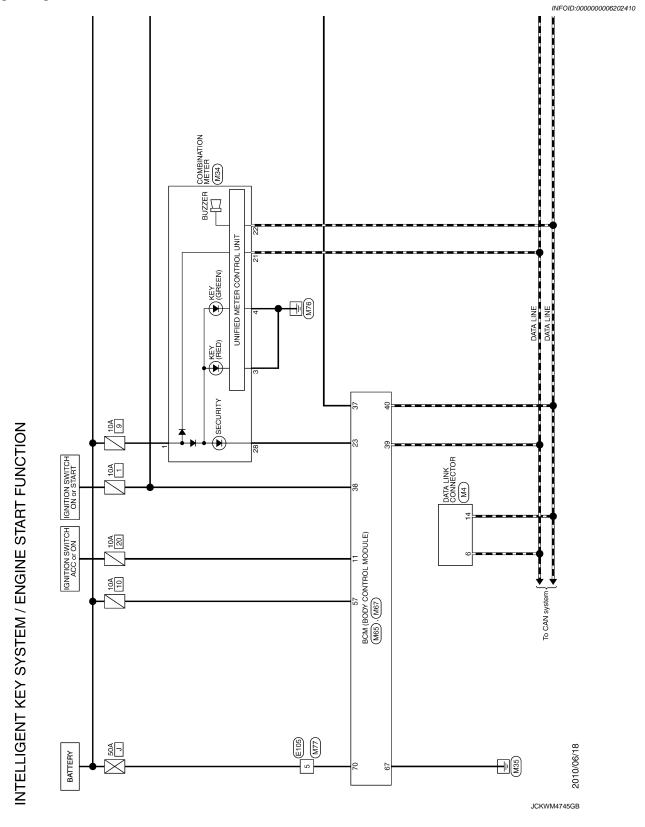
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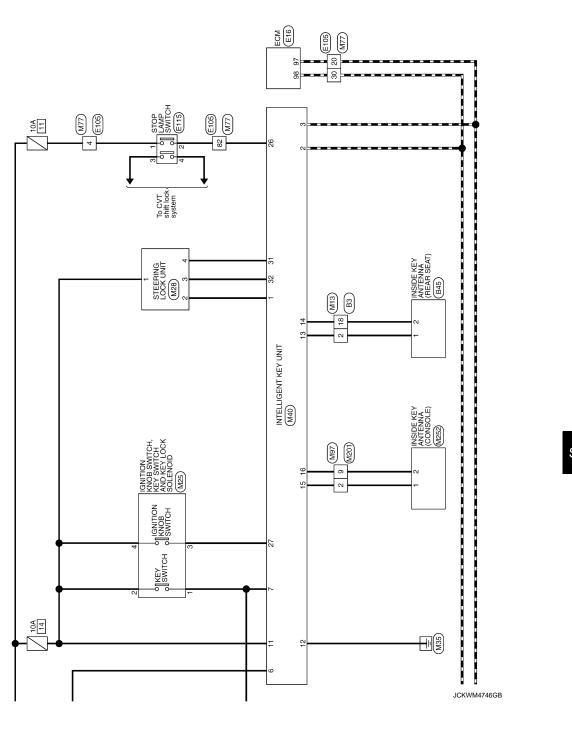
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INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

Wiring Diagram - INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION -





Revision: 2010 July SEC-67 2011 Rogue

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

< DTC/CIRCUIT DIAGNOSIS >

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

< DTC/CIRCUIT DIAGNOSIS >

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INTELLIGENT KEY SYSTEM / Domester No. M4 Somester Name DATA LINK CONNECTOR BOIGEW Somester Type BD16FW T 2 3 4 5 6 7 8	Or Wine No. M13 No. M13 No. M13 No. M13 No. M13 No. M13 No. M No	Ν
INTELLIG Connector Ne. Connector Type Connector Type H.S.	No. O'Wire O'Wi	0
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INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION T DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

		Connector Name WIRE TO WIRE	Connector Type NS16FW-CS		AHIT	HS. [7 6 5 4 [3 2 1]	17 13 13 11 10	9		- 1-	a	No. or wire	2 R	> <	+ M	5 GR –	88 9	Z	\dashv	I 5	+	+	4	16 R –																									
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START FUI	Connector No. M6/	Connector Name BCM (BODY CONTROL MODULE)	Connector Type FEA09FB-FHA6-SA		AHIT	H.S. 1—56 57 58 59 60 61 62 63 64 1	65 66 67 68 69 70	00 00		ŀ	la l	No. of Wife	- 0	/D /	60 BR FLASHER OUT PUT (LEFT)	61 GR FLASHER OUT PUT (RIGHT)	63 R ROOM LAMP OUTPUT	>	G D/L UN	В	+	۵	70 Y BATFL			Connector No. M77	Connector Name WIRE TO WIRE	┪	Connector Type TH80MW-CS16-TM4	1	100 000		4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		82 72 82 82 82 82 82 82 82 82 82 82 82 82 82		la l	No. of Wire olgnar wante Lopecincation	1 BR –	2 0 -	3 FG -	- × 4	> LC	- 9	H	- GR	H	┝	
뜅	Т	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FW-NH		主力		14 15 16 17 18 19	32 33 34 35 36 37		- 1-	Ē	No. of Wife	2 G INPUT 5	>	4 W INPUT 3	5 R INPUT 2	6 P INPUT 1		R KE	œ	SB	+	a.	PC	4	W	18 O KEYLESS TUNER SENS GND	> :	GR	o (25 B SECURITY IND OUT PUT	<u> </u>	28 LG BLOWER FAN SW	М	G BAC	BR	GR	34 L OUTPUT 3	35 B OUTPUT 2	>	LG K	38 G		40 P CAN-L	-				

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

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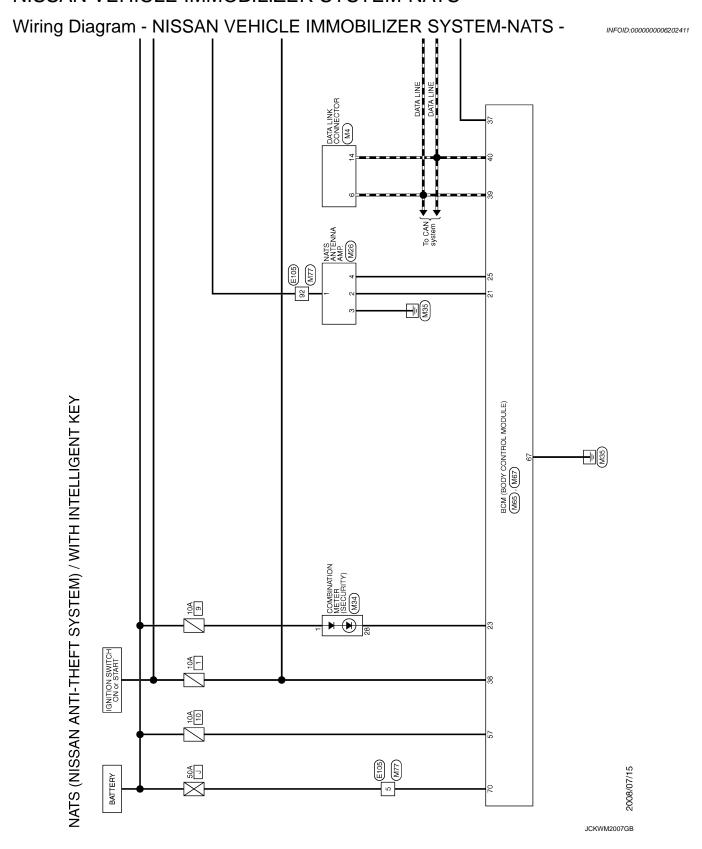
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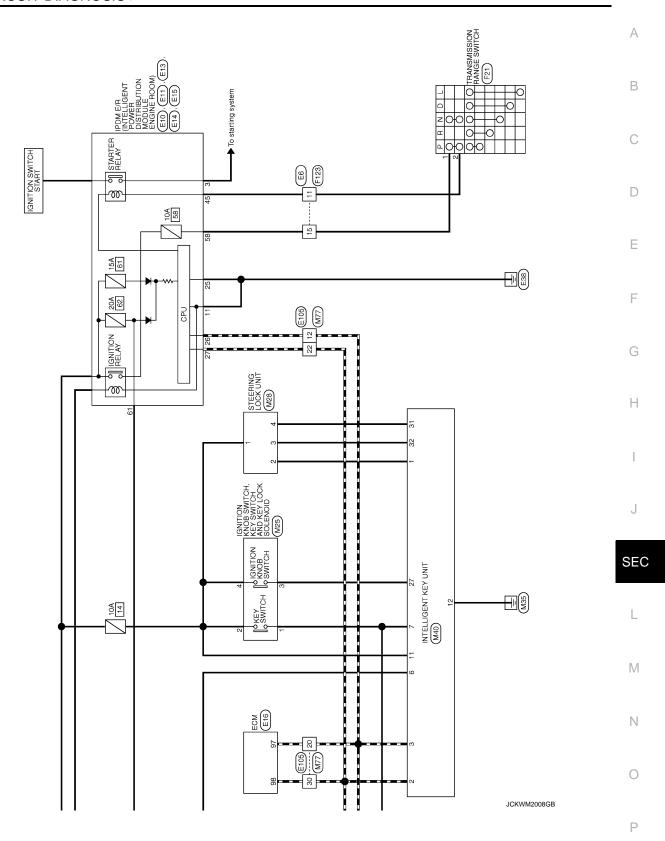
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WE START FUNCTION																								
INTELLIGENT KEY SYSTEM / ENGINE START FUNCTION	WIRE TO WIRE		2 3 6 4 5 6	10 11 12 10 14	Signal Name [Specification]	-	-		-	1	1	1	1	1	1	1	1	M252	INSIDE KEY ANTENNA (CONSOLE)	RK02FGY		Signal Name [Specification]	. 1	
LIGE No.	Name		نلنا	<u> </u>	Color of Wire	ŋ	ء ا	≤ ≥	GR	SB	ŋ	В	g	\succ	<u>ه</u>	0	œ	No.	Name	Type		Color of Wire	œ	٩
INTEL	Connector Name	售	H.S.		Terminal No.	-	2 0	o 4	2	9	7	8	6	10	13	15	16	Connector No.	Connector Name	Connector Type	是 H.S.	Terminal No.	-	,

NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS





NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM] | VACC 2-VAS 2 | VACC 2-VAS 2 | VACC 2-VAS 2 | VACC 3-VAS 3 | VACC 3-VAS 3

Connector No. E16 Connector Type RH24FB-R28-L-LH Connector Type RH24FB-R28-L-LH (81 858 89 89 97107 105 109 (82 89 99 99 102 101 101 (83 87 91 85 89 90 101 101 (83 87 91 85 89 90 101 101 (84 89 89 89 89 101 101 (84 89 89 89 80 101 101 (85 87 91 85 89 101 101 (85 87 91 85 89 101 101 (85 87 91 85 89 101 101 (85 87 91 85 89 101 101 (85 87 91 85 80 101 101 (85 87 91 85 80 101 101 (85 87 91 85 80 101 101 (85 87 91 85 80 101 101 (85 87 91 85 80 101 101 (85 87 91 85 80 101 101 (85 87 91 85 80 101 (85 87 85 80 80 80 (85 87 85 80 80 (85 87 85 80 80 (85 87 85 80 (85 87	nal Color Signal of Wire Signal S	> = = = = = = = = = = = = = = = = = = =		108
Connector No. E14 Prove to the Connector No. E14 Connector Name Prove to the cool Connector Type NS 12 FBR-CS 1	Color Signal Name of Wire Signal Name of Wire Signal Of Wire GR	41 0 N	Connector No. E15 Connector Name Provide instruction revoke distribution uncour. Connector Type NS 16FW-C3 LAS E55 25 51 50	Terminal Color Signal Name [Specification] A N N N N N N N N N
	<u></u>	ola Mire	5 5 5	Color Colo
NATS (NISSAN ANTI-THEFT SYSTEM) Convector No. E6 Connector Name WIRE TO WIRE	Color Signal Name Of Wire Signal Name S S S S S S S S S	LG 0 0 0 V CG V CG V CG V CG V CG V CG V		Connector No. Energy Connector Type Connector Type MUGFW-I.C.

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NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Specification] Specification Speci	A B
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feation]	Е
No. F123 Name WIRE TO WIRE Type Trk24PW-1V Type BD16FW Color No. M4 Name Signal Name [Specification] Type BD16FW Color No. M4 Type BD16FW Color Color Color No. M4 Type BD16FW Color Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Ty	F
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NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS (GNOSIS > [WITH INTELLIGENT KEY SYSTEM]

NATS (NI: Connector No.	SSAN ANTI-THEFT SYSTEN	A) / WITH	WITH INTELLIGENT KEY 27 BR BRAKE FLUD LEVEL S 28 B SECURITY SI 29 W MASHER LEVEL SW	BRAKE FLUD LEVEL SWITCH SIGNAL SECURITY SIGNAL WASHER LEVEL SWITCH SIGNAL	37	0 > 0	STRG LOOK UNIT SIG PASSENGER DOOR (+) PASSENGER DOOR (-)	39	۵ اـ	CAN-H CAN-L	
Connector Type	r Type TK04FW	31	\mathbb{H}	VEHICLE SPEED SIGNAL (2-PULSE) VEHICLE SPEED SIGNAL (8-PULSE) FUEL I EVEL SENSOR SIGNAL	40	>	AS ANTI HIJACK	Connector No.	П	67	_
H.S.		32	Ħ	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)	Connector No.		M65	Connector Name	-	BCM (BODY CONTROL MODULE) FEA09FB-FHA6-SA	
	1234	37	Ш	NON-MANUAL MODE SIGNAL MANUAL MODE SHIFT DOWN SIGNAL	Connect	Connector Name B Connector Type T	BCM (BODY CONTROL MODULE) TH40FW-NH	Œ			,
		39	V MAN	MANUAL MODE SHIFT UP SIGNAL MANUAL MODE SIGNAL	Œ			HS.	F 56 57	57 58 59 60 61 62 63 64	
Terminal No.	۵ و				HS				65	02 69 89 20	
- 2	GR -	Connector No.	┰	and the Audit and		21 22 23 24	26 27 28 29				
ε 4		Connector Name Connector Type	\neg	INTELLIGENT KEY UNIT				Terminal No.	Color of Wire	Signal Name [Specification]	
		<u>4</u>	1		Terminal No.	al Color of Wire	Signal Name [Specification]	56	> 0	BATTERY SAVER OUTPUT	
Connector No.	or No. M34				-	>	KEY RING OUTPUT	29	, _	D/L UNLOCK DR	
Connector Name	r Name COMBINATION METER		- 117	Λß	2	ŋ	INPUT 5	09	HH.	FLASHER OUT PUT (LEFT)	
Connector Tyne	\neg	12	1 22 23 24 25 26 27 2	28 29 30 31 32 33 34 35 36 37 38 39 40	ω 4	> 3	INPUT 4	63	8 a	ROOM LAMP OLITRUIT	_
4	1	I			. 5	œ	INPUT 2	65	>	D/L LOCK ALL	_
厚					9	۵	INPUT 1	99	g	D/L UNLOCK OTHER	
		Terminal	Color	Signal Name [Specification]	7	_	KEY CYC UNLOCK	67	В.	GND	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	T		STBG LOCK LINIT 5V O/B	20 σ	Υ 0	RET CYL LUCK SW	80	۵ ا	POWER WDW CUIPUL (RAP)	
	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 35 37 38 39 40	- 5		CAN-H	01	g BS	RR DEF SW	202	. >	BATFL	
		8	а.	CAN-L	11	SB	ACC				
Terminal	Color	4 rc	0 >	BEOLIEST SW (DB)	13	ء د	DR SW AS				
Š.		9	W	NS NDI	41	9	AUTO LIGHT SENS INPUT				
-	BAT	7	Pl	KEY SW	17	М	SENS POWER SUPPLY				
2	O IGNITION SIGNAL	2 :	SB	P RANGE IMPUT SW	8 9	0 2	KEYLESS TUNER SENS GND				
ۍ 4	B GROUND	12	r m	GND	19	> 85	KEYLESS TÜNER POWER				
2	Ą	13	>	REAR SEAT (+)	21	ŋ	IMMOBI ANT (CLOCK)				
7	GR OVERDRIVE CONTROL SWITCH SIGNAL	14	BR	REAR SEAT (-)	23	В	SECURITY IND OUT PUT				
g Ç	L PADDLE SHIFTER SHIFT UP SIGNAL	15	x 0	CONSOLE (+)	25	품 >	MMOBI ANT (RX, TX)				
5 5	+	17	> ≥	BACK DOOR (+)	78		BLOWER FAN SW				
12	LG AIR BAG SIGNAL	18	œ	BACK DOOR (-)	59	>	HAZARD SW				
16	ENGINE	19	BR	DRIVER DOOR (+)	30	g	BACK DOOR OPEN SW				
18	_	20	0	DRIVER DOOR (-)	32	æ	OUTPUT 5				
20	SB AMBIENT SENSOR GROUND	25	BR	REQUEST SW (AS)	33	g,	OUTPUT 4				
22	CAN-H P CAN-L	26	a 5	STOP LAMP SW KNOB SW	35	J 8	OUTPUT 3 OUTPUT 2				
24	B FUEL LEVEL SENSOR SIGNAL GROUND	28	2 8	DR LOCK STATE SW	36	>	OUTPUT 1				
25	Н	59	SB	REQUEST SW (BD)	37	. Pg	KEY SW				
56	V PARKING BRAKE SWITCH SIGNAL	31		STRG LOCK UNIT GND	38	ŋ	IGN				

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

< DTC/CIRCUIT DIAGNOSIS >

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N)		r Name	r Type										of Wire	BR	ا د	2 >	· >	ی ا	œ	GR	BR	_	GR	۵	SB	>	œ	۵	0	٦	BR	*	٦	≯	0	SHIELD	≥	SB	٦	>	0	BR	ŋ	۵	М	а	۵	0	SB	>
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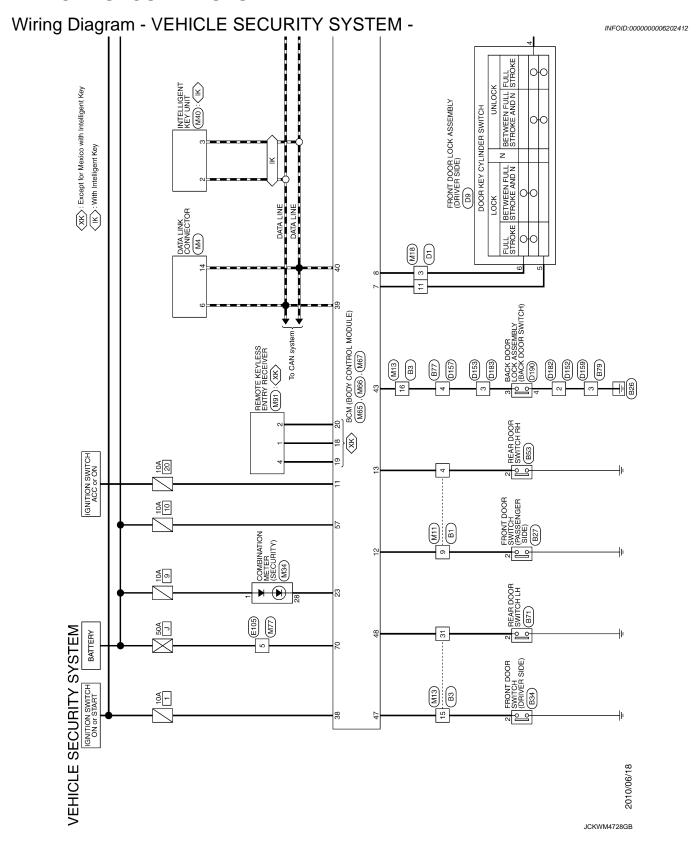
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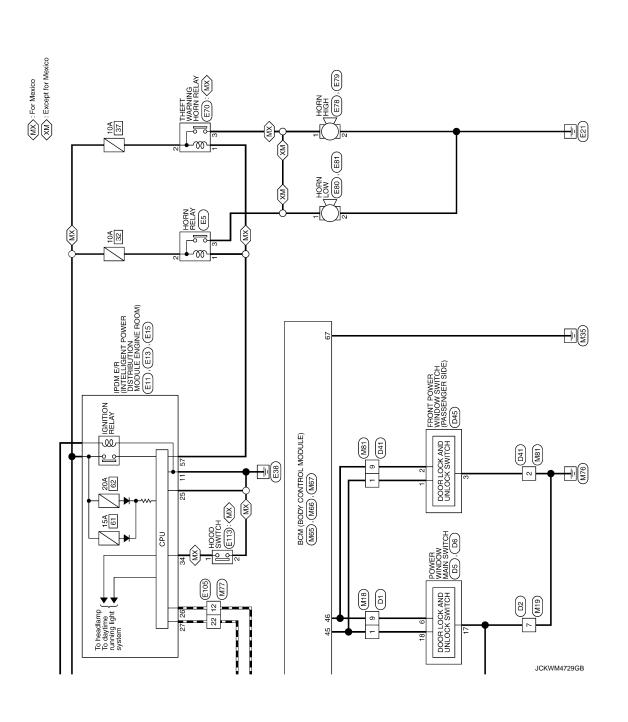
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MIRE TO WIRE THI6FW-NH Signal Name [Signal Name	J
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RITY SYST R WALDOW SWITCH (PASSEL CS	TO WIRE BR-CS	Connector No. D159 Connector Name WIRE TO WIRE Connector Type MO4FW-LC	M 88 88 M N N N N N N N N N N N N N N N
1 2 3 4 5 6 7 8 9 101112 Ferminal Color Simual Name (Sonecification)	5 4 3 2 1	Terminal Color Sample Sample (Sample Color Sample Sample Color Sample	11
of Wire		Ш	Connector Name BACK DOOR LOCK ASSEMBLY Connector Type NSO4FW-CS
≅ M M	SHIELD SHIELD CONTROL OF CONTROL	Connector Name WIRE TO WIRE Connector Type MO2MW-GY-LC	4321
Connector No. D152 Connector Name WIRE TO WIRE Connector Type M02FW-GY-LC	ctor Na	H.S.	Terminal Color Signal Name Specification No. of Wire V 2 W - 2 4 B - 4
First Color Signal Name [Specification]	Connector Type NS:10FW-CS H.S. 4 3	Terminal Color Signal Name [Specification] Oliver Signal Name [Specification] 2 B Commetter No. D183 Commetter No. D183 Commetter Name WIRE TO WIRE	Connector No. E5 Connector Name HORN RELAY Connector Type —
	Terminal Color Signal Name [Specification] Color	Connector Type INST2MBR-CS H.S.	13 1
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	EY UNIT			13 14 15 16 33 34 35 36		Signal Name [Specification]	STRG LOCK UNIT 5V 0/P	CAN-L	BUZZEK REQUEST SW (DR)	IGN SW	P RANGE IMPUT SW	BATT+	REAR SEAT (+)	REAR SEAT (-)	CONSOLE (+)	ACK DOOR (+)	BACK DOOR (-)	DRIVER DOOR (+)	QUEST SW (AS)	STOP LAMP SW	KNOB SW	REQUEST SW (BD)	3 LOCK UNIT GN	PASSENGER DOOR (+)	PASSENGER DOOR (-)	S ANTI HIJACK									В
	M40 INTELLIGENT KEY UNIT	TH40FW-NH		3 4 5 6 7 8 9 10 23 24 25 26 27 28 29 30		Signal	STRG		RE		PR		14	Œ		8	8	2 2	2 12	S	au	3 2	STR	PASS	PAS	¥									С
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	METER			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 17 18 18 20 21 21 22 22 22 24 25 26 27 28 29 29 31 32 28 33 45 18 57 28 39 40		Signal Name [Specification]	BATTERY POWER SUPPLY IGNITION SIGNAL	GROUND		E CONTROL SWITCH SIGN	PADDLE SHIFTER SHIFT DOWN SIGNA	TION CONTRC	LANT TEMPERA	NT SENSOR S	NT SENSOR G	CAN-L	FUEL LEVEL SENSOR SIGNAL GROUND	ALTERNATOR SIGNA	BRAKE FLUID LEVEL SWITCH SIGNAL	CURITY SIGN	LEVEL SWITCH	VEHICLE SPEED SIGNAL (8-PULSE)	FUEL LEVEL SENSOR SIGNAL	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE	ANUAL MODE	MANUAL MODE SHIFT DOWN SIGNAL MANUAL MODE SHIFT UP SIGNAL MANUAL MODE SIGNAL									F
	M34 COMBINATION METER	TH40FW-NH		25 26 27 28 29 30		Signal	BATTE		C AUTO AMP. C	OVERDRIVE OF	PADDLE SHI	ILLUMINA	ENGINE COOL	AMBIE	AMBIE		FUEL LEVEL	PARKING	BRAKE FLU	SE	WASHER	VEHICLE S	FUEL LE	EAT BELT BUCKL	W-NON-W	MANUAL MANUAL MAN									
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SURITY	M13 WIRE TO WIRE	TH32FW-NH		12 11 10 9 8 28 27 26 25 24		Signal Na																	WIRE TO WIRE	TH16MW-NH		3 4	1121	Signal Na							N
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VEHIC	VEHICLE SECURITY SYSTEM										
Connector No.	lo. M65	Conn	Connector No.	M66	Connector No.		M77	80	٦	1	
Connector Name	BCM (BODY CONTROL MODILIE)	Good	Connector Name	BCM (BODY CONTROL MODILIE)	Connect	Connector Name	JEIM OT JEIM	81	W	-	
								82	В	1	
Connector Type	ype TH40FW-NH	Conn	Connector Type	FEA09FW-FHA6-SA	Connect	Connector Type	TH80MW-CS16-TM4	83	LG	1	
q		ą			ą			88	BR	ı	
厚		医	_		厚		9	88	G	1	
) i		7	į. V		NH C			06	GR	ı	
_L	(<u>ፔ</u>	41 42 43 44 45 46 47 48 49		9	20 ES	91	٣	1	
-18	17 18			50 51 52 54 55			20 00 00 00 00 00 00 00 00 00 00 00 00 0	92	٦	1	
2	24 25 26 27 28 29 30 31 32 33 34 35 35 35		<u></u>	30 31			N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93	۵	1	
							22 22 22 22 22 22 22 22 22 22 22 22 22	94	Μ	1	
								96	BR	1	
a	Color Simal Nama [Specification]	Tern	Ferminal Color	Simal Name [Coacification]	Terminal		Simal Nama [Coacification]	97	g	_	
No.	of Wire	No	o. of Wire		No.	of Wire	Ografia rame Copecinication	66	SB	1	
-	V KEY RING OUTPUT	43	>	BACK DOOR SW	-	BR	-	100	Υ	-	
2	G INPUT 5	44	4 B	RR WIP AUTO STOP	2	0	-				
3	Y INPUT 4	42		CDLLOCK SW	8	57	-				
4	W INPUT 3	46	BR BR	CDLUNLOCK SW	4	>	1	Connector No.		M81	
2		47	M 4	DR SW DR	c	>	1	,	Г	Library O.F. Library	
9		84	8 GR	DR SW RL	9	ŋ	-	Connect	Connector Name	WIRE TO WIRE	
7	KEY	49	├	LUGGAGE LAMP OUTPUT	7	α	1	Connect	Connector Type	TH16MW-NH	
8	R KEY CYL LOCK SW	53	>	BACK DOOR OPENER OUTPUT	∞	GR	1				
6		25	SB	RR WIP MTR OUT	o	BR	1	1			
10] 	\mathbf{I}		10	_	_	1			
=		_			=	æ	-	2			
12	P DR SW AS	Conn	Connector No.	M67	12	<u>_</u>	1			1 2 3 4 5 6 7 8	
\$ \$		_		Т	-	. 8					
2 7	DR SW RR	Conn	Connector Name	BCM (BODY CONTROL MODULE)	± u	8 >			_	9 10 11 12 13 14 15 16	
± !	1	ļ,	ŀ		2 :	> 0					
17	4	Cour	Connector Type	FEA09FB-FHA6-SA	19	ď	_		ŀ		
18	O KEYLESS TUNER SENS GND	Q	•		50	۵	-	Terminal		Signal Name [Specification]	
19	4	医	-		21	0	1	No.	of Wire		
20	_	7	L Si		22	_	-	-	ŋ	1	
21		!	<u>压</u>	56 57 58 59 60 61 62 63 64	24	BR	1	2	В	1	
23	0)			65 65 68 60 70	25	Μ	_	ဂ	LG	1	
22	BR IMMOBI ANT (RX, TX)		1		30	7	_	7	BR	1	
27	Y AIRCON SW				31	W	_	8	^	-	
28	В				42	0	-	6	0	-	
29	W HAZARD SW	Tern	Terminal Color	Simil Name Constitution	43	SHIELD	-	10	æ	-	
_	G BACK DOOR OPEN SW	No	o. of Wire		51	Μ	-	=	Υ	-	
		26	٤ ٨	BATTERY SAVER OUTPUT	52	SB	-	15	GR	-	
		22	D 4	BAT FUSE	53	_	=	91	Ь	ī	
34	L OUTPUT 3	29	٦ و	D/L UNLOCK DR	54	>	1				
35	B OUTPUT 2	9	0 BR	FLASHER OUT PUT (LEFT)	09	0	1				
36	V OUTPUT 1	119	1 GR	FLASHER OUT PUT (RIGHT)	19	BR	1				
37	LG KEY SW	63	┝	ROOM LAMP OUTPUT	62	g	ſ				
38		65	L	D/L LOCK ALL	63	۵	1				
39		99	5	D/L UNLOCK OTHER	69	*	1				
40	P CAN-L	67	L	GND	70	В	1				
		188	3	POWER WDW OUTPUT (RAP)	7.1	۵	1				
		69	d 6	POWER WDW OUTPUT (BAT)	72	0					
		Ĺ	┝	BAT FL	78	SB	1				
					79	>	_				

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VEHICLE SECURITY SYSTEM	M91	REMOTE KEYLESS ENTRY RECEIVER	TK04FW	1234	Signal Name [Specification]	GND	SIGNAL	POWER
SLE S	· No.	· Name	. Type		Color of Wire	0	GR	>
VEHI	Connector No.	Connector Name	Connector Type	H.S.	Terminal No.	-	2	4

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
KET ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOD OW DD	Driver's door closed	Off
DOOR SW-DR	Driver's door opened	On
DOOD OW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD OW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD OW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DACK DOOD OM	Back door closed	Off
BACK DOOR SW	Back door opened	On
KEN CALLIX CM	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET CTL UN-SW	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
KETLESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
LIZEV LINILOOK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
100 011 0111	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE OV	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LIQUE OW 10T	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BUCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
ZEVI ESS DANIO	PANIC button of key fob is not pressed	Off
KEYLESS PANIC	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
RRE LOR-UNLOR	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
DVE VEED LINI V	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
HI BEAM SW	Lighting switch OFF	Off
JI DEAIVI SVV	Lighting switch HI	On
IEAD LAND OWA	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
IEAD LAMB CIA/ C	Lighting switch OFF	Off
IEAD LAMP SW 2	Lighting switch 2ND	On
LITO LIQUIT OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
24.001410.0141	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	Front fog lamp switch OFF	Off
R FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
FURNI GIONIAL R	Turn signal switch OFF	Off
URN SIGNAL R	Turn signal switch RH	On
FURNI GLONIAL I	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
NOINE DUN	Engine stopped	Off
ENGINE RUN	Engine running	On
OKD CW	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
ODTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
CNI CIMI CANI	Ignition switch OFF or ACC	Off
GN SW CAN	Ignition switch ON	On
	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
FR WIPER LOW	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On
ED WIDED INT	Off	
FR WIPER INT	On	
ED 14/4 OLIED O.4/	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading
	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RR WIPER STP2	NOTE:	Off
	The item is indicated, but not monitored.	
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch OFF	Off
TINE TINE	Hazard switch ON	On
BRAKE SW	Brake pedal is not depressed	Off
DIVARLE OW	Brake pedal is depressed	On
FAN ON SIG	Blower fan motor switch OFF	Off
PAIN OIN SIG	Blower fan motor switch ON (other than OFF)	On
ALD GOALD OW	 A/C conditioner OFF (A/C switch indicator OFF) (Automatic air conditioner) A/C switch OFF (Manual air conditioner) 	Off
AIR COND SW	A/C conditioner ON (A/C switch indicator ON) (Automatic air conditioner) A/C switch ON (Manual air conditioner)	On
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off
LIZEV DVA DVAR	UNLOCK button of Intelligent Key is not pressed	Off
I-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On
	PANIC button of Intelligent Key is not pressed	Off
I-KEY PANIC	PANIC button of Intelligent Key is pressed	On
	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
	When back door opener switch is not pressed	Off
TRNK OPNR SW	When back door opener switch is pressed	On
TRUNK CYL SW	NOTE:	Off

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off
	Open the hood	On
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off
	Ignition switch ON	On
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGST FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGST FRT	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGST RRT	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WAKINING LAWP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

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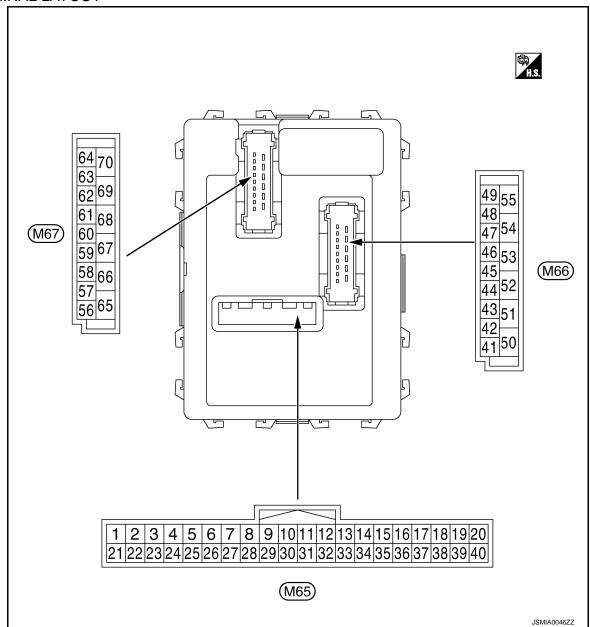
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TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-27, "COMB SW: CONSULT-III Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to BCS-9, "System Diagram".

	Terminal No. (Wire color)		Description				Value	
			Signal name	Input/	Condition		(Approx.)	
	+	_	Signal Hame	Output				
	1 Ground Ignition key hole illu-	lu- Output	Output Ignition key hole	OFF	Battery voltage			
	(V)	Ground	mination control	Output	illumination	ON	0 V	

< ECU DIAGNOSIS INFORMATION >

Terminal No. Description (Wire color)				Condition	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF Turn signal switch RH Lighting switch HI Lighting switch 1ST	0 V (V) 15 10
		Lighting switch 2N	Lighting switch 2ND	15 0 0 ++10ms PKIB4953J 2.0 V		
				Combination switch	All switch OFF	0 V
					Turn signal switch LH	(V)
3 (Y)	Ground	Combination switch	Input		Lighting switch PASS Lighting switch 2ND	(V) 15 10 5 0 ++10ms PKIB4959J 1.0 V
(Y) Ground IN			(Wiper intermittent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 ++10ms PKIB4955J 0.8 V	
					All switch OFF	0 V
4 (W)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch AUTO Front wiper switch LO Front wiper switch MIST	(V) 15 10 5 0
				,	Front wiper switch INT	PKIB4959J

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4) Rear washer ON (Wiper intermittent dial 4)	(V) 15 10 5
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	PKIB4959J
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5
					Wiper intermittent dial 3 (All switch OFF)	PKIB4959J 1.0 V
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	(V) 15 10 5 0 ++10ms PKIB4952J 1.7 V
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description		0 - 177 -		Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	\wedge
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	B C
					UNLOCK position	0 V	
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0587GB	E F
					1001/	8.0 - 8.5 V	G
					LOCK position OFF (Brake pedal is not	0 V	Н
9 (R)	Ground	Stop lamp switch	Input	Stop lamp switch	depressed) ON (Brake pedal is depressed)	Battery voltage	
10	Ground	Rear window defog-	Input	Rear window	Not pressed	Battery voltage	
(SB)	Oround	ger switch	mpac	defogger switch	Pressed	0 V	
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch O		0 V	J
(30)				Ignition switch A	CC or ON	Battery voltage	
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) 15 10 5 0	SEC
					ON (When passenger door opened)	7.5 - 8.0 V 0 V	M
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	O P
					ON (When rear door RH opened)	0 V	

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value								
+	color)	Signal name	Input/ Output		Condition	(Approx.)								
14	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V								
(G)	Cround	Option consor	Прис	ON	When dark outside of the vehicle	Close to 0 V								
17 (W)	Ground	Optical sensor pow- er supply	Output	Ignition switch	OFF, ACC	0 V								
18 [*] (O)	Ground	Remote keyless entry receiver ground	Input	Ignition switch O	ON N	5 V 0 V								
		Remote keyless en-		Without Intelligent Key system	At any condition • Ignition switch OFF	5 V								
19 [*] (V)	Ground	try receiver power supply	Input	With Intelligent Key system	 Ignition switch OFF For 3 seconds after ignition switch OFF to ON 3 seconds or later after ignitions 	0 V								
					nition switch OFF to ON	5 V								
				Without Intelligent Key system	At any condition	(V) 15 10 5 0								
20 [*] (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V								
												With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) 15 10 5 0 JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
21 (G)	Ground	NATS antenna amp.	Input/ Output	Just after insertin	ng ignition key in key cylinder	Pointer of tester should move								
					ON	0 V								
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 → +1s JPMIA0590GB								
					OFF	12.0 V Battery voltage								
					U 11	Dattery voltage								

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	Terminal No. (Wire color) Description		0		Value	
+	- COIOI)	Signal name	Input/ Output		Condition	(Approx.)
25 (BR)	Ground	NATS antenna amp.	Input/ Output	Just after insertir	ng ignition key in key cylinder	Pointer of tester should move
				Ignition switch O	FF	
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) ₁₅ 10 5 0 ++10ms JPMIA0591GB
					A/C switch ON	0 V
				Ignition switch O)FF	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0
					Blower fan switch ON	7.0 - 7.5 V 0 V
29	0	Hamand assistate		Hannad avvitale	OFF	Battery voltage
(W)	Ground	Hazard switch	Input	Hazard switch	ON	0 V
30	0	Back door opener	1	Back door	Not pressed	Battery voltage
(G)	Ground	switch	Input	opener switch	Pressed	0 V
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15
					Rear wiper switch ON (Wiper intermittent dial 4) Any of the condition below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	15 10 5 0 → 10ms PKIB4956J 1.0 V

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< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	
()					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10
					Rear wiper switch INT (Wiper intermittent dial 4)	5 0
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	PKIB4958J 1.2 V
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10
					Rear washer switch ON (Wiper intermittent dial 4)	5
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	Terminal No. Description (Wire color)			0 155	Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 0
35	Ground	Combination switch	Output	Combination switch		PKIB4960J 7.2 V
(B)	Ground	OUTPUT 2	Output	(Wiper intermit- tent dial 4)	Lighting switch 2ND	(1)
					Lighting switch PASS	(V) 15 10
					Front wiper switch INT	5
					Front wiper switch HI	→ +10ms PKIB4958J
						1.2 V
				Combination	All switch OFF	(V) 15 10 5 0 → 10ms PKIB4960J
36 (V)	Ground	Combination switch OUTPUT 1	Output	switch (Wiper intermit-	Turn signal switch RH	7.2 V
(-)				tent dial 4)	Turn signal switch LH	(V) 15
					Front wiper switch LO	15
					(Front wiper switch MIST) Front washer switch ON	0 → 10ms
						PKIB4958J 1.2 V
37				Insert mechanica	al key into ignition key cylin-	Battery voltage
(LG)	Ground	Key switch	Input	Remove mechar cylinder	nical key from ignition key	0 V
38	Ground	Ignition switch ON	Input	Ignition switch OFF or ACC		0 V
(G)	Ground	ignition switch ON		Ignition switch ON or START		Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output		_	_

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< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) 15 10 5 0 JPMIA0593GB 9.5 - 10.0 V
					ON (When back door opened)	0 V
44				Ignition switch	Rear wiper stop position	0 V
(B)	Ground	Rear wiper auto stop	Input	ON SWILCH	Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0
					UNLOCK position	0 V
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V
					(When driver door opened)	0 V

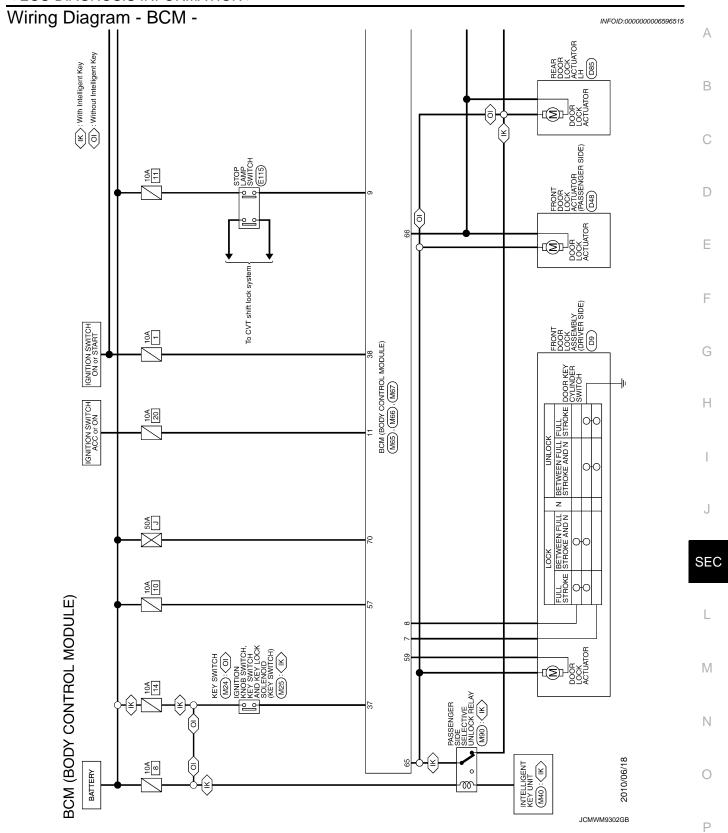
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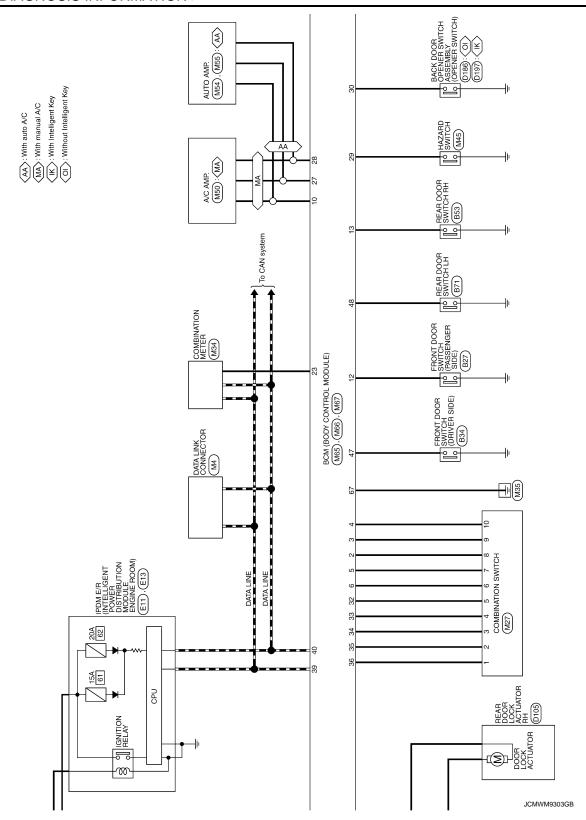
Value
(Approx.)
door LH (V) ₁₅ 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1
door LH 0 V
closed Battery voltage
opened om lamp 0 V
actuator is ac-
actuator is ac- Battery voltage
switch OFF 0 V
switch ON Battery voltage
lamp battery 0 V
interior room me Battery voltage
Battery voltage
ctuator is acti-
JNLOCK (Acactivated) 0 V
switch OFF 0 V
switch LH (V) 15 10 5 0 PKIC6370E
ls

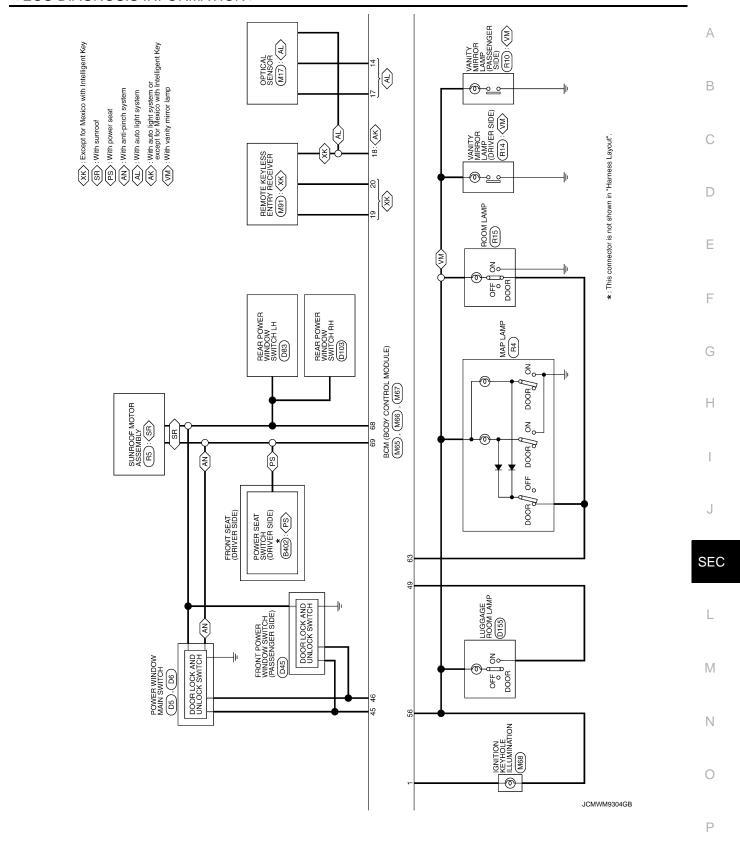
< ECU DIAGNOSIS INFORMATION >

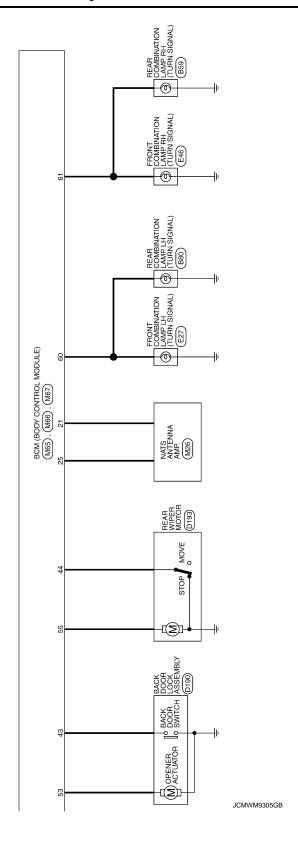
	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 18 18
63		Interior room lamp		Interior room	OFF	6.0 V Battery voltage
(R)	Ground	timer control	Output	lamp	ON	0 V
65	0	All de 1 001/	Outroit	All de ene	LOCK (Actuator is activated)	Battery voltage
(V)	Ground	All doors LOCK	Output	Turn signal switch OFF Ignition switch ON Interior room lamp Ut All doors Core ON LOCK (Actuator is activated) Other then LOCK (Actuator is not activated) UNLOCK (Actuator is activated) UNLOCK (Actuator is activated) Other then UNLOCK (Actuator is activated) Other then UNLOCK (Actuator is not activated) UNLOCK (Actuator is activated) UNLOCK (Actuator is activated) UNLOCK (Actuator is activated) UNLOCK (Actuator is not activated)	0 V	
66	Ground	Passenger door and	Output	Passenger door		Battery voltage
(G)	Ground	rear door UNLOCK	Output	Ignition switch ON Interior room lamp It All doors Passenger door and rear door It Ignition switch ON It Ignition switch ON It Ignition switch ON It Ignition switch OFF	,	0 V
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch O	N	Battery voltage
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch O	FF	Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage

^{*:} Except for Mexico with Intelligent Key









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JCMWM9306GB

BCM	108)	BCM (BODY CONTROL MODULE)					
Connector No.	or No.	M27	6	œ	BRAKE SW	Connector No.	M67
Connecto	Connector Name	COMBINATION SWITCH	10	SB	RR DEF SW	Connector Name	BCM (BODY CONTROL MODULE)
			Ξ	SB	ACC		П
Connector Type	or Type	TK16FW	12	۵	DR SW AS	Connector Type	FEA09FB-FHA6-SA
Q			13	FG	DR SW RR	ą	
厚			14	5	AUTO LIGHT SENS INPUT	唐	
HS	٢		17	≥ <	SENS POWER SUPPLY	HS.	
	<u>-1</u>	α - A - A - A - A - A - A - A - A - A -	19	>	KEYLESS TUNER POWER		070
	<u>-1</u>	14 11 1 2 3 4 5 6	20	GR	KEYLESS TUNER SIGNAL	_	07 69 89 79 99 69
	j		21	g	IMMOBI ANT (CLOCK)		
			23	В	SECURITY IND OUT PUT		
Terminal		Signal Name [Specification]	22	BR	IMMOBI ANT (RX, TX)	lar	Signal Name [Specification]
N	of Wire		27	>-	AIRCON SW	No. of Wire	
-	>	INPUT 1	28	57	BLOWER FAN SW	4	BATTER
2	В	INPUT 2	29	>	HAZARD SW	57 G	
က	_	INPUT 3	30	g	BACK DOOR OPEN SW	29 L	D/L UNLOCK DR
4	GR	INPUT 4	32	BR	OUTPUT 5	Н	
2	BR	INPUT 5	33	GR	OUTPUT 4	61 GR	FLASHER OUT PUT (RIGHT)
9	۵	OUTPUT 1	34	٦	OUTPUT 3	63 R	RO
7	œ	OUTPUT 2	35	В	OUTPUT 2	65 ۷	D/L LOCK ALL
8	ŋ	OUTPUT 5	36	>	OUTPUT 1		D/L UNLOCK OTHER
6	χ.	OUTPUT 4	37	FG	KEY SW	67 B	GND
10	Μ	OUTPUT 3	38	g	IGN	T 89	POWER WDW OUTPUT (RAP)
Ξ	LG	WASH FR (-) RR (+)	39	٦	CAN-H	69 P	POWER W
12	В	GND	40	Д	CAN-L	70 Y	BAT FL
13	0	WASH FR (+) RR (-)					
14	BR	IGN					
			Connector No.		M66		
c	N		Connector Name		BCM (BODY CONTROL MODULE)		
Connector No.	or No.	COM	d				
Connect	Connector Name	BCM (BODY CONTROL MODULE)	Connector Type		rEAU9rW-rHA0-SA		
Connector Type	or Type	TH40FW-NH	修				
4) II (<u>U</u>			
厚			6	구	42 43 44 45 46 47 48 49		
HS				20	51 52 53 54 55		
	1 2 3	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40					
			Terminal	Color			
			No.	of Wire	Signal Name [Specification]		
Terminal	Color	G	43	^	BACK DOOR SW		
No.	of Wire	Signal Name [Specification]	44	В	RR WIP AUTO STOP		
-	>	KEY RING OUTPUT	45	۵	CDLLOCK SW		
2	g	INPUT 5	46	BR	CDLUNLOCK SW		
က	>	INPUT 4	47	*	DR SW DR		
4	≥	INPUT 3	48	GR	DR SW RL		
2	œ	INPUT 2	49	٦	LUGGAGE LAMP OUTPUT		
9	۵	INPUT 1	53	>	BACK DOOR OPENER OUTPUT		
7	_	KEY CYC UNLOCK	22	SB	RR WIP MTR OUT		
80	œ	KEY CYL LOCK SW					

Fail-safe

REAR WIPER MOTOR PROTECTION

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

Condition of cancellation

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

- 1. Pass more than 1 minute after the rear wiper stop.
- Turn the rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:0000000006596517

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1711: [PRESS DATA ERR] FL C1716: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RL C1729: VHCL SPEED SIG ERR

DTC Index

NOTE:

Details of time display

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

CONSULT display	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	<u>SEC-157</u>
C1704: LOW PRESSURE FL	×	
C1705: LOW PRESSURE FR	×	WT 42
C1706: LOW PRESSURE RR	×	<u>WT-13</u>
C1707: LOW PRESSURE RL	×	
C1708: [NO DATA] FL	×	
C1709: [NO DATA] FR	×	WT 45
C1710: [NO DATA] RR	×	<u>WT-15</u>
C1711: [NO DATA] RL	×	
C1716: [PRESS DATA ERR] FL	×	
C1717: [PRESS DATA ERR] FR	×	WT 40
C1718: [PRESS DATA ERR] RR	×	<u>WT-18</u>
C1719: [PRESS DATA ERR] RL	×	
C1729: VHCL SPEED SIG ERR	×	<u>WT-20</u>
C1735: IGN CIRCUIT OPEN	_	BCS-35

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

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INTELLIGENT KEY UNIT

Reference Value INFOID:0000000006596525

VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status		
DUCH CW	Ignition Israh	Release	OFF		
PUSH SW	Ignition knob	Press	ON		
KEN OM	Machaniaal kay	Removed	OFF		
KEY SW	Mechanical key	Inserted	ON		
DD DEO CW	Door request switch	Release	OFF		
DR REQ SW	(driver)	Press	ON		
AS REQ SW	Door request switch	Release	OFF		
AS ILLY SW	(passenger)	Press	ON		
BD/TR REQ SW	Door request switch	Release	OFF		
DD/TK KEQ 3W	(back door)	Press	ON		
ICN CW	Ignition awitch	Other than ON position	OFF		
IGN SW	Ignition switch	ON position	ON		
ACC SW	lanition cuitch	Other than ACC or ON position	OFF		
ACC SVV	Brake pedal Shift position	ACC or ON position	ON		
STOP LAMP SW	Proko nodal	Press	OFF		
STOP LAIMP SW	втаке редаг	Release	ON		
P RANGE SW	Chiff position	P position	ON		
P RANGE SW	Smit position	Other than P position	OFF		
BD OPEN SW		The item is indicated, but not monitored.			
TR CANCEL SW		The item is indicated, but not mo			
	Lock button of	Release	OFF		
DOOR LOCK SIG	Intelligent Key	Press	ON		
DOOR UNLOCK SIG	Unlock button of	Release	OFF		
DOOR UNLOCK SIG	Intelligent Key	Press	ON		
KEYLESS TRUNK		The item is indicated, but not r	monitored.		
KEVI FOO DANIO	PANIC button of key	Release	OFF		
KEYLESS PANIC	fob	Press	ON		
KEYLESS PSD LH		The item is indicated, but not r	monitored.		
KEYLESS PSD RH		The item is indicated, but not r	monitored.		
KEYLESS PBD SIG		The item is indicated, but not r	monitored.		
DOOD SW DD	Door (driver side)	Close	OFF		
DOOR SW DR	Door (driver side)	Open	ON		
DOOD SW AS	Door (necess respective)	Close	OFF		
DOOR SW AS	Door (passenger side)	Open	ON		
DOOD OW DD	Deer (re DII)	Close	OFF		
DOOR SW RR	Door (rear RH)	Open	ON		
DOOD CW DI	Deer (re111)	Close	OFF		
DOOR SW RL	Door (rear LH)	Open	ON		

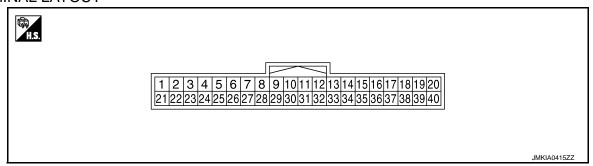
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< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item		Condition	Value/Status
DOOR BK SW	Back door	Close	OFF
DOOR BK SW	Back door	Open	ON
TRUNK SW		The item is indicated, but not	monitored.
VEHICLE SPEED	While driving		Equivalent to speedometer reading

TERMINAL LAYOUT



PHYSICAL VALUES

	ninal No.	Description				Value [V]
+ (wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
1 (GR)	Ground	Steering lock unit power supply	Output		_	5
2 (L)	Ground	CAN - H	Input/ Output		_	_
3 (P)	Ground	CAN - L	Input/ Output		_	_
4		Intelligent Key warn-	_	Intelligent Key	Sounding	0
(O)	Ground	ing buzzer	Output	warning buzz- er	Not sounding	Battery voltage
5		Front door request	Input qu	Front door re- quest switch (driver side)	ON (Pressed)	0
(Y)	Ground	switch (driver side)			OFF (Released)	5
6	Ground	Ignition switch power	Input	Ignition switch	OFF	0
(W)	Ciodila	supply	Прис	ignition switch	ON	Battery voltage
7	Ground	Key switch	Innut	When ignition I	key is inserted into ignier	Battery voltage
(LG)	Giodila	Ney Switch	Input	When ignition I ignition key cyl	key is not inserted into inder	0
10	Ground	Dark position awitch	Innut	Shift lever in pa	ark position	0
(SB)	Giouria	Park position switch	Input	Other than above		Battery voltage
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
12 (B)	Ground	Ground	_		_	0

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	ninal No.	Description				Value IVII											
(wir	re color)	Signal name	Input/ Output	,	Condition	Value [V] (Approx.)	Α										
13	Crowd	Inside key antenna	Outout	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0393ZZ	B C										
(Y)	Ground	(+) (rear seat)	Output	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 MINIMAD 3912Z	E F										
14	Ground	Inside key antenna	Output	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0392ZZ	G H										
(BR)	Glound	(-) (rear seat)								Сагра	Сири	Output	is pressed.	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0390ZZ	SEC
15	Ground	Inside key antenna	Output	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 10 1	M										
(R)	Giound	(+) (console)	Output	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 MH M M M M M M M M M M M M M M M M M M	O P										

	ninal No.	Description				Value [V]				
+ (WIF	e color)	Signal name	Input/ Output		Condition	(Approx.)				
16	Ground	Inside key antenna	Output	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 1 s JMKIA0392ZZ				
(G)	Sidana	(-) (console)	оч.	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0390ZZ				
17	Ground	Outside key antenna (+) (rear bumper)	Output	When the back door request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 1 1 S JMKIA0397ZZ				
(W)		(+) (real bumper)				is operated with ignition switch OFF	with ignition	with ignition	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0514ZZ
18	Ground	Outside key antenna	Output	When the back door request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0395ZZ				
(R)	Siound	(-) (rear bumper)	Culput	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0515ZZ				

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	ninal No.	Description				\/_l [\/]
(wire	e color)	Signal name	Input/ Output	(Condition	Value [V] (Approx.)
19	Canada	Outside key antenna	Outout	When the front door request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0397ZZ
(BR)	Ground	(+) (driver side)	Output	(driver side) is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0514ZZ
20	Ground	Outside key antenna	Output	When the front door request switch (driver side) is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0395ZZ
(O)		(-) (driver side)		operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMM JMKIA0515ZZ
		Front door request		Front door re-	ON (Pressed)	0
25 (BR)	Ground	switch (passenger side)	Input	quest switch (passenger side)	OFF (Released)	5
26 (B)	Ground	Stop lamp switch	Input	Depress the br		Battery voltage 0
27	Ground	Ignition knob switch	Input	Ignition switch	When ignition knob switch is pressed	Battery voltage
(G)	Ground	ISHIROH KHOD SWIGH	input	OFF	When ignition knob switch is released	0
28	Ground	Unlock sensor	Input	Lock (ON)		5
(W)	Ciodila	Ciliodi Scrisor	input	Unlock (OFF)		0
29 (SP)	Ground	Back door request switch	Input	Back door request switch	ON (Pressed) OFF (Released)	0 5
31 (L)	Ground	Steering lock unit ground	_	_	_	0

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[WITH INTELLIGENT KEY SYSTEM]

	ninal No.	Description				Value IVI
	e color) –	Signal name	Input/ Output	(Condition	Value [V] (Approx.)
					LOCK status	5
32 (P)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 6 4 2 0 100 ms JMKIA0433ZZ
37	Ground	Outside key antenna	Output	When the front door request switch (passenger	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 III III III III III III III III II
(V)		(+) (passenger side)		side) is oper- ated with igni- tion switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 MMI JMKIA0514ZZ
38	Ground	Outside key antenna	Output	When the front door request switch (passenger	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S JMKIA0395ZZ
(P)		(-) (passenger side)		side) is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0515ZZ
40	Ground	Passenger side se-	Input	Press front door request	Anti-hijack operation	Battery voltage → 0 → Battery voltage
(V)	2.34114	lective unlock relay	931	switch (pas- senger side)	Other than above	Battery voltage

< ECU DIAGNOSIS INFORMATION >

Fail Safe

[WITH INTELLIGENT KEY SYSTEM]

Display contents of CONSULT-III

B2013: STRG COMM 1

• Inhibits steering look unlocking
• Inhibits steering look unlocking
• Inhibits engine cranking
(BCM)
• Fuel cut
(ECM)
• Inhibits steering look unlocking

Erase DTC

DTC Inspection Priority Chart

B2590: NATS MALFUNCTION

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INFOID:0000000006596527

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

· Inhibits engine cranking

(BCM)
• Fuel cut
(ECM)

Priority	DTC
1	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B2552: INTELIGENT KEY
2	B2013: STRG COMM 1 B2590: NATS MALFUNCTION

DTC Index

NOTE:

Details of time display

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

CONSULT display	Detection condition	Fail-safe	Diagnosis
No DTC is detected. further testing may be required.	_	_	_
U1000: CAN COMM CIRCUIT	Intelligent Key unit cannot receive CAN communication signal continuously for 2 seconds or more	_	Check CAN communication system. Refer to LAN-28
U1010: CONTROL UNIT (CAN)	Intelligent Key unit detects internal CAN communication circuit malfunction	_	Replace Intelligent Key unit.
B2013: STRG COMM 1	The ID verification result between Intelligent key unit and steering lock unit are NG. Or Intelligent Key unit cannot communicate with steering lock unit	×	Perform steering lock unit ID registration with CONSULT-III
B2552: INTELLIGENT KEY	Intelligent Key unit internal malfunction	×	Replace Intelligent Key unit.
B2590: ID DISCORD BCM-I-KEY	The ID verification result between Intelligent key unit and BCM are NG. Or Intelligent Key unit cannot communicate with BCM	×	Check NATS Refer to SEC-44

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< ECU DIAGNOSIS INFORMATION >

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

Reference Value INFOID:0000000006596519

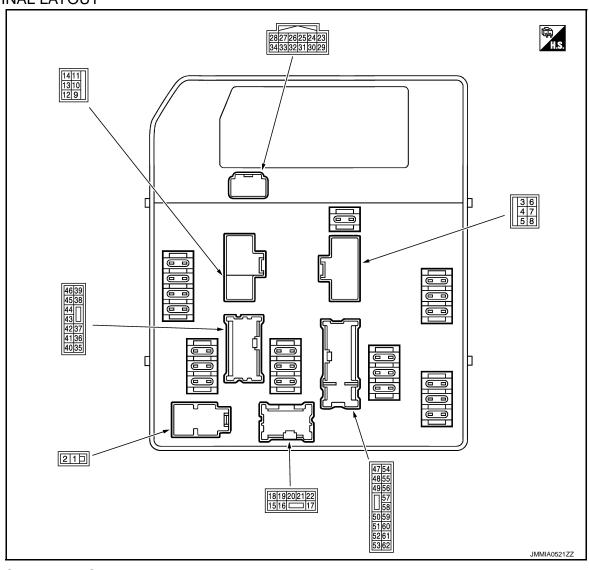
VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL&CLR REQ	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST or 2NI	0	On
ULLO BEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND		On
	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI (Light is	illuminated)	On
FR FOG REQ		Front fog lamp switch OFF	Off
NOTE: This item is monitored only on the vehicle with front fog lamp.	Lighting switch 2ND	Front fog lamp switch ON	On
		Front wiper switch OFF	Stop
FR WIP REQ	Ignition switch ON	Front wiper switch INT	1LOW
		Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
WIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK
ST RLY REQ NOTE:	When Intelligent Key is our is pushed	tside the vehicle, and the push switch	Off
Vehicle without Intelligent Key system indicates only "ON", and it does not change.	When Intelligent Key is ins pushed	ide the vehicle, and the push switch is	On
IGN RLY	Ignition switch OFF or ACC		Off
ION ILI	Ignition switch ON		On
		Rear window defogger switch OFF	Off
RR DEF REQ	Ignition switch ON	Rear window defogger switch ON (Rear window defogger is operating)	On
OIL D CW	Ignition switch OFF, ACC of	or engine running	Open
OIL P SW	Ignition switch ON		Close
DTRL REQ	Daytime running light syste	em is not operated.	Off
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light syste	em is operated.	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
HOOD SW	Close the hood	Off
NOTE: This item is monitored only the vehicle for Mexico.	Open the hood	On
	Not operation	Off
THFT HRN REQ	Horn is activated with vehicle security system or panic alarm system.	On
HORN CHIRP	Not operation	Off
HONN CHINE	Horn is activated with key fob LOCK operation.	On

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No.	Description			Value
	color)	Signal name Input/		Condition	(Approx.)
+	-	<u> </u>	Output		
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (G)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output	(Condition	
3	Cround	Charter relay newer symphy	Outrout	When engine is clanking		Battery voltage
(O)	Ground	Starter relay power supply	Output	When engine is not	When engine is not clanking	
4		Cooling fan relay-1 power	0	Cooling fan opera-	OFF	0 V
(W)	Ground	supply	Output	tion	MID or HI	Battery voltage
5				Ignition switch OFF,	ACC or ON	0 V
(R)	Ground	Ignition switch START	Input	Ignition switch STAF	RT	Battery voltage
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7	Cround	Cooling fan motor-2 (HI)		Cooling fan opera-	OFF	Battery voltage
(P)	Ground	ground	_	tion	HI	0 V
8	0	Cooling fan relay-2 power	0	Cooling fan opera-	OFF	0 V
(G)	Ground	supply	Output	tion	Н	Battery voltage
11 (B)	Ground	Ground	_	Ignition switch ON		0 V
12	Crownd	Rear window defogger re-	Outenit	Lamitian quitab ON	Rear window defogger switch OFF	0 V
(O)	Ground	lay power supply	Output	Ignition switch ON	Ignition switch ON Rear window defogger switch ON	
15 ^{*1}	Cround	Daytime running light relay	Outrout	Daytime running Not operated		Battery voltage
(SB)	Ground	control	Output	light system		
16 ^{*2}	Ground	Front fog lamp (LH)	Output	Lighting switch Front fog lamp switch OFF		0 V
(Y)	Giodila	From log lamp (LH)	Output	2ND	Front fog lamp switch ON	Battery voltage
17 ^{*2}	Ground	Front for James (DH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(W)	Giodila	Front fog lamp (RH)	Output	2ND	Front fog lamp switch ON	Battery voltage
18	Cround	Handlema I O (I H)	Output	Lighting switch OFF		0 V
(L)	Ground	Headlamp LO (LH)	Output	Lighting switch 2ND		Battery voltage
20	Cround	Headlems I O (DII)	Outrout	Lighting switch OFF		0 V
(SB)	Ground	Headlamp LO (RH)	Output	Lighting switch 2ND		Battery voltage
				Lighting switch OFF		0 V
21 (G)	Ground	Headlamp HI (LH)	Output	Lighting switch 2NLighting switch PA		Battery voltage
				Daytime running ligh	nt system Operated*1	7.0 V
				Lighting switch OFF		0 V
22 (LG)	Ground	Headlamp HI (RH)	Output		Lighting switch 2ND and HILighting switch PASS	
				Daytime running ligh	Daytime running light system Operated*1	
23	Ground	Oil prossure quitab	Innut	Ignition switch ON	Engine stopped	0 V
(W)	Giouria	Oil pressure switch	Input	Ignition switch ON	Engine running	Battery voltage
0.4					Front wiper stop position	0 V
24 (Y)	Ground	Front wiper auto stop	Input	Ignition switch ON	Any position other than front wiper stop position	Battery voltage
25 (B)	Ground	Ground	_	Ignition switch ON		0 V
26 (P)	_	CAN-L	Input/ Output		_	_

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		_	2	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
27 (L)	_	CAN-H	Input/ Output		_	_
31	Cround	Cooling for roley 4 central	Output	Cooling fan opera-	OFF	Battery voltage
(LG)	Ground	Cooling fan relay-4 control	Output	tion	LO	0 - 1.0 V
32		Throttle control motor re-			ximately 2 seconds or more tion switch from ON to OFF	Battery voltage
(V)	Ground	lay control	Input	Ignition switch ON For approximately tion switch from C	2 seconds after turning igni-	0 - 1.0 V
				Ignition switch OFF		0 V
33 (GR)	Ground	Fuel pump relay control	Input		Engine stopped	Battery voltage
(011)				Ignition switch ON	Engine running	0.8 V
34 ^{*3}				Close the hood		Battery voltage
(W)	Ground	Hood switch	Input	Open the hood		0 V
37		Tail, license plate lamps		Lighting switch OFF		0 V
(R)	Ground	and illuminations	Output	Lighting switch 1ST		Battery voltage
38				Lighting switch OFF		0 V
(R)	Ground	Parking lamp (LH)	Output	Lighting switch 1ST		Battery voltage
39				Lighting switch OFF		
(GR)	Ground	Parking lamp (RH)	Output	Lighting switch 1ST	0 0	
40				Ignition switch OFF or ACC		Battery voltage 0 V
(BR)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
41					Ignition switch OFF or ACC	
(O)	Ground	Ignition relay power supply	Output	Ignition switch ON		
40				ignition evitori ert	Front wiper switch OFF	Battery voltage 0 V
42 (L)	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch HI	Battery voltage
					Front wiper switch OFF	0 V
43 (G)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch LO	Battery voltage
					Selector lever "P" or "N"	Battery voltage
45 (Y)	Ground	Starter relay power supply	Input	Ignition switch ON	Selector lever in any position other than "P" or "N"	0 V
46	Ground	Fuel pump relay power	Outrot	After passing appr	Ignition switch OFF or ACC After passing approximately 1 second or more after turning the ignition switch ON	
(W)	Ground	supply	Output	For approximately ignition switch ONEngine running	/ 1 second after turning the	Battery voltage
47			_	After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
(BR)	Ground	ECM relay power supply	Output	 For approximately 	 Ignition switch ON For approximately 4 seconds after turning ignition switch from ON to OFF 	
48			_		ximately 4 seconds or more tion switch from ON to OFF	0 V
(R)	Ground	ECM relay power supply	Output	 Ignition switch ON For approximately tion switch from C 	4 seconds after turning igni-	Battery voltage

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<	ECU	DIAGNOSIS	INFORMATION >
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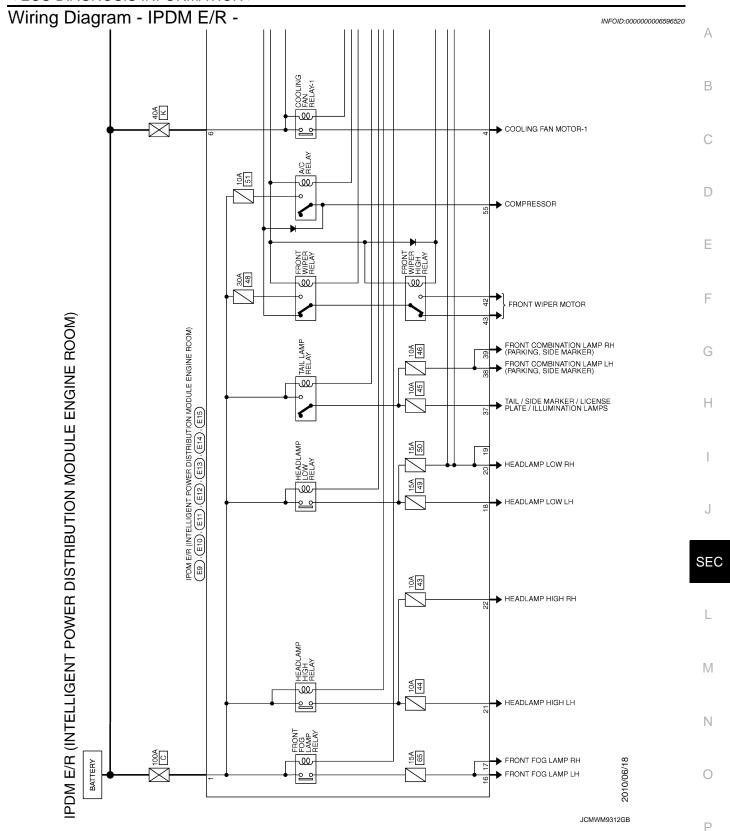
	nal No.	Description				Value							
+ (vvire	color)	Signal name	Input/ Output		Condition								
50	Craund	Cooling for roles E control	Output	Cooling fan opera-	Cooling fan opera- OFF								
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V							
51					kimately 4 seconds or more tion switch from ON to OFF	Battery voltage							
(L)	Ground	ECM relay control	Output	Ignition switch ON For approximately tion switch from C	4 seconds after turning igni-	0 - 1.0 V							
52		Throttle control motor re-			kimately 2 seconds or more tion switch from ON to OFF	0 V							
(P)	Ground	lay power supply	Output	 For approximately 	 Ignition switch ON For approximately 2 seconds after turning ignition switch from ON to OFF 								
				Engine stopped	Engine stopped								
55		A/C relay power supply	Output		A/C switch OFF	0 V							
(O)	Ground			Output	Output	Output	Odiput	Output	Output	Output	Output	Output	Engine running
56	Ground	Ignition switch ON	Input	Ignition switch OFF	or ACC	0 V							
(SB)	Giodila	ignition switch Oiv	input	Ignition switch ON		Battery voltage							
57	Ground	Horn relay control	Output	The horn is not activ	rated	Battery voltage							
(V)	Ground	Tiom relay control	Output	The horn is activated	d	0 V							
58	Ground	Ignition relay power supply	Output	Ignition switch OFF	or ACC	0 V							
(LG)	0.000	·g·····o··ay portor cappiy		Ignition switch ON	Ignition switch ON								
59	Ground	Ignition relay power supply	Output	Ignition switch OFF	or ACC	0 V							
(BR)		3		Ignition switch ON	Ignition switch ON								
60	Ground	Ignition relay power supply	Output	Ignition switch OFF	or ACC	0 V							
(SB)		3 - 2 (Supply		Ignition switch ON		Battery voltage							
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF	Ignition switch OFF								

^{*1:} With daytime running light system

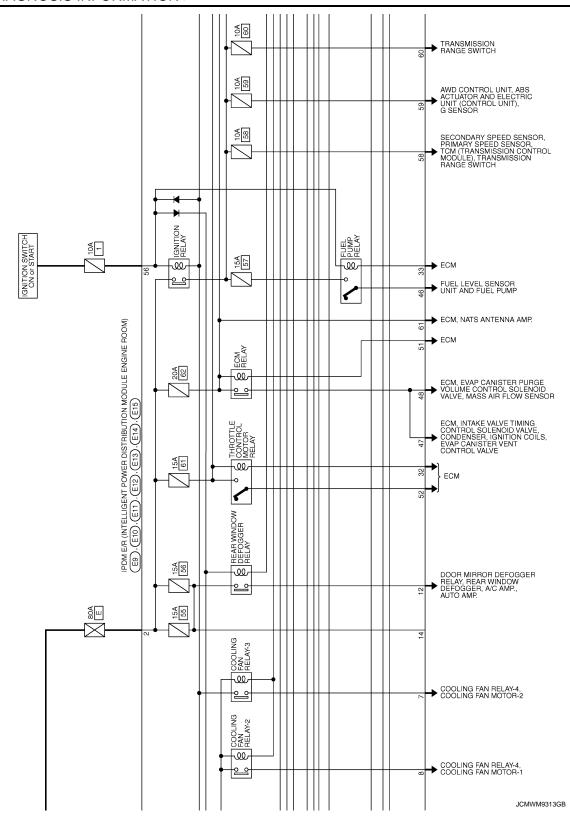
^{*2:} With front fog lamp system

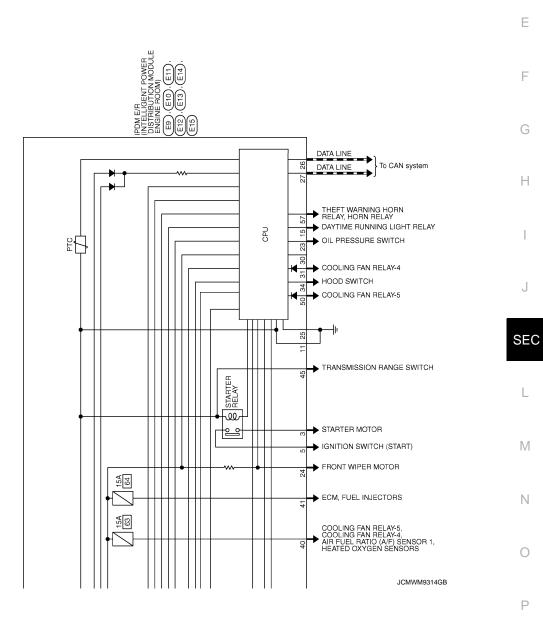
^{*3:} For Mexico

< ECU DIAGNOSIS INFORMATION >



< ECU DIAGNOSIS INFORMATION >





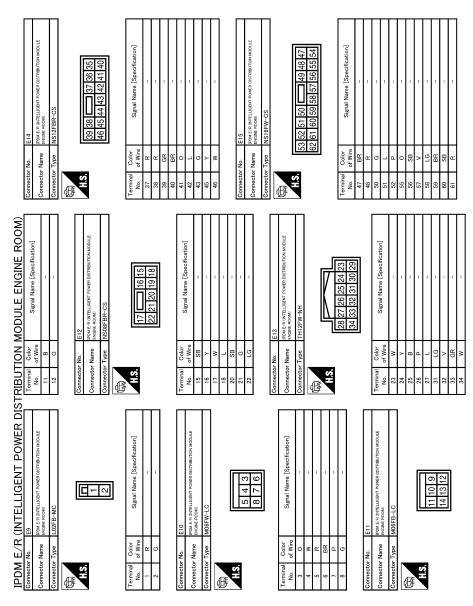
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JCMWM9315GB

INFOID:0000000006596521

Fail-safe

CAN COMMUNICATION CONTROL

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

If no CAN communication is available with ECM

< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe in operation
Cooling fan	 The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn ON when the ignition switch is turned ON The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn OFF when the ignition switch is turned OFF Cooling fan relay-4 OFF
A/C compressor	A/C relay OFF

If no CAN communication is available with BCM

Control part	Fail-safe in operation
Headlamp	 The headlamp low relay turns ON when the ignition switch is turned ON The headlamp low relay turns OFF when the ignition switch is turned OFF Headlamp high relay OFF
Parking lampsLicense plate lampsTail lampsIlluminations	 The tail lamp relay and the daytime running light relay* turn ON when the ignition switch is turned ON The tail lamp relay and the daytime running light relay* turn OFF when the ignition switch is turned OFF
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The front wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating.
Front fog lamps	Front fog lamp relay OFF
Starter motor	Starter relay OFF
Rear window defogger	Rear window defogger relay OFF
Horn	Horn relay OFF

NOTE:

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors status of ignition relay by the voltage at ignition relay contact circuit inside it.
- IPDM E/R judges that the ignition relay is error, if status of the ignition relay and ignition switch ON signal
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay and daytime running light relay* for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Dete	ection	IPDM E/R judgment	Operation	
Ignition switch ON signal	gnition switch ON signal Ignition relay		Operation	
ON	ON	Ignition relay normal	_	
OFF	OFF	Ignition relay normal	_	
OFF	ON	Ignition relay ON stuck	Turn on the tail lamp relay and daytime running light relay* for 10 minutes	
ON	OFF	Ignition relay OFF stuck	Detect DTC "B2099: IGN RELAY OFF"	

NOTE:

FRONT WIPER CONTROL

IPDM E/R detects the front wiper stop position with the front wiper stop position signal.

When the front wiper stop position signal is in the conditions listed below, IPDM E/R repeats a front wiper 10 seconds operation and 20 seconds stop five times.

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^{*:} With daytime running light system

^{*:} With daytime running light system

< ECU DIAGNOSIS INFORMATION >

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

NOTE:

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

DTC Index INFOID:0000000006596522

CONSULT display	Fail-safe	Timing NOTE		Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	PAST	SEC-157
B2099: IGN RELAY OFF	_	CRNT	PAST	PCS-14

NOTE:

The details of time display are as follows.

- CRNT: The malfunctions that are detected now.
- PAST: The number is indicated when it is normal at present and a malfunction was detected in the past.

SECURITY CONTROL SYSTEM

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SYMPTOM DIAGNOSIS

SECURITY CONTROL SYSTEM

Symptom Table INFOID:0000000006202427

Use the chart below to help you find the cause of the symptom. The numbers indicate the order of the inspec-

No.	Function	Operation condition	Symptom	Diagnosis Item	Reference page
		Y SYSTEM/ Ignition switch turn ON		KEY warning lamp (GREEN) illuminates	SEC-128
1	INTELLIGENT KEY SYSTEM/ ENGINE START		Ignition switch does not turn ON	KEY warning lamp does not illuminate	SEC-128
	FUNCTION			KEY warning lamp (RED) il- luminates	SEC-129
		Engine start	Engine can not start	_	SEC-130
		Lock all doors with Intelligent Key or door request switch	Vehicle security system can not be set	_	SEC-132
		Lock all doors with Intelligent Key or request switch.	Security indicator does not turn ON or flash	_	SEC-131
2	VEHICLE SECURITY SYSTEM	In the armed phase, open the door	Vehicle security system does not active	_	SEC-133
	0.0.2	When alarm sound, press Intel-	Vehicle security system can	_	SEC-134
		When alarm sound, press door request switch	not be canceled	_	SEC-135

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IGNITION KNOB SWITCH DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IGNITION KNOB SWITCH DOES NOT TURN ON KEY WARNING LAMP (GREEN) ILLUMINATES

KEY WARNING LAMP (GREEN) ILLUMINATES: Description

INFOID:0000000006202428

NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow".

KEY WARNING LAMP (GREEN) ILLUMINATES: Diagnosis Procedure

INFOID:0000000006202429

1. CHECK STEERING LOCK UNIT

Check steering lock unit.

Refer to SEC-115, "DTC Index".

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.

KEY WARNING LAMP DOES NOT ILLUMINATE

KEY WARNING LAMP DOES NOT ILLUMINATE: Description

INFOID:0000000006202430

NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow".

KEY WARNING LAMP DOES NOT ILLUMINATE: Diagnosis Procedure

INFOID:0000000006202431

1. CHECK INTELLIGENT KEY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check Intelligent Key unit power supply and ground circuit.

Refer to SEC-45, "INTELLIGENT KEY UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

Refer to SEC-53, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.check key switch

Check key switch.

Refer to SEC-51, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

$4.\mathsf{confirm}$ the operation

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

TION KNOB SWITCH DOES NOT TURN ON

IGNIT
< SYMPTOM DIAGNOSIS >
KEY WARNING LAMP
KEY WARNING LAMP
NOTE: • Before performing the diagno

< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
KEY WARNING LAMP (RED) ILLUMINATES	
KEY WARNING LAMP (RED) ILLUMINATES : Des	cription INFOID:000000006202432
NOTE: • Before performing the diagnosis, check "Work Flow". Refer to S	EC-6, "Work Flow".
KEY WARNING LAMP (RED) ILLUMINATES : Diag	_
1. CHECK INSIDE KEY ANTENNA	
Check inside key antenna. Refer to SEC-57, "INSTRUMENT CENTER: Component Function Is the inspection result normal?	on Check".
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	E
Confirm the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermitted NO >> GO TO 1.	ent Incident".
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ENGINE CAN NOT START WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

ENGINE CAN NOT START WITH INTELLIGENT KEY

Description INFOID:0000000006202434

NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to <u>DLK-11, "Work Flow"</u>.

Diagnosis Procedure

INFOID:0000000006202435

1. CHECK KEY SWITCH

Check key switch.

Refer to SEC-51, "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.

SECURITY INDICATOR LAMP DOES NOT TURN ON OR FLASH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SECURITY INDICATOR LAMP DOES NOT TURN ON OR FLASH

Description INFOID:0000000006202436

NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow".

Diagnosis Procedure

INFOID:0000000006202437

1. CHECK VEHICLE SECURITY INDICATOR LAMP

Check vehicle security indicator lamp.

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

Is the inspection result normal?

YFS >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

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VEHICLE SECURITY SYSTEM CAN NOT BE SET

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY SYSTEM CAN NOT BE SET

Description INFOID:0000000006202438

NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow".

Diagnosis Procedure

INFOID:0000000006202439

1. CHECK DOOR LOCK FUNCTION

Check door lock function.

Refer to DLK-23, "DOOR LOCK FUNCTION: System Description".

s the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>SEC-6</u>, "Work Flow".

2. CHECK HOOD SWITCH

Check hood switch.

Refer to SEC-55, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

VEHICLE SECURITY ALARM DOES NOT ACTIVATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY ALARM DOES NOT ACTIVATE

Description INFOID:000000006202440

NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow".

Diagnosis Procedure

1. CHECK DOOR SWITCH

Check door switch.

Refer to SEC-47, "Component Function Check".

Is the inspection results normal?

YES >> GO TO 2.

NO >> Repair or replace malfunction part.

2.check horn

Check horn.

Refer to <u>SEC-62</u>, "EXCEPT FOR MEXICO: Component Function Check". (Except for Mexico)

Refer to <u>SEC-62</u>, "FOR MEXICO: Component Function Check". (For Mexico)

Is the inspection results normal?

YES >> GO TO 3.

NO >> Repair or replace malfunction part.

3.CHECK HEADLAMP OPERATION

Check headlamp operation by lighting switch.

Does headlamp come on when turning switch ON?

YES >> GO TO 4.

NO >> Check headlamp system. Refer to <u>EXL-6, "Work Flow"</u>. (XENON type), Refer to <u>EXL-146, "Work Flow"</u>. (HALOGEN type)

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.

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VEHICLE SECURITY SYSTEM CAN NOT BE CANCELED WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY SYSTEM CAN NOT BE CANCELED WITH INTELLI-GENT KEY

Description INFOID:000000000202442

NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow".

Diagnosis Procedure

INFOID:0000000006202443

1. CHECK INTELLIGENT KEY SYSTEM

Check Intelligent Key system.

Refer to DLK-20, "INTELLIGENT KEY SYSTEM: System Description".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>DLK-11</u>, "Work Flow".

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 CAN NOT BE CANCELED WITH DOOR RE-**QUEST SWITCH**

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY SYSTEM CAN NOT BE CANCELED WITH DOOR RE-**QUEST SWITCH**

Description INFOID:0000000006202444

NOTE:

Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow".

Diagnosis Procedure

INFOID:0000000006202445

1. CHECK INTELLIGENT KEY SYSTEM

Check Intelligent Key system.

Refer to DLK-20, "INTELLIGENT KEY SYSTEM: System Description".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>DLK-11</u>, "Work Flow".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

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PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

WARNING:

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

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

WARNING:

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

FOR USA AND CANADA: Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition switch in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.

PRECAUTIONS

< PRECAUTION >

[WITH INTELLIGENT KEY SYSTEM]

- Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- Perform the necessary repair operation.
- When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- Perform a self-diagnosis check of all control units using CONSULT-III.

FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000006202448

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "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

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

FOR MEXICO: Precaution Necessary for Steering Wheel Rotation After Battery Disconnect INFOID:0000000006202449

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM - NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition switch in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

- Supply power using jumper cables if battery is discharged.
- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.

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PRECAUTIONS

< PRECAUTION >

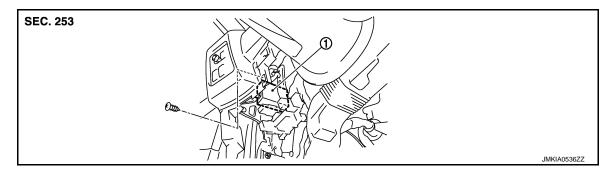
[WITH INTELLIGENT KEY SYSTEM]

- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- 6. Perform a self-diagnosis check of all control units using CONSULT-III.

REMOVAL AND INSTALLATION

INTELLIGENT KEY UNIT

Exploded View



1. Intelligent Key unit M40

Removal and Installation

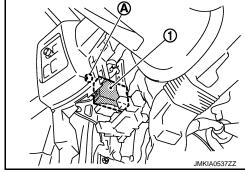
1. Remove lower instrument panel (driver side) and mirror switch finisher. Refer to IP-13, "Exploded View" and IP-14, "Removal and Installation".

2. Remove the Intelligent Key unit mounting screw (A), and then remove Intelligent Key unit (1).

NOTE:

REMOVAL

Perform the system initialization when replacing Intelligent Key unit. Refer to <u>DLK-14</u>, "<u>ADDITIONAL SERVICE WHEN</u> REPLACING CONTROL UNIT: Special Repair Requirement".



INSTALLATION

Install in the reverse order of removal.

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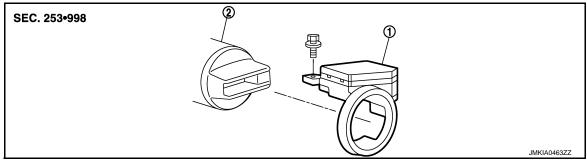
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NATS ANTENNA AMP.

Exploded View

INFOID:0000000006202452



1. NATS antenna amp.

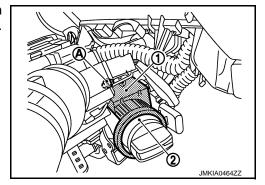
2. Steering lock assembly

Removal and Installation

INFOID:0000000006202453

REMOVAL

- Remove the steering column cover. Refer to <u>IP-14</u>, "<u>Removal and Installation</u>".
- 2. Remove the NATS antenna amp. mounting screw (A), and then remove NATS antenna amp. (1) from steering lock assembly (2).



INSTALLATION

Install in the reverse order of removal.

[WITH INTELLIGENT KEY SYSTEM]

HOOD SWITCH

Exploded View

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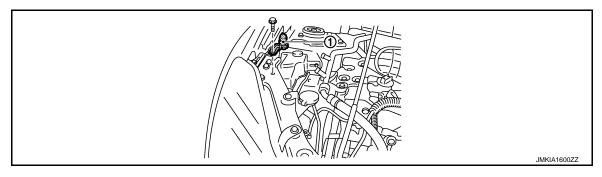
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HOOD SWITCH



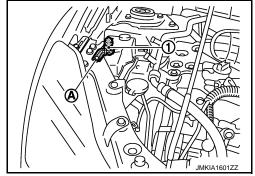
Hood switch

Removal and Installation

INFOID:0000000006202455

REMOVAL

1. Remove the hood switch mounting bolt (A), and then remove hood switch (1).



INSTALLATION

Install in the reverse order of removal.

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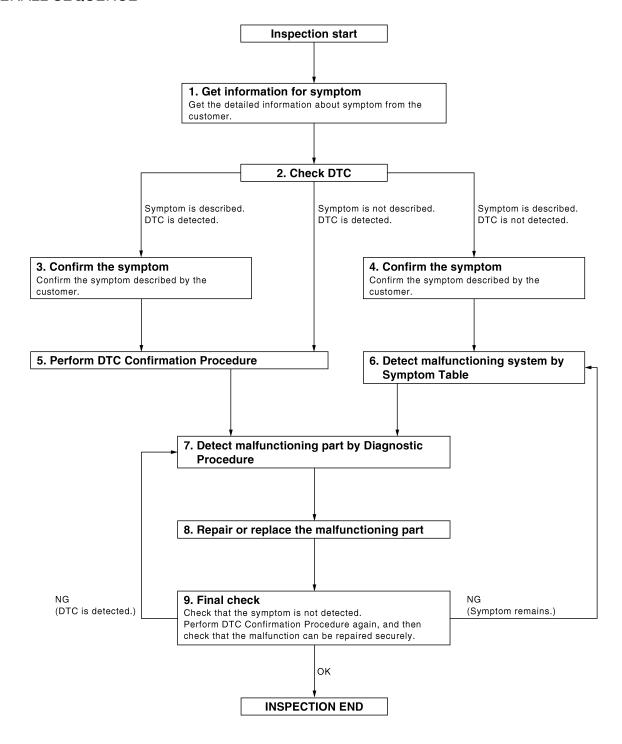
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

- Check DTC for BCM.
- Perform the following procedure if DTC is displayed.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- Check related service bulletins for information.

Is any symptom described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. If two or more DTCs are detected, refer to SEC-209, "DTC Inspection Priority Chart" (BCM) and determine trouble diagnosis order.

Is DTC detected?

YES >> GO TO 7.

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

O.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to Symptom Table based on the confirmed symptom in step 4.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

>> GO TO 8.

f 8.REPAIR OR REPLACE THE MALFUNCTIONING PART

- Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replace-2. ment.
- Check DTC. If DTC is displayed, erase it.

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

>> GO TO 9.

9. FINAL CHECK

When DTC was detected in step 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.

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

Are all malfunctions corrected?

NO (DTC is detected)>>GO TO 7. NO (Symptom remains)>>GO TO 6.

YES >> INSPECTION END

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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INSPECTION AND ADJUSTMENT Α ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description INEOID:0000000006202457 Perform the system initialization when replacing BCM or ECM with a used parts or registering an additional ignition key. ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:0000000006202458 D Refer to the CONSULT-III Operation Manual-NATS. ECM RE-COMMUNICATING FUNCTION Е ECM RE-COMMUNICATING FUNCTION: Description INFOID:0000000006202459 Performing following procedure can automatically perform re-communication of ECM and BCM, but only when F the ECM has been replaced with a new one (*1). *1: New one means a virgin ECM which has never been energized on-board. (In this step, initialization procedure by CONSULT-III is not necessary) NOTE: When registering new Key IDs or replacing the ECM that is not brand new, refer to CONSULT-III Operation Manual NATS-IVIS/NVIS. If multiple keys are attached to the key holder, separate them before work. Н Distinguish keys with unregistered key ID from those with registered ID. ECM RE-COMMUNICATING FUNCTION: Special Repair Requirement INFOID:0000000006202460 1. PERFORM ECM RE-COMMUNICATING FUNCTION 1 Install ECM. Using a registered key (*2), turn ignition switch to "ON". *2: To perform this step, use the key that has been used before performing ECM replacement. Maintain ignition switch in "ON" position for at least 5 seconds. 4. Turn ignition switch to "OFF". SEC 5. Start engine. Can engine be started? YES >> Procedure is completed. NO >> Initialize control unit. Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS. N

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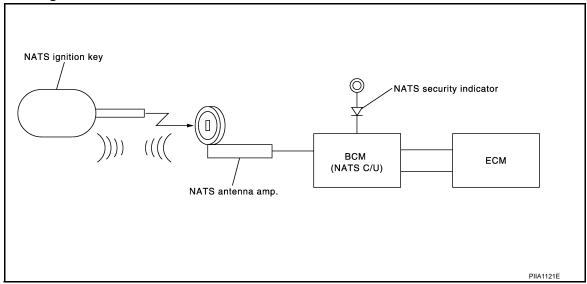
NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) [WITHOUT INTELLIGENT KEY SYSTEM]

SYSTEM DESCRIPTION

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

System Diagram

INFOID:0000000006202461



System Description

INEOID:0000000006202462

INPUT/OUTPUT SIGNAL CHART

BCM

Switch/Input signal	Input signal to BCM	BCM function	Actuator/Output signal
NATS antenna amp.	Key ID	NVIS/NATS	Security indicator lamp
ECM	Engine status signal	INVIO/INATO	Starter request

SYSTEM DESCRIPTION

NVIS (Nissan Vehicle Immobilizer System-NATS) has the following immobilizer functions:

- Engine immobilizer shows high anti-theft performance to prevent engine start by other than the owner.
- Only a key with key ID registered in BCM and ECM can start engine, and shows high anti-theft performance to prevent key from being copied or stolen.
- Therefore, NVIS/NATS warns outsiders that the vehicle is equipped with the anti-theft system. Refer to <u>SEC-150</u>, "System Description".
- If system detects malfunction, security indicator illuminate when ignition switch is turned to ON position.
- If the owner requires, ignition key ID can be registered for up to 5 keys.
- During trouble diagnosis or when the following parts have been replaced, and if ignition key is added, registration* is required.
 - *1: All keys kept by the owner of the vehicle should be registered with ignition key.
- ECM
- BCM
- Ignition key
- EPS control unit
- IPDM E/R
- Combination meter
- NVIS/NATS trouble diagnosis, system initialization and additional registration of other Ignition key IDs must be carried out using CONSULT-III hardware and SECURITY CARD.
 - When NVIS/NATS initialization has been completed, the ID of the inserted ignition key or ignition key IDs can be carried out.
- Possible symptom of NVIS/NATS malfunction is "Engine cannot start". The engine can be started with the NVIS/NATS. Identify the possible causes according to "Work Flow". Refer to SEC-142, "Work Flow".

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

 If ECM other than Genuine NISSAN is installed, the engine cannot be started. For ECM replacement procedure, refer to SEC-145, "ECM RE-COMMUNICATING FUNCTION: Description".

PRECAUTIONS FOR KEY REGISTRATION

- The key registration is a procedure that erases the current NVIS/NATS ID once, and then re-registers a new ID. Therefore the registered ignition key is necessary for this procedure. Before starting the registration operation collect all registered ignition keys from the customer
- The NVIS/NATS ID registration is the procedure that registers the ID stored into the transponder (integrated in ignition key) to BCM.

SECURITY INDICATOR LAMP

- Warns that the vehicle is equipped with NVIS/NATS.
- The security indicator lamp always blinks, when the ignition switch is in the except ON position.
- The security indicator turns OFF, when the ignition switch is in ON position.
- When NVIS/NATS detects trouble, the security indicator lamp lights up while ignition key is in the "ON" position

MAINTENANCE INFORMATION

CAUTION:

- During trouble diagnosis or when the following parts have been replaced with a used parts, and if ignition key is added, registration* is required. A new part (except ignition key) should register automatically after the ignition switch is turned ON. New one means a virgin control unit that has never been energized on-board
 - : All keys kept by the owner of the vehicle should be registered with ignition key.
- ECM
- BCM
- Ignition key
- NVIS/NATS trouble diagnosis, system initialization and additional registration of other ignition key IDs must be carried out using CONSULT-III hardware and SECURITY CARD. When NVIS/NATS initialization has been completed, the ID of the inserted ignition key IDs can be car-
- If ECM other than Genuine NISSAN is installed, the engine cannot be started.

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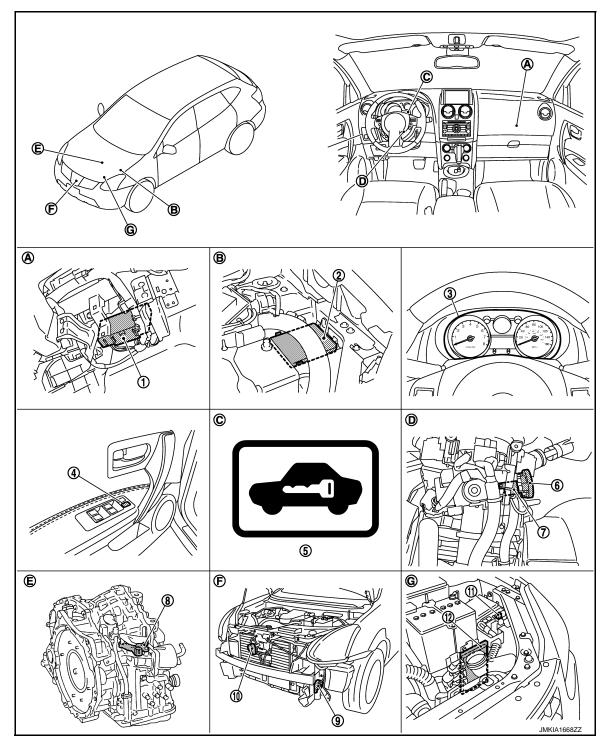
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- 1. BCM M65, M66, M67
- 4. Door lock and unlock switch D5, D6
- 7. Key switch M24
- 10. Horn (low) E80, E81
- A. Over the glove box

- 2. IPDM E/R E10, E11, E13, E14, E15
- Security indicator lamp (combination meter M34)
- 8. Transmission range switch F21
- 11. Horn relay E5
- B. Engine room (LH)

- Combination meter (security indicator lamp)
 M34
- 6. NATS antenna amp. M26
- 9. Horn (high) E78, E79
- 12. ECM E16
- C. Built in combination meter

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) [WITHOUT INTELLIGENT KEY SYSTEM]

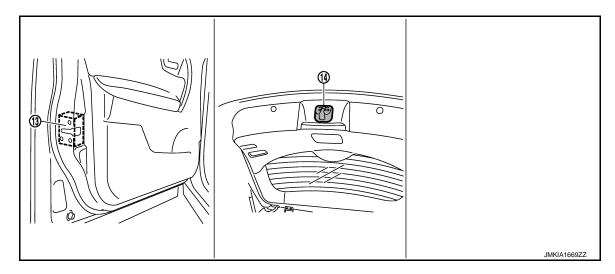
< SYSTEM DESCRIPTION >

View with steering column cover re-

- E. Transaxle assembly
- View with front bumper removed

G. Engine room (LH)

moved



- 13. Front door lock assembly (driver side) D9
- 14. Back door switch (back door lock assembly D190)

Component Description

Component Reference **BCM** BCS-7 NATS antenna amp. **SEC-163** Security indicator SEC-172 IPDM E/R PCS-2

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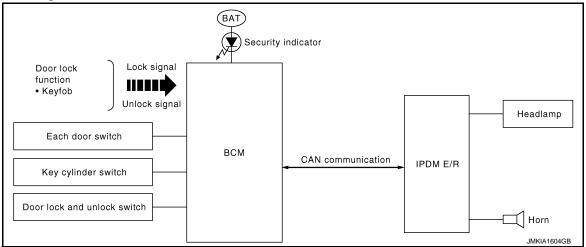
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VEHICLE SECURITY SYSTEM

System Diagram

INFOID:0000000006202465



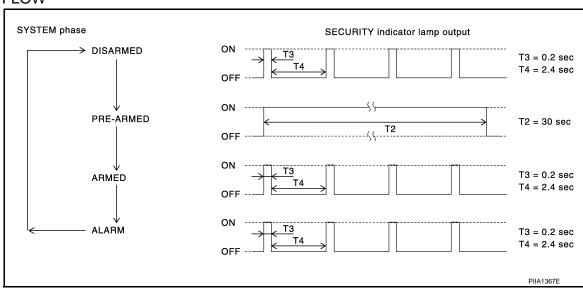
System Description

INFOID:0000000006202466

INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to BCM	BCM system	Actuator
All door switch	Open or close		
Door key cylinder switch	Lock or unlock	Vehicle security system	IPDM E/R Head lamp Horn Security indicator lamp
Door lock and unlock switch	LOCK OF UTILOCK		
Keyfob	Lock or unlock		
Keylob	Panic alarm		

OPERATION FLOW



SETTING THE VEHICLE SECURITY SYSTEM

Initial Condition

• Ignition switch is in OFF position.

Disarmed Phase

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

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

Pre-armed Phase and Armed Phase

When the following operation 1 or 2 is performed, the vehicle security system turns into the "pre-armed" phase. (The security indicator lamp illuminates for approx. 30 seconds. Then, the system automatically shifts into the "armed" phase.)

- BCM receives LOCK signal from front door key cylinder switch or keyfob, after back door and all doors are closed.
- 2. Back door and all doors are closed after front doors are locked by key or door lock and unlock switch.

CANCELING THE SET VEHICLE SECURITY SYSTEM

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

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

CANCELING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

When unlocking the door with the key or keyfob the alarm operation is canceled.

ACTIVATING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

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

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

PANIC ALARM OPERATION

Remote keyless entry system may or may not operate vehicle security system (horn and headlamps) as required.

When the remote keyless entry system is triggered, ground is supplied intermittently to both headlamp relay and horn relay.

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

The headlamp flashes and the horn sounds intermittently.

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

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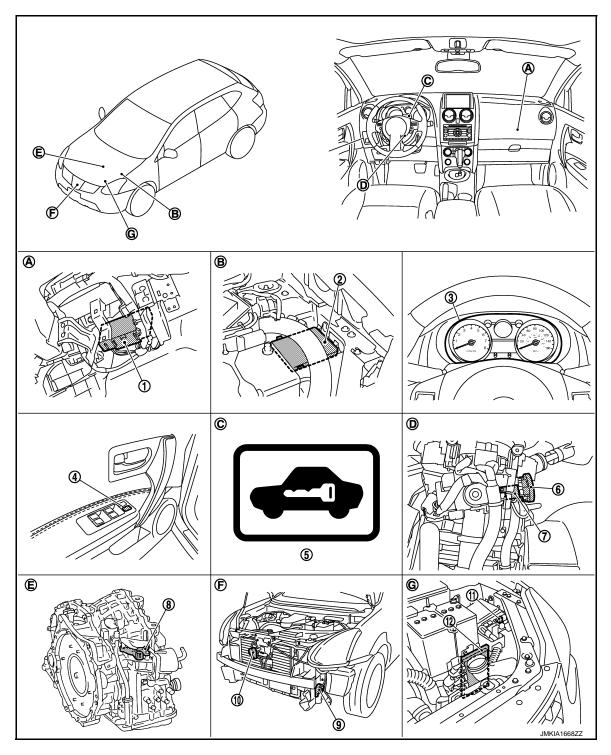
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Component Parts Location





- 1. BCM M65, M66, M67
- 4. Door lock and unlock switch D5, D6
- 7. Key switch M24
- 10. Horn (low) E80, E81
- A. Over the glove box

- 2. IPDM E/R E10, E11, E13, E14, E15
- 5. Security indicator lamp (combination meter M34)
- 8. Transmission range switch F21
- 11. Horn relay E5
- B. Engine room (LH)

- Combination meter (security indicator lamp)
 M34
- 6. NATS antenna amp. M26
- 9. Horn (high) E78, E79
- 12. ECM E16
- C. Built in combination meter

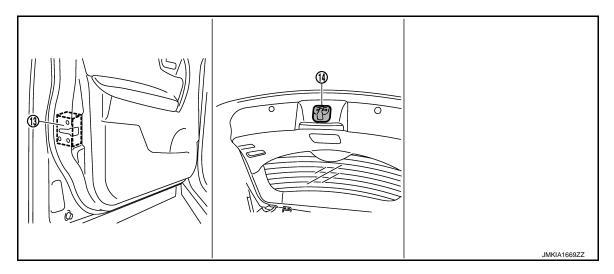
VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- View with steering column cover removed
- E. Transaxle assembly
- F. View with front bumper removed

G. Engine room (LH)



- Front door lock assembly (driver side) D9
- Back door switch (back door lock assembly D190)

Component Description

Component	Reference
BCM	BCS-7
Horn	SEC-171
Security indicator	SEC-172
Door switch	DLK-301
NATS antenna amp.	<u>SEC-163</u>

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DIAGNOSIS SYSTEM (BCM)



[WITHOUT INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)

INFOID:0000000006596532

APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to SEC-209, "DTC_Index".
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	CONSULT-III sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Auto air conditioning systemManual air conditioning system	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Body control system	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
_	FUEL LID*			
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×
Panic alarm system	PANIC ALARM			×

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

IMMU

IMMU: CONSULT-III Function (BCM - IMMU)

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APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

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

DATA MONITOR

Monitor item	Content
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.

ACTIVE TEST

Test item	Description
THEFT IND	This test is able to check security indicator operation [ON/OFF].

THEFT ALM

THEFT ALM: CONSULT-III Function (BCM - THEFT ALM)

INFOID:0000000006202471

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

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

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
KEYLESS LOCK*2	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK*2	Indicates [ON/OFF] condition of unlock signal from key fob.
I-KEY LOCK*1	Indicates [ON/OFF] condition of lock signal from Intelligent Key.
I-KEY UNLOCK*1	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.
TRUNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.
TRNK OPNR MNTR	NOTE: The item is indicated, but not monitored.
HOOD SW	Indicates [ON/OFF] condition of hood switch.
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.

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
KEY CYL LK-SW	Indicates [ON/OFF] condition of key cylinder switch.
KEY CYL UN-SW	Indicates [ON/OFF] condition of key cylinder switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.

^{*1:} For vehicle equipped with Intelligent Key.

ACTIVE TEST

Test item	Description
THEFT IND	This test is able to check security indicator operation [ON/OFF].
VEHICLE SECURITY HORN	This test is able to check horn operation [ON].
HEAD LAMP(HI)	This test is able to check head lamp (HI) operation [ON/OFF].

WORK SUPPORT

Test item	Description			
SECURITY ALARM SET	 Vehicle security function mode can be changed in this mode. ON: Vehicle security function is ON. OFF: Vehicle security function is OFF. 			
THEFT ALM TRG	The switch which triggered vehicle security system is recorded. This mode can be able to confirm and erase the record of vehicle security system.			

^{*2:} For the vehicle equipped with remote key less entry system.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

BCM

BCM: Description

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

CAN Communication Signal Chart. Refer to LAN-25, "CAN Communication Signal Chart".

BCM: DTC Logic

INFOID:0000000006596534

DTC DETECTION LOGIC

DTC Detection Condition Possible cause

When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.

CAN communication system

BCM: Diagnosis Procedure

INFOID:0000000006596535

1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

YES >> Refer to <u>LAN-15</u>, "Trouble <u>Diagnosis Flow Chart"</u>.

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

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

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

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

CAN Communication Signal Chart. Refer to LAN-25, "CAN Communication Signal Chart".

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

DTC DETECTION LOGIC

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

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

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

agnosis Procedure

INFOID:0000000006596538

1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

YES >> Refer to LAN-15, "Trouble Diagnosis Flow Chart".

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

P1610 LOCK MODE

[WITHOUT INTELLIGENT KEY SYSTEM] < DTC/CIRCUIT DIAGNOSIS > P1610 LOCK MODE Α Description INFOID:0000000006202478 When the starting operation is carried more than 10 times consecutively under the following conditions, NVIS/ В NATS will shift to the mode which prevents the engine from being started. Unregistered ignition key is used. BCM or ECM's malfunctioning. DTC Logic INFOID:0000000006202479 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name Е When the starting operation is carried out 10 or more times consecutively under the P1610 LOCK MODE following conditions. · Unregistered ignition key F · BCM or ECM's malfunctioning. DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE Turn ignition switch ON. Check "Self Diagnostic Result" with CONSULT-III. Н Is DTC detected? YES >> Refer to SEC-159, "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure INFOID:0000000006202480 1. CHECK ENGINE START FUNCTION Perform the check for DTC except DTC P1610. Use CONSULT-III to erase DTC after fixing. SEC Check that engine can start with registered ignition key. Does the engine start? YES >> INSPECTION END NO >> GO TO 2. 2.CHECK INTERMITTENT INCIDENT Refer to GI-45, "Intermittent Incident". >> INSPECTION END

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P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

P1611 ID DISCORD, IMMU-ECM

Description

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

 If DTC P1611 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-159, "DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

YES >> Refer to <u>SEC-160</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006202483

1. PERFORM INITIALIZATION

Perform initialization with CONSULT-III. Re-register all ignition keys.

For initialization and registration of ignition key. Refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS".

Can the system be initialized and can the engine be started with re-registered ignition key?

YES >> INSPECTION END (ID was unregistered.)

NO >> GO TO 2.

2.REPLACE BCM

- 1. Replace BCM. Refer to BCS-66, "Removal and Installation".
- Perform initialization with CONSULT-III. Re-register all ignition keys.
 For initialization and registration of ignition key. Refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS".

Can the system be initialized and can the engine be started with re-registered ignition key?

YES >> INSPECTION END (BCM was malfunctioning.)

NO >> GO TO 3.

3.REPLACE ECM

- Replace ECM. Refer to the following page.
- For CALIFONIA: Refer to <u>EC-26</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- For USA (FEDERAL) and CANADA: Refer to <u>EC-511</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: Special Repair Requirement".
- Perform initialization with CONSULT-III. Re-register all ignition keys.
 For initialization and registration of ignition key. Refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS".

Can the system be initialized and can the engine be started with re-registered ignition key?

YES >> INSPECTION END (ECM was malfunctioning.)

P1611 ID DISCORD, IMMU-ECM [WITHOUT INTELLIGENT KEY SYSTEM] < DTC/CIRCUIT DIAGNOSIS > NO >> GO TO 4. 4. CHECK INTERMITENT INCIDENT Α Refer to GI-45, "Intermittent Incident". В >> INSPECTION END С D Е F Н

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P1612 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

P1612 CHAIN OF ECM-IMMU

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

DTC Logic

DTC DETECTION LOGIC

NOTE:

 If DTC P1612 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-157, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

YES >> Refer to <u>SEC-162</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:00000000006202486

1.REPLACE BCM

- Replace BCM. Refer to <u>BCS-66, "Removal and Installation"</u>.
- Perform initialization with CONSULT-III. For initialization, refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS".

Does the engine start?

YES >> INSPECTION END (BCM was malfunctioning.)

NO

- >> ECM is malfunctioning.
 - Replace ECM. Refer to the following page.
 - For CALIFORNIA: Refer to <u>EC-26</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: Special Repair Requirement".
 - For USA (FEDERAL) and CANADA: Refer to <u>EC-511</u>, "ADDITIONAL SERVICE WHEN <u>REPLACING CONTROL UNIT: Special Repair Requirement"</u>.
 - For MEXICO: Refer to EC-959, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

P1614 CHAIN OF IMMU-KEY

Description INFOID:0000000006202487

Performs ID verification through BCM and NATS antenna amplifier when ignition knob switch is pressed. Prohibits the release of steering lock or start of engine when an unregistered ID of ignition key is used.

DTC Logic INFOID:0000000006202488

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1614	NATS ANTENNA AMP	 Inactive communication between NATS antenna amp. and BCM. Ignition key is malfunctioning. 	 Harness or connectors (The NATS antenna amp. circuit is open or short) Ignition key NATS antenna amp. BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Insert ignition key into key cylinder.
- Turn ignition knob switch.
- Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

YES >> Refer to SEC-163, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK NATS ANTENNA AMP. INSTALLATION

Check NATS antenna amp. installation. Refer to SEC-140, "Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Reinstall NATS antenna amp. correctly.

2.CHECK IGNITION KEY

Start engine with another registered ignition key.

Does the engine start?

YES >> Replace ignition key. Perform initialization and registration of ignition key. Refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS"

NO >> GO TO 3.

3.CHECK NATS ANTENNA AMP. POWER SUPPLY

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

(+) NATS antenna amp.		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(, ,pprox.)	
M26	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

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NO >> Repair or replace harness.

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P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. CHECK NATS ANTENNA AMP. GROUND CIRCUIT

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

NATS ant	enna amp.		Continuity
Connector	Terminal	Ground	Continuity
M26	3		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace circuit.

5. CHECK NATS ANTENNA AMP. SIGNAL CIRCUIT

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

(+) NATS antenna amp.					
		(–)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			(· -F-P07/11)	
M26 4		Just after inserting ignition key in key cylinder.	Pointer of tester should move.		
		Ground	Other than above.	0	
	4	Ground	Just after inserting ignition key in key cylinder.	Pointer of tester should move.	
			Other than above.	0	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace circuit.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

P1615 DIFFRENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

P1615 DIFFRENCE OF KEY

Description INFOID:0000000006202490

Performs ID verification through BCM when ignition knob switch is pressed.

Prohibits the release of steering lock or start of engine when an unregistered ID of ignition key is used.

DTC Logic INFOID:0000000006202491

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Insert ignition key into key cylinder.
- 2. Turn ignition knob switch.
- Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

>> Refer to SEC-165, "Diagnosis Procedure". YES

NO >> INSPECTION END

Diagnosis Procedure

1. PERFORM INITIALIZATION

Perform initialization with CONSULT-III. Re-register all ignition keys.

For initialization and registration of ignition key. Refer to "CONSULT-III Operation Manual NATS-IVIS/NVIS".

Can the system be initialized and can the engine be started with re-registered ignition key?

YES >> INSPECTION END (Ignition key was unregistered.)

>> BCM is malfunctioning. NO

- Replace BCM. Refer to BCS-66, "Removal and Installation".
- Perform initialization again.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000006202493

1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not fusing.

Terminal No.	Signal name	Fuses and fusible link No.	
41	Battery power supply	10 (10A)	
57	Battery power suppry	J (50A)	
3	Ignition power supply	1 (10A)	

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

Terminals			lanition quitab position		
(+)			Ignition switch position		
В	всм		(-) OFF	ACC	ON
Connector	Terminal		OFF	ACC)
M65	3		Approx. 0 V	Approx. 0 V	Battery voltage
M66	41	Ground	Battery voltage	Battery voltage	Battery voltage
M67	57		Battery Voltage	Battery Voltage	Dattery Voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M67	55		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >		[WITHOUT INTELLIGENT KEY SYSTEM]
DOOR SWITCH		
Description		INFOID:000000006202494
Detects door open/closed condition		
Component Function Chec	k	INFOID:000000000620249
1.check function		
With CONSULT-III Check door switches ("DOOR SW-SW") in "Data Monitor" mode with C		OOR SW-RL", "DOOR SW-RR", "BACK DOOR
Monitor item	Door condition	Display
DOOR SW-DR		
DOOR SW-AS		
DOOR SW-RL	$CLOSE \to OPEN$	$OFF \to ON$
DOOR SW-RR		
BACK DOOR		
Is the inspection result normal? YES >> Door switch is OK. NO >> Refer to SEC-167, "Dia	gnosis Procedure".	
Diagnosis Procedure		INFOID:00000000620248
1. CHECK DOOR SWITCH INPUT	SIGNAL	
 Turn ignition switch OFF. Disconnect door switch connec Check signal between door swi 		ground with oscilloscope.

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	Door switch				
(+)			()	Voltage (V) (Approx.)	
connector		Terminal	(–)	(Approxi)	
Front door switch (passenger side)	B27	2		(V) 15 10 5 0 +-10ms JPMIA0586GB	
Front door switch (driver side)	В34	2	Ground	(V) 15 10 5 0 → 10ms JPMIA0587GB	
Rear door switch RH	B53	2		(V) ₁₅ 10 5 0 → 10ms JPMIA0587GB	
Rear door switch LH	B71	2		(V) 15 10 5 0 + 10ms JPMIA0594GB	
Back door lock assembly (back door switch)	D190	3		(V) 15 10 5 0 → 10ms JPMIA0593GB	

Is the inspection result normal?

YES >> • Back door switch : GO TO 3.

• Door switch: GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

- 1. Disconnect BCM connectors.
- 2. Check continuity between BCM harness connector and door switch harness connector.

[WITHOUT INTELLIGENT KEY SYSTEM]

BCM		Door switch		Continuity
connector	Terminal	connector	Terminal	Continuity
M65	12	B27	2	
COIVI	13	B53	- 2	
	43	D190	3	Exists
M66	47	B34	2	
	48	B71		

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal		Continuity
M65	12		
	13	Ground	Does not exist
M66	43		
	47		
	48		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-66, "Exploded View".

NO >> Repair or replace harness.

3.CHECK BACK DOOR GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock	assembly		Continuity
connector	Terminal	Ground	Continuity
D190	4		Exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR SWITCH

Check door switch.

Refer to SEC-169, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door switch. Refer to <u>DLK-265</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK DOOR SWITCH

- Turn ignition switch OFF.
- 2. Disconnect door switch connector.
- Check door switch.

	Terminal		Condition	Continuity
Each door	2	Ground	Door switch pressed	Exists
Lacif door	2	Ground	Door switch released	Does not exist

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INFOID:0000000006202497

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

	Terminal		Condition	Continuity
Back door	3	4	Back door open	Exists
Dack door			Back door close	Does not exist

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door switch . Refer to <u>DLK-265</u>, "Removal and Installation".

[WITHOUT INTELLIGENT KEY SYSTEM]

HORN

Description INFOID:000000006202498

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

Component Function Check

1. CHECK FUNCTION

- Select "HORN" in "Active Test" mode with CONSULT-III.
- 2. Check the horn (high/low) operation.

Test	item	Desc	ription
HORN	ON	Horn (high/low)	ON (for 20 ms)

Is the operation normal?

YES >> INSPECTION END

NO >> Refer to <u>SEC-171</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

YES >> GO TO 2.

NO >> Refer to HRN-2, "EXCEPT FOR MEXICO: Wiring Diagram - HORN -".

2. CHECK HORN RELAY CIRCUIT

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

IPD	M E/R	Horn	relay	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E15	57	E5	1	Existed

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

IPDI	M E/R		Continuity
Connector	Terminal	Ground	Continuity
 E15	57		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-29, "Removal and Installation".

NO >> Repair or replace harness.

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VEHICLE SECURITY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY INDICATOR

Description INFOID:000000006202501

- Vehicle security indicator is built in combination meter.
- NVIS/NATS and vehicle security system conditions are indicated by blink or illumination of vehicle security indicator.

Component Function Check

INFOID:0000000006202502

1. CHECK FUNCTION

- 1. Perform "THEFT IND" in the "Active Test" mode with CONSULT-III.
- 2. Check vehicle security indicator operation.

Test item		Description	
THEFT IND	ON	Vahiala cagurity indicator	ON
	OFF	Vehicle security indicator	OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SEC-172</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006202503

1. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

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

(+) Combination	n meter	(-)	Voltage (V) (Approx.)	
Connector	Connector Terminal		(11 - 7	
M34	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK SECURITY INDICATOR LAMP SIGNAL CIRCUIT

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

В	CM	Combina	tion meter	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	23	M34	28	Existed

Check continuity between combination meter harness connector and ground.

Combina	tion meter		Continuity
Connector	Terminal	Ground	Continuity
M34	28		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

1. Connect combination meter connector.

VEHICLE SECURITY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

2. Check voltage between BCM harness connector and ground.

·	+) CM	(-)	Voltage (V) (Approx.)
Connector	Terminal		, , ,
M65	23	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-66, "Removal and Installation".

NO >> Replace combination meter. Refer to MWI-78, "Removal and Installation".

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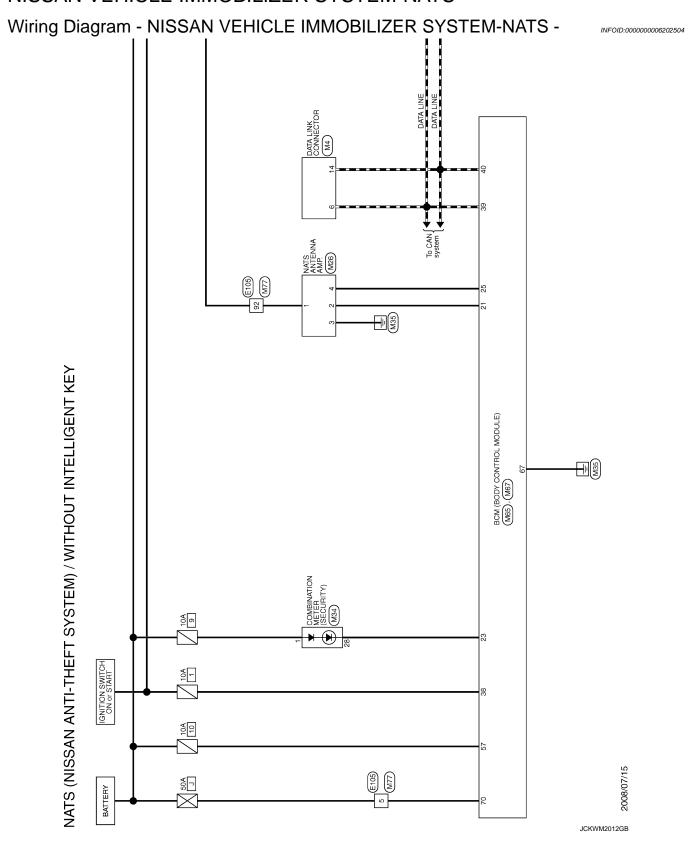
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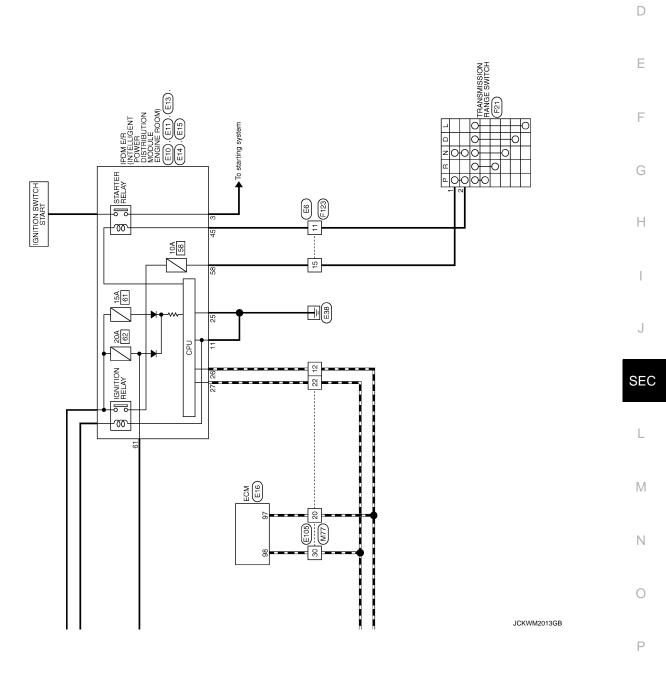
NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS



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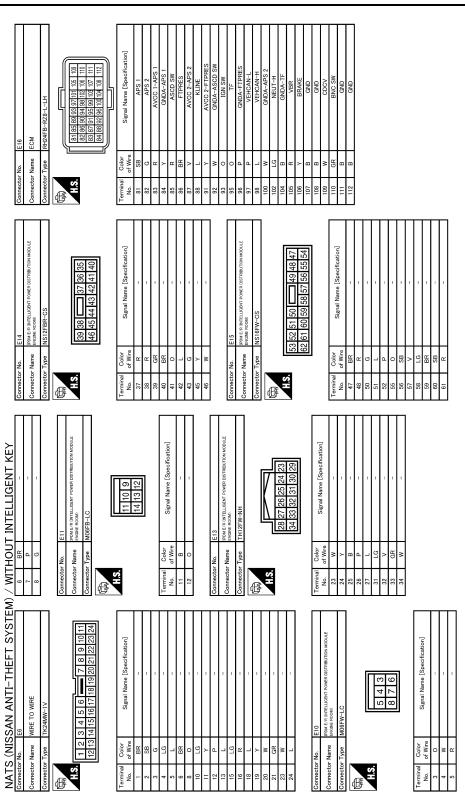
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NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS AGNOSIS > [WITHOUT INTELLIGENT KEY SYSTEM]



JCKWM4742GB

NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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	JCKWM4743GB

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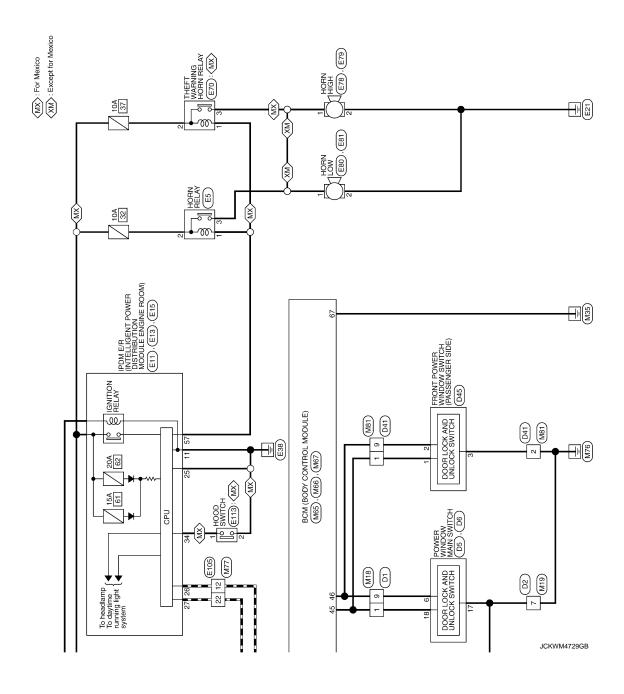
NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS (GNOSIS > [WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

NATS (NISSAN ANTI-THEFT SYSTE	M) / WIT	HOUT II	/ WITHOUT INTELLIGENT KEY							
Connector No.	v. M34	Connector No	r No. M65		Connector No.		M67	11		-	
Connector Name	COMBINATION METER	Connector Name		BCM (BODY CONTROL MODULE)	Connector Name		BCM (BODY CONTROL MODULE)	12	+	1	
	Т		_					14	es S	1	
Connector Type	pe TH40FW-NH	Connector Type	٦	TH40FW-NH	Connector	Type	FEA09FB-FHA6-SA	12	+	'	
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Ja.	Color Signal Name [Specification]	Terminal	Color	Signal Name [Specification]	Terminal	Color	Signal Name [Specification]	45	T	1	
No	e,	ġ.	of Wire	,	è.	of Wire		43	ά		
+	LG BALLERY POWER SUPPLY	- 0	> 0	KEY KING OUTPUT	200	<u></u> ,	BALIERY SAVER UDIPUI	ā [+		
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+		77	-	INPUL 4	960	1	D/L UNLOCK DR	ñ	1	1	
+	┪	4	*	INPUT 3	09	æ	FLASHER OUT PUT (LEFT)	24	+	1	
2	4	2	œ	INPUT 2	61	GR	FLASHER OUT PUT (RIGHT)	9	+	1	
, ,	GR OVERDRIVE CONTROL SWITCH SIGNAL	9	Ь	INPUT 1	63	œ	ROOM LAMP OUTPUT	19	æ	1	
6	L PADDLE SHIFTER SHIFT UP SIGNAL	7	7	KEY CYC UNLOCK	65	>	D/L LOCK ALL	62	g	-	
10	G PADDLE SHIFTER SHIFT DOWN SIGNAL	8	Я	KEY CYL LOCK SW	99	9	D/L UNLOCK OTHER	63	Д		
13	Y ILLUMINATION CONTROL SIGNAL	6	В	BRAKE SW	49	В	GND	69	W		
15	LG AIR BAG SIGNAL	10	SB	RR DEF SW	89	_	POWER WDW OUTPUT (RAP)	2	8	1	
16	ENGINE	=	SB	ACC	69	۵	POWER WDW OUTPUT (BAT)	17	L	1	
L	Н	12	а	DR SW AS	70	>	BAT FL	72	0	1	
20	SB AMBIENT SENSOR GROUND	13	57	DR SW RR				78	SB	1	
21	L CAN-H	14	ŋ	AUTO LIGHT SENS INPUT				79	H	1	
22	P CAN-L	17	М	SENS POWER SUPPLY	Connector No.	No. M7	77	80	٦	1	
	B FUEL LEVEL SENSOR SIGNAL GROUND	18	0	KEYLESS TUNER SENS GND		Т		8	*		
+	H	19	>	KEYLESS TUNER POWER	Connector Name		WIRE TO WIRE	82	$\frac{1}{1}$		
	PARK	20	GR	KEYLESS TUNER SIGNAL	Connector Type	Г	TH80MW-CS16-TM4	83	F		
H	"	21	9	IMMOBI ANT (CLOCK)		1		88	F		
H	╀	23	8	SECURITY IND OUT PUT	C C		4	88	H		
-	W WASHER LEVEL SWITCH SIGNAL	25	BR	IMMOBI ANT (RX, TX)	· ·		100 SS 41 SS	96	GR	1	
30	Y VEHICLE SPEED SIGNAL (2-PULSE)	27	>	AIRCON SW	Ċ			16	œ	1	
31	L VEHICLE SPEED SIGNAL (8-PULSE)	28	re	BLOWER FAN SW			88 80	92		1	
34	G FUEL LEVEL SENSOR SIGNAL	59	M	HAZARD SW			2 2 2 2 2 2 2 2 2 2 2 2	93	۵	1	
32	O SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	30	9	BACK DOOR OPEN SW			2 2 2 2 2 2	94	Μ	-	
36	G SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)	32	BR	OUTPUT 5				96	BR	1	
37	P NON-MANUAL MODE SIGNAL	33	GR	OUTPUT 4	Terminal	Color	9	97	g	1	
38	O MANUAL MODE SHIFT DOWN SIGNAL	34	_	OUTPUT 3	No.	of Wire	olgnai Name [opecimication]	66	_		
_	V MANUAL MODE SHIFT UP SIGNAL	35	В	OUTPUT 2	-	æ	1	100	L		
40	LG MANUAL MODE SIGNAL	36	>	OUTPUT 1	2	0	1				
		37	57	KEY SW	8	re	t				
		38	5	IGN	4	>	1				
		39	_	CAN-H	2	>	1				
		40	۵	CAN-I	g	٣	1				
					, _						
					89	æ	1				
					6	æ	1				
					10	_	1				

JCKWM4744GB

VEHICLE SECURITY SYSTEM Α Wiring Diagram - VEHICLE SECURITY SYSTEM -INFOID:0000000006625125 В BETWEEN FULL FULL STROKE INTELLIGENT KEY UNIT (M40): < IK ⟨XK⟩: Except for Mexico with Intelligent Key ⟨IK⟩: With Intelligent Key UNLOCK FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) (D9) DOOR KEY CYLINDER SWITCH C z D BETWEEN FULL STROKE AND N LOCK DATA LINK CONNECTOR M4 Е FULL STROKE M18 01 F BACK DOOR LOCK ASSEMBLY (BACK DOOR SWITCH) (0190) BCM (BODY CONTROL MODULE) (M65), (M66) (M67) G To CAN system REMOTE KEYLESS ENTRY RECEIVER (M91): < XK D153 M13 (B77) Н SWITCH RH × IGNITION SWITCH ACC or ON 10A J FRONT DOOR SWITCH (PASSENGER SIDE) 104 104 M11 COMBINATION METER (SECURITY) (M34) SEC SWITCH LH L (M77) 50A J VEHICLE SECURITY SYSTEM BATTERY 31 M FRONT DOOR SWITCH (DRIVER SIDE) M13 IGNITION SWITCH ON or START 4 -Ν 0 2010/06/18 Р



< DTC/CIRCUIT DIAGNOSIS >

	А
Signal Name [Specification] Signal Name [Specification]	В
BB53 REAR DO A03FW A03FW	С
Connector No. Connector Type Connector No. Connector No. Connector Name Connector Name Connector Name Connector Name Connector Type Conne	D
infeation]	Е
E27 FRONT DOOR SWITCH (DRIVER SIDE) Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	F
	G
26 F 20 20 20 20 20 20 20	Н
WIRE	I
B3 TH32MW-NH TH32MW-NH Sigmal N Sigmal N	J
	SEC
1 1 1 1 1 1 1 1 1 1	
S Stemi	L
Signal Name (Specification) Signal Name (Specification)	M
BIT WIRE TO WIRE THEOMW-CSIG-TIM WIRE TO WIRE THEOMW-CSIG-TIM Signal Name (Specification Signal Name (Specification	
	N
Connector No. Connector No. Connector No. Connector Types Connector Ty	0
	JCKWM4730GB
	Р

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Connector No. D9 Connector Name FRONT DOOR LOOK ASSEMBLY (DRIVER SIDE) Connector Type EDBFGY-RS	(123456)	inal Color Signal Name of Wire V	4 6	H.S. R T 6 5 4 3 2 1 16 15 14 13 12 11 10 9		- GR -
0 > 4	Connector No. 105 Connector Name POWER WINDOW MAIN SWITCH Connector Type NS16FW-CS	HS. 1 2 3 4 () 5 6 7 8 9 10 11 12 13 14 15 16	Color Signal Name [Specification] Color Color	9	Connector No. D6 Connector Name POWER WINDOW MAIN SWITCH Connector Type INSU3FW-CS	Terminal Color Signal Name [Specification]
Connector No. 01 Connector Name WIRE TO WIRE Connector Type TH16FW-NH	H.S. 8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9	inal Color Signal Name of Wire P	5 CR	totor No. D2 ctor Type NS 16FW-C5	Color GR	$\frac{1}{1}$
VEHICLE SECURITY SYSTEM Cornector Name WIRE TO WIRE Connector Type INSTOMW-CS	1.5 1.2 1.2 1.4 5.6 7.8 9 10	inal Color Signal Name of Wire P	5 5 6 W W O O O O O O O O O O O O O O O O O	Connector No. B79 Connector Name WIRE TO WIRE Connector Type MO4MW-LC HS	Terminal Color Signal Name [Specification] Color Col	

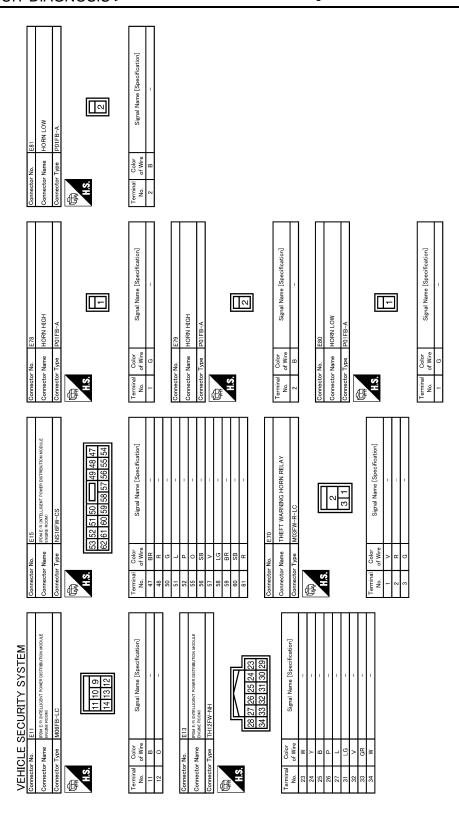
JCKWM4731GB

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

- - - - - - - - - -	Signal Name [Specification]
BACK DC NSO4FW-	Oolor Signal Name of Wire of Parts
3 W 5 5 5 5 5 5 5 5 5	7 eminal 8.0. No. 2 1 2 2 1 1 3 2 2 1 1 1 2 2 1 1 1 1 1 1
offcation)	[12] Sification
WIRE TO WIRE MO4FW-LC Signal Name [Specification]	2 3
Color No. Color Name Color Type Color Name Color Name Color Name Color Name Color Type Color Name Color Type	Color Reminel Color of Wire R R R R R R R R R R R R R R R R R R R
Solom on one of the state of th	H
WIRE -CSS 10 9 8 7 6 1	
	J
	SEC
	L
Connector Name D45	М
SECURITY PAGE INDIGE NISTERW-CS NISTERW-CS Signal Signal	N
Connector Name Connector Type Connector Type Connector Type Connector Type Connector Type Connector Name Conn	0
Connece Connec	JCKWM4732GB
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65 66 67 67 70 70 70 70 70 70 70 70 70 70 70 70 70	D
peofication)	Е
Signal Manne (S)	F
	G
7 0 16 16 17 16 17 16 17 16 17 17	Н
ification]	1
E113 HOOD SWITCH WQZFW MA MA DATA LINK CONNECTOR BD16FW Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	J
80 Y 82 R 83 R 84	SEC
	L
Signal Name Color Color	M
SECURITY S FIOS WIRE TO WRE TH80FW-CS16-TM4 Signal Nom	N
Connector Name Connector Name Connector Name Connector Type Conn	0
- M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M	JCKWM4734GB
	Р

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Connector No. 1440	Connector Name	Connector Type TH40FW-NH		\$ ************************************	13 14 15 16 17 18 19 20 33 34 35 36 37 38 39 40		Signal Name [Specification] Terminal Color Signal Name [Specification] No. of Wire	П	NAL 2 L	GROUND 3 P CAN-L	ECOGNITION SIGNAL 5 Y REQU	MS NDI M 9	PADDLE SHIFTER SHIFT UP SIGNAL 7 LG KEY SW	JAL 10 SB PRAN	- SIGNAL	12 B	SIGNAL 13 Y	14 BR	AMBIEN SENSOR GROUND 15 R CONSOLE (+)	W 72	FUEL LEVEL SENSOR SIGNAL GROUND 18 R BACK DOOR (-)	19 BR	20	H SIGNAL 25 BR F	+	2/ G	25 SB	31 L S	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) 32 P STRG LOCK UNIT SIG	>	38 P P	MANUAL MODE SHIFT DOWN SIGNAL 40 V AS ANTI HIJACK	MANUAL MODE SHIFT UP SIGNAL	MODE STAINAL				
Connector No M33	не	Connector Type TH40FW-NH		vi.	1 2 3 4 5 6 7 8 9 101112 2122 23 24 25 26 27 28 29 30 31 32		Terminal Color Signal Nam			33	- H	æ	H	10 G PADDLE SHIFTER	13 Y ILLUMINATION	P.	0	# 6	20 SB AMBIENI SI	4 6.	В		\dashv	BR	в :	29 W WASHER LEVE	-	ı o	35 O SEAT BELT BUCKLE SI	36 G SEAT BELT BUCKLE SWI	۵	0 ;	39 V MANUAL MOD	50				
		BR –	BR -	GR –		M19	-	e NS16MW-CS			100	2,7,0,0,7,0,0	8 9 10 11 12 13 14 15 16			lor Signal Name [Specification]		1	2.0	- 2		SB –			1		-	-	-									
	2 A A	Н	9 II	Н	15 W	Connector No.	Connector Name	Connector Type	q	事	HS.					nal	No. of Wire	- °	3 6	4	5	S 9	7 B	+	+	0 5	+	+	1 91									
VEHICLE SECURITY SYSTEM	WIRE TO WIRE	TH32FW-NH			16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17		Signal Name [Specification]	-	1	1		1	-	1	1	1	1	1	1 1		1	1	1	1	-		M18	TOWN OF LOWN	WIRE TO WIRE	TH16MW-NH				12345678	9 10 11 12 13 14 15 16	Signal Name [Specification]	-	
VEHICLE (Connector Name	Connector Type		Σ			inal Color of Wire	ŋ	>	œ ≩	+	╀	>	Н	W	+	+	+	88 a	£	M	7	\dashv	+	g		Connector No.		actor Name	Connector Type		_	H.S.			inal Color of Wire	۵	~
\E	Conne	Conne	Œ	V	į		Terminal No.	_	2	4 4	9	9	13	14	12	91	- 1	2 5	19	21	26	29	30	31	32		Conne	,	ři S	Conne	1	季	4			Terminal No.	_	e

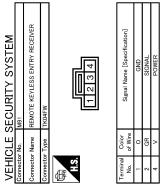
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[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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WIRE NH 12 13 14 15 16	В
1 MIRE TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	С
80 LG RB RB RB RB RB RB RB R	D
pecification)	Е
WW-CS16-TMA WW-CS16-TMA Signal Name (S	F
	G
Connector No. Connector Name Connector Name Connector Type Conne	Н
M86	J
1	SE
Connector No. Connector No	O.E.
	L
BCCURITY SYSTEM M65 BCM (BODY CONTROL MODULE) TH40FW-NH TH40FW-NH TH6 EVERT & CONTROL MODULE Signal Name [Specification] Signal Name [Specification] NEV TRING OUTPUT 5 INPUT 1 INPUT 3 INPUT 1 INPUT	M
Mes	N
Color No. Color	0
Common C	JCKWM4736GB
	D

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JCKWM4737GB

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGIN OIN SVV	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
KEY ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK 3W	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
DOOK SW-DK	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOK SW-KL	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
BACK DOOK SW	Back door opened	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
RET CTL LK-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET CTL UIN-SVV	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
RETLESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	Back door closed Back door opened Other than driver door key cylinder LOCK position Driver door key cylinder LOCK position Other than driver door key cylinder UNLOCK position Driver door key cylinder UNLOCK position "LOCK" button of key fob is not pressed "LOCK" button of key fob is pressed "UNLOCK" button of key fob is pressed "UNLOCK" button of key fob is pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed	On
I KEY IINI OCK		Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
ACC ON SIM	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE SW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LICHT SW 1ST	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BUCKLE 3W	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
VEVI ESS DANIO	PANIC button of key fob is not pressed	Off
KEYLESS PANIC	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
II DE AM CVA	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
JEAD LAND OW (Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
JEAD LAND OW O	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
24.001410.0141	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
-0.500.000	Front fog lamp switch OFF	Off
R FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
511DN1 010N1A1 D	Turn signal switch OFF	Off
URN SIGNAL R	Turn signal switch RH	On
FURNI GLONIAL I	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
ENGINE RUN	Engine stopped	Off
INGINE RUN	Engine running	On
PKB SW	Parking brake switch is OFF	Off
-KB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OF HOME SENSOR	Dark outside of the vehicle	Close to 0 V
GN SW CAN	Ignition switch OFF or ACC	Off
GIN SW CAIN	Ignition switch ON	On
ED WIDED LII	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status				
FR WIPER LOW	Front wiper switch OFF	Off				
FK WIFEK LOW	Front wiper switch LO	On				
FR WIPER INT	Front wiper switch OFF	Off				
FR WIPER INT	Front wiper switch INT	On				
ED MACHED CM	Front washer switch OFF	Off				
FR WASHER SW	Front washer switch ON	On				
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7				
	Any position other than front wiper stop position	Off				
FR WIPER STOP	Front wiper stop position	On				
VEHICLE SPEED	While driving	Equivalent to speedometer reading				
	Rear wiper switch OFF	Off				
RR WIPER ON	Rear wiper switch ON	On				
	Rear wiper switch OFF	Off				
RR WIPER INT	Rear wiper switch INT	On				
	Rear washer switch OFF	Off				
RR WASHER SW	Rear washer switch ON	On				
	Rear wiper stop position	Off				
RR WIPER STOP	Other than rear wiper stop position	On				
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off				
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off				
	Hazard switch OFF	Off				
HAZARD SW	Hazard switch ON	On				
	Brake pedal is not depressed	Off				
BRAKE SW	Brake pedal is depressed	On				
	Blower fan motor switch OFF	Off				
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On				
	 A/C conditioner OFF (A/C switch indicator OFF) (Automatic air conditioner) A/C switch OFF (Manual air conditioner) 	Off				
AIR COND SW	A/C conditioner ON (A/C switch indicator ON) (Automatic air conditioner) A/C switch ON (Manual air conditioner)	On				
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off				
I-KEY PW DWN	UNLOCK button of Intelligent Key is not pressed	Off				
I-KET PW DWN	UNLOCK button of Intelligent Key is pressed and held	On				
LICEN DANIO	PANIC button of Intelligent Key is not pressed	Off				
-KEY PANIC	PANIC button of Intelligent Key is pressed	On				
	Return to ignition switch to "LOCK" position	Off				
PUSH SW	Press ignition switch	On				
	When back door opener switch is not pressed	Off				
TRNK OPNR SW	When back door opener switch is pressed	On				
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off				

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status			
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off			
	Open the hood	On			
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off			
	Ignition switch ON	On			
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire			
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire			
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire			
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire			
ID REGST FL1	ID of front LH tire transmitter is registered	Done			
ID REGGI FLI	ID of front LH tire transmitter is not registered	Yet			
ID REGST FR1	ID of front RH tire transmitter is registered	Done			
ID REGGI FRI	ID of front RH tire transmitter is not registered	Yet			
ID REGST RR1	ID of rear RH tire transmitter is registered	Done			
ID REGGI KKI	ID of rear RH tire transmitter is not registered	Yet			
ID REGST RL1	ID of rear LH tire transmitter is registered	Done			
ID REGGI KLI	ID of rear LH tire transmitter is not registered	Yet			
WARNING LAMP	Tire pressure indicator OFF	Off			
WARNING LAWF	Tire pressure indicator ON	On			
BUZZER	Tire pressure warning alarm is not sounding	Off			
DULLER	Tire pressure warning alarm is sounding	On			

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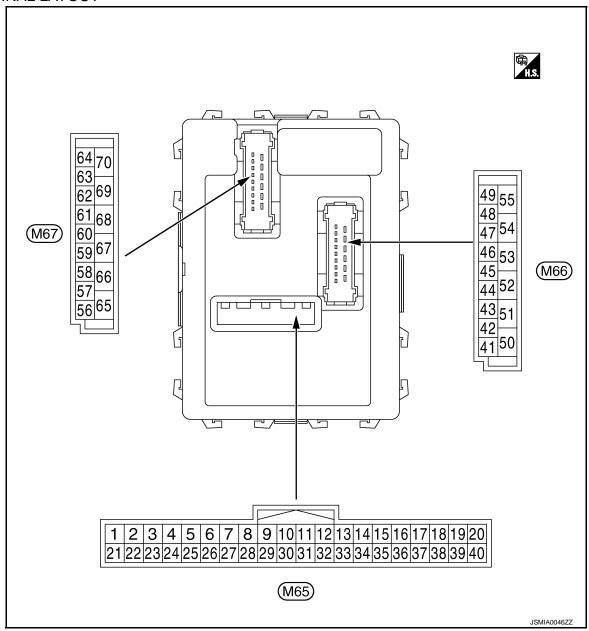
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TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

 Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.

Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-27, "COMB SW: CONSULT-III Function (BCM - COMB SW)".

• BCM reads the status of the combination switch at 10 ms internal normally. Refer to <u>BCS-9, "System Diagram"</u>.

Terminal No.		Description				Value		
(Wire	color)	Signal name	Input/		Condition	(Approx.)		
+	_	Signarname	Output					
1	Ground Ignition key hole illu-		Output	Ignition key hole	OFF	Battery voltage		
(V)	Giodila	mination control Output		illumination	ON	0 V		

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value		
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)		
2	Ground	Combination switch Input (Minor intermit			All switch OFF Turn signal switch RH Lighting switch HI Lighting switch 1ST	0 V (V) 15 10 5 0 PKIB4959J 1.0 V		
(G)	Clound	INPUT 5	три	(Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 PKIB4953J 2.0 V		
					All switch OFF	0 V		
		Combination switch INPUT 4			Turn signal switch LH			
				Combination switch	Lighting switch PASS	(V) 15		
3 (Y)	Ground		Input		Lighting switch 2ND	10 5 0 → +10ms PKIB4959J 1.0 V		
(')		IIVI 01 4		(Wiper intermittent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 +10ms PKIB4955J 0.8 V		
					All switch OFF	0 V		
					Lighting switch AUTO			
					Front wiper switch LO	(V) 15		
4 (W)	Ground	d Combination switch INPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch MIST	15 10 5 0		
					Front wiper switch INT	PKIB4959J		

< ECU DIAGNOSIS INFORMATION >

Terminal No. Description (Wire color)			0 100	Value					
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)			
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	All switch OFF (Wiper intermittent dial 4) Front washer switch (Wiper intermittent dial 4) Rear washer ON (Wiper intermittent dial 4) Any of the condition below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	0 V (V) 15 10 5 0 PKIB4959J 1.0 V			
						Rear wiper switch (Wiper intermittent		(V) 15 10 5 0 10ms PKIB4955J 0.8 V	
					All switch OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Wiper intermittent dial 3 (All switch OFF)	0 V (V) 15 10 5 0 → +10ms PKIB4959J 1.0 V			
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	(V) 15 0 5 0 PKIB4952J 1.7 V			
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 10ms PKIB4955J 0.8 V			

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V
					UNLOCK position	0 V
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) ₁₅ 10 5 0 +-10ms JPMIA0587GB 8.0 - 8.5 V
					LOCK position	0 V
9	Ground	Stop lamp switch	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(R)	Ground	Clop lamp switch	прис	switch	ON (Brake pedal is depressed)	Battery voltage
10	Ground	Rear window defog-	Input	Rear window	Not pressed	Battery voltage
(SB)		ger switch		defogger switch	Pressed	0 V
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch O		0 V Battery voltage
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0586GB 7.5 - 8.0 V
					ON (When passenger door opened)	0 V
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0587GB 8.0 - 8.5 V
					ON (When rear door RH opened)	0 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	^
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
14	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V	В
(G)	Cround	Option soriooi	mpat	ON	When dark outside of the vehicle	Close to 0 V	
17 (W)	Ground	Optical sensor pow- er supply	Output	Ignition switch	OFF, ACC	0 V 5 V	С
18 [*] (O)	Ground	Remote keyless entry receiver ground	Input	Ignition switch O		0 V	D
				Without Intelligent Key system	At any condition	5 V	Е
19 [*] (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent Key system	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V	F
				ney dydieni	3 seconds or later after ignition switch OFF to ON	5 V	
				Without Intelligent Key system	At any condition	(V) 15 10 5 0 JPMIA0589GB NOTE: The wave form changes accord-	G H
20 [*] (GR)	Ground	Remote keyless en- try receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	ing to signal-receiving condition. 0 V	SE
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) 15 10 5 0 PMIA0589GB	L
21	Ground	NATS antenna amp.	Input/	lust after inserting	ng ignition key in key cylinder	NOTE: The wave form changes according to signal-receiving condition. Pointer of tester should move	Ν
(G)	Siound	Twiti o amerina amp.	Output	Just alter moeitm	ON	0 V	C
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) 15 10 5 0 JPMIA0590GB 12.0 V	F
					OFF	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
25 (BR)	Ground	NATS antenna amp.	Input/ Output	Just after insertir	ng ignition key in key cylinder	Pointer of tester should move
				Ignition switch C	FF	
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) 15 10 5 0 **10ms JPMIA0591GB
					A/C switch ON	0 V
				Ignition switch C	FF	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0 ***-10ms JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(W)	Cround	Tiazara owitori	mpat	riazara switori	ON	0 V
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage
(G)		switch		opener switch	Pressed	0 V
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V)
					Rear wiper switch ON (Wiper intermittent dial 4)	10
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	5 0 ++10ms PKIB4956J 1.0 V

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

	nal No.	Description				Value	
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)		
				owner.	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10	
					Rear wiper switch INT (Wiper intermittent dial 4)	5	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	PKIB4958J 1.2 V	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)		
` '					Lighting switch HI (Wiper intermittent dial 4)	(V) 15	
					Rear washer switch ON (Wiper intermittent dial 4)	0	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J	

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description	1			Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
35	Occupation	Combination switch	0.4.4	Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
(B)	Ground	OUTPUT 2	Output	(Wiper intermit-	Lighting switch 2ND	
				tent dial 4)	Lighting switch PASS	(V) 15
					Front wiper switch INT	10
					Front wiper switch HI	0 → +10ms PKIB4958J 1.2 V
36	Ground	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V
(V)	Ground	OUTPUT 1	Carpar	(Wiper intermit- tent dial 4)	Turn signal switch RH	W
					Turn signal switch LH	(V) 15 10
					Front wiper switch LO (Front wiper switch MIST)	5 0
					Front washer switch ON	→ +10ms PKIB4958J
37				Insert mechanica	l key into ignition key cylin-	Battery voltage
(LG)	Ground	Key switch	Input	Remove mechar cylinder	nical key from ignition key	0 V
38	Ground	Ignition switch ON	Input	Ignition switch O	FF or ACC	0 V
(G)	Giouna	Igrillion Switch ON	прис	Ignition switch O	N or START	Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output		_	_

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

	inal No. e color)	Description			O a a little a	Value
+	- COIOI)	Signal name	Input/ Output		Condition	(Approx.)
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0593GB 9.5 - 10.0 V
					ON (When back door opened)	0 V
44				Ignition switch	Rear wiper stop position	0 V
(B)	Ground	Rear wiper auto stop	Input	ON SWILCT	Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 ++10ms JPMIA0591GB 1.6 V
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 ***10ms JPMIA0591GB 1.6 V
					UNLOCK position	0 V
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) ₁₅ 10 5 0 **10ms JPMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V

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< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) ₁₅ 10 5 0 ***10ms JPMIA0594GB 8.5 - 9.0 V
					ON (When rear door LH opened)	0 V
49	One we d	Luggage room lamp	Outrot	Luggage room	Back door is closed (Luggage room lamp turns OFF)	Battery voltage
(L)	Ground	control	Output	lamp switch DOOR position	Back door is opened (Luggage room lamp turns ON)	0 V
53	Cround	Doels door on or	Outroit	Back door	Not pressed (Back door actuator is activated)	0 V
(V)	Ground	Back door open	Output	opener switch	Pressed (Back door actuator is activated)	Battery voltage
55	Cround	Door winer meter	Output	Ignition switch	Rear wiper switch OFF	0 V
(SB)	Ground	Rear wiper motor	Output	ON	Rear wiper switch ON	Battery voltage
56	Ground	Interior room lamp	Output	After passing the saver operation to	interior room lamp battery time	0 V
(Y)	0.000	power supply	Carpar		ter passing the interior room er operation time	Battery voltage
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Ground	LOCK	Output	Driver door	Other then UNLOCK (Actuator is not activated)	0 V
					Turn signal switch OFF	0 V
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 PKIC6370E 6.0 V

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

	inal No.	Description	_			Value	A
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					Turn signal switch OFF	0 V	В
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s 1s PKIC6370E 6.0 V	C
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage	Е
(R)	Giouna	timer control	Output	lamp	ON	0 V	
65	Ground	All doors LOCK	Quitnut	All doors	LOCK (Actuator is activated)	Battery voltage	F
(V)	Giouna	All doors LOCK	Output	All doors	Other then LOCK (Actuator is not activated)	0 V	
66	Ground	Passenger door and	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage	G
(G)	Giouna	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V	Н
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V	
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch O	N	Battery voltage	I
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch O	FF	Battery voltage	1
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	J

^{*:} Except for Mexico with Intelligent Key

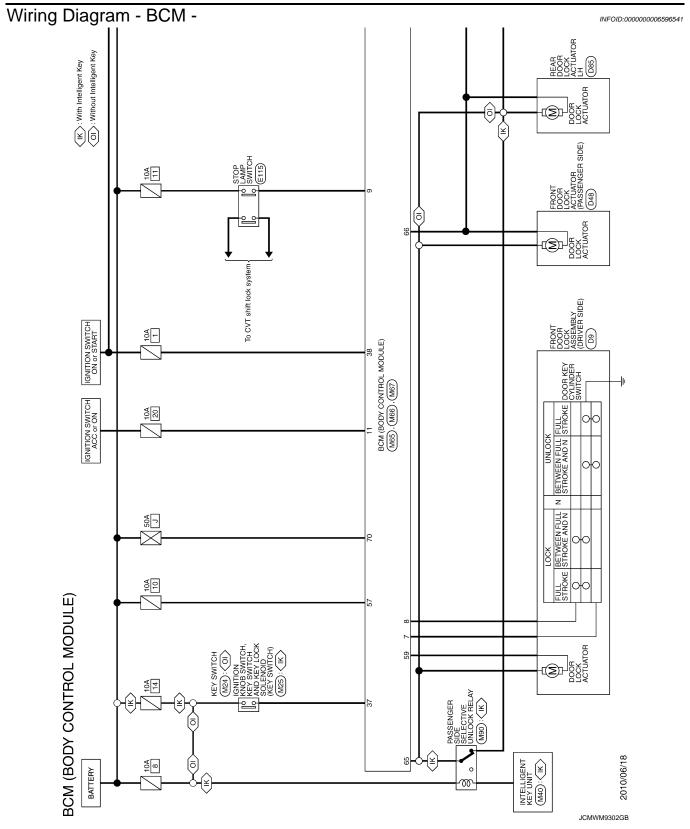
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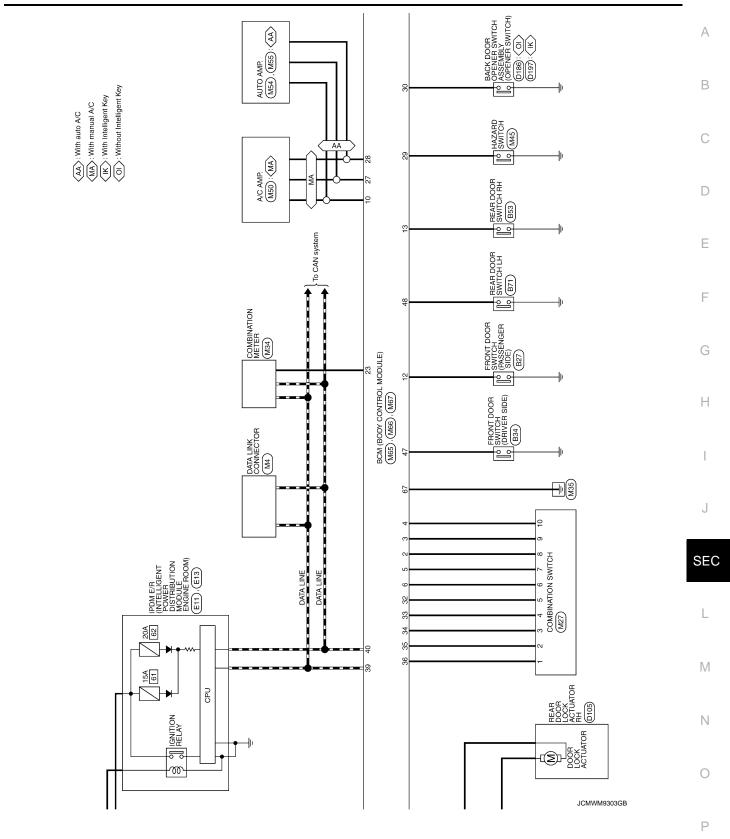
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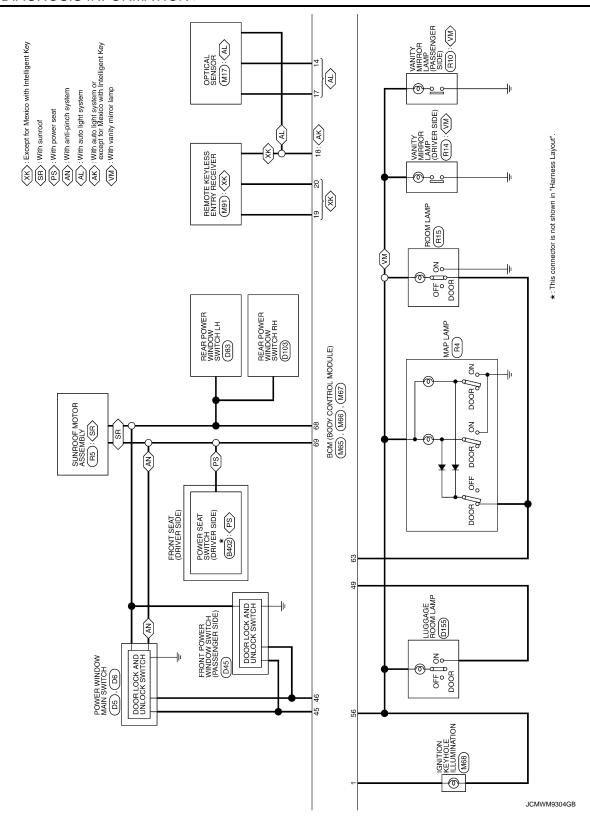
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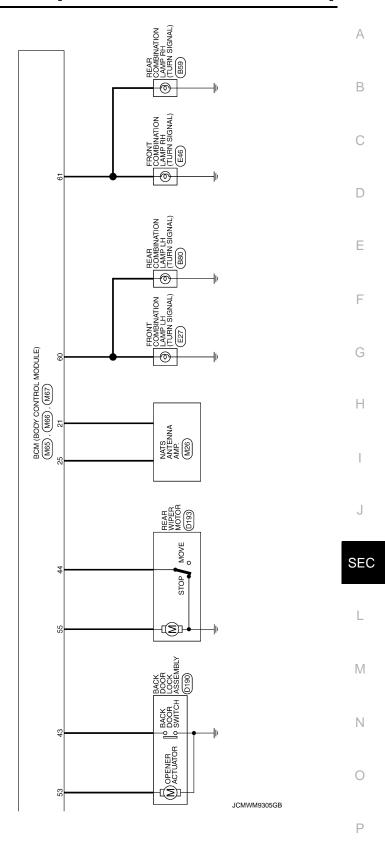
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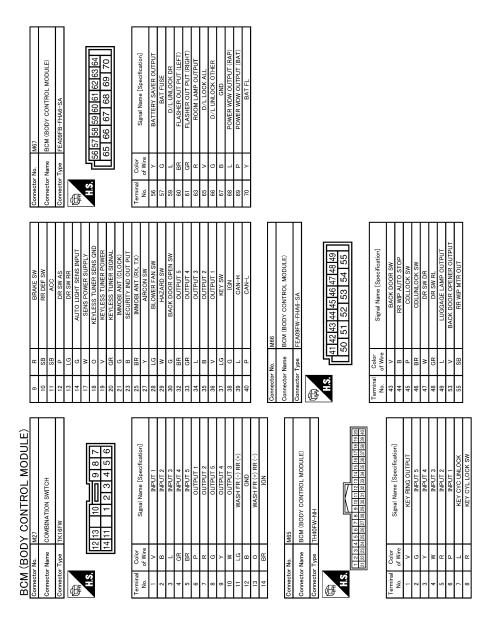
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JCMWM9306GB

INFOID:0000000006596542

Fail-safe

REAR WIPER MOTOR PROTECTION

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

Condition of cancellation

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- 1. Pass more than 1 minute after the rear wiper stop.
- 2. Turn the rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1711: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RL C1729: VHCL SPEED SIG ERR

DTC Index

NOTE:

Details of time display

CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.

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

CONSULT display	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	SEC-157
C1704: LOW PRESSURE FL	×	
C1705: LOW PRESSURE FR	×	\\/T_12
C1706: LOW PRESSURE RR	×	<u>WT-13</u>
C1707: LOW PRESSURE RL	×	
C1708: [NO DATA] FL	×	
C1709: [NO DATA] FR	×	WT-15
C1710: [NO DATA] RR	×	<u>vv 1-15</u>
C1711: [NO DATA] RL	×	
C1716: [PRESS DATA ERR] FL	×	
C1717: [PRESS DATA ERR] FR	×	WT-18
C1718: [PRESS DATA ERR] RR	×	<u>vv 1-10</u>
C1719: [PRESS DATA ERR] RL	×	
C1729: VHCL SPEED SIG ERR	×	<u>WT-20</u>
C1735: IGN CIRCUIT OPEN	_	BCS-35

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< ECU DIAGNOSIS INFORMATION >

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

Reference Value INFOID:0000000006596545

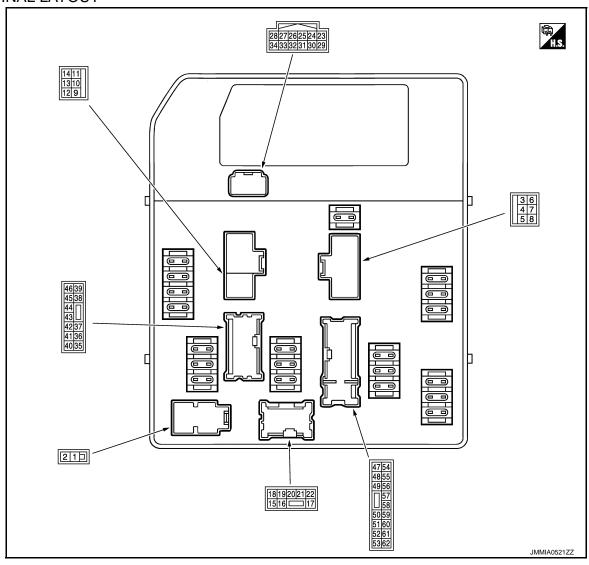
VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	1 - 4
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL&CLR REQ	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST or 2NI	0	On
ULLO BEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND		On
	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI (Light is	illuminated)	On
FR FOG REQ		Front fog lamp switch OFF	Off
NOTE: This item is monitored only on the vehicle with front fog lamp.	Lighting switch 2ND	Front fog lamp switch ON	On
		Front wiper switch OFF	Stop
ED MID DEO	Ignition switch ON	Front wiper switch INT	1LOW
FR WIP REQ		Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
WIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK
ST RLY REQ NOTE:	When Intelligent Key is our is pushed	tside the vehicle, and the push switch	Off
Vehicle without Intelligent Key system indicates only "ON", and it does not change.	When Intelligent Key is ins pushed	ide the vehicle, and the push switch is	On
IGN RLY	Ignition switch OFF or ACC		Off
ION ILI	Ignition switch ON		On
		Rear window defogger switch OFF	Off
RR DEF REQ	Ignition switch ON	Rear window defogger switch ON (Rear window defogger is operating)	On
OIL D CW	Ignition switch OFF, ACC or engine running Ignition switch ON		Open
OIL P SW			Close
DTRL REQ	Daytime running light syste	em is not operated.	Off
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light syste	em is operated.	On

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) < ECU DIAGNOSIS INFORMATION > [WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
HOOD SW NOTE:	Close the hood	Off
This item is monitored only the vehicle for Mexico.	Open the hood	On
	Not operation	Off
THFT HRN REQ	Horn is activated with vehicle security system or panic alarm system.	On
HORN CHIRP	Not operation	Off
HORN CHIRF	Horn is activated with key fob LOCK operation.	On

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No.	Description			Value (Approx.)
(Wire color)		Signal name	Input/	Condition	
+	_	Oiginal Haine	Output		
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (G)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage

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< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output	Condition		(Approx.)
3	Cround	Ctortor roles, nouser assembly	Outsut	When engine is clanking		Battery voltage
(O)	Ground	Starter relay power supply	Output	When engine is not clanking		0 V
4	Cround	Cooling fan relay-1 power	0.1.1	Cooling fan opera-	OFF	0 V
(W)	Ground	supply	Output	tion	MID or HI	Battery voltage
5	Ground	Ignition switch START	Input	Ignition switch OFF,	ACC or ON	0 V
(R)	Ground	Ignition switch STAICI	iliput	Ignition switch STAF	RT	Battery voltage
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7	Ground	Cooling fan motor-2 (HI)	_	Cooling fan opera-	OFF	Battery voltage
(P)	Orodria	ground		tion	HI	0 V
8	Ground	Cooling fan relay-2 power	Output	Cooling fan opera-	OFF	0 V
(G)	Oround	supply	Output	tion	HI	Battery voltage
11 (B)	Ground	Ground	_	Ignition switch ON		0 V
12	Ground	Rear window defogger re- lay power supply	Output	Ignition switch ON	Rear window defogger switch OFF	0 V
(O)	Ground				Rear window defogger switch ON	Battery voltage
15 ^{*1}	Ground	Daytime running light relay control	Output	Daytime running light system	Not operated	Battery voltage
(SB)	Ground		Output		Operated	0 V
16 ^{*2}	Ground	Front fog lamp (LH)	Output	Lighting switch 2ND	Front fog lamp switch OFF	0 V
(Y)					Front fog lamp switch ON	Battery voltage
17 ^{*2}	Ground	Front fog lamp (RH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(W)	0.00	· · · · · · · · · · · · · · · · · · ·		2ND	Front fog lamp switch ON	Battery voltage
18	Ground	Headlamp LO (LH)	Output	Lighting switch OFF		0 V
(L)		, ,		Lighting switch 2ND		Battery voltage
20	Ground	d Headlamp LO (RH)	Output	Lighting switch OFF		0 V
(SB)				Lighting switch 2ND		Battery voltage
		Headlamp HI (LH)	Output	Lighting switch OFF		0 V
21 (G)	Ground			Lighting switch 2ND and HI Lighting switch PASS		Battery voltage
				Daytime running light system Operated*1		7.0 V
	Ground	Headlamp HI (RH)	Output	Lighting switch OFF		0 V
22 (LG)				Lighting switch 2ND and HI Lighting switch PASS		Battery voltage
				Daytime running light system Operated*1		7.0 V
23	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped	0 V
(W)					Engine running	Battery voltage
24					Front wiper stop position	0 V
24 (Y)	Ground	Front wiper auto stop	Input	Ignition switch ON Any position other than front wiper stop position		Battery voltage
25 (B)	Ground	Ground	_	Ignition switch ON		0 V
26 (P)	_	CAN-L	Input/ Output		_	_

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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value
+	- COIOT)	Signal name	Input/ Output	Condition		(Approx.)
27 (L)	_	CAN-H	Input/ Output		_	_
31 (LG)	Ground	Cooling fan relay-4 control	Output	Cooling fan operation	OFF LO	Battery voltage 0 - 1.0 V
		und Throttle control motor relay control	Input	After passing approximately 2 seconds or more after turning the ignition switch from ON to OFF		Battery voltage
32 (V)	Ground			Ignition switch ON For approximately tion switch from O	2 seconds after turning igni-	0 - 1.0 V
				Ignition switch OFF		0 V
33 (GR)	Ground	Fuel pump relay control	Input		Engine stopped	Battery voltage
(GK)				Ignition switch ON	Engine running	0.8 V
34 ^{*3}				Close the hood	1	Battery voltage
(W)	Ground	Hood switch	Input	Open the hood		0 V
37		Tail, license plate lamps		Lighting switch OFF		0 V
(R)	Ground	and illuminations	Output	Lighting switch 1ST		Battery voltage
38		Parking lamp (LH)	Output	Lighting switch OFF		0 V
(R)	Ground			Lighting switch 1ST		Battery voltage
39		5 1. 1 25		Lighting switch OFF		0 V
(GR)	Ground	Parking lamp (RH)	Output	Lighting switch 1ST		Battery voltage
40		Ignition relay power supply	Output	Ignition switch OFF	Ignition switch OFF or ACC	
(BR)	Ground			Ignition switch ON		Battery voltage
41				Ignition switch OFF	Ignition switch OFF or ACC	
(O)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
42			<u> </u>		Front wiper switch OFF	0 V
(L)	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch HI	Battery voltage
43					Front wiper switch OFF	0 V
(G)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch LO	Battery voltage
4-					Selector lever "P" or "N"	Battery voltage
45 (Y)	Ground	Starter relay power supply	Input	Ignition switch ON	Selector lever in any position other than "P" or "N"	0 V
46	Ground	Fuel pump relay power supply	Output	Ignition switch OFF or ACC After passing approximately 1 second or more after turning the ignition switch ON		0 V
(W)	Ground			For approximately 1 second after turning the ignition switch ON Engine running		Battery voltage
47	Ground	ECM relay power supply		After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
(BR)			Output	Ignition switch ON For approximately tion switch from O	4 seconds after turning igni-	Battery voltage
48	Ground	d ECM relay power supply	Output		kimately 4 seconds or more tion switch from ON to OFF	0 V
(R)				Ignition switch ON For approximately 4 seconds after turning ignition switch from ON to OFF		Battery voltage

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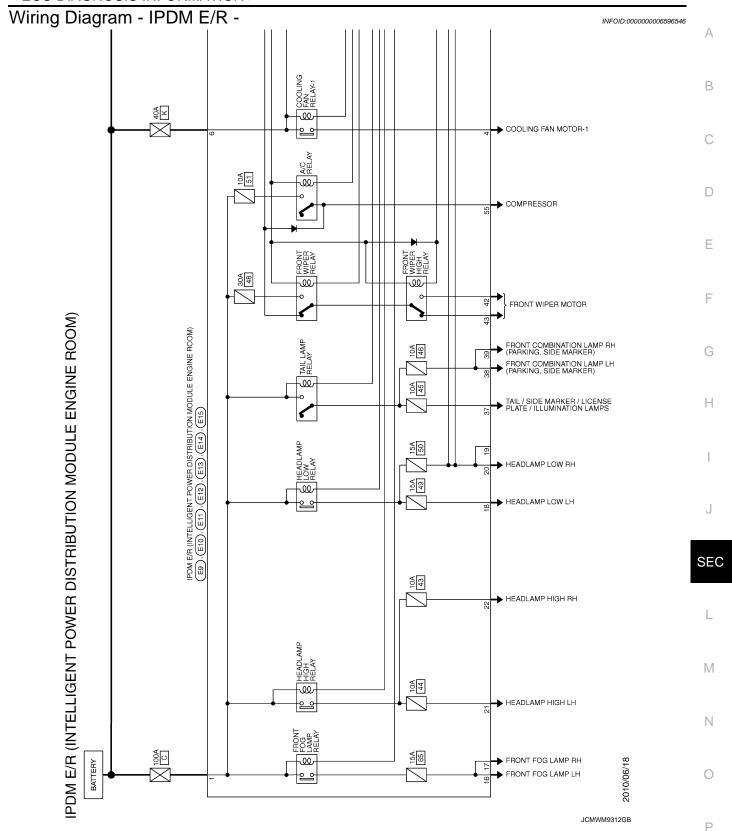
Terminal No. (Wire color)		Description				Value										
+ (vvire	- COIOT)	Signal name	Input/ Output	Condition		(Approx.)										
50	Crawad	Cooling for roles E control	Outnut	Cooling fan opera-	OFF	Battery voltage										
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V										
51				After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		Battery voltage										
(L)	Ground ECM relay control Output Ignition switch ON For approximately 4 seconds after t tion switch from ON to OFF		4 seconds after turning igni-	0 - 1.0 V												
52		und Throttle control motor re- lay power supply	Output	After passing approximately 2 seconds or more after turning the ignition switch from ON to OFF		0 V										
(P)	Ground			Ignition switch ON For approximately 2 seconds after turning ignition switch from ON to OFF		Battery voltage										
	Ground	A/C relay power supply	Output	Engine stopped		0 V										
55					A/C switch OFF	0 V										
(O)				Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output	Output
56	Ground	Ignition switch ON	Input	Ignition switch OFF	or ACC	0 V										
(SB)	Giodila	Igrition switch ON	iliput	Ignition switch ON		Battery voltage										
57	Ground	Horn relay control	Output	The horn is not active	vated	Battery voltage										
(V)	Orodria	Tiom relay control	Output	The horn is activated	d	0 V										
58	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V										
(LG)	Ground	ignition roley power supply	Catpat	Ignition switch ON		Battery voltage										
59	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V										
(BR)				Ignition switch ON		Battery voltage										
60	Ground	Ignition relay power supply	Output	Ignition switch OFF	or ACC	0 V										
(SB)	2.53.74	.g	20.500	Ignition switch ON		Battery voltage										
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage										

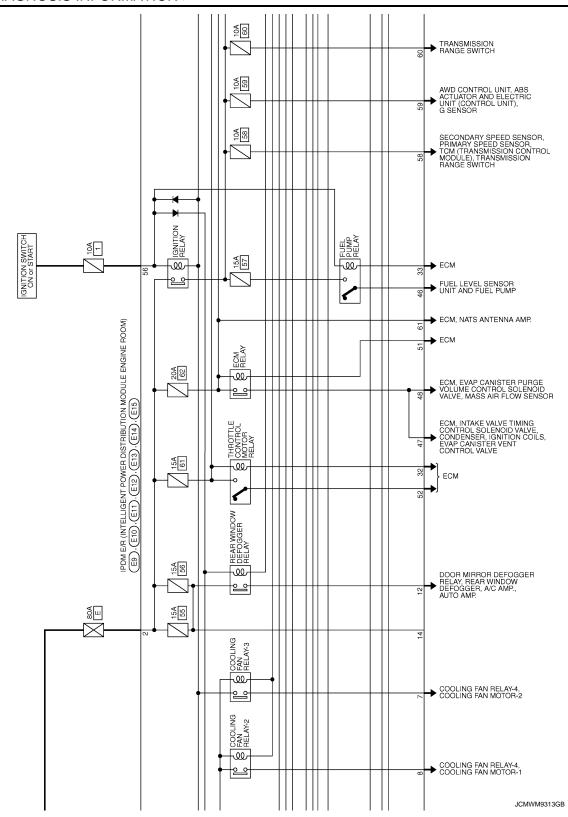
^{*1:} With daytime running light system

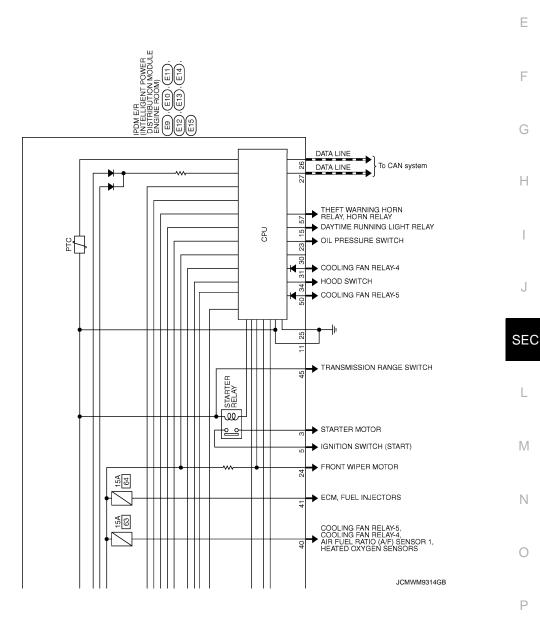
^{*2:} With front fog lamp system

^{*3:} For Mexico

< ECU DIAGNOSIS INFORMATION >







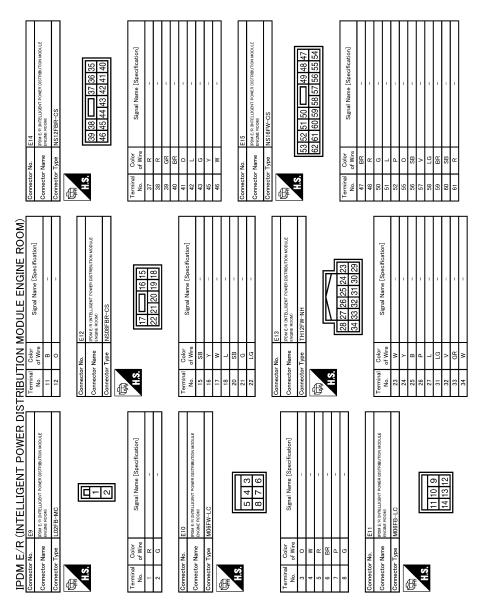
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Fail-safe INFOID:0000000006596547

JCMWM9315GB

CAN COMMUNICATION CONTROL

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

If no CAN communication is available with ECM

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe in operation	
Cooling fan	 The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn ON when the ignition switch is turned ON The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn OFF when the ignition switch is turned OFF Cooling fan relay-4 OFF 	
A/C compressor	A/C relay OFF	

If no CAN communication is available with BCM

Control part	Fail-safe in operation
Headlamp	 The headlamp low relay turns ON when the ignition switch is turned ON The headlamp low relay turns OFF when the ignition switch is turned OFF Headlamp high relay OFF
Parking lampsLicense plate lampsTail lampsIlluminations	 The tail lamp relay and the daytime running light relay* turn ON when the ignition switch is turned ON The tail lamp relay and the daytime running light relay* turn OFF when the ignition switch is turned OFF
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The front wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating.
Front fog lamps	Front fog lamp relay OFF
Starter motor	Starter relay OFF
Rear window defogger	Rear window defogger relay OFF
Horn	Horn relay OFF

NOTE:

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors status of ignition relay by the voltage at ignition relay contact circuit inside it.
- IPDM E/R judges that the ignition relay is error, if status of the ignition relay and ignition switch ON signal
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay and daytime running light relay* for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Detection		IPDM E/R judgment	Operation	
Ignition switch ON signal	Ignition relay	- IPDIVI E/K juaginient	Operation	
ON	ON	Ignition relay normal	_	
OFF	OFF	Ignition relay normal	_	
OFF	ON	Ignition relay ON stuck	Turn on the tail lamp relay and daytime running light relay* for 10 minutes	
ON	OFF	Ignition relay OFF stuck	Detect DTC "B2099: IGN RELAY OFF"	

NOTE:

FRONT WIPER CONTROL

IPDM E/R detects the front wiper stop position with the front wiper stop position signal.

When the front wiper stop position signal is in the conditions listed below, IPDM E/R repeats a front wiper 10 seconds operation and 20 seconds stop five times.

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^{*:} With daytime running light system

^{*:} With daytime running light system

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

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

NOTE:

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

DTC Index INFOID:0000000006596548

CONSULT display	Fail-safe	Timin	g ^{NOTE}	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	PAST	<u>SEC-157</u>
B2099: IGN RELAY OFF	_	CRNT	PAST	PCS-14

NOTE:

The details of time display are as follows.

- CRNT: The malfunctions that are detected now.
- PAST: The number is indicated when it is normal at present and a malfunction was detected in the past.

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SECURITY CONTROL SYSTEM

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SYMPTOM DIAGNOSIS

SECURITY CONTROL SYSTEM

Symptom Table

Function	Operation condition	Symptom	Reference page
VEHICLE SECURITY SYSTEM	Lock all doors with key fob	Vehicle security system can not be set	SEC-223
	Ignition switch turn OFF	Security indicator does not turn ON or flash	SEC-222
	In the armed phase, open the door	Vehicle security alarm does not activate	SEC-224
	When alarm sound, press key fob button	Vehicle security system can not be canceled	SEC-225

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SECURITY INDICATOR DOES NOT TURN ON OR FLASH

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SECURITY INDICATOR DOES NOT TURN ON OR FLASH

Description INFOID:0000000000202516

NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow".

Diagnosis Procedure

INFOID:0000000006202517

1. CHECK VEHICLE SECURITY INDICATOR

Check vehicle security indicator.

Refer to SEC-172, "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 CAN NOT BE SET

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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VEHICLE SECURITY SYSTEM CAN NOT BE SET Α Description INFOID:0000000006202518 NOTE: В • Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow". Diagnosis Procedure INFOID:0000000006202519 1. CHECK DOOR LOCK FUNCTION Check door lock function. D Refer to DLK-278, "System Description". s the inspection result normal? YES >> GO TO 2. Е NO >> Refer to DLK-274, "Work Flow". 2.CONFIRM THE OPERATION Confirm the operation again. F Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". NO >> GO TO 1. Н J SEC M Ν

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VEHICLE SECURITY ALARM DOES NOT ACTIVATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY ALARM DOES NOT ACTIVATE

Description INFOID.000000006202520

NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow".

Diagnosis Procedure

INFOID:0000000006202521

1. CHECK DOOR SWITCH

Check door switch.

Refer to SEC-167, "Component Function Check".

Is the inspection results normal?

YES >> GO TO 2.

NO >> Repair or replace malfunction part.

2.check horn

Check horn.

Refer to SEC-171, "Component Function Check".

Is the inspection results normal?

YES >> GO TO 3.

NO >> Repair or replace malfunction part.

3.CHECK HEADLAMP OPERATION

Check headlamp operation by lighting switch.

Does headlamp come on when turning switch ON?

YES >> GO TO 4.

NO >> Check headlamp system. Refer to <u>EXL-6. "Work Flow"</u>. (XENON type), Refer to <u>EXL-146. "Work Flow"</u>. (HALOGEN type)

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.

VEHICLE SECURITY SYSTEM CAN NOT CANCELED

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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VEHICLE SECURITY SYSTEM CAN NOT CANCELED Α Description INFOID:0000000006202522 NOTE: В • Before performing the diagnosis, check "Work Flow". Refer to SEC-142, "Work Flow". Diagnosis Procedure INFOID:0000000006202523 C 1. CHECK MULTI REMOTE CONTROL SYSTEM Check multi remote control system. D Refer to DLK-283, "System Description". Is the inspection result normal? YFS >> GO TO 2. Е NO >> Check Work Flow. Refer to DLK-274, "Work Flow". 2.CONFIRM THE OPERATION Confirm the operation again. F Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". NO >> GO TO 1. Н J SEC M Ν

Revision: 2010 July SEC-225 2011 Rogue

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

WARNING:

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

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

WARNING:

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

FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see "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:

• 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

PRECAUTIONS

< PRECAUTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.

• When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

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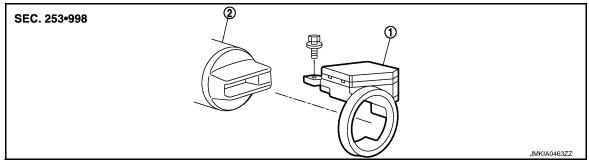
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REMOVAL AND INSTALLATION

NATS ANTENNA AMP.

Exploded View

INFOID:0000000006202526



1. NATS antenna amp.

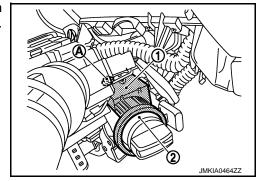
2. Steering lock assembly

Removal and Installation

INFOID:0000000006202527

REMOVAL

- Remove the steering column cover. Refer to <u>IP-14</u>, "<u>Removal and Installation</u>".
- 2. Remove the NATS antenna amp. mounting screw (A), and then remove NATS antenna amp. (1) from steering lock assembly (2).



INSTALLATION

Install in the reverse order of removal.