# SECURITY CONTROL SYSTEM

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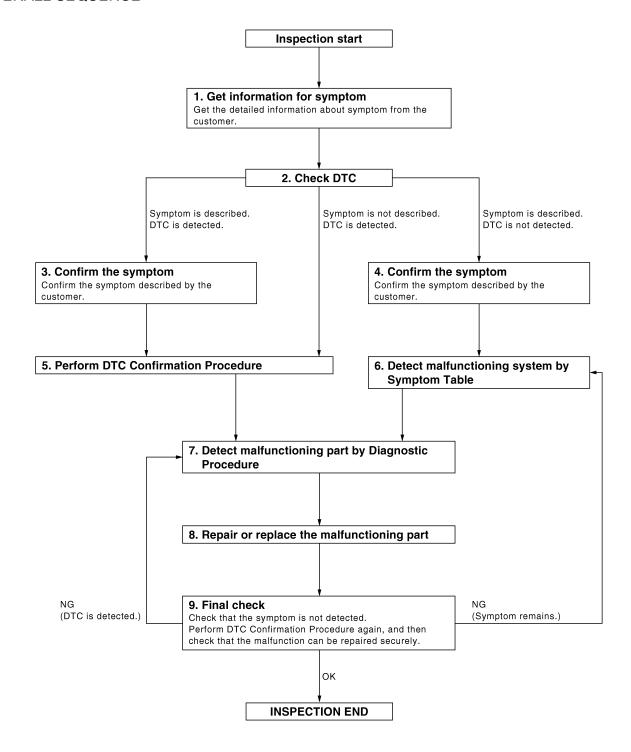
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## **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORKFLOW

Work Flow (INFOID:000000001911187)

#### **OVERALL SEQUENCE**



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#### DIAGNOSIS AND REPAIR WORKFLOW

< 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-125, "DTC Inspection Priority Chart" (Intelligent Key unit) SEC-98, "DTC Inspection Priority Chart" (BCM) and determine trouble diagnosis order.

#### Is DTC detected?

YES >> GO TO 7.

>> Refer to GI-41, "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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SEC-7 Revision: 2008 January 2008 Rogue

## **DIAGNOSIS AND REPAIR WORKFLOW**

< 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**

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

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## INSPECTION AND ADJUSTMENT Α ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description INFOID:000000001911188 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:0000000001911189 D Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS. ECM RE-COMMUNICATING FUNCTION Е ECM RE-COMMUNICATING FUNCTION: Description INFOID:0000000001911190 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:0000000001911191 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". 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

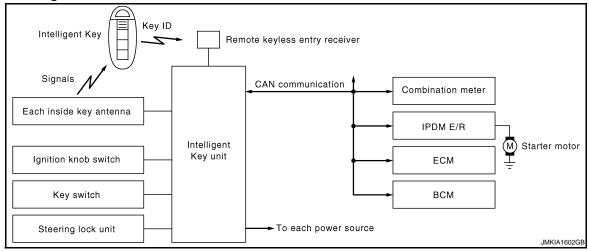
SEC-9 Revision: 2008 January 2008 Rogue

## **FUNCTION DIAGNOSIS**

## INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

System Diagram

INFOID:0000000001911192



## System Description

INFOID:0000000001911193

#### INPUT/OUTPUT SIGNAL CHART

Intelligent Key Unit

	Switch/Input signal	Input signal to Intelligent Key unit	Intelligent Key unit function	Actuator/Output signal	
	Key switch	Mechanical key (insert/remove)		KEY warning lamp/buzzer	
	Ignition knob switch	Ignition knob (press/release)	Engine start function	Steering lock unit     Starter relay request (to IPDM E/	
	Steering lock unit	Steering lock (lock/unlock)		R)     Inside key antenna     (Instrument center, console, rear	
	Inside key antenna (Instrument center, console, rear seat)	Intelligent Key (inside antenna detection area or not.)		seat)	
IPE	DM E/R				
	Switch/Input signal	Input signal to IPDM E/R	IPDM E/R function	Actuator/Output signal	
	Park/neutral position switch	P, N range	Engine start function	Starter relay     Starter motor	
ВС	M				
	Switch/Input signal	Input signal to BCM	BCM function	Actuator/Output signal	
	Key switch	Mechanical key (insert/remove)	Engine start function	Inside key antenna (Instrument center, console, 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 SYSTEM/ENGINE START FUNCTION

#### < FUNCTION DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- 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.
- 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>DLK-19</u>, "<u>INTELLIGENT KEY</u>: <u>System Description</u>" for any functions other than engine start function of Intelligent Key system.

#### PRECAUTIONS FOR INTELLIGENT KEY SYSTEM

• In the Intelligent Key system 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.
- 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-35</u>, "System Description")
- 5. Release of the steering lock.
- 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.
- 8. 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**

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 <u>SEC-15</u>, "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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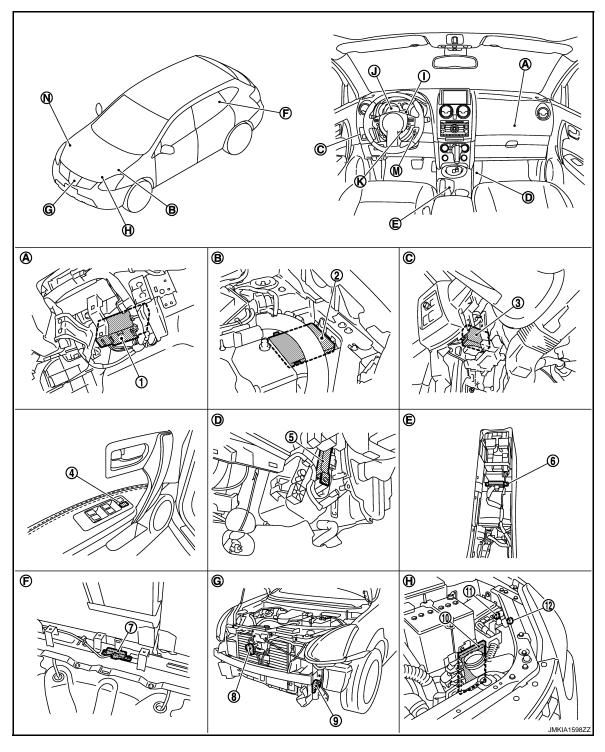
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Revision: 2008 January SEC-11 2008 Rogue

## Component Parts Location

INFOID:0000000001911194



- 1. BCM M65, M66, M67
- Door lock and unlock switch (power window main switch D5, D6)
- 7. Inside key antenna (rear seat) B45
- 10. ECM E16

- 2. IPDM E/R E10, E11, E13, E14, E15
- Inside key antenna (instrument center) M56
- 8. Horn (low) E80, E81
- 11. Horn relay E5 (except for Mexico)

- Intelligent Key unit M40
- 6. Inside key antenna (console) M252
- 9. Horn (high) E78, E79
- 12. Theft warning horn relay E70 (for Mexico)

## INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

#### < FUNCTION DIAGNOSIS >

## [WITH INTELLIGENT KEY SYSTEM]

- Over the glove box
- D. View with instrument lower cover (RH) removed
- View with front bumper removed G.
- Engine room (LH) B.

E.

- Back side of center console
- Engine room (LH)

- Over the instrument driver lower cov-
- F. View with luggage floor trim center finisher removed

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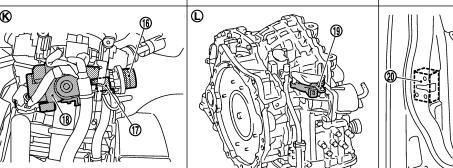
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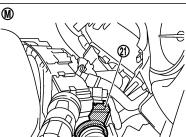
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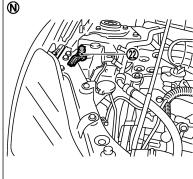


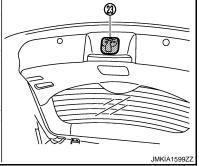
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- Combination meter M34
- 16. Ignition knob switch (Ignition knob switch, key switch and key lock solenoid M25)
- 19. Park/neutral position switch F21
- 22. Hood switch E113 (for Mexico)
- Built in combination meter Ι.
- A/T assembly

- Security indicator lamp (combination meter M34)
- Key switch 17. (Ignition knob switch, key switch and key lock solenoid M25)
- 20. Front door lock assembly (driver side)
- 23. Back door switch (back door lock assembly D190)
- Built in combination meter

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M. View with steering column cover removed

- Key warning lamp (combination meter M34)
- Steering lock unit M28 18.
- NATS antenna amp. M26
- View with steering column cover removed

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Engine room (RH)

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

# < FUNCTION DIAGNOSIS > Component Description

INFOID:0000000001911195

Component	Reference
Intelligent Key unit	<u>SEC-42</u>
BCM	BCS-7
ECM	For California: <u>EC-31</u> For USA (Fedelal) and Canada: <u>EC-506</u> For Mexico: <u>EC-934</u>
Combination meter	MWI-6
Steering lock unit	SEC-40
Ignition knob switch	<u>SEC-52</u>
Key switch	SEC-50
Inside key antenna	DLK-92
Security indicator	<u>SEC-63</u>

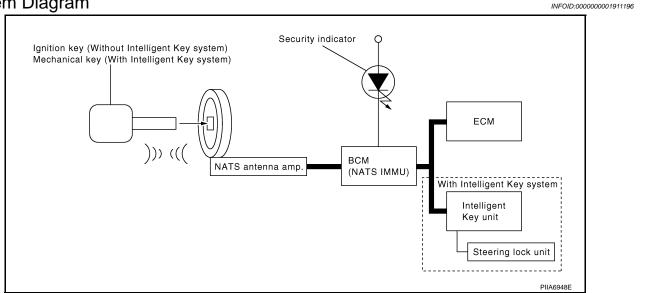
## **NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)**

< FUNCTION DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

System Diagram



## System Description

INFOID:0000000001911197

#### 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.

**SEC-15** Revision: 2008 January 2008 Rogue

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## **NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)**

#### < FUNCTION DIAGNOSIS >

[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 always blinks, when the ignition switch is in OFF 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
  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 <a href="SEC-6">SEC-6</a>, "Work Flow".
- If ECM other than Genuine NISSAN is installed, the engine cannot be started.

## **Component Parts Location**

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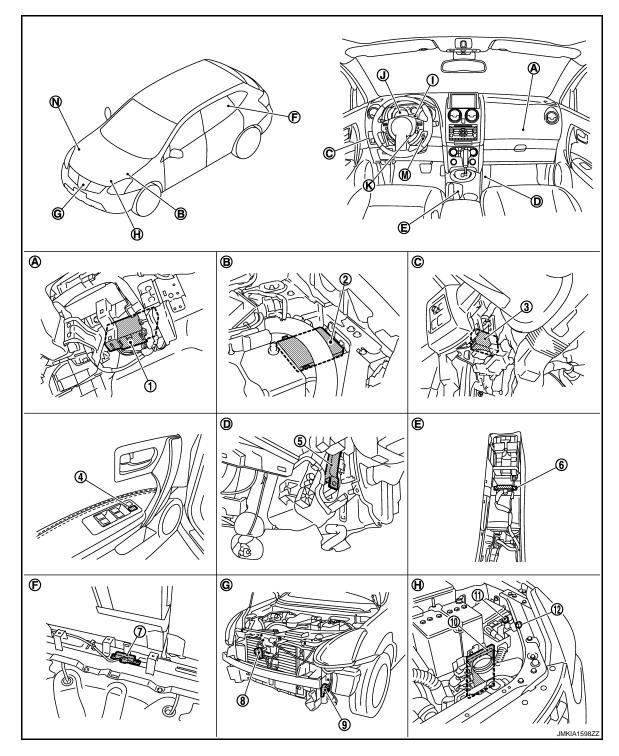
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- BCM M65, M66, M67
- 4. Door lock and unlock switch (power window main switch D5, D6)
- 7. Inside key antenna (rear seat) B45
- 10. ECM E16

- 2. IPDM E/R E10, E11, E13, E14, E15
- 5. Inside key antenna (instrument center) M56
- 3. Horn (low) E80, E81
- 11. Horn relay E5 (except for Mexico)

- Intelligent Key unit M40
- 6. Inside key antenna (console) M252
- 9. Horn (high) E78, E79
- 12. Theft warning horn relay E70 (for Mexico)

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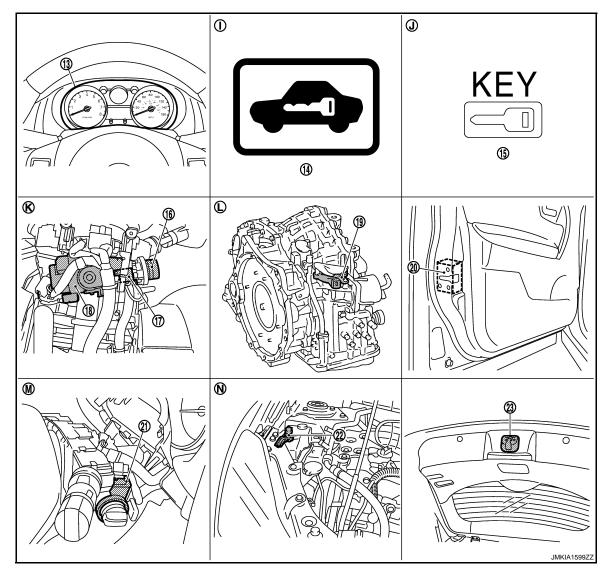
Revision: 2008 January SEC-17 2008 Rogue

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

#### < FUNCTION DIAGNOSIS >

- Over the glove box
- D. View with instrument lower cover (RH) removed
- View with front bumper removed G.
- B. Engine room (LH)
- E. Back side of center console
- Engine room (LH)

- Over the instrument driver lower cov-
- F. View with luggage floor trim center finisher removed



- 13. Combination meter M34
- 16. Ignition knob switch (Ignition knob switch, key switch and key lock solenoid M25)
- 19. Park/neutral position switch F21
- 22. Hood switch E113 (for Mexico)
- Built in combination meter
- A/T assembly

- Security indicator lamp (combination meter M34)
- Key switch 17. (Ignition knob switch, key switch and key lock solenoid M25)
- 20. Front door lock assembly (driver side) 21. NATS antenna amp. M26
- 23. Back door switch (back door lock assembly D190) Built in combination meter

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Μ. View with steering column cover re-

- 15. Key warning lamp (combination meter M34)
- 18. Steering lock unit M28
- View with steering column cover removed
- N. Engine room (RH)

## NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) | NIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

# < FUNCTION DIAGNOSIS > Component Description

#### THE TELESCENT RET STOTEM,

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Component	Reference
BCM	BCS-7
IPDM E/R	PCS-2
Steering lock unit	SEC-40
Key switch	SEC-50
Ignition knob switch	SEC-52
NATS antenna amp.	<u>SEC-37</u>
Security indicator	SEC-63
Door lock and unlock switch	DLK-61
Key cylinder switch	<u>DLK-72</u>

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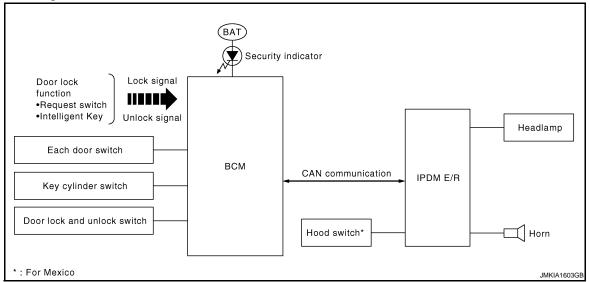
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## **VEHICLE SECURITY SYSTEM**

## System Diagram

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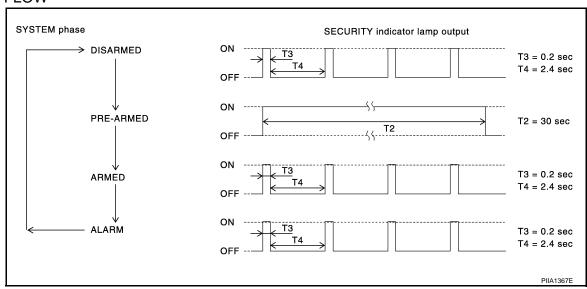
## System Description

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#### INPUT/OUTPUT SIGNAL CHART

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

#### **OPERATION FLOW**



#### SETTING THE VEHICLE SECURITY SYSTEM

**Initial Condition** 

#### VEHICLE SECURITY SYSTEM

#### < FUNCTION DIAGNOSIS >

[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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**SEC-21** 2008 Rogue Revision: 2008 January

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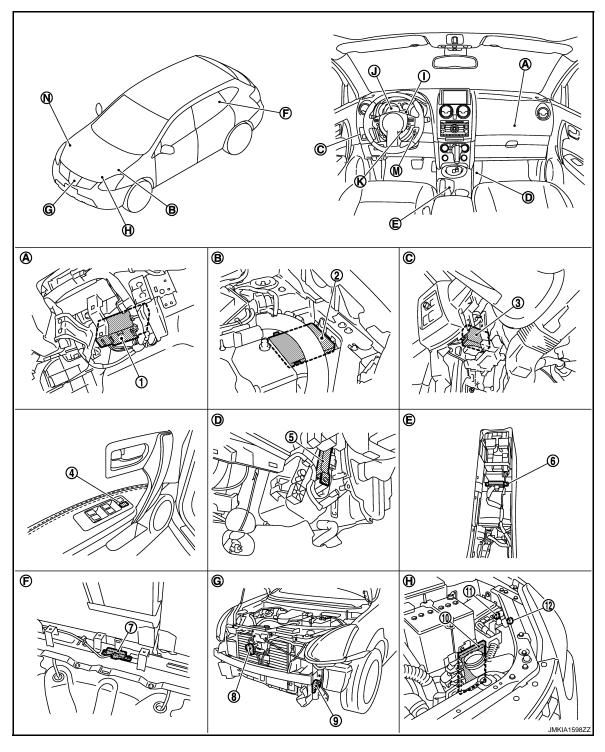
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## **Component Parts Location**

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- 1. BCM M65, M66, M67
- 4. Door lock and unlock switch (power window main switch D5, D6)
- 7. Inside key antenna (rear seat) B45
- 10. ECM E16

- 2. IPDM E/R E10, E11, E13, E14, E15
- Inside key antenna (instrument center) M56
- 8. Horn (low) E80, E81
- 11. Horn relay E5 (except for Mexico)

- Intelligent Key unit M40
- 6. Inside key antenna (console) M252
- 9. Horn (high) E78, E79
- 12. Theft warning horn relay E70 (for Mexico)

## **VEHICLE SECURITY SYSTEM**

## [WITH INTELLIGENT KEY SYSTEM]

- Over the glove box
- D. View with instrument lower cover (RH) removed
- View with front bumper removed G.
- B. Engine room (LH)
- E. Back side of center console
- Engine room (LH)

- Over the instrument driver lower cov-
- F. View with luggage floor trim center finisher removed

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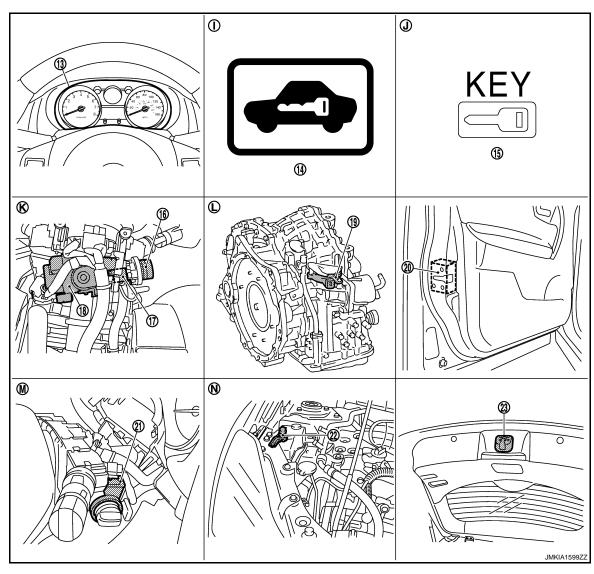
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- Combination meter M34
- 16. Ignition knob switch (Ignition knob switch, key switch and key lock solenoid M25)
- 19. Park/neutral position switch F21
- 22. Hood switch E113 (for Mexico)
- Built in combination meter Ι.
- A/T assembly

- Security indicator lamp (combination meter M34)
- Key switch 17. (Ignition knob switch, key switch and key lock solenoid M25)
- 20. Front door lock assembly (driver side)
- 23. Back door switch (back door lock assembly D190) Built in combination meter
- M. View with steering column cover re-

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View with steering column cover removed

Key warning lamp

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(combination meter M34)

NATS antenna amp. M26

Steering lock unit M28

Engine room (RH)

## **VEHICLE SECURITY SYSTEM**

< FUNCTION DIAGNOSIS >

## [WITH INTELLIGENT KEY SYSTEM]

## **Component Description**

INFOID:0000000001911203

Component	Reference
BCM	BCS-7
Horn	<u>SEC-61</u>
Hood switch	<u>SEC-54</u>
Security indicator	SEC-63
Door switch	<u>DLK-339</u>
IPDM E/R	PCS-2

## **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 Results	Displays the diagnosis results judged by BCM. Refer to SEC-98, "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	<ul> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>
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

				A. Applicable item
System	CONSULT-III	Diagnosis mode		
	sub system selection item	WORK SUPPORT	DATA MONITOR	ACTIVE TEST
_	BCM	×		
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		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
_	PTC HEATER*			

<sup>\*:</sup> This item is displayed, but is not function.

**IMMU** 

IMMU: CONSULT-III Function (BCM - IMMU)

INFOID:0000000001911205

**APPLICATION ITEM** 

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

Revision: 2008 January SEC-25 2008 Rogue

## **DIAGNOSIS SYSTEM (BCM)**

[WITH INTELLIGENT KEY SYSTEM]

## < FUNCTION DIAGNOSIS >

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:0000000001911206

#### **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.
KEYKESS 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.
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.

## **DIAGNOSIS SYSTEM (BCM)**

## < FUNCTION DIAGNOSIS >

## [WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition
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.

<sup>\*1:</sup> 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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 $<sup>^{\</sup>star 2}$ : For the vehicle equipped with remote key less entry system.

## DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< FUNCTION DIAGNOSIS >

## [WITH INTELLIGENT KEY SYSTEM]

## **DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)**

## CONSULT-III Function (INTELLIGENT KEY)

INFOID:0000000003219630

## **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 DLK-146, "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 (passed)		
BD/TR REQ SW Indicates [ON (pressed)/OFF (released)] condition of door request switch (b		

## **DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)**

## < FUNCTION DIAGNOSIS >

## [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: Inside key antenna (instrument center/rear seat) transmissions can be detected by Intelligent Key, when "ROOM ANT2"is selected DRIVER ANT: Outside key antenna (driver side) transmissions can be detected by Intelligent Key, when "DRIVER ANT" is selected ASSIST ANT: Outside key antenna (passenger side) transmissions can be detected by Intelligent Key, when "ASSIST ANT" is selected BK DOOR ANT: Outside key antenna (rear bumper) transmissions can be detected by Intelligent Key, when "BK DOOR 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)**

## < FUNCTION DIAGNOSIS >

## [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

#### **U1000 CAN COMM CIRCUIT**

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## **COMPONENT DIAGNOSIS**

## U1000 CAN COMM CIRCUIT

Description INFOID:000000001911209

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-23, "CAN Communication Signal Chart".

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause	F
U1000	CAN COMM CIRCUIT	When Intelligent Key unit cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning.  Transmission Receiving (BCM) Receiving (IPDM E/R) Receiving (ECM) Receiving (METER/M&A) Receiving (MULTI AV)	G

## Diagnosis Procedure

INFOID:0000000001911211

## 1.PERFORM SELF DIAGNOSTIC

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

#### Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-14, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-41, "Intermittent Incident".

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## **U1010 CONTROL UNIT (CAN)**

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## U1010 CONTROL UNIT (CAN)

DTC Logic

#### 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

INFOID:0000000001911214

## 1. REPLACE INTELLIGENT KEY UNIT

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

>> Replace Intelligent Key unit.

## Special Repair Requirement

INFOID:0000000001911215

## 1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

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

>> WORK END

## P1610 LOCK MODE

#### < COMPONENT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

## P1610 LOCK MODE

Description INFOID:0000000001911216

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 INFOID:0000000001911217

#### 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.	_

**SEC-33** 

#### 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 SEC-33, "Diagnosis Procedure".

NO >> INSPECTION END

## Diagnosis Procedure

## 1. CHECK ENGINE START FUNCTION

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

#### Does the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

Revision: 2008 January

## 2. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

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INFOID:0000000001911218

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2008 Rogue

## P1611 ID DISCORD, IMMU-ECM

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## P1611 ID DISCORD, IMMU-ECM

Description INFOID:000000001911219

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:000000001911220

#### DTC DETECTION LOGIC

#### NOTE:

• If DTC P1611 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-31. "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 SEC-34, "Diagnosis Procedure".

NO >> INSPECTION END

## Diagnosis Procedure

INFOID:0000000001911221

## 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 >> INSPECTION END (ID was unregistered.)

NO >> GO TO 2.

## 2.REPLACE BCM

- Replace BCM. Refer to <u>BCS-67</u>, "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 <u>EC-25</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- For USA (FEDERAL) and CANADA: Refer to <a href="EC-499">EC-499</a>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- For MEXICO: Refer to <u>EC-928</u>, "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".

## P1611 ID DISCORD. IMMU-ECM

< COM	IPONENT DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
Can th	e system be initialized and can the engine be started with re	e-registered mechanical key?
YES NO	>> INSPECTION END (ECM was malfunctioning.) >> GO TO 4.	
<b>4.</b> CHI	ECK INTERMITENT INCIDENT	
Refer t	o GI-41, "Intermittent Incident".	
	>> INSPECTION END	
	>> INOT ENTIRE END	

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## P1612 CHAIN OF ECM-IMMU

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## P1612 CHAIN OF ECM-IMMU

Description INFOID:000000001911222

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:000000001911223

#### DTC DETECTION LOGIC

#### NOTE:

 If DTC P1612 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-31, "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 <u>SEC-36</u>, "Diagnosis Procedure".

NO >> INSPECTION END

## Diagnosis Procedure

INFOID:0000000001911224

## 1.REPLACE BCM

- 1. Replace BCM. Refer to BCS-67, "Removal and Installation".
- 2. 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 <u>EC-25</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: Special Repair Requirement".
  - For USA (FEDERAL) and CANADA: Refer to <u>EC-499</u>, "ADDITIONAL SERVICE WHEN <u>REPLACING CONTROL UNIT: Special Repair Requirement"</u>.
  - For MEXICO: Refer to EC-928, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

#### P1614 CHANIN OF IMMU-KEY

Description INFOID:000000001911225

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.	<ul> <li>Harness or connectors (The NATS antenna amp. circuit is open or short)</li> <li>Mechanical key</li> <li>NATS antenna amp.</li> <li>BCM</li> </ul>

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. 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-37</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

#### Diagnosis Procedure

1. CHECK NATS ANTENNA AMP. INSTALLATION

Check NATS antenna amp. installation. Refer to <a>SEC-163</a>, "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.
- 2. Disconnect NATS antenna amp. connector.
- Check voltage between NATS antenna amp. harness connector and ground.

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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#### P1614 CHANIN OF IMMU-KEY

< COMPONENT DIAGNOSIS >

[WITH 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.

(+)				\\alta = \( \lambda \)
NATS antenna amp.		(–) Condition		Voltage (V) (Approx.)
Connector	Terminal			(/ .pp.c)
2			Just after inserting mechanical key in key cylinder.	Pointer of tester should move.
M26		Ground	Other than above.	0
IVI∠O	4 Ground		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-41, "Intermittent Incident".

>> INSPECTION END

#### P1615 DIFFRENCE OF KEY

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

#### P1615 DIFFRENCE OF KEY

Description INFOID:0000000001911228

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-39, "Diagnosis Procedure".

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 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-67, "Removal and Installation".
- · Perform initialization again.

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#### **B2013 ID DISCORD I-KEY-STRG**

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INFOID:0000000002987171

### B2013 ID DISCORD I-KEY-STRG

Description INFOID:000000002987169

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-40</u>, "<u>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

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

	(+)	(–)	\/-\{\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Steering	g 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.

#### **B2013 ID DISCORD I-KEY-STRG**

#### < COMPONENT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

	(+)		V (c = 0.0	
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	t Key unit		Continuity	
Connector	Connector Terminal		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				(Approx.)
				LOCK status	5
M28	3	Ground	Ground Steering lock	LOCK ⇔ UNLOCK	(V) 6 4 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				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-41, "Intermittent Incident".

>> INSPECTION END

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#### **B2552 INTELLIGENT KEY**

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

#### **B2552 INTELLIGENT KEY**

Description INFOID:000000002987172

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

#### Is DTC detected?

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

NO >> INSPECTION END

# Diagnosis Procedure

INFOID:0000000002987174

# 1. REPLACE INTELLIGENT KEY UNIT

- 1. Replace Intelligent Key unit.
- 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-42, "DTC Logic"</u>.

### Special Repair Requirement

INFOID:0000000002987175

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

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

>> WORK END

#### **B2590 ID DISCORD BCM-I-KEY**

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# B2590 ID DISCORD BCM-I-KEY

Description INFOID:0000000002987176

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:0000000002987177

#### DTC DETECTION LOGIC

#### NOTE:

 If DTC B2590 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to SEC-98, "DTC Index".

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

# 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

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

>> INSPECTION END NO

# Diagnosis Procedure

INFOID:0000000002987178

### 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 >> INSPECTION END (ID was unregistered.)

NO >> BCM is malfunctioning.

- Replace BCM
- · Perform initialization again

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**SEC-43** Revision: 2008 January 2008 Rogue

#### POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# POWER SUPPLY AND GROUND CIRCUIT INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT: Diagnosis Procedure

INFOID:0000000001911265

### 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

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

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

#### 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	nt Key unit		Continuity	
Connector Terminal		Ground	Continuity	
M40	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

INFOID:0000000001911266

# 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

INFOID:0000000001911269

# 1. CHECK FUSES AND FUSIBLE LINK

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

#### POWER SUPPLY AND GROUND CIRCUIT

#### < COMPONENT DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Signal name	Fuses and fusible link No.	
41	Pottony nower supply	10 (10A)	
57	Battery power supply	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

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

	Terminals			Ignition switch position		
(	+)		ignition switch position			
BCM		(-)	OFF	ACC	ON	
Connector	Terminal		OFF	ACC	ON	
M65	4	Ground	Approx. 0 V	Battery voltage	Battery voltage	
WOS	3		Approx. 0 V	Approx. 0 V	Battery voltage	
M66	41		Pattony voltage	Pattony voltago	Pottony voltago	
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. SEC

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#### **DOOR SWITCH**

#### < COMPONENT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

### DOOR SWITCH

Description INFOID:0000000003219603

Detects door open/closed condition.

Component Function Check

# 1. CHECK FUNCTION

## (II) With CONSULT-III

Check door switches ("DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR", "BACK DOOR SW") in "Data Monitor" mode with CONSULT-III.

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 <u>SEC-46. "Diagnosis Procedure"</u>.

# Diagnosis Procedure

INFOID:0000000003219605

# 1. CHECK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect door switch connectors.
- 3. Check signal between door switch harness connector and ground with oscilloscope.

#### [WITH INTELLIGENT KEY SYSTEM]

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С	oor switch			V (c. 00)
(+) connector Termin		Terminal	(-)	Voltage (V) (Approx.)
Front door switch (passenger side)	B27	2		(V) <sub>15</sub> 10 5 0 → 10ms  JPMIA0586GB
Front door switch (driver side)	B34	2		(V) 15 10 5 0 10 ms JPMIA0587GB
Rear door switch RH	B53	2	Ground	(V) <sub>15</sub> 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) 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.

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BCM		Door switch	Continuity		
connector	Terminal	connector	Terminal	Continuity	
M65	12	B27	2		
WOS	13	B53			
	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
WOS	13	Ground	
	43		
M66	47		
	48		

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "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	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-48, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door switch. Refer to <u>DLK-301, "Removal and Installation"</u>.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000003219606

# 1. CHECK DOOR SWITCH

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

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

### **DOOR SWITCH**

#### < COMPONENT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door switch . Refer to <u>DLK-301, "Removal and Installation"</u>.

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#### < COMPONENT DIAGNOSIS >

#### **KEY SWITCH**

Description INFOID:000000003219607

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

### Component Function Check

INFOID:0000000003219608

# 1. CHECK KEY SWITCH INPUT SIGNAL

Check key switch ("KEY ON SW") in "Data Monitor" mode with CONSULT-III. Refer to <u>DLK-43, "DOOR LOCK</u>: <u>CONSULT-III Function (BCM - DOOR LOCK)"</u>.

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

#### Is the inspection result normal?

YES >> Key switch is OK.

NO >> Refer to <u>SEC-50</u>, "<u>Diagnosis Procedure</u>".

#### Diagnosis Procedure

INFOID:0000000003219609

# 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 swit	ch and key lock solenoid	(–)	
Connector Terminal			,
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 solenoid		Continuity
Connector	Terminal	Connector	Terminal	
M65	37	M25	1	Exists

2. 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

#### **KEY SWITCH**

#### < COMPONENT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

Check key switch function.

Refer to SEC-51, "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-41, "Intermittent Incident".

>> INSPECTION END

#### Component Inspection

#### COMPONENT INSPECTION

# 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	
4 2		Insert mechanical key into key cylinder	Exists	
ı	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.

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INFOID:0000000003219610

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#### **IGNITION KNOB SWITCH**

Description INFOID:0000000003219611

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

### Component Function Check

INFOID:0000000003219612

# 1. CHECK IGNITION KNOB SWITCH INPUT SIGNAL

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

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

#### Is the inspection result normal?

YES >> Ignition knob switch is OK.

NO >> Refer to <u>SEC-52</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

INFOID:0000000003219613

# 1. CHECK IGNITION KNOB SWITCH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect ignition knob switch, key switch and key lock solenoid connector.
- Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

(	+)	(-)	Voltage (V)	
Ignition knob switch, key s	witch and key lock solenoid		(Approx.)	
Connector	Connector Terminal		, , ,	
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.

Intelligen	Intelligent Key unit		Ignition knob switch, key switch and key lock solenoid	
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	Connector Terminal		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.

#### **IGNITION KNOB SWITCH**

[WITH INTELLIGENT KEY SYSTEM] < COMPONENT DIAGNOSIS > Refer to SEC-53, "Component Inspection". Α Is the inspection result normal? YES >> GO TO 4. NO >> Replace ignition knob switch, key switch and key lock solenoid. В 4. CHECK INTERMITTENT INCIDENT Refer to GI-41, "Intermittent Incident". >> INSPECTION END Component Inspection INFOID:0000000003219614 D 1. CHECK IGNITION KNOB SWITCH Turn ignition switch OFF. Е Disconnect ignition knob switch. Key switch and key lock solenoid connector. 2. Check continuity between ignition knob switch, key switch and key lock solenoid terminals under the following conditions. F Ignition knob switch, key switch and key lock solenoid Condition Continuity **Terminal Exists** Ignition knob switch is pressed 3 4 Does not exist Ignition knob switch is released Н Is the inspection result normal? YES >> Ignition knob switch is OK. NO >> Replace ignition knob switch, key switch and key lock solenoid. **SEC** M Ν

#### < COMPONENT DIAGNOSIS >

### **HOOD SWITCH**

Description INFOID:000000001911282

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

### Component Function Check

INFOID:0000000001911283

# 1. CHECK FUNCTION

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

Test item	Condition		Status
HOOD SW	Hood	Open	ON
11000 300	Tiood	Close	OFF

#### Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>SEC-54, "Diagnosis Procedure"</u>.

### Diagnosis Procedure

INFOID:0000000001911284

### 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	Condition		Voltage (V) (Approx.)
Connector	Terminal				( ) [
E13	34 Ground	Ground	Hood	Open	0
E13		34 Giodila Hoo	Ground	Hood	Close

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

IPDM E/R		Hood switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E13	34	E113	1	Existed

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

IPDN	1 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.

#### **HOOD SWITCH**

#### < COMPONENT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

Hood s	witch		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-28, "Removal and Installation".

### 5. CHECK HOOD SWITCH

Refer to SEC-55, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace hood switch. Refer to <u>SEC-164</u>, "Removal and Installation".

#### 6.check intermittent incident

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

### Component Inspection

1. CHECK HOOD SWITCH

Check continuity between hood switch terminals.

Hood switch		Condition		Continuity
Terminal				
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-164, "Removal and Installation"</u>.

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# INSIDE KEY ANTENNA INSTRUMENT CENTER

### **INSTRUMENT CENTER: Description**

INFOID:0000000003219615

Detects whether Intelligent Key is inside the vehicle.

# INSTRUMENT CENTER: Component Function Check

INFOID:0000000003219616

# 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".
- 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-56</u>, "INSTRUMENT CENTER : Diagnosis Procedure".

# INSTRUMENT CENTER: Diagnosis Procedure

INFOID:0000000003219617

# 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

- 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.

Tern	ninals			
(+) Inside key antenna (instrument center) connector	Terminal	(–)	Condition	Signal (Reference value)
M56	1	- Ground	Ignition knob switch is pressed	(V) 15 10 5 0 1 1 S JMKIA0393ZZ
Wido	2	Sibulu	Ignition knob switch is pressed	(V) 15 10 5 0 1

#### Is the inspection result normal?

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

#### **INSIDE KEY ANTENNA**

#### < COMPONENT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

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 (instrument center) harness connector.

Intelliger	nt Key unit	Inside key antenna (instr	ument center)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	33	M56	1	Exists
10140	34	IVIO	2	EXISIS

Check continuity between Intelligent Key unit harness connector and ground.

Intelliger	nt Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	33	Ground	Does not exist
WHO	34		DOES HOLEKIST

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <a href="DLK-309">DLK-309</a>, "Removal and Installation".

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (instrument cen-

CONSOLE

CONSOLE : Description

Detects whether Intelligent Key is inside the vehicle.

CONSOLE: Component Function Check

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

#### (P)With CONSULT-III

- 1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
- Touch "ROOM ANT 1".
- 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 SEC-57, "CONSOLE : Diagnosis Procedure".

#### CONSOLE: Diagnosis Procedure

# 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

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

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INFOID:0000000003219618

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N INFOID:0000000003219620

Tern	Terminal			
(+)			Condition	Signal
Inside key antenna (console) connector	Terminal	(–)		(Reference value)
M252	1	Ground	Ignition knob switch is pressed	(V) 15 10 5 0 1
	2		Ignition knob switch is pressed	(V) 15 10 5 0 1 s JMKIA0392ZZ

#### Is the inspection result normal?

YES >> Replace inside key antenna (console).

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 (console) harness connector.

Intelliger	nt Key unit	Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	15	Masa	1	Exists
10140	16	M252	2	EXISIS

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

Intelliger	it Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	15	Giouna	Does not exist
	16		Does not exist

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-309</u>, "Removal and Installation".

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

REAR SEAT

REAR SEAT : Description

INFOID:0000000003219621

INFOID:0000000003219622

Detects whether Intelligent Key is inside the vehicle.

REAR SEAT : Component Function Check

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

#### (P)With CONSULT-III

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

#### **INSIDE KEY ANTENNA**

#### < COMPONENT 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	
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 <u>SEC-59</u>, "<u>REAR SEAT</u>: <u>Diagnosis Procedure</u>".

### **REAR SEAT: Diagnosis Procedure**

INFOID:0000000003219623

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# 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	minal			
(+)			Condition	Signal
Intelligent Key unit 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
B40	2	Giounu	Ignition Knob Switch is pressed	(V) 15 10 5 0 1 s  JMKIA0392ZZ

#### 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.

Intelligen	t Key unit	Inside key antenna (rear seat)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	13	R/15	1	Exists
10140	14	B45	2	LAISIS

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

### **INSIDE KEY ANTENNA**

#### [WITH INTELLIGENT KEY SYSTEM]

Intellige	nt Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	13	Ground	Does not exist
IVI4U	14		Does not exist

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-309</u>, "Removal and Installation".

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

#### [WITH INTELLIGENT KEY SYSTEM]

#### HORN

#### EXCEPT FOR MEXICO

### **EXCEPT FOR MEXICO: Description**

INFOID:0000000003050321

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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:0000000003050322

### 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-61</u>, "EXCEPT FOR MEXICO : Diagnosis Procedure".

### **EXCEPT FOR MEXICO: Diagnosis Procedure**

INFOID:0000000003050323

#### 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.

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-28, "Removal and Installation".

NO >> Repair or replace harness.

#### FOR MEXICO

### FOR MEXICO: Description

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:0000000003050328

# 1. CHECK FUNCTION

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

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#### **HORN**

#### < COMPONENT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

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

#### Is the operation normal?

YES >> INSPECTION END

NO >> Refer to SEC-62, "FOR MEXICO: Diagnosis Procedure".

### FOR MEXICO: Diagnosis Procedure

#### INFOID:000000003050329

#### 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, horn relay connector and theft warning horn relay 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 theft warning horn relay harness connector.

IPD	IPDM E/R		Theft warning horn relay	
Connector	Terminal	Connector	Terminal	Continuity
E15	57	E70	1	Existed

5. 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-28, "Removal and Installation".

NO >> Repair or replace harness.

#### VEHICLE SECURITY INDICATOR

< COMPONENT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### VEHICLE SECURITY INDICATOR

Description INFOID:0000000001911286

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

### 1. CHECK FUNCTION

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

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

#### Is the inspection result normal?

YES >> INSPECTION END

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

### Diagnosis Procedure

1. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

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

(+) Combination	n meter	(–)	Voltage (V) (Approx.)	
Connector	Terminal		(	
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.
- Check continuity between BCM harness connector and combination meter harness connector.

ВСМ		Combina	Continuity	
Connector	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

Connect combination meter connector.

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#### **VEHICLE SECURITY INDICATOR**

#### < COMPONENT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

Check voltage between BCM harness connector and ground.

() Bo	+) CM	(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M65 23		Ground	Battery voltage	

#### Is the inspection result normal?

YES

>> Replace BCM. Refer to <u>BCS-67</u>, "Removal and Installation". >> Replace combination meter. Refer to <u>MWI-83</u>, "Removal and Installation". NO

< ECU DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# **ECU DIAGNOSIS**

# **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
KEY ON SW	Mechanical key is inserted to key cylinder	On
ODL LOOK OW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL LINII OCK CW	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 CW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD CW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD CW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
	Back door closed	Off
BACK DOOR SW	Back door opened	On
KEN ON TROM	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
1/E// 0// 1/N 0/M	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
1/E)// E00   001/	"LOCK" button of key fob is not pressed	Off
KEYLESS LOCK	"LOCK" button of key fob is pressed	On
VEV/ 500 HN 00V	"UNLOCK" button of key fob is not pressed	Off
KEYLESS 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
I KEY IINI OCK	"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
ACC ON SW	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE CM	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LICHT OW 40T	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

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### < ECU DIAGNOSIS >

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
IZEVI EQQ DANIQ	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 LINII V	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
LII DEAM OM	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB OW 4	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
TURNI CIONIAL R	Turn signal switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
	Engine stopped	Off
ENGINE RUN	Engine running	On
	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE:	
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
ICNI SIM CANI	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On
ED MIDES : "	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On

### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
FR WIPER INT	Front wiper switch OFF	Off	-
FR WIPER INT	Front wiper switch INT	On	_
ED WACHED CW	Front washer switch OFF	Off	_
FR WASHER SW	Front washer switch ON	On	-
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	_
TO MUDED OTOD	Any position other than front wiper stop position	Off	=
FR WIPER STOP	Front wiper stop position	On	-
/EHICLE 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	-
R WIPER INT	Rear wiper switch INT	On	-
	Rear washer switch OFF	Off	-
R WASHER SW	Rear washer switch ON	On	=
	Rear wiper stop position	Off	-
R WIPER STOP	Other than rear wiper stop position	On	-
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off	-
I/L WASH SW	NOTE: The item is indicated, but not monitored.	Off	-
	Hazard switch OFF	Off	-
AZARD SW	Hazard switch ON	On	-
	Brake pedal is not depressed	Off	-
RAKE SW	Brake pedal is depressed	On	-
	Blower fan motor switch OFF	Off	-
AN ON SIG	Blower fan motor switch ON (other than OFF)	On	- 
	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off	-
IR COND SW	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On	-
KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off	_
LCEV DIA/ DIA/NI	UNLOCK button of Intelligent Key is not pressed	Off	_
KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On	_
	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	-
USH SW	Press ignition switch	On	-
	When back door opener switch is not pressed	Off	-
RNK OPNR SW	When back door opener switch is pressed	On	-
RUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off	-
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off	_
	Open the hood	On	-

#### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
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 REGOT FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGOT 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 NEGOT KLI	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WARINING LAWP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLEK	Tire pressure warning alarm is sounding	On

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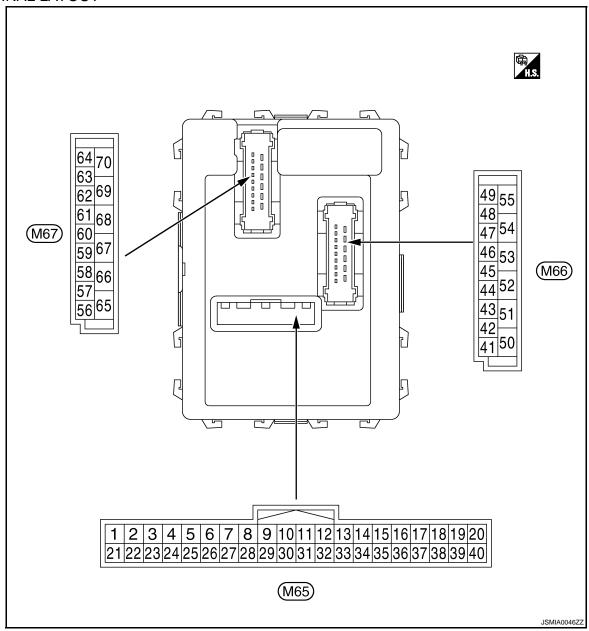
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#### **TERMINAL LAYOUT**



#### 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-26, "COMB SW: CONSULT-III Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to <a href="BCS-9">BCS-9</a>, "System Diagram".

	Terminal No. (Wire color)		Description				Value
			Signal name Inp			Condition	(Approx.)
	+	_	Signarrianie	Output			X 11 - 7
	1	Ground	Ignition key hole illu-	Output	Ignition key hole	OFF	Battery voltage
	(V)	Ground	mination control	Output	illumination	ON	0 V

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF Turn signal switch RH Lighting switch HI	0 V
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 1ST  1.0 V	→ +10ms PKIB4959J
					Lighting switch 2ND	(V) 15 10 5 0 PKIB4953J 2.0 V
					All switch OFF	0 V
					Turn signal switch LH	
					Lighting switch PASS	(V) 15 10 5 0 ++10ms PKIB4959J 1.0 V
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch 2ND	
`,				tent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 +10ms PKIB4956J 0.8 V
					All switch OFF	0 V
					Front wiper switch LO	
					Front wiper switch MIST	(V) 15
4 (W)	Ground	Combination switch INPUT 3	Input	Input Combination switch (Wiper intermittent dial 4)	Front wiper switch INT	10 5 0 ++10ms PKIB4959J

### < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	
(Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
5 (R)	Ground	Combination switch INPUT 2	Input		All switch OFF (Wiper intermittent dial 4) Front washer switch	0 V	В
				Combination switch	(Wiper intermittent dial 4)  Rear washer ON	(V) 15 10	С
					(Wiper intermittent dial 4)  Any of the condition below with all switch OFF  • Wiper intermittent dial 1	5 0 +10ms	D
					Wiper intermittent dial 5     Wiper intermittent dial 6	PKIB4959J	Е
					Rear wiper switch ON (Wiper intermittent dial 4)  All switch OFF	(V) 15 10 5 0	F
						РКІВ4955J 0.8 V	G
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	(Wiper intermittent dial 4)	0 V	Н
					Front wiper switch HI (Wiper intermittent dial 4)	(V) 15	ı
					Rear wiper switch INT (Wiper intermittent dial 4)	10	
					Wiper intermittent dial 3 (All switch OFF)	→ +10ms PKIB4959J	J
						1.0 V	SE
					Any of the condition below with all switch OFF  Wiper intermittent dial 1  Wiper intermittent dial 2	(V) 15 10 5 0	L
						PKIB4952J	M
					Any of the condition below with all switch OFF  • Wiper intermittent dial 6  • Wiper intermittent dial 7	15	Ν
						10 5 0	0
						PKIB4955J 0.8 V	Р

Terminal No. (Wire color)		Description		0		Value	
+	-	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 cylinder switch	NEUTRAL position	(V) 10 5 0 *** 10ms JPMIA0587GB 8.0 - 8.5 V	
					LOCK position	0 V	
9	Ground	Stop lamp switch	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V	
(R)					ON (Brake pedal is depressed)	Battery voltage	
10 (SB)	Ground	Rear window defog- ger switch	Input	Rear window defogger switch	Not pressed	Battery voltage	
		ger switch			Pressed	0 V	
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch OFF Ignition switch ACC or ON		0 V Battery voltage	
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) <sub>15</sub> 10 10 10 10 10 10 10 10 10 10 10 10 10	
					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 10 10 10 10 10 10 10 10 10 10 10 10 1	
					ON (When rear door RH opened)	0 V	

### < ECU DIAGNOSIS >

# [WITH INTELLIGENT KEY SYSTEM]

	inal No.	Description				Value
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)
15* <sup>1</sup> (O)	Ground	TPMS mode trigger switch	Input	Ignition switch O	FF	(V) <sub>15</sub> 10 5 0 ++10ms JPMIA0588GB
18* <sup>1</sup> (O)	Ground	Remote keyless en- try receiver ground	Input	Ignition switch O	N	0 V
				Without Intelligent Key system	At any condition	5 V
19* <sup>1</sup> (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent	Ignition switch OFF     For 3 seconds after ignition switch OFF to ON	0 V
				Key system	3 seconds or later after ignition switch OFF to ON	5 V
				Without Intelligent Key system	At any condition	(V) 15 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10
20* <sup>1</sup> (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF     For 3 seconds after ignition switch OFF to ON	0 V
(GK)				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) 15 10 5 0  → 2ms  JPMIA0589GB  NOTE: The wave form changes accord-
21 (G)	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	ing to signal-receiving condition.  Battery voltage

# [WITH INTELLIGENT KEY SYSTEM]

	nal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					ON	0 V
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) 15 10 5 0 JPMIA0590GB
					OFF	12.0 V  Battery voltage
25 (BR)	Ground	Immobilizer antenna signal (Rx, Tx)	Input/ Output	Ignition switch O		Battery voltage
				Ignition switch O	FF	
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) 15 10 5 0 1.6 V
					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) <sub>15</sub> 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)	2.34.14	3_0.0 0			ON	0 V
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage
(G)		switch	·	opener switch	Pressed	0 V

### < ECU DIAGNOSIS >

# [WITH INTELLIGENT KEY SYSTEM]

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 +
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	40
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 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	0 +10ms PKIB4956J
33		Combination switch		Combination	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ***+10ms PKIB4960J 7.2 V
(GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5 0
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	0 → +10ms PKIB4958J 1.2 V

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# [WITH INTELLIGENT KEY SYSTEM]

	nal No.	Description				Value	
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					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)	0	
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	PKIB4958J 1.2 V	
35		Combination switch		Combination switch	All switch OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V	
(B)	Ground	OUTPUT 2	Output	(Wiper intermit- tent dial 4)	Lighting switch 2ND	40	
				tent diai 4)	Lighting switch PASS	(V) 15 10	
			Front wiper switch INT 5		5		
					Front wiper switch HI	++10ms PKIB4958J	
				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 (Front wiper switch MIST)	10 5 0	
				Front washer switch ON	+10ms PKIB4958J		
						1.2 V	

### < ECU DIAGNOSIS >

# [WITH INTELLIGENT KEY SYSTEM]

	inal No. e color)	Description			-	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Key switch	Input	Insert mechanicader	al key into ignition key cylin-	Battery voltage
(LG)	Giodila	Rey Switch	прис	Remove mechai cylinder	nical key from ignition key	0 V
38	Ground	Ignition switch ON	Input	Ignition switch C		0 V
(G)				Ignition switch C	N or START	Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output		_	_
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) <sub>15</sub> 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	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) <sub>15</sub> 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 JPMIA0591GB
						1.6 V
					UNLOCK position	0 V

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# [WITH INTELLIGENT KEY SYSTEM]

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) <sub>15</sub> 10 5 0 ++10ms JPMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) <sub>15</sub> 10 5 0 **10ms JPMIA0594GB 8.5 - 9.0 V
					ON (When rear door LH opened)	0 V
49	Ground	Back door lamp con-	Output	Back door lamp switch DOOR	Back door is closed (Back door lamp turns OFF)	Battery voltage
(L)	Ground	trol	Output	position	Back door is opened (Back door lamp turns ON)	0 V
53	Ground	Back door open	Output	Back door	Not pressed (Back door actuator is activated)	0 V
(V)	Cround	Back door open	Odiput	opener switch	Pressed (Back door actuator is activated)	Battery voltage
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch	Rear wiper switch OFF	0 V
(SB)			-	ON After passing the	Rear wiper switch ON interior room lamp battery	Battery voltage
56	Ground	Interior room lamp	Output	saver operation t		0 V
(Y)	Glound	power supply	Output	Any other time af lamp battery save	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)	2.34114	LOCK	- anpar		Other then UNLOCK (Actuator is not activated)	0 V

### < ECU DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

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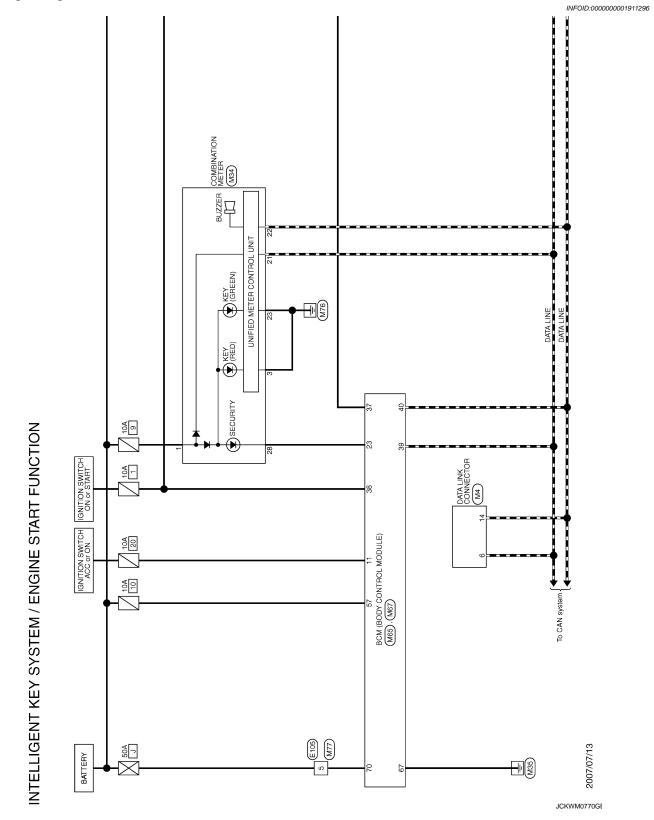
	nal No. color)	Description			Condition	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	,
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF  Turn signal switch LH	(V) 15 10 11 18 11 18 11 18 11 18 11 18 11 18 11 18 11 18 11 18 18	(
					Turn signal switch OFF	6.0 V	
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s 1s PKIC6370E	
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage	
(R)	Ground	timer control	Output	lamp	ON	0 V	
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage	
(V)	Ground	All doors Eool	Output	7 III GOOTS	Other then LOCK (Actuator is not activated)	0 V	
66	Ground	Passenger door and	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage	
(G)	Giodila	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V	S
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 (R)* <sup>2</sup> (P)* <sup>3</sup>	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	

### NOTE:

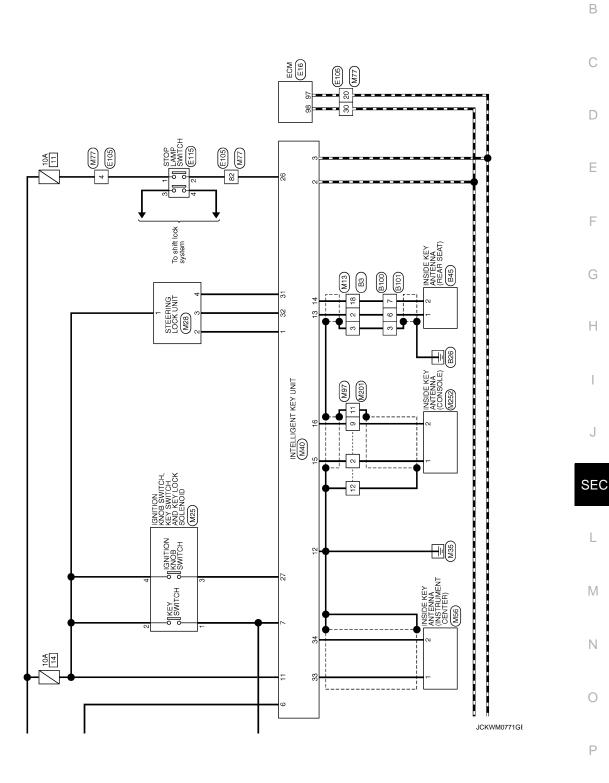
- \*1: Except for Mexico
- \*2: Without anti-pinch system
- \*3: With anti-pinch system

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Wiring Diagram - INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION -



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INTELLIGENT KEY SYSTEM / ENGINE	START FUNCTION Connector No. B45	Z	Connector No.	B100	Connector No. B101	
Connector Name WIRE TO WIRE	Connector Name INSIDE KEY	INSIDE KEY ANTENNA (REAR SEAT)	Connector Name	WIRE TO WIRE	Connector Name WIRE TO WIRE	
Connector Type TH32MW-NH	Connector Type RK02FGY		Connector Type	TH08FW-NH	Connector Type TH08MW-NH	
F	Œ	<	匮	R	<b>学</b>	
1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17   18   19   10   11   12   13   14   15   16   18   19   10   12   12   12   12   12   12   12			Ž.	8 7 6 5 8 7 6 5	5 1 1 2 3 4 1 2 3 4 1 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	
Color   Signal Name [Specification]   No.   of Wire   Signal Name [Specification]   2   G   C   C   C   C   C   C   C   C   C	Terminal   Golor   S   No.   of Wire   S       G	Signal Name [Specification] - -	Terminal Color No. of Wire 3 B 6 G	Signal Name [Specification]	Terminal   Color   Signal Name [Specification]   Signal Name   Specification]   Signal Name	
4						
Connector No. E16	Connector No. E105		Connector No.	E115	Connector No. M4	
Connector Name ECM	Connector Name WIRE TO WIRE	IIRE		STOP LAMP SWITCH	Connector Name DATA LINK CONNECTOR	
Connector Type MAA24FB-MEA8-RH	Connector Type TH80FW-CS16-TM4	S16-TM4	Connector Type	M04FW-LC	Connector Type BD16FW	
H.S. (81 85 89 93 97 fr/11 105 179) (82 86 93 94 96 fr/21 106 170) (82 86 93 94 96 fr/21 106 170) (82 87 91 95 99 fr/21 107 171) (82 87 91 95 99 fr/21 107 171) (84 88 92 96 fr/21 107 171)	8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -		H.S.	13 4 2 4 2 4	H.S. (9 10 11 12 13 14 15 16 7 8 1 1 2 3 4 5 6 7 8	
Terminal Color Signal Name [Specification]	Terminal Golor S No. of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color Signal Name [Specification]	
97 P VEHCAN-L	> >		> >	1 1	- 9	
	20 P	1	3 6	ı	1	
	30 L	-	4 L	1		
	82 R	1				

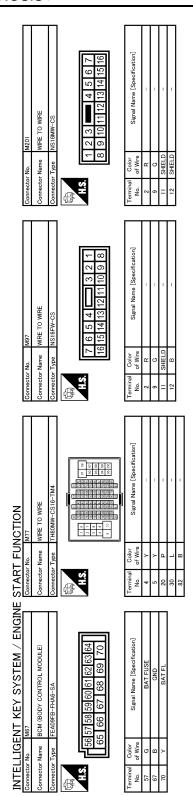
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[WITH INTELLIGENT KEY SYSTEM]

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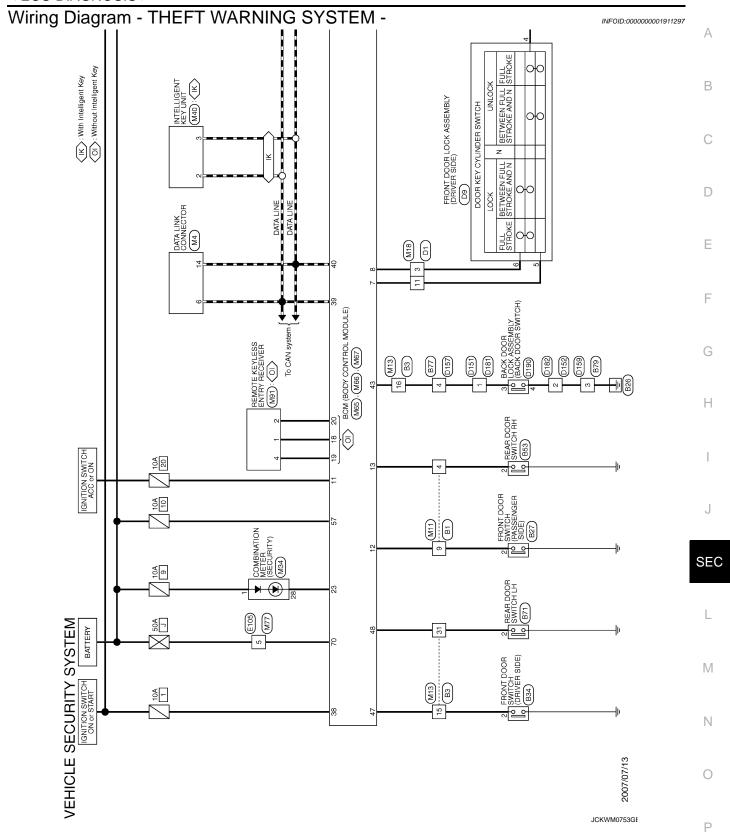
	C. C	ation]	LE)	euton]		Α
	M34 COMBINATION METER SAB40FW SAB40FW 4 5 6 7 8 9 10 HT 12 13 14 13 16 17 18 13 14 13 16 17 18 13 14 13 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Signal Name [Specification]  BAT  GNDZ(POWER)  CAN+H  CAN-H  GNO3(GIRCUIT)  SECURITY	M66 BCM (BODY CONTROL MODULE) TH40FW  S 6 7 8 9 9 11 12 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Signal Name [Specification] ACC SECURITY IND OUT PUT KEY SW IGN CAN-H CAN-H		В
	4 2	COOLOR B B B B B B B B B B B B B B B B B B B	4 2	Color S B B B B B B B B B B B B B B B B B B		С
	Connector No. Connector Type Connector Type H.S.	Terminal No. 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Connector No. Connector Name Connector Type H.S.	Terminal No. 11. 23 23 37 38 38 39 40		D
		peoification]	NSTRUMENT	pecification]		Е
	STEERING LOCK UNIT TKG4FW	Signal Name [Specification]	M96 INISIDE KEY ANTENNA (INISTRUMENT CENTER) RROZFGY	Signal Mame [Specification]		F
	ector No. ector Name ector Type	Color   Color   Color   Nic.   Color   Color	ector No. ector Name ector Type	Terminal Color No. of Wire 2 L L L 2 L D D D D D D D D D D D D D D		G
	Conn		O O O O O O O O O O O O O O O O O O O			Н
	M25 AND KEY LOCK SOLENOID TKGBMGY  TKGBMGY  TKGBMGY	Signal Name [Specification]	STOP LAMP SW KNOB SW STRE LOOK UNIT GND STRE LOOK UNIT SIG INSTRUMENT (+) INSTRUMENT (-)			I
ICTION	W25 GNITION KNOE RYGBMGY TKOBMGY	Signal	113 111 1			J
S	Connector None Connector Type H.S.	Terminal Color No. 1 LG 2 2 R R A P P P P P P P P P P P P P P P P P	26 B B 31 C C C C C C C C C C C C C C C C C C			SEC
ENGINE	1811		00 GP GR	2 4		L
_	7 6 5 4 3 23 22 21 20 18	Signal Name (Specification)	14 15 16 17	Signal Name [Specification] STRG LOCK UNIT 5V O/P CAN H CAN L CAN C CAN C CAN C CAN C CONSOLE(+) CONSOLE(-)		M
INTELLIGENT KEY SYSTEM	M13 WIRE TO WIRE TH32FW-NH 14 13 12 11 10 9 8		M40 INTELLIGENT KEY UNIT TH40FW-NH  4 5 6 7 8 9 0 112 0 22 23 25 27 8 20 51 23 23			Ν
NTELLIG	Connector Name Connector Type H.S. H.S. 16 15 22 31 5	Color   Color	Connector No. Connector Name Connector Type H.S. H.S. H.S. H.S. H.E. H.E. H.E. H.E.	Color   Color		0
1			<u>-1 - 12   3</u>		JCKWM0773GE	Р

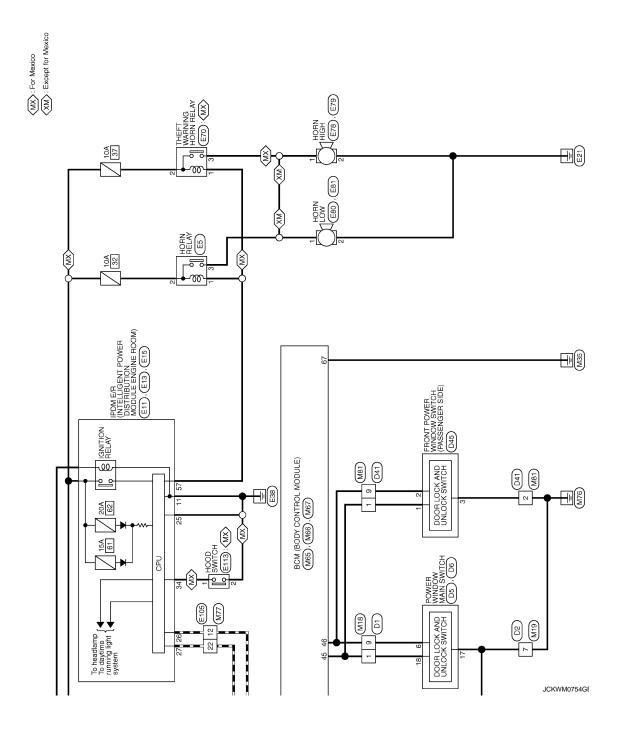
Revision: 2008 January SEC-83 2008 Rogue



Connector No.	M252
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY
H.S.	
Terminal Color No. of Wire	Signal Name [Specification]
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[WITH INTELLIGENT KEY SYSTEM]

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SIDE)	99]	А
FRONT DOOR SWITCH (DRIVER SIDE) AGSFW  Signal Name [Specification]	WIRE  C 3 4  Signal Name [Specification]	В
FRONT DOOR SWI	WIRE TO WIRE MOAMW-LC	С
Commetter No. Commetter Name Commetter Type	Commetter No. Connector Name Connector Type Connector Type No. Of Wire 3 B B	D
8 8 8	<u>0</u> 0 0 0 4	
SSENGER [ifeation]	ification)	Е
BE27 SIGNAT DOOR SWITCH (PASSENGER SIDE) AGGIVE  Signal Name [Specification]	-CS	F
FRONT DO SIDE) A03FW  \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	NSIONW-CS NSIONW-CS Signa	
		G
Connector No. Connector Name Connector Type  Terminal Color No.  of Wire  2  BR	Connector No Connector Name Connector Type H.S.  Terminal Color No. 4 W	Н
<u> </u>		
2 13 14 15 8 20 30 31 iffeation]	ification	I
WIRE NH 7 8 9 10 11 12 13 14 12 13 14 12 13 14 14 15 14 15 18 13 19 10 11 12 13 14 15 18 13 14 15 14 15 14 15 14 15 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	IOR SWITCH LH Signal Name [Specification]	
B3   WIRE TO WIRE   TH32MW-NH		J
8 V V V V V V V V V V V V V V V V V V V	Solver Bandar	
minal 5	ininal S	SEC
O Common T T T T T T T T T T T T T T T T T T T	Common Trem I was a second of the second of	L
WIRE CS16-TM  CS16-TM  Signal Name (Specification)	OR SWITCH RH	M
RE RE TAM4	R SWITCH IS SWIT	
SECURITY SYSTEM BI WIRE TO WIRE THEOMW-CSIG-TIM LICENTRY	REAR DOOR SWITCH RANGEW AGGEW  Signal Name (St	N
때		
VEHICLE Connector Name Connector Type Connector Typ	Connector No Connector Type Connector Type H.S. H.S.  Terminal Color No. of Will 2 L	0
		JCKWM0755Gŧ
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Connector No. D6 Connector Name POWER WINDOW MAIN SWITCH Connector Type NS03FW-CS  H.S.	Terminal   Color   Signal Name (Specification)   17   B	Corrector No. D151 Corrector Name WIFE TO WIFE Corrector Type NSOFFBR-CS  H.S.  8 7 6 5 4	Terminal   Color   Signal Name [Specification]   1   W     W
Connector No.         D5           Connector Name         POWER WINDOW MAIN SWITCH           Connector Type         NS16FW-CS           H.S.         1 2 3 4	Terminal Color No. of Wire 6 BR	D45   Connector No.   D45   Connector Name   PROVIT POWER WINDOW SWITCH   Connector Type   NS12FW-CS	Terminal   Color   Signal Name [Specification]   No. of Wire   P   -
Connector No. D2 Connector Type NIS16FW-CS  H.S.  T 6 5 4	Terminal Golor Signal Mame [Specification] 7 B -	Connector No. D41 Connector Name WIRE TO WIRE Connector Type THI ISPW-NH  H.S.  R 7 6 5 4 3 2 1  16 15 14 13 12 11 10 9	Terminal   Color   Signal Name   Specification]   1   P   -   -   -     2   B   -     9   BR
VEHICLE SECURITY SYSTEM Gamector Name WIRE TO WIRE Gamector Type THIGFW-NH  H.S.  8 7 6 5 4 3 2 1  16 15 14 13 12 1110 9	Terminal   Color   Signal Name [Specification]   Or Wire   Signal Name [Specification]	Connector No. D9 Connector Name FRONT DOOR LOCK ASSEMBLY (DRIVER SUC) Connector Type E06FGY-RS  H.S. (1 2 3 4 5 6)	Terminal   Color   Signal Name   Specification

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[WITH INTELLIGENT KEY SYSTEM]

### < ECU DIAGNOSIS >

8 Z 8 Z 8	Signal Name [Specification]	PIDM E/R (NYTELLICENT POWER DISTRIBUTION MODULE ENGINE ROOM) MORFEP-LC  11 10 9  14 13 12	Signal Name [Specification]		АВ
Connector No. D181 Connector Name WIRE TO WIRE Connector Type NSDBMBR-CS H.S.	Terminal Color No. of Wire Sign	Connector Name IPDM E/R (IN Connector Type M06FB-LC	Terminal Color No. of Wire 11 B B		C
WIRE 2 1 2 1 4 3	Signal Name [Specification]	ELAV	Signal Name (Specification)		E F
Connector No. 0159 Connector Name WIRE TO WIRE Connector Type MO4FW-LC H.S.	Terminal Color No. of Wire 3 B	Cornector No. E5 Cornector Name HORN RELAY Cornector Type	Color   Colo		G
3	Signal Name [Specification]	DI 90 BACK DOOR LOCK ASSEMBLY NS04FW-CS  4 3 2 1	Signal Name [Specification]		I
Gennester No. D157 Councetor Name WIRE TO WIRE Connector Type NSIGNW-CS  A 3 6 7 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Terminal Color No. of Wire 4 W	Connector No. D190 Connector Name BACK DOOF Connector Type NSO4FW-CS H.S.	Terminal   Color     No.   Of Wire     3   W     4   B	Ę	SEC
ry system	Signai Name [Specification]	27	Signal Name [Specification]		L M
VEHICLE SECURITY SYSTEM Connector Name wine TO WIRE Connector Type MOZFW-GY-LC  MAZEW-GY-LC  LIS	Terminal Color No. of Wire Signal	Connector No. D182 Connector Name WIRE TO WIRE Connector Type MOZAWA-GY-LC	Terminal Color No. of Wire Signal		N O
				JCKWM0757GE	Б
					Р

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Connector No. E78 Connector Type HORN HIGH Connector Type POIFB-A	Terminal Color Signal Name [Specification] No. of Wire 1 G	Connector No. E105 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4  I I I I I I I I I I I I I I I I I I I	Terminal Color   Signal Name [Specification]   Signal Name [Specification]   12 P
Ocomestor No. E70 Commestor Name THEFT WARNING HORN RELAY Commestor Type M03FW-R-LC  M3 1	Terminal   Color   Signal Name   (Specification)	Connector No. E81 Connector Name HORN LOW Connector Type PUIFB-A	Terminal   Color   Signal Name [Specification]   2   B
Connector No. E15 Connector No. E15 Connector Name prover (NTELLICENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Type INSTIGNACS  (NT 167)  (NT 167)	Terminal Color Signal Name [Specification] No. of Wire 57 V	Connector No. E80 Connector Name HORN LOW Connector Type POIFE-A	Terminal Golor Signal Name [Specification] No. of Wire 1 G
VEHICLE SECURITY SYSTEM  Connector No. [13]  Connector Name DISTRIBUTION MODULE ENGINE ROOM)  Connector Type ITHISPW-NH  LS 27 26 25 4 23  34 33 22 31 30 29	Terminal   Color   Signal Name [Specification]   25   26   P   -	Connector No. E79 Connector Type HORN HIGH Connector Type POIFE-A  H.S.	Terminal   Color   Signal Name [Specification]   Name   Specification   2   B

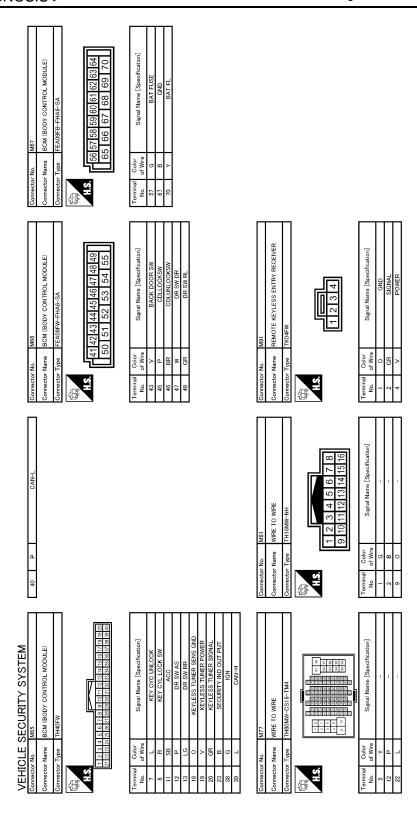
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# [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS >

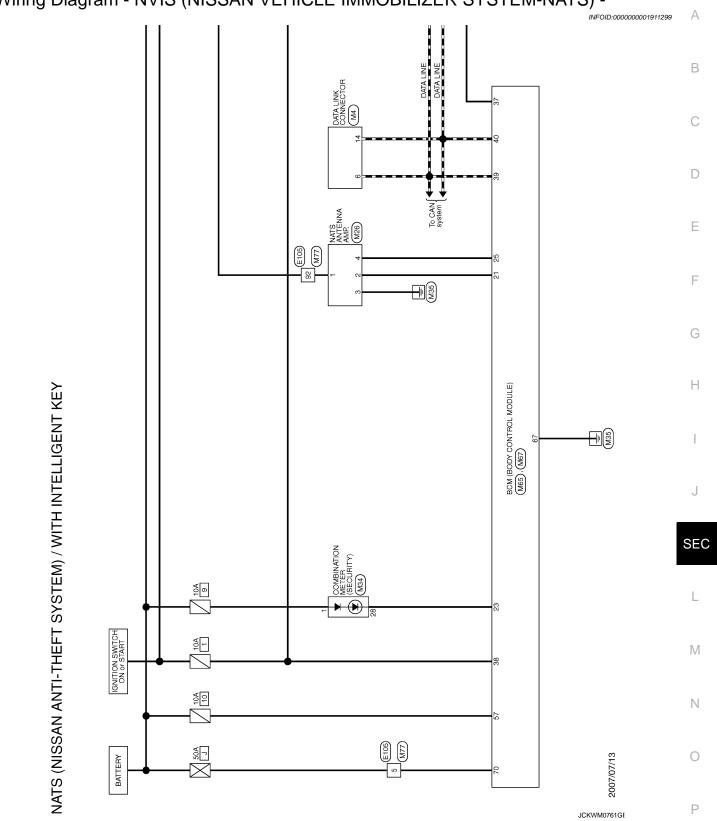
Cornector No.   M13	Connector No.   M40		A B C
Connector No. M11  Connector Type TH80FW-CS16-TM4  M.S. Terminal Color To Signal Name [Specification]  4 LG  9 LG	Connector No.   M34		E F G
Connector No.   M4	Connector No.   M19		J
VEHICLE SECURITY SYSTEM  Connector No. E113  Connector Type W02FW  Terminal Color Signal Name [Specification]  1 of Wire Signal Name [Specification]	Connector No.   M18		M N
		JCKWM0759Gŧ	Р

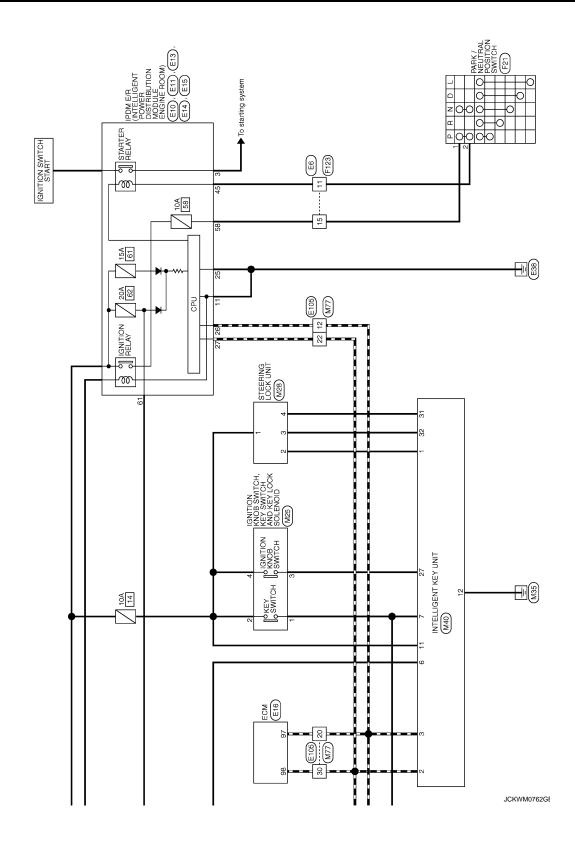
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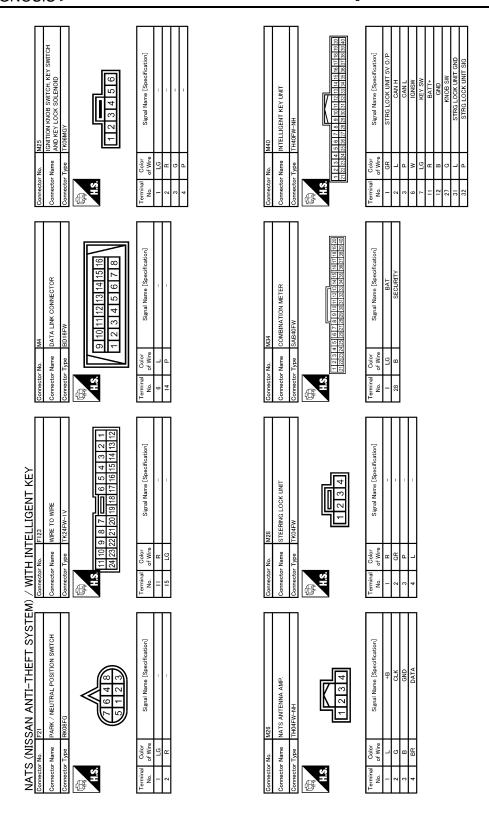
Wiring Diagram - NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) -



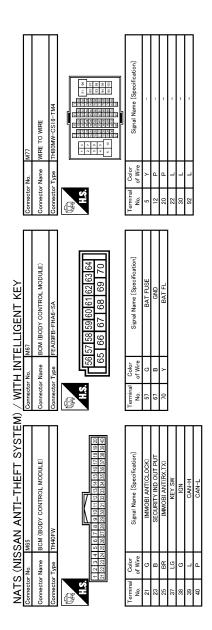


E ROOM)	[loi]	[0.0]		А
E13 PDM E/R (INTELLIGENT POWER DISTRBUTION MODULE ENGINE ROOM) THI 2PW-NH  28 27 26 25 24 23 34 33 32 31 30 29	Signal Name [Specification]	W-CS16-TM4 W-CS16-TM4 W-CS16-TM4 Signal Name (Specification)		В
		W W E C C C C C C C C C C C C C C C C C		С
Connector No. Connector Name Connector Type H.S.	Terminal   Color	Connector Name   Connector Type   Connector Type   Connector Type   Color No. of Wie		D
MER ROOM)	cation)	estional and a series of the s		Е
PDM E/R (INTELLIGENT POWER DISTRABUTION MODULE ENGINE ROOM) MOFFB-LC  11 10 9  14 13 12	Signal Name [Specification]	ELG MAAZ4FE-MEA8-RH MAAZ4FE-MEA8-RH SI 88 89 89 97 [10] 105 [109 82 88 99 99 [10] 105 [109 82 88 99 99 [10] 105 [109 Signal Name [Specification] VEHCAN-H VEHCAN-H		F
	Color B	MAAA24FE E C M MAAA24FE B B B B B B B B B B B B B B B B B B B		G
Connector No. Connector Name Connector Type	Terminal No.	Connector No. Connector Type Connector Type Terminal Color 9 9 P 9 P		Н
POWER ENGINE ROOM)	oeoffication]	NT POWER LE ENGINE ROOM) 49 48 47 56 55 54 (Specification)		I
WITH INTELLIGENT KEY mercor No. E10 incortor Name information Module Engine ROOM) mercor Type MOSFTRBUTTON MODULE ENGINE ROOM) MAGENY-LC  5 4 3 8 7 6	Signal Name [Specification]	E15 IPDM E-R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) NSIGHW-CS  52 51 50		J
/ WITH INTEL Geneetor No. E10 Connector Name (PDM Connector Type MODE MARKET Type MODE MARKET TYPE MAR	usi Codor O Wire	No. 17ype 62 Color of Wine R		SEC
	Terminal No. 3		•	L
THEFT SYS	Signal Name (Specification)	TION MODULE ENGINE ROOMER TION MODULE ENGINE ROOM TION MODULE ENGINE ENGINE TION MODULE E		M
NATS (NISSAN ANTI-THEFT  Connector No. 66  Connector Nome WIRE TO WIRE  Connector Type ITE/4MW-1V  M.S. 1 2 3 4 5 6 6 7 8 9 9 12 13 14 15 16 17 18 19 20 21 22 1	Signal Nam	E14 IPOM E-/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) NS12FBR-CS 39 38 736 35 46 45 44 43 42 41 40 Signal Name [Specification]		Ν
NATS (NISS Connector No. E Connector Name W Connector Type T 1 2 3 12 13 14 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	Color   Colo	Connector No.  Connector Name Definition  Connector Type  H.S.  H.S.  A5  A5  A5		0
	<u> -                                     </u>		JCKWM0763GE	
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# Fail Safe

### REAR WIPER MOTOR PROTECTION

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

When the rear wiper auto stop 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 >

[WITH INTELLIGENT KEY SYSTEM]

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

#### HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

#### NOTE:

The blinking speed is normal while activating the hazard warning lamp.

### DTC Inspection Priority Chart

INFOID:0000000003246882

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	C1704: LOW PRESSURE FL C1705: LOW PRESSURE RR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [CODE ERR] RR C1720: [CODE ERR] RR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR C1727: [VALT SPEED SIG ERR] C1727: 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.

DTC	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-35
C1704: LOW PRESSURE FL	×	
C1705: LOW PRESSURE FR	×	WT-14
C1706: LOW PRESSURE RR	×	<u>VV1-14</u>
C1707: LOW PRESSURE RL	×	

### < ECU DIAGNOSIS >

# [WITH INTELLIGENT KEY SYSTEM]

DTC	Tire pressure monitor warning lamp ON	Reference	_
C1708: [NO DATA] FL	×		
C1709: [NO DATA] FR	×	WT-16	В
C1710: [NO DATA] RR	×	- <u>vv1-10</u>	
C1711: [NO DATA] RL	×		
C1712: [CHECKSUM ERR] FL	×		C
C1713: [CHECKSUM ERR] FR	×	W/T 40	
C1714: [CHECKSUM ERR] RR	×	- <u>WT-19</u>	
C1715: [CHECKSUM ERR] RL	×		
C1716: [PRESS DATA ERR] FL	×		
C1717: [PRESS DATA ERR] FR	×	W/T 22	Е
C1718: [PRESS DATA ERR] RR	×	- <u>WT-22</u>	
C1719: [PRESS DATA ERR] RL	×		
C1720: [CODE ERR] FL	×		F
C1721: [CODE ERR] FR	×	N/T 24	
C1722: [CODE ERR] RR	×	- <u>WT-24</u>	(-
C1723: [CODE ERR] RL	×		
C1724: [BATT VOLT LOW] FL	_		
C1725: [BATT VOLT LOW] FR	<del>-</del>	WT-27	-
C1726: [BATT VOLT LOW] RR	_	<u> </u>	
C1727: [BATT VOLT LOW] RL	_		1
C1729: VHCL SPEED SIG ERR	×	<u>WT-30</u>	_
C1735: IGN CIRCUIT OPEN	_	BCS-36	_

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# **INTELLIGENT KEY UNIT**

Reference Value

### VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item		Condition	Value/Status
PUSH SW	lanition knob	Release	OFF
1 0011 000	Igrillori kilob	Press	ON OFF ON ON OFF ON OFF ON ON OFF
KEY SW	Mochanical koy	Removed	OFF ON OFF
KLI SW	Wechanical key	Inserted	
DR REQ SW	Door request switch	Release	OFF
DR REQ 3W	(driver)	Press	ON
AS REQ SW	Door request switch	Release	OFF
AS ILLO SW	(passenger)	Press	ON
BD/TR REQ SW	Door request switch	Release	OFF
DD/TK REQ 3W	(back door)	Press	ON
IGN SW	lanition quitab	Other than ON position	OFF
IGN SW	ignition switch	ON position	ON
ACC SW	Ignition quitch	Other than ACC or ON position	OFF
AUU 300	ignition switch	ACC or ON position	ON
STOP LAMP SW	Proke nodel	Press	OFF
STOP LAIMP SW	Втаке редаг	Release	ON
P RANGE SW	Ignition knob  Mechanical key  Door request switch (driver)  Door request switch (passenger)  Door request switch (back door)  Ignition switch  Ignition switch  Brake pedal  Shift position  Lock button of Intelligent Key  Unlock button of Intelligent Key  PANIC button of key fob  Door (driver side)  Door (passenger side)  Door (rear RH)  Door (rear LH)	P position	ON
P RANGE SW		Other than P position	OFF
BD OPEN SW		The item is indicated, but not me	onitored.
TR CANCEL SW		The item is indicated, but not me	onitored.
DOOD I OOK SIC	Lock button of	Release	OFF
DOOR LOCK SIG	Intelligent Key	Press	ON
DOOD LINI OOK SIG	Unlock button of	Release	OFF
DOOR UNLOCK SIG	Intelligent Key	Press	ON
KEYLESS TRUNK		The item is indicated, but not me	onitored.
KEVI EGO DANIO	PANIC button of key	Release	OFF
KEYLESS PANIC	fob	Press	ON
KEYLESS PSD LH		The item is indicated, but not me	onitored.
KEYLESS PSD RH		The item is indicated, but not me	onitored.
KEYLESS PBD SIG		The item is indicated, but not me	onitored.
DOOD SW DD	SW Door request switch (driver)  SW Door request switch (passenger)  EQ SW Door request switch (back door)  Ignition switch  Ignition switch  Ignition switch  SPANIC STRUNK  SPANIC PANIC button of key fob  SPSD LH  SPSD RH  SPBD SIG  W AS Door (passenger sid  W RR Door (rear RH)	Close	OFF
DOOR SW DR	Door (anver side)	Open	ON
DOOD CW AC	Door (ng	Close	OFF
DOOR SW AS	Lock button of Intelligent Key  Unlock button of Intelligent Key  PANIC button of key fob  Door (driver side)  Door (passenger side)  Door (rear RH)	Open	ON
DOOD CW DD	Door (*** - ** DU)	Close	OFF
DOOR SW RR	Ignition knob  Mechanical key  Door request switch (driver)  Door request switch (passenger)  Door request switch (back door)  Ignition switch  Ignition switch  Brake pedal  Shift position  Lock button of Intelligent Key  Unlock button of Intelligent Key  PANIC button of key fob  Door (driver side)  Door (passenger side)  Door (rear RH)  Door (rear LH)	Open	ON
DOOD OW DI	Ignition knob  Mechanical key  Door request switch (driver)  Door request switch (passenger)  Door request switch (back door)  Ignition switch  Ignition switch  Brake pedal  Shift position  Lock button of Intelligent Key  Unlock button of Intelligent Key  PANIC button of key fob  Door (driver side)  Door (passenger side)  Door (rear RH)	Close	OFF
DOOR SW RL	Door (rear LH)	Open	ON

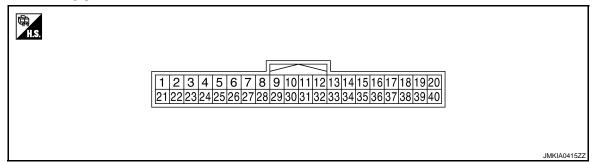
### **INTELLIGENT KEY UNIT**

### < ECU DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

Monitor Item		Condition	Value/Status	
DOOR BK SW	Back door	Close	OFF	
	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]			
+	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	_	Front door re- quest switch (driver side)	ON (Pressed)	0			
(Y)	Ground	switch (driver side)	Input		OFF (Released)	5			
6	Ground	Ignition switch power	Input	Ignition switch	OFF or ACC	0			
(W)	Ground	supply	iliput	igilillon switch	ON or START	Battery voltage			
7	Ground	Key switch	Kov switch	Kay switch	Kov switch	1	When ignition I tion key cylinde	key is inserted into ignier	Battery voltage
(LG)	Ground	Rey Switch	Input	When ignition lignition key cyl	key is not inserted into inder	0			
10	Ground	Park position switch	Input	Shift lever in pa	ark position	0			
(SB)	Ground	Park position switch	Input	Other than abo	ove	Battery voltage			
11 (R)	Ground	Battery power supply	Input	Ignition switch	OFF	Battery voltage			
12 (B)	Ground	Ground	_	Ignition switch	ON	0			

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### [WITH INTELLIGENT KEY SYSTEM]

	ninal No.	Description				Value [V]							
+ (wir	e color)	Signal name	Input/ Output		Condition	(Approx.)							
13	Ground	Inside key antenna	Output	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1   1   1   1   1   1   1   1   1   1							
(Y)	Clound	(+) (rear seat)	Сири	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0391ZZ							
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							
(BR)		(-) (rear seat)						Ignition knob is pressed.	is pressed.	is pressed.	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0390ZZ
15	Ground	Inside key antenna	Output	lgnition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0393ZZ							
(R)	Siound	(+) (console)	Cutput	Ignition knob is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0  MINIMOS91ZZ							

### **INTELLIGENT KEY UNIT**

	ninal No. re color)	Description			O a selection of	Value [V]	А
+	-	Signal name	Input/ Output	'	Condition	(Approx.)	, ,
16	Cround	Inside key antenna	Output	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0392ZZ	B C
(G)	Ground	(-) (console)	Output	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 1 s JMKIA0390ZZ	E F
17	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   I   I   I   I   I   I   I   I   I	G H
(W)	Ciodila	(+) (rear bumper)	Сири	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0  MI  JMKIA0514ZZ	J SEC
18	Ground	Outside key antenna	Output	When the back door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0395ZZ	M
(R)	Ground	(-) (rear bumper)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0515ZZ	O P

Terminal No.		Description				Value [V]	
+ (wir	e color)	Signal name	Input/ Output	Condition		(Approx.)	
19 (BR)	Ground	Outside key antenna (+) (driver side)	Output	When the front door request switch (driver side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0397ZZ	
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0  MI	
20 (O)	Ground	Outside key antenna (-) (driver side)	Output	When the front door request switch (driver side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0395ZZ	
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s	
25	Ground	Front door request switch (passenger side)	Input	Front door request switch (passenger side)	ON (Pressed)	0	
(BR)					OFF (Released)	5	
26 (B)	Ground	Stop lamp switch	Input	Depress the brake pedal Release the brake pedal		Battery voltage 0	
27	Ground	Ignition knob switch	Input	Ignition switch OFF	When ignition knob switch is pressed	Battery voltage	
(G)					When ignition knob switch is released	0	
28	Ground	Unlock sensor	Input	Lock (ON)		5	
(W)			•	Unlock (OFF)	ON (Drossed)	0	
29 (SP)	Ground	Back door request switch	Input	Back door re- quest switch	ON (Pressed)  OFF (Released)	0 5	
31 (L)	Ground	Steering lock unit ground	_	_	_	0	

### **INTELLIGENT KEY UNIT**

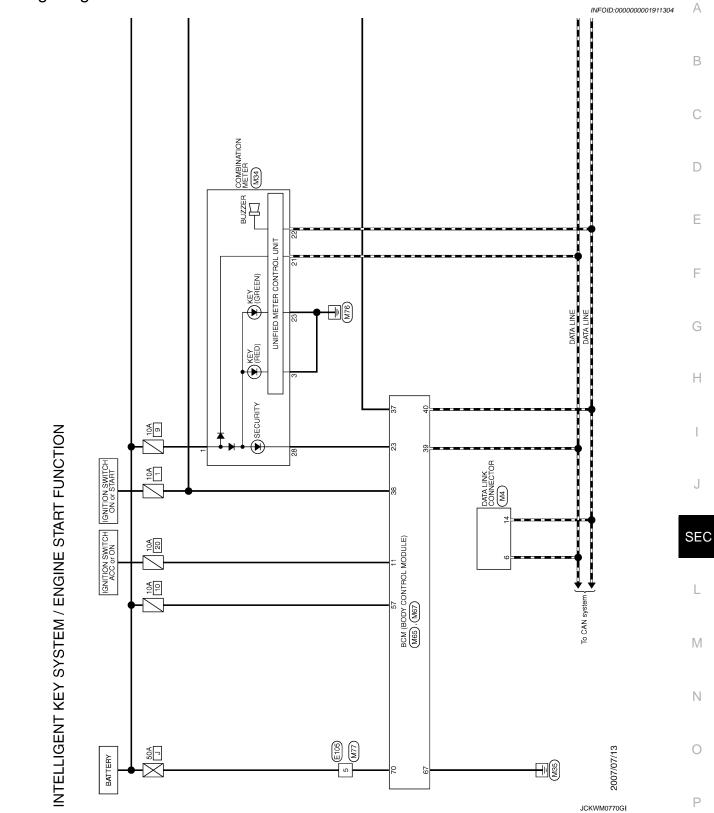
### [WITH INTELLIGENT KEY SYSTEM]

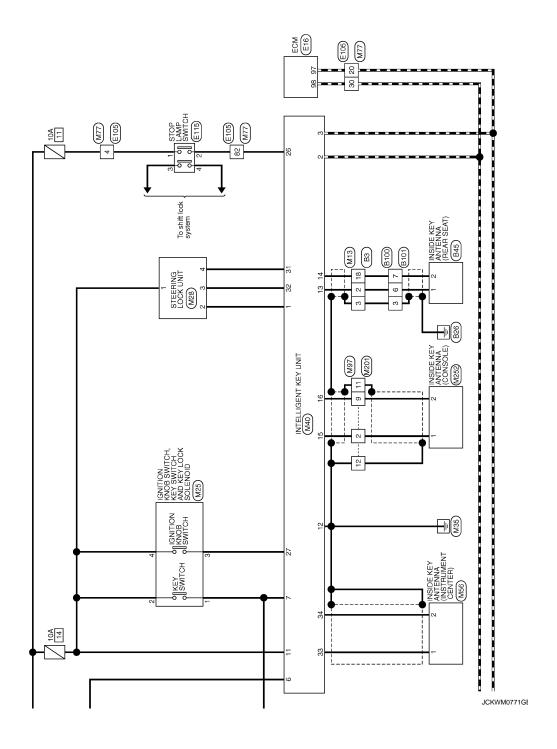
Terminal No. (wire color)		Description				Value [V]	А
+ (WII	re color)	Signal name	Input/ Output	Condition		(Approx.)	$\wedge$
32 (P)		Steering lock unit communication	Input/ Output	Steering lock	LOCK status	5	В
	Ground				LOCK or UNLOCK	(V) 6 4 2 0 100 ms JMKIA0433ZZ	C
33	Ground	Inside key antenna (+) (instrument center)	Output	Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1   1   1   1   1   1   1   1   1   1	E F G
(L)	Glound				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 4 1 s  JMKIA0391ZZ	Н
34 (P)	Ground	Inside key antenna (-) (instrument center)	Output	Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1	SEC
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0390ZZ	M N O

### [WITH INTELLIGENT KEY SYSTEM]

Terminal No. (wire color)		Description				Value [V]	
+ (WIF	e color)	Signal name	Input/ Output	Condition		(Approx.)	
37 (V)	Ground	Outside key antenna (+) (passenger side)	Output	When the front door request switch (passenger side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0397ZZ	
					When Intelligent Key is in the antenna detection area	(V) 15 10 5 0  JMKIA0514ZZ	
38 (P)	Ground	Outside key antenna (-) (passenger side)	Output	When the front door request switch (passenger side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0  JMKIA0395ZZ	
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0515ZZ	
40 (V)	Ground	Passenger side se- lective unlock relay	Input	Press front door request switch (pas- senger side)	Anti-hijack operation	Battery voltage → 0 → Battery voltage	
					Other than above	Battery voltage	

Wiring Diagram - INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION -

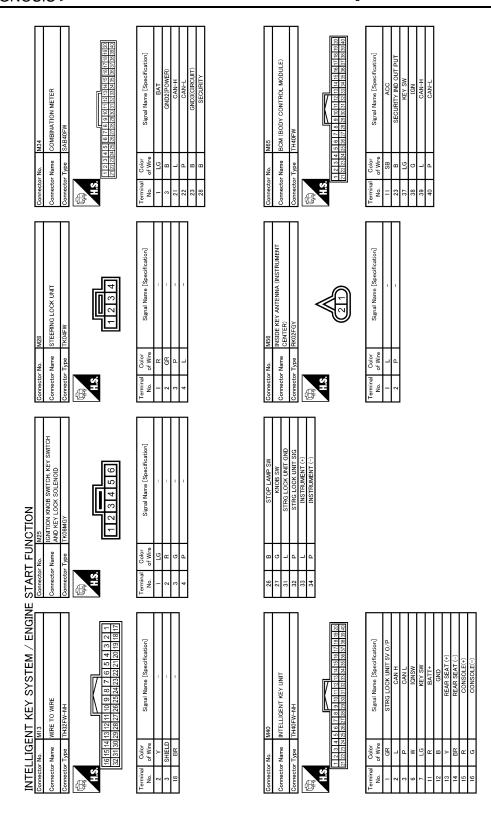




### **INTELLIGENT KEY UNIT**

Connector No.   B101	Connector No.   M4	A B C
Connector Na.   B100	Connector No.   E115	E F G
START FUNCTION  Connector No. B45  Connector Name INSIDE KEY ANTENNA (REAR SEAT)  Connector Type RROJFGY  A.S.  Terminal Color  I G  I G  I G  I G  I G  I G  I G  I	Connector No. E105  Connector Name WIRE TO WIRE  Connector Type TH50FVCS16-TM4  Line To Mile T	J
INTELLIGENT KEY SYSTEM / ENGINE Connector No. B3   Connector Name   WIRE TO WIRE	Connector No.   E16   Connector Name   E0M   Connector Type   MAA24EB-WEAB-REA   Ref.   Ref	M N O
		Р

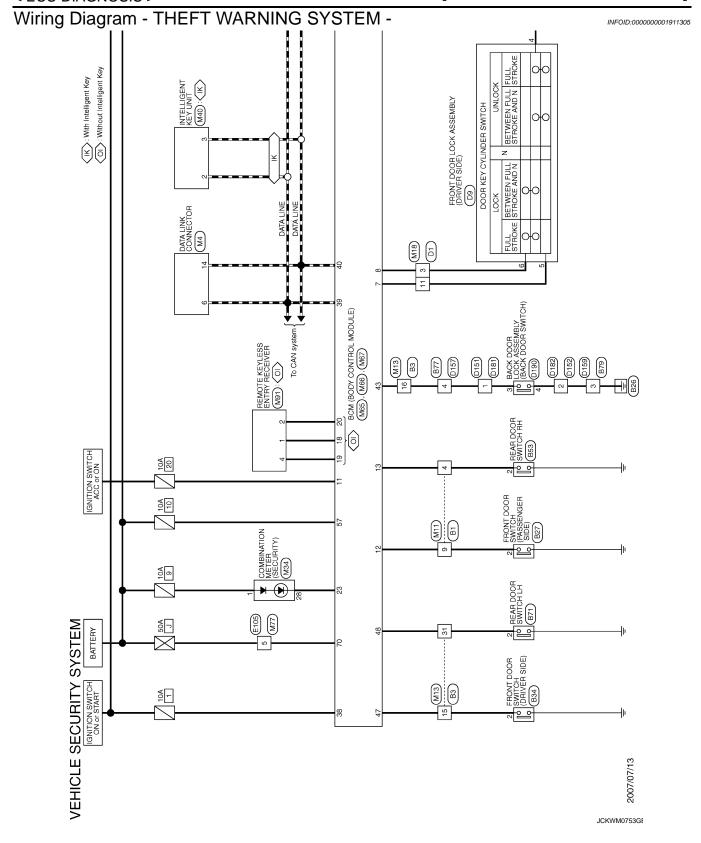
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JCKWM0773GE

### **INTELLIGENT KEY UNIT**

16 [16]			А
			В
MIRE TO NISIGNIW			С
Connector No. Connector Name Connector Type  Terminal Color No. of Wire  2 R 2 R 3 G 3 G 3 G 11 SHIEL  12 SHIEL			D
9 2 1 9 8 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Е
P-CS 13 12 11 10 9 8 Signal Name (Specification)			F
Connector No.   M97			G
Connector Na Connector Na Connector Ty H.S. H.S. 1 SH			Н
WIPT WIRE TO WIPE THEOMNI-CS16-TM4  THEOMNI-CS16-TM4  Signal Name (Specification)			I
WIRE TO WIRE THROWN-CSIG			Ü
START FUNCTION Connector No. M77 Connector Name WIRE TO WIRE Connector Type TH80MW-CSI Connector			SEC
<u></u>			L
EY SYSTEM / E  DY CONTROL MODULE)  -FHAG-SA  -FHAG-SA  59 60 61 62 63 64  67 68 69 70  Signal Name [Specification]  BAT FUSE  GND  BAT FLE  BAT FLE	M252 RNO2FGY RNO2FGY Signal Name [Specification]		M
ENT K M67 BCM (80 FEA09FB 5 66 5 66	M252 INSIDE KI RK02FGY		N
Connector No.  Connector Name Connector Name Connector Type Connec	Connector No. Connector Name Connector Type Connector Type Color Of Wire I Color I Col		0
		JCKWM0774GE	Р
			Г



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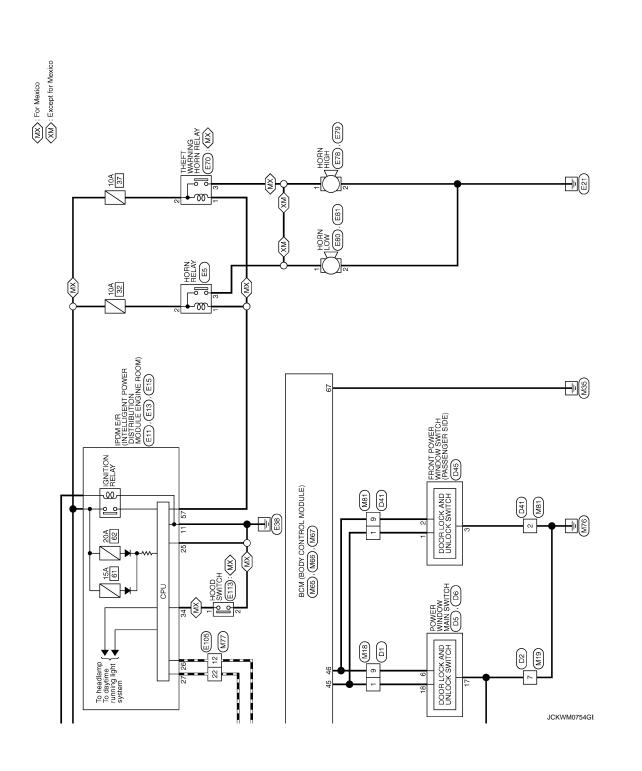
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o. B34	mme FRONT DOOR SWITCH (DRIVER SIDE) ppe A03FW		Color of Wire Signal Name [Specification]	o. B79	ame WIRE TO WIRE	/pe M04MW-LC	3 4	Color Signal Name [Specification]	-
Connector No.	Connector Name Connector Type	E.S.	Terminal 6	Connector No.	Connector Name	Connector Type	H.S.	Terminal 0 No. 0	- -
or No.   B27	or Name SIDE) or Type A03FW		Ocior Signal Name [Specification] of Wre BR	or No. B77	or Name WIRE TO WIRE	or Type NS10MW-CS	12 3 4 5 6 7 8 9 10	Color   Signal Name [Specification]   of Wire	- M
Connector No.	Connector Name Connector Type	HS.	Terminal No. 2	Connector No.	Connector Name	Connector Type	H.S.	Terminal No.	4
Connector No. B3	Connector Name WIRE TO WIRE Connector Type TH32MW-NH	8 6	Terminal Color No. of Vire Signal Name [Specification] 15 P	Connector No. B71	Connector Name REAR DOOR SWITCH LH	Connector Type A03FW	H.S.	Terminal Color Signal Name [Specification]	- 'B
		]							
VEHICLE SECURITY SYSTEM Connector No.   B1	9 9		Terminal Color   Signal Name [Specification]	Connector No. B53	Connector Name REAR DOOR SWITCH RH	Connector Type A03FW	<b>8 1 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3</b>	Terminal Color Signal Name [Specification] No.	- 6

JCKWM0755GE

#### **INTELLIGENT KEY UNIT**

Connector No. DG Connector Name Power WINDOW MAIN SWITCH Connector Type NSIGRYW-CS  H.S. Terminal Color Signal Name [Specification]  17 B	Connector No. D151 Connector Name WIRE TO WIRE Connector Type NS08FBR-CS  LLS  RM  A T T T T T T T T T T T T T T T T T T	A B C D
Connector No.   D5	Connector No. P45 Connector Name (PASSENGER SIDE) Connector Type NS12FW-CS  H.\$  Terminal Color Signal Name [Specification]  No. of Wire  2 B	E F G
Connector No. D2 Connector Name WIRE TO WIRE Connector Type NS16FW-CS  H.S.  T 6 5 4	Connector No.   D41	SEC
VEHICLE SECURITY SYSTEM   Commetter Name   WIRE TO WIRE   Connector Type   THIEPTY-NH	Connector No.   D9   Connector Name   FRONT DOOR LOCK ASSEMBLY (DRIVER   SIDE)   Connector Type   E08FGY-RS	M N
		JCKWM0756GE

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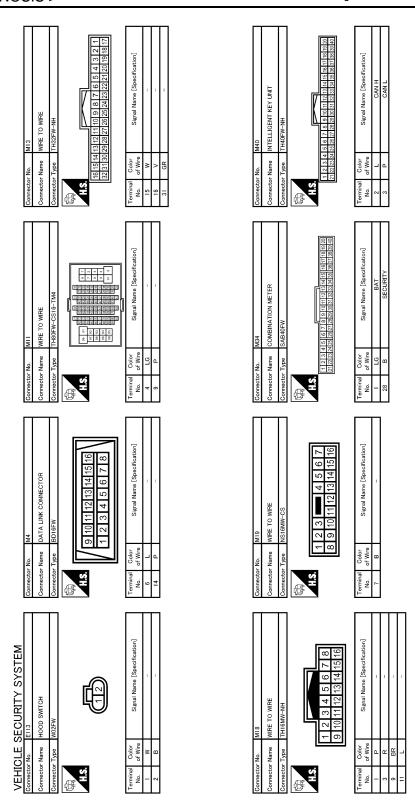
VEHICLE SECURITY SYSTEM  Commetter No. D152  Commetter Name WIRE TO WIRE	- 1 1 . 1		
Connector Type MOZFW-GY-LC	Connector Type NSIOPW-CS  H.S. 4 3 2 1 10 9 8 7 6 5	Connector Type   M04FW-LC	
Signal Name [Specification]	Terminal   Color   Signal Name [Specification]   A   W	Terminal Color Signal Name [Specification] 3 B	Terminal Color No. of Wire Signal Name [Specification]
D182 WRE TO WRE	Connector No. D190  Connector Name BACK DOOR LOCK ASSEMBLY	Connector No. E5 Connector Name HORN RELAY	Connector No. E11 Connector Name   IPDM E/R (INTELLIGENT POWER   INSTITE ITON MOTHER PROTAIL)
M02MW-GY-LC	Connector Type NS04FW-CS	Connector Type -	Connector Type M06FB-LC
<u>-</u> ¤	#S. 4 3 2 1	H.S. 3 1	H.S. 11109 141312
Signal Name [Specification] -	Terminal   Color   Signal Name [Specification]   No   W	Terminal Golor   Signal Name [Specification]   Of Wire   Signal Name [Specification]   OR	Terminal   Color   Signal Name [Specification]

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### **INTELLIGENT KEY UNIT**

ation]			aton]		А
3H	l I I	W-CS16-TM4	Signal Name (Speedification)		В
171 7 171	D	Type III NOVE III NOV	0 4 kg		С
Connector No Connector No Connector Na Connector Typ	Connector No.	Connecto	0 No. 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		D
RELAY orification]			edfration)		Е
E70 THEFT WARNING HORN RELAY MOSFW-R-LC  2 311 Signal Name [Specification]	HORN LOW		Signal Name (Specification)		F
	9	Type POIFB-A	D Mree		G
Connector No. Connector Type Connector Type H.S. Terminal Color No. Original Color No. Original Color No. Original Color No.	Commetter No.	Connector H.S.	N N N		Н
E15  PEDM E-R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) NS16FW-CS  [62 51 50			Signal Name (Specification)		I
E15 NSIGNAL CANTELL DISTRIBUTION MAN NSIGNACS NSIGNACS  [61 60 59 58 60 60 59 58 60 60 60 60 60 60 60 60 60 60 60 60 60	MO1 NBOH 103		Signal M		J
Connector No. El Connector Name DEP Connector Name DEP Connector Type NS HS. ESS ESS ESS ESS ESS ESS ESS ESS ESS E	V No.	Color	No of Wire of the other of the othe	S	SEC
WQ			$\overline{\Box}$		L
VEHICLE SECURITY SYSTEM  Domestor No.    E13   Domestor No.   Dome	1 1 1 1		Signal Name (Specification)		M
	<del>                                     </del>	P01FB-A	Ш		Ν
Connector No Connector No Connector No Connector Type R  H.S.  Terminal Color No. of Wive	25 B P 27 L W 34 W Connector Name	H.S. H.S. Terminal Color	2 of Wildows		0
			<del></del>	JCKWM0758GE	
					Р

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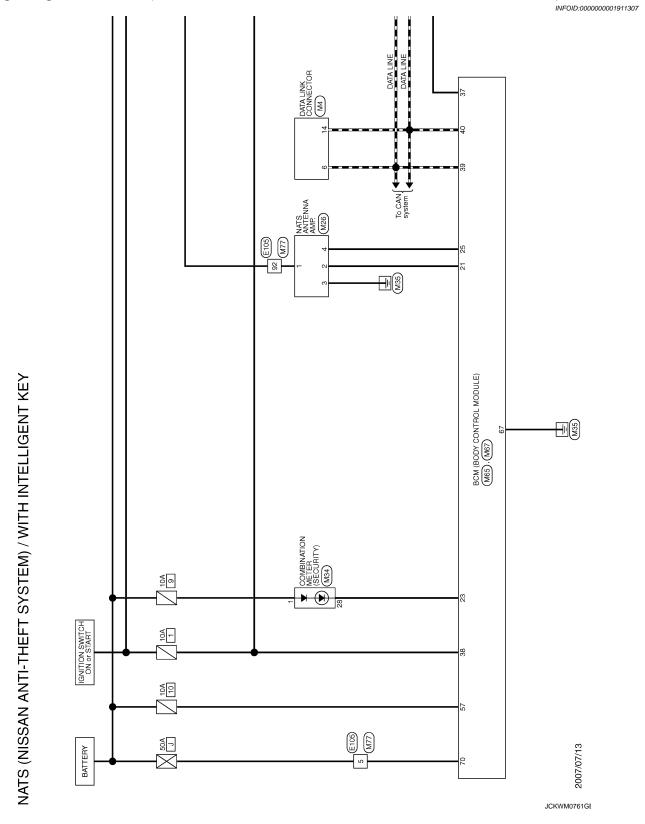


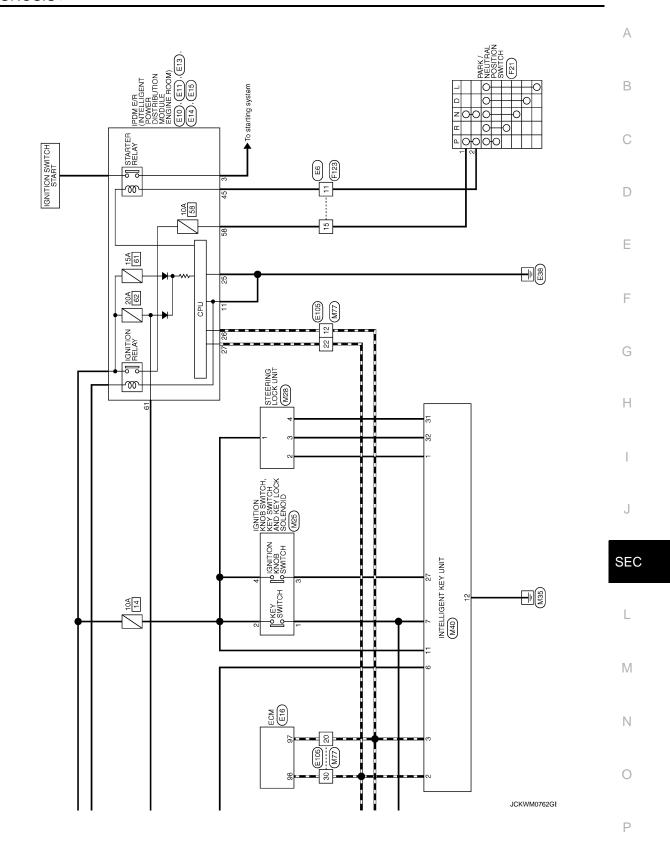
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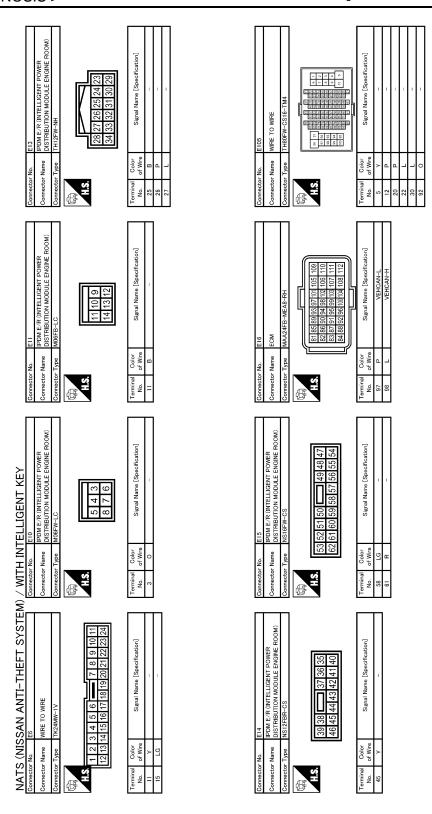
J64 70	aton]				А
Г. морі 62 63	Signal Name Especification) BAT FUSE GND BAT FL				В
	Coolor of Wire G				С
Connector No. Connector Type	Terminal 1 No. 0 57 67 70				D
200LE) 4849	offication] S SW SW KSW I.I.	REGEIVER	refreation)		Е
M66 BCM (BODY CONTROL MODULE) FEA03FW-FHA6-SA 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	Signal Name (Specification) BACK DOOR SW CDLLOCKSW CDLNLOCKSW CDLNLOCKSW DR SW DR DR SW DR DR SW RL	REMOTE KEYLESS ENTRY RECEIVER TKG4FW	Signal Manne [Specification] GND SIGNAL SIGNAL POWER		F
	1 O 0 o o o o o o o o o o o o o o o o o o	و و	of Wire		G
Connector No. Connector Typ	1 Terminal No. No. 43. 45 46 46 46 48	Connector No. Connector Name Connector Typ	Terminal   No. 1   1   2   2   2   2   4   4		Н
CANYL		6 7 8 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Signal Name [Specification]		I
Ö		II RRE TO WIRE II SMW-NH	Signal Name		J
G G		Connector No. MR Connector Name WILL Connector Type Th. H.S. H.S.	Terminal Color   No. of Wire   No. of Wire   1   2   B   2   9   0		SEC
(2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	ion] GND UT T				L
MEG MEDY CONTROL MODULE) TH40FW SE F S S S S S S S S S S S S S S S S S S	Signal Name [Specification] KEY CYC UNLOOK KEY CYC LULO SOK KEY CYC LLOOK SW ACC DR SW AS DR SW AS DR SW AS KEYLESS TUNER SIGNAL KEYLESS TUNER SIGNAL SECURITY NID OUT PUT IGN CAN-H CAN-H	FTM44	Signal Name [Specification]		M
4 2		M77 WIRE TO WIRE TH80MW-CS1(			Ν
Connector Name Connector Type Connec	Terminal Color No. of Wire P. 1   1   SB   1   1   1   1   1   1   1   1   1	Connector No. Connector Name Connector Type	Color   Colo		0
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Wiring Diagram - NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) -





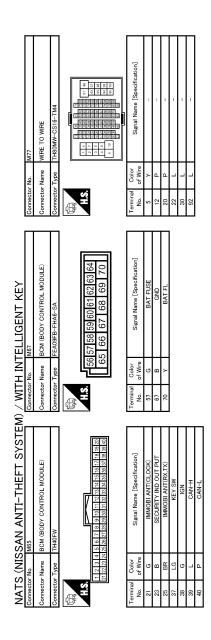


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#### **INTELLIGENT KEY UNIT**

Connector No. M25 Connector Name Idantion KNUB SWITCH, KEY SWITCH AND KEY LOCK SOLENDID Connector Type TKOBMGY ALS.	No. of Wire   Signal Name [Specification]   Of Wire   Signal Name [Specification]   Signal Name   Specification]   Specification   Signal Name   Specification]   Signal Name   Specification]   Signal Name   Specification]   Signal Name   Specification]   Specification   Signal Name   Specification   Spec	Connector Name INTELLIGENT KEY UNIT  Connector Type ITH40PP-1NH  Connector Type ITH40PP-1NH  (12 3 4 5 6 7 8 9 00 ft 28 9 10 ft 28 9	Terminal   Color   Signal Name [Specification]   Color   Signal Name [Specification]	A B C
Connector No. M4  Connector Name DATA LINK CONNECTOR  Connector Type BD16FW  H.S.   9   10   11   12   13   14   15   6   7   8	Terminal   Color   Signal Name [Specification]   No. of Wire   Color   L   L   L   L   L   L   L   L   L	Connector No.   M34	Terminal   Color   Signal Name [Specification]   No. of Wire   LG   BAT   28   B   SECURITY	E F G
A) / WITH INTELLIGENT KEY Connector No. F123 Connector Name WIRE TO WIRE Connector TX24FW-1V  TX24FW-1V  H.S. 11 10 9 8 7 6 5 4 3 2 1  24 23 22 21 20 19 18 17 16 15 14 13 12	Terminal Color   Signal Name [Specification]   No.   11   R	Connector No. M28 Connector Name STEERING LOCK UNIT Connector Type TKO4PW  H.S.	Terminal   Color   Signal Name (Specification)   No. of Wire   Signal Name (Specification)   2   GR     -     4   L   -     -	J
NATS (NISSAN ANTI-THEFT SYSTEM) Connector No. F21 Connector Name PARK / NEUTRAL POSITION SWITCH Connector Type RKOBFG  H.S. 7 6 4 8	Terminal Color   Signal Name [Specification]   1   LG   2   R   -	Connector No. M26 Connector Name NATS ANTENNA AMP. Connector Type TH0AFV-NH  H.S.	Terminal   Color   Signal Name [Specification]   Color   Nure   Specification]   Color   Col	M N
				JCKWM0764GE

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JCKWM0765GE

Fail Safe

Display contents of CONSULT-III	Fail-safe	Cancellation
B2013: STRG COMM 1	Inhibits steering look unlocking	Erase DTC
B2552: INTELLIGENT KEY	<ul> <li>Inhibits steering look unlocking</li> <li>Inhibits engine cranking (BCM)</li> <li>Fuel cut</li> </ul>	Erase DTC

**Erase DTC** 

(ECM)

(BCM)
• Fuel cut (ECM)

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### DTC Inspection Priority Chart

**B2590: NATS MALFUNCTION** 

INFOID:0000000003246889

INFOID:0000000003246888

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

· Inhibits steering look unlocking

· Inhibits engine cranking

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.	testing —		_
U1000: CAN COMM CIRCUIT	Intelligent Key unit cannot receive CAN communication signal continuously for 2 seconds or more	_	Check CAN communication system. Refer to DLK-53
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-43

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# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) < ECU DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

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

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

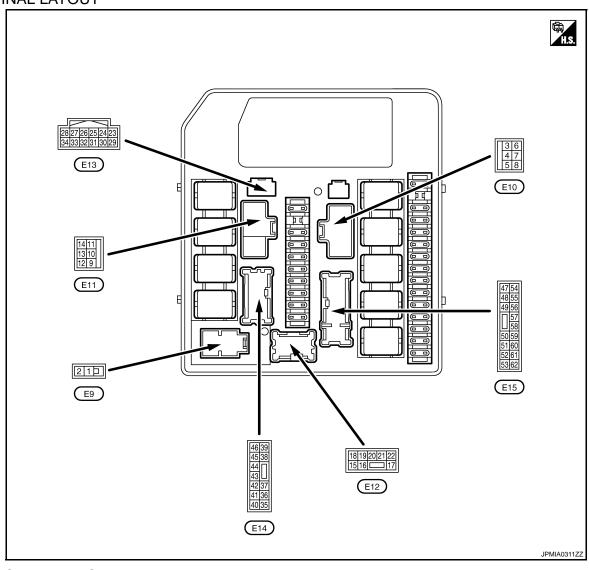
Monitor Item		Condition	Value/Status
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	1 - 4
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL SOLD DEO	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST or 2ND		On
LII LO DEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND		On
	3 - 3		Off
HL HI REQ	Lighting switch HI (Light is il	luminated)	On
FR FOG REQ		Front fog lamp switch OFF	Off
<b>NOTE:</b> 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 144D DE 0		Front wiper switch INT	1LOW
FR WIP REQ	Ignition switch ON	Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
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 outside the vehicle, and the push switch is pushed		Off
Vehicle without Intelligent Key system indicates only "ON", and it does not change.	When Intelligent Key is inside the vehicle, and the push switch is pushed		On
IGN RLY	Ignition switch OFF or ACC		Off
IGN ALT			On
		Rear window defogger switch OFF	Off
RR DEF REQ	Ignition switch ON	Rear window defogger switch ON (Rear window defogger is operating)	On
OII D CW	Ignition switch OFF, ACC or	engine running	Open
OIL P SW	Ignition switch ON		Close
DTRL REQ	Daytime running light system	m is not operated.	Off
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light syster	n is operated.	On

#### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS >

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
	Horn is activated with key fob LOCK operation.	On

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

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

**SEC-127** Revision: 2008 January 2008 Rogue В

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# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) ECU DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS >

	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
3	Ground	Starter relay power supply	Output	When engine is clan	king	Battery voltage
(O)	Ground	Starter relay power supply	Odiput	When engine is not	clanking	0 V
4	Ground	Cooling fan relay-1 power	Output	Cooling fan opera-	OFF	0 V
(W)	Crouna	supply	Output	tion	MID or HI	Battery voltage
5	Ground	Ignition switch START	Input	Ignition switch OFF,	ACC or ON	0 V
(R)	Ground	igiliaon emion en avi	mpat	Ignition switch STAR	Ignition switch START	
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)	Crouna	ground		tion	HI	0 V
8	Ground	Cooling fan relay-2 power	Output	Cooling fan opera-	OFF	0 V
(G)	Crouna	supply	Output	tion	HI	Battery voltage
11 (B)	Ground	Ground	_	Ignition switch ON		0 V
12	Ground	Rear window defogger re-	Outout	Ignition switch ON	Rear window defogger switch OFF	0 V
(O)	Ground	lay power supply	Output	Ignition switch ON	Rear window defogger switch ON	Battery voltage
15* <sup>1</sup>	0	Daytime running light relay	Oter	Daytime running	Not operated	Battery voltage
(SB)	Ground	control	Output	light system	Operated	0 V
16* <sup>2</sup>	Cround	Front for James (LLI)	Outrout	Lighting switch	Front fog lamp switch OFF	0 V
(Y)	Ground	Front fog lamp (LH)	Output	2ND	Front fog lamp switch ON	Battery voltage
17* <sup>2</sup>	Cround	Front for Jamp (BU)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(W)	Ground	Front fog lamp (RH)	Output	2ND	Front fog lamp switch ON	Battery voltage
18	Ground	Headlamp LO (LH)	Output	Lighting switch OFF		0 V
(L)	Ground	rieadiamp LO (Li i)	Output	Lighting switch 2ND		Battery voltage
20	Ground	Headlamp LO (RH)	Output	Lighting switch OFF		0 V
(SB)	Cround	ricadiamp 20 (IVII)	Odiput	Lighting switch 2ND		Battery voltage
21				Lighting switch OFF		0 V
(G)	Ground	Headlamp HI (LH)	Output	<ul><li>Lighting switch 2N</li><li>Lighting switch PA</li></ul>		Battery voltage
22				Lighting switch OFF		0 V
(LG)	Ground	Headlamp HI (RH)	Output	<ul><li>Lighting switch 2N</li><li>Lighting switch PA</li></ul>		Battery voltage
23	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped	0 V
(W)	Giodila	On pressure switch	iiiput	Ignition Switch ON	Engine running	Battery voltage
24					Front wiper stop position	0 V
(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		_	_
27 (L)	_	CAN-H	Input/ Output		_	_

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### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS >

	nal No. color)	Description		_	O contraction	Value
+	- COIOT)	Signal name	Input/ Output		Condition	(Approx.)
31	Graves	Cooling for roles: 4 control	Outro-4	Cooling fan opera-	OFF	Battery voltage
(LG)	Ground	Cooling fan relay-4 control	Output	tion	LO	0 - 1.0 V
20					ximately 2 seconds or more ition switch from ON to OFF	Battery voltage
32 (V)	Ground	ETC relay control	Input	<ul> <li>Ignition switch ON</li> <li>For approximately tion switch from C</li> </ul>	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* <sup>3</sup>				Close the hood		Battery voltage
(W)	Ground	Hood switch	Input	Open the hood		0 V
		Tail licance plate lamps		Lighting switch OFF		0 V
37 (R)	Ground	Tail, license plate lamps and illuminations	Output	Lighting switch 1ST		Battery voltage
				Lighting switch OFF		0 V
38 (R)	Ground	Parking lamp (LH)	Output	Lighting switch 1ST		Battery voltage
				Lighting switch OFF		0 V
39 (GR)	Ground	Parking lamp (RH)	Output	Lighting switch OFF Lighting switch 1ST		
				0 0		Battery voltage
40 (BR)	Ground	Ignition relay power supply	Output	ŭ		0 V
(DIX)						Battery voltage
41	Ground	Ignition relay power supply	Output	9		0 V
(O)				Ignition switch ON	T	Battery voltage
42	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch OFF	0 V
(L)				3	Front wiper switch HI	Battery voltage
43	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch OFF	0 V
(G)	Orouna	Tronk impor 20	Output	ignicon evitori en	Front wiper switch LO	Battery voltage
45					Selector lever "P" or "N"	Battery voltage
(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	Output	<ul> <li>Ignition switch OF</li> <li>After passing appragree after turning the ignition</li> </ul>	roximately 1 second or more	0 V
(W)	Ground	supply	Output	<ul><li>For approximately ignition switch ON</li><li>Engine running</li></ul>	/ 1 second after turning the	Battery voltage
47					ximately 4 seconds or more ition switch from ON to OFF	0 V
(BR)	Ground	ECM relay power supply	Output	<ul> <li>Ignition switch ON</li> <li>For approximately tion switch from C</li> </ul>	4 seconds after turning igni-	Battery voltage
48					ximately 4 seconds or more ition switch from ON to OFF	0 V
48 (R)	Ground	ECM relay power supply	Output	Ignition switch ON     For approximately tion switch from C	4 seconds after turning igni-	Battery voltage
50		Onelline for sold 5	0.4	Cooling fan opera-	OFF	Battery voltage
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V

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# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) < ECU DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

	nal No.	Description					
+ (Wire	color)	Signal name	Input/ Output	(	Condition	(Approx.)	
51					ximately 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					ximately 2 seconds or more tion switch from ON to OFF	0 V	
(P)	Ground	ETC relay power supply	Ignition switch ON     For approximately 2 tion switch from ON		2 seconds after turning igni-	Battery voltage	
				Engine stopped		0 V	
55	55 (O) Ground A/C relay power supply Output				A/C switch OFF	0 V	
		Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage		
56	0	Legisian assistate ON		Ignition switch OFF or ACC		0 V	
(L)	Ground	Ignition switch ON	Input	Ignition switch ON		Battery voltage	
57	Ground	Horn relay control	Output	The horn is not activ	vated	Battery voltage	
(V)	Giodila	Hom 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)	Giodila	ignition relay power supply	Output	Ignition switch ON		Battery voltage	
59	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V	
(BR)	Ground	ignition relay power supply	Output	Ignition switch ON		Battery voltage	
60	Ground	Ignition relay power supply	Output	Ignition switch OFF	or ACC	0 V	
(SB)	Ground	ignition relay power supply	Output	Ignition switch ON		Battery voltage	
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage	

<sup>\*1:</sup> With daytime running light system

<sup>\*2:</sup> With front fog lamp system

<sup>\*3:</sup> For Mexico

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

[WITH INTELLIGENT KEY SYSTEM] < ECU DIAGNOSIS > Wiring Diagram - INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION -Α В C COMBINATION METER (M34) D Е UNIFIED METER CONTROL UNIT F KEY (GREEN) G KEY (RED) Н 10**A** NTELLIGENT KEY SYSTEM / ENGINE START FUNCTION DATA LINK CONNECTOR IGNITION SWITCH ON or START 10**A** J IGNITION SWITCH ACC or ON SEC BCM (BODY CONTROL MODULE)
(M65), (M67) 10A 10**A** L To CAN system. M Ν

5 M77

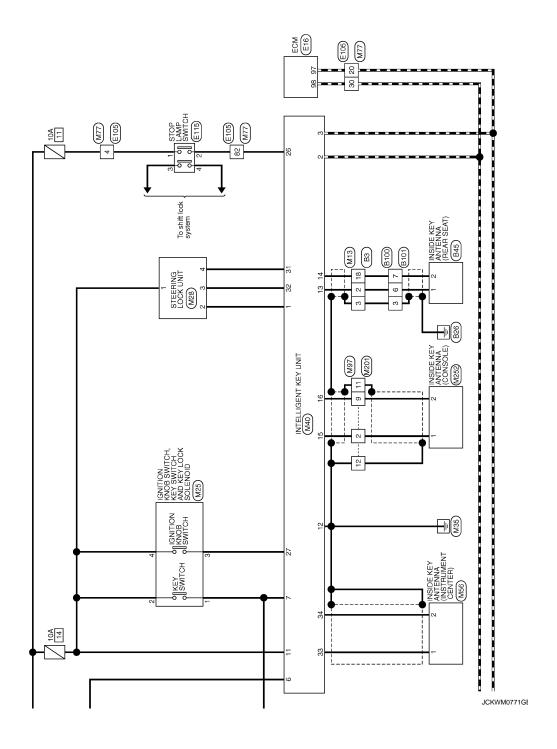
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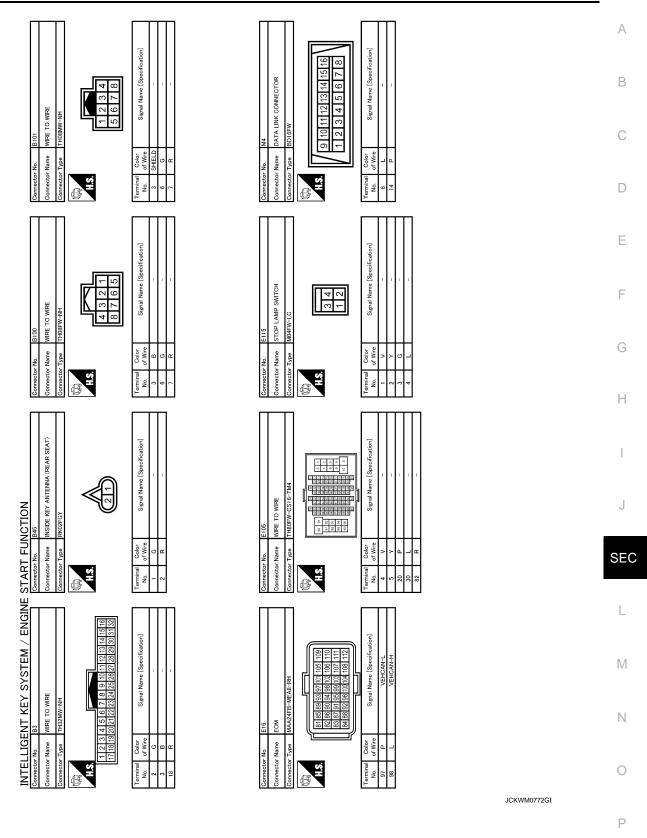
2007/07/13

JCKWM0770GE



#### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM]

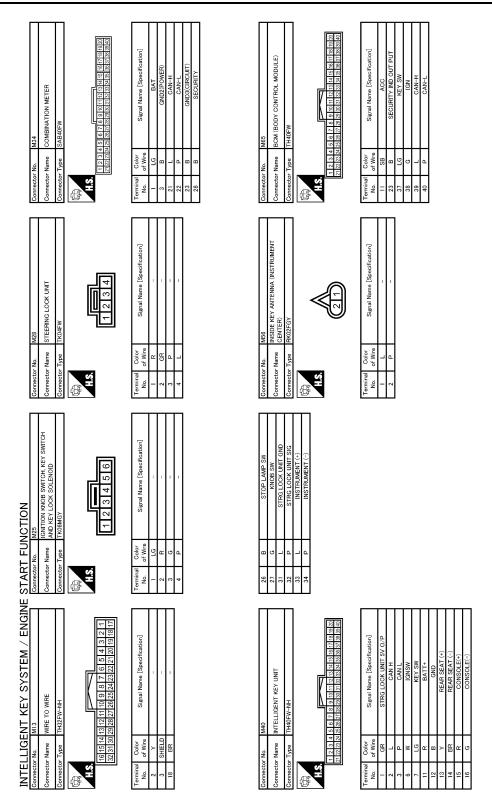
< ECU DIAGNOSIS >



**SEC-133** Revision: 2008 January 2008 Rogue

#### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS >



JCKWM0773GE

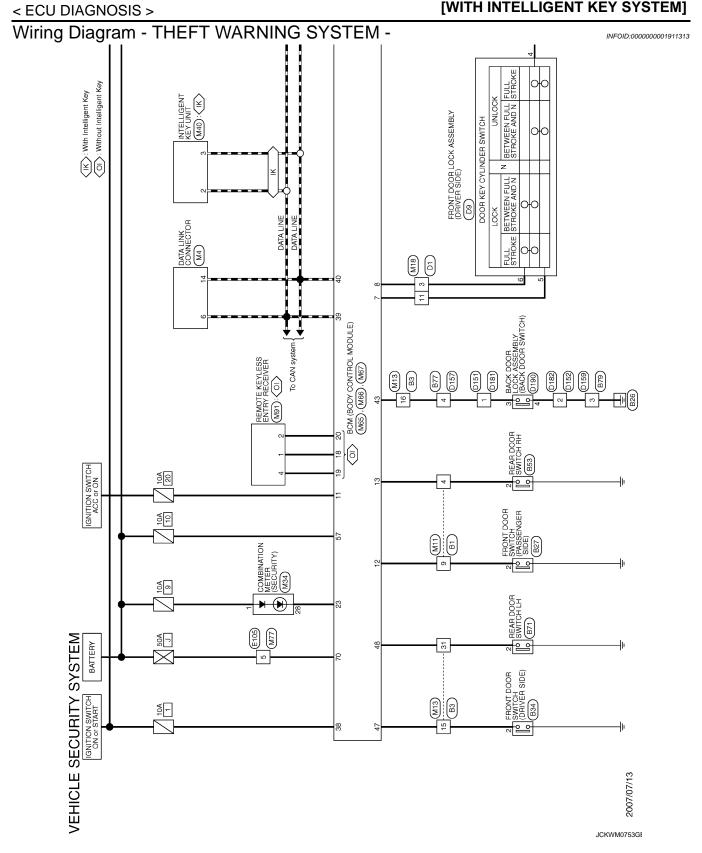
#### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM] < ECU DIAGNOSIS >

Α В C D Е Signal Name [Specification] F G Н J START FUNCTION SEC INTELLIGENT KEY SYSTEM / ENGINE L Signal Name [Specification] INSIDE KEY ANTENNA (CONSOLE) BCM (BODY CONTROL MODULE) M Ν 0 JCKWM0774GE

**SEC-135** Revision: 2008 January 2008 Rogue

Ρ

## IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) -CU DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]



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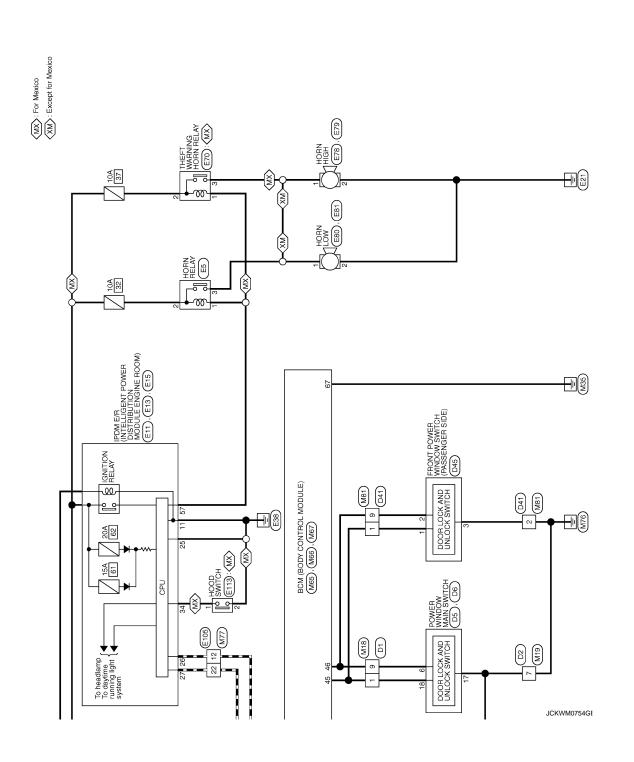
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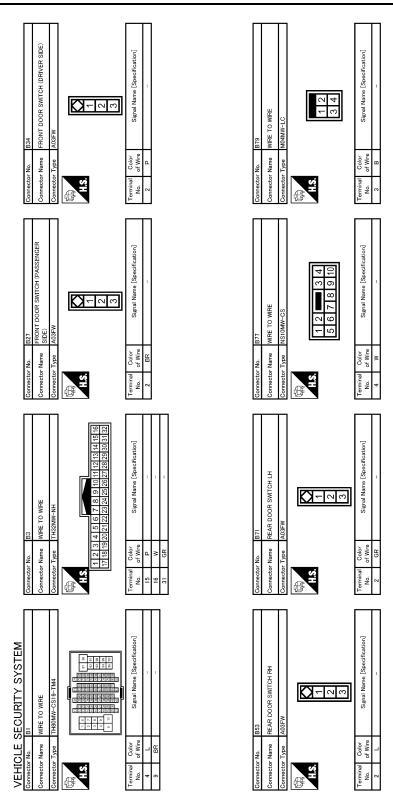
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Revision: 2008 January SEC-137 2008 Rogue

#### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS >



JCKWM0755GE

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

[WITH INTELLIGENT KEY SYSTÉM] < ECU DIAGNOSIS >

Connector No. D6 Connector Name POWER WINDOW MAIN SWITCH Connector Type NS03FW-C5  H.S. Trimple Color Signal Name [Specification]  No. of Wire Signal Name [Specification]  17 B P -	Connector No.   D151   Connector Name   WIRE TO WIRE   Connector Type   NSIGEBR-CS   Signal Name   Specification]   Terminal   Color No.   Color No.	A B C
Connector No.   D5   Connector Name   POWER WINDOW MAIN SWITCH	Connector No.   D45   Connector No.   D45   Connector Name   PASSENGER SIDE	E F G
Connector No.   D2   Connector Name   WIRE TO WIRE   Connector Type   NSI IFW-CS     Connector Type   NSI IFW-CS     Connector Type   NSI IFW-CS   Connector Type   NSI IFW-CS   Connector Type   NSI IFW-CS   Connector Type   C	Connector No.   D41	J SEC
VEHICLE SECURITY SYSTEM  Connector Name WIRE TO WIRE  Connector Type THI6FW-NH  Terminal Color No Yill Color No P  Terminal Color No No No No P  Terminal Color No No No No No P  Terminal Color No No No No No P  Terminal Color No No No No No No P  Terminal Color No N	Connector No.   D9   Connector Name   RNN TOOR LOCK ASSEMBLY (DRIVER SIDE)   Connector Type   E08FGY-RS	M  N  O  JCKWM0756GE
		Р

**SEC-139** Revision: 2008 January 2008 Rogue

### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS >

VEHICLE SECURITY SYSTEM			
Connector No. D152	Connector No. D157	Connector No. D159	Connector No. D181
Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE
Connector Type M02FW-GY-LC	Connector Type NS10FW-CS	Connector Type M04FW-LC	Connector Type NS08MBR-CS
#\$   	HS. 4 3 - 2 1 10 9 8 7 6 5	H.S.	H.S. 1 2 1 2 1 4 5 6 7 8
Terminal   Color   Signal Name [Specification]   2   B	Color   Color   Signal Name [Specification]   4 W		Terminal Color Signal Name [Specification]
Connector No. D182 Connector Name WIRE	Connector No. D190 Connector Name BACK DOOR LOCK ASSEMBLY	Connector No. E5 Connector Name HORN RELAY	Connector No. E11  Connector Name   IPDM E/R (INTELLIGENT POWER  Connector Name   DISTRIBUTION MODULE ENGINE ROOM)
Connector Type M02MW-GY-LC	Connector Type NS04FW-CS	Connector Type -	ector Type
H.S.	H.S. 4 3 2 1	4.8 3 2 3 1	H.S. 1110 9 14 13 12
Terminal   Color   Signal Name [Specification]   No. of Wire   2 B	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   3   Wire   -   -	Terminal Color   Signal Name [Specification]   Orl Wire   Color   Co	Terminal   Color   Signal Name [Specification]   11   B

JCKWM0757GE

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

[WITH INTELLIGENT KEY SYSTÉM] < ECU DIAGNOSIS >

ofication]	effeation)		Α
F78 HORN HIGH POIFB-A Signal Name [Specification]	WRE TO WRE TH80FW-CS16-TM4    N		В
Connector No. E Connector No. E Connector Types P L S. H.S. H.S. Color No. of Wire I G C	Connector No.  Connector Type I Terminal Color No.  Terminal Color No.  S. Y. 22 L.  222 L.		D
ARNING HORN RELAY H.C  2 311  Signal Name [Specification]	Wignal Name (Specification)		Е
E70 THEFT W MO3FW-F	HORN LC POIFB-A		F G
Connector No. Connector Name Connector Types H.S. H.S.  Terminal Color No. of Wire 1 V V 2 R R 3 G G	Connector No. Connector Name Connector Type H.S. H.S.  Terminal Color No. of Wife 2 B		Н
E15 IPDM E.R (INTELLIGENT POWER DISTRIBUTION MODILE ENGINE ROOM) NS16FW-CS  52 51 50 7 66 55 54  Signal Name [Specification]	W Signal Name [Specification]		I
	HORN LC	_	J
Connector No. Connector Name Connector Type H.S. FST No. of Wire ST V	Connector No. Connector Name Connector Type H.S. I e of Wife I Good	Ş	SEC
RITY SYSTEM THON MODULE ENGINE FOOM) WH TOO	Signal Name [Speedfeation]		L M
SECUI F13 PDM E/A DISTRIBL 3432 3432	HORN HIG		Ν
VEHICLE & Connector No. Connector Name Connector Type Connector Ty	Odomector No. Connector Name Connector Type  Terminal Color No. of Wire 2 B	(CAMMATEC)	0
		JCKWM0758Gt	Р

**SEC-141** Revision: 2008 January 2008 Rogue

## IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) < ECU DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

Signal Name [Specification] INTELLIGENT KEY UNIT WIRE TO WIRE Signal Name [Specification] COMBINATION METER WIRE TO WIRE Signal Name [Specification] Signal Name [Specification] DATA LINK CONNECTOR WIRE TO WIRE Signal Name [Specification] Signal Name [Specification] VEHICLE SECURITY SYSTEM HOOD SWITCH WIRE TO WIRE

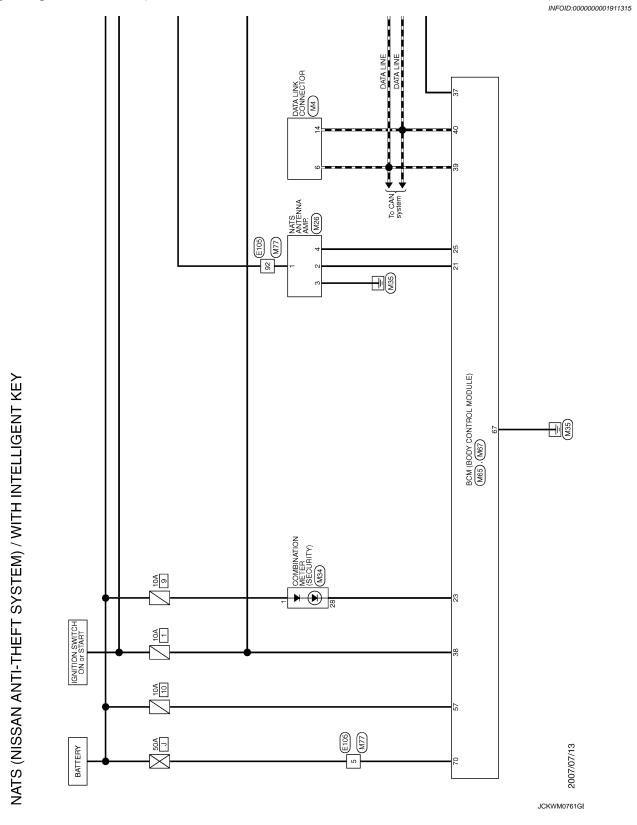
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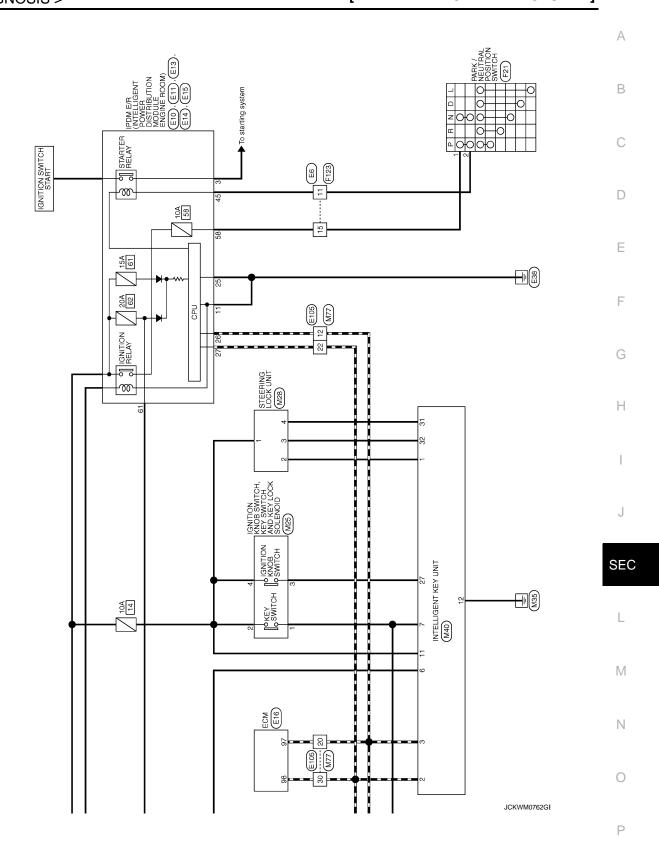
## IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

[WITH INTELLIGENT KEY SYSTÉM] < ECU DIAGNOSIS >

M67 ECA08FB-FHARB-SA FEA08FB-FHARB-SA [57] 58 59 60 61 62 63 64 [66] 67 68 69 70	Signal Name (Specification)  BATFUSE GNID BATFL.				АВ
Connector No. M67 Connector Name BCM (BO Connector Type FEA09FB MAS. H.S. 65 66	Terminal Color No. of Wire 57 G 67 B 70 Y				C
мев Всм (вору сомтроц морце) FEA08FW-FHA6-SA 42 43 44 45 46 47 48 49 0 51 52 53 54 55	Signal Name [Specification] BACK DOOR SW CDLLOOKSW CDLUNLOOKSW DR SW DR DR SW PR	REMOTE KEYLESS ENTRY RECEIVER TKG4FW  1 2 3 4	Signal Name [Specification] GMD SIGNAL POWER		E
ector No.	Color   Signal   No. of Wire   Signal   AS   V   E   AS   AS   AS   AS   AS   AS   AS	ector No. ector Name ector Type	Color   Color   No. of Wire   Color   O   Color   Co		G
Conn	T	Comm			Н
CAN-L.		H H H S 6 7 8 12 13 14 15 16	Signal Name [Specification]		I
40 P		Connector No. M81 Connector Name WIRE TO WIRE Cornector Type THI 6MW-NH H.S. 1 2 3 4	Terminal Color No. of Wire 1 G 2 E E 9 O		SEC
(2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4					L
SECURITY SYSTEM  M65  BCM (BODY CONTROL MODULE)  TH40FW  TH40FW  TH5 E 7 8 9 10 H1 12 M 15	Signal Name [Specification]  KRY CYC LOCK  KRY CYC LOCK SW  ACC  DR SW AS  DR SW AS  DR SW AS  REVLESS TUNER SIGNAL  SECURITY NIO OUT PUT  GAN -H	TO WIRE	Signal Name [Specification]		M
		M77 WIRE TO WIRE TH80MV-CS16-TM  S S S S S S S S S S S S S S S S S S S			Ν
Connector No. Connector Name Connector Type A.S. A.S. A.S. A.S. A.S. A.S. A.S. A.S	Terminal Colors No. of Wire 7	Connector No. Connector Type Connector Type H.S.	Color   Colo		0
	<u> </u>		<u> -                                    </u>	JCKWM0760GE	
					Р

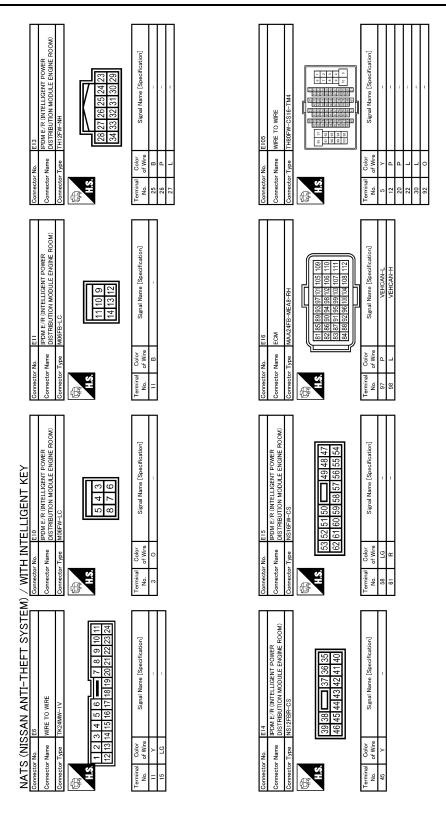
**SEC-143** Revision: 2008 January 2008 Rogue Wiring Diagram - NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) -





# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS >



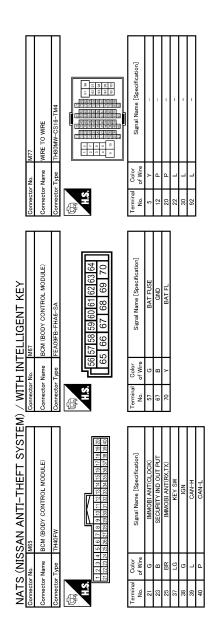
JCKWM0763GE

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

[WITH INTELLIGENT KEY SYSTÉM] < ECU DIAGNOSIS >

Connector No. M25 Connector Name ICANTTON KROB SWITCH KEY SWITCH AND KEY LOCK SOLENOID Connector Type TKOBMOY  TKOBMOY  TKOBMOY  1 2 3 4 5 6	No.   Signal Name [Specification]   No.   Orlor   Signal Name [Specification]     No.	M40   Connector No.   M40   Connector Name   INTELLIGENT KEY UNIT   Connector Type   TH40FW-NH     TH2   14   5   7   8   9   9   11   12   14   5   7   8   9   9   11   12   14   15   15   15   15   15   15   15	No.   Signal Name [Specification]   No.   Of Wire   Signal Name [Specification]   No.   Of Wire   STRG LOOK UNIT SV O/P   Of Name   Of		A B
Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW  MAS  A 5 6 7 8  A 1 2 3 4 5 6 7 8	Terminal   Color   Signal Name [Specification]   Terminal   Octor   Nico   Octor   Nico   Octor   Nico   Octor   Oct	Connector No.   M34   Connector Name   Conference   Con	Terminal   Color   Signal Name   Specification   No. of Wise   LG   BAT   1   1   1   1   1   1   1   1   1		D E F
/ WITH INTELLIGENT KEY   Gonnector Name   WRE TO WIRE   Connector Type   TR24FW-1V	Terminal Color No. of Wire 11 R	Connector No. M28 Connector Name STEERING LOCK UNIT Connector Type TKG4FW  H.S. TKG4FW	Terminal   Color   Signal Mame   Specification		H J SEC
NATS (NISSAN ANTI-THEFT SYSTEM) Connector Name PARK / NEUTRAL POSITION SWITCH Connector Type RROBFG  H.S.  7 6 4 8 5 1 2 3	Terminal Color No. of Wire 1 LG 2 R	Connector No. MZ8 Connector Name NATS ANTENNA AMP. Connector Type THOMFW-NH  H.S.	Terminal   Color   Signal Name [Specification]   Olive   Signal Name [Specification]   1		M N
				JCKWM0764GE	Р

**SEC-147** Revision: 2008 January 2008 Rogue



JCKWM0765GE

Fail Safe INFOID:0000000003246885

### 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) [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS >

Control part	Fail-safe in operation
Cooling fan	<ul> <li>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</li> <li>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</li> <li>Cooling fan relay-4 OFF</li> </ul>
A/C compressor	A/C relay OFF

#### If no CAN communication is available with BCM

Control part	Fail-safe in operation	
Headlamp	<ul> <li>The headlamp low relay turns ON when the ignition switch is turned ON</li> <li>The headlamp low relay turns OFF when the ignition switch is turned OFF</li> <li>Headlamp high relay OFF</li> </ul>	
<ul><li>Parking lamps</li><li>License plate lamps</li><li>Tail lamps</li><li>Illuminations</li></ul>	<ul> <li>The tail lamp relay and the daytime running light relay* turn ON when the ignition switch is turned ON</li> <li>The tail lamp relay and the daytime running light relay* turn OFF when the ignition switch is turned OFF</li> </ul>	
Front wiper	<ul> <li>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.</li> <li>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.</li> </ul>	
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/N juaginient	Ореганоп	
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 auto stop signal.

When the front wiper auto stop 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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<sup>\*:</sup> With daytime running light system

<sup>\*:</sup> With daytime running light system

# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS >

Ignition switch	Front wiper switch	Front wiper auto stop signal
ON	OFF	The front wiper auto stop signal (stop position) cannot be input for 10 seconds.
ON	ON	The front wiper auto stop 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:0000000003246886

CONSULT display	Fail-safe	TimingNOTE		Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	PAST	PCS-13
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.

**SEC-150** Revision: 2008 January 2008 Rogue

### **SECURITY CONTROL SYSTEM**

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# SYMPTOM DIAGNOSIS

# SECURITY CONTROL SYSTEM

Symptom Table

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

No.	Function	Operation condition	Symptom	Diagnosis Item	Reference page
				KEY warning lamp (GREEN) illuminates	SEC-152
1	INTELLIGENT KEY SYSTEM/ ENGINE START	KEY SYSTEM/ Ignition switch turn ON	Ignition switch does not turn ON	KEY warning lamp does not illuminate	SEC-152
	FUNCTION			KEY warning lamp (RED) il- luminates	SEC-153
		Engine start	Engine can not start	_	SEC-154
		Lock all doors with Intelligent Key or door request switch	Vehicle security system can not be set	_	SEC-156
	VEHICLE 2 SECURITY SYSTEM	Lock all doors with Intelligent Key or request switch.	Security indicator does not turn ON or flash	_	SEC-155
2		In the armed phase, open the door	Vehicle security system does not active	_	SEC-157
		When alarm sound, press Intelligent Key button	Vehicle security system can	_	SEC-158
		When alarm sound, press door request switch	not be canceled	_	SEC-159

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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:0000000001911324

#### NOTE:

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

KEY WARNING LAMP (GREEN) ILLUMINATES: Diagnosis Procedure

INFOID:0000000001911325

# 1. CHECK STEERING LOCK UNIT

Check steering lock unit.

Refer to SEC-98, "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-41, "Intermittent Incident".

NO >> GO TO 1.

KEY WARNING LAMP DOES NOT ILLUMINATE

# KEY WARNING LAMP DOES NOT ILLUMINATE: Description

INFOID:0000000001911326

#### NOTE:

Before performing the diagnosis, check "Work Flow". Refer to <u>SEC-6, "Work Flow".</u>

# KEY WARNING LAMP DOES NOT ILLUMINATE : Diagnosis Procedure

INFOID:0000000001911327

# 1. CHECK INTELLIGENT KEY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check Intelligent Key unit power supply and ground circuit.

Refer to SEC-44, "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-52, "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-50, "Component Function Check".

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

## 4. CONFIRM THE OPERATION

Confirm the operation again.

### Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

# **IGNITION KNOB SWITCH DOES NOT TURN ON**

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< SYMPTOM DIAGNOSIS > [WITH INTELL	IGENT KEY SYSTEM]
KEY WARNING LAMP (RED) ILLUMINATES	
KEY WARNING LAMP (RED) ILLUMINATES: Description	INFOID:000000001911328
NOTE: • Before performing the diagnosis, check "Work Flow". Refer to <u>SEC-6, "Work Flow"</u> .  KEY WARNING LAMP (RED) ILLUMINATES: Diagnosis Procedu	
1.CHECK INSIDE KEY ANTENNA	
Check inside key antenna.  Refer to SEC-56, "INSTRUMENT CENTER: 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. s the result normal?	
YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".  NO >> GO TO 1.	

**SEC-153** Revision: 2008 January 2008 Rogue

### ENGINE CAN NOT START WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# ENGINE CAN NOT START WITH INTELLIGENT KEY

Description INFOID:000000001911330

### NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to DLK-12, "Work Flow".

# Diagnosis Procedure

INFOID:0000000001911331

# 1. CHECK KEY SWITCH

Check key switch.

Refer to SEC-50, "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-41, "Intermittent Incident".

NO >> GO TO 1.

### SECURITY INDICATOR DOES NOT TURN ON OR FLASH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# SECURITY INDICATOR DOES NOT TURN ON OR FLASH

Description INFOID:0000000001911344

NOTE:

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

Diagnosis Procedure

INFOID:000000001911345

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1. CHECK VEHICLE SECURITY INDICATOR

Check vehicle security indicator.

Refer to SEC-63, "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-41, "Intermittent Incident".

NO >> GO TO 1.

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Revision: 2008 January SEC-155 2008 Rogue

### VEHICLE SECURITY SYSTEM CAN NOT BE SET

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# VEHICLE SECURITY SYSTEM CAN NOT BE SET

Description INFOID:000000001911332

### NOTE:

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

# Diagnosis Procedure

INFOID:0000000001911333

# 1. CHECK DOOR LOCK FUNCTION

Check door lock function.

Refer to DLK-16, "DOOR LOCK AND UNLOCK SWITCH: 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-54, "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-41, "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:0000000001911336

NOTE:

Before performing the diagnosis, check "Work Flow". Refer to <u>SEC-6, "Work Flow".</u>

Diagnosis Procedure

INFOID:0000000001911337

1. CHECK DOOR SWITCH

Check door switch.

Refer to SEC-46, "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-61, "EXCEPT FOR MEXICO: Component Function Check". (Except for Mexico)

Refer to SEC-61, "FOR MEXICO: Component Function Check". (For Mexico)

Is the inspection results normal?

>> GO TO 3. YES

NO >> Repair or replace malfunction part.

 $oldsymbol{3}.$ CHECK HEADLAMP OPERATION

Check headlamp operation by lighting switch.

Does headlamp come on when turning switch ON?

YES >> GO TO 4.

>> Check headlamp system. Refer to EXL-6, "Work Flow". (XENON type), Refer to EXL-134, "Work NO

Flow". (HALOGEN type)

Confirm the operation again.

4. CONFIRM THE OPERATION

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1. **SEC** 

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**SEC-157** Revision: 2008 January 2008 Rogue

# 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:000000001911338

### NOTE:

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

# Diagnosis Procedure

INFOID:0000000001911339

# 1. CHECK INTELLIGENT KEY SYSTEM

Check Intelligent Key system.

Refer to DLK-19, "INTELLIGENT KEY: System Description".

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>DLK-12</u>, "Work Flow".

# 2. CONFIRM THE OPERATION

Confirm the operation again.

### Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

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

[WITH INTELLIGENT KEY SYSTEM]

### < SYMPTOM DIAGNOSIS > VEHICLE SECURITY SYSTEM CAN NOT BE CANCELED WITH DOOR RE-Α **QUEST SWITCH** Description INFOID:0000000001911340 В NOTE: Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow". Diagnosis Procedure INFOID:0000000001911341 1. CHECK INTELLIGENT KEY SYSTEM D Check Intelligent Key system. Refer to DLK-19, "INTELLIGENT KEY: System Description". Is the inspection result normal? Е

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Confirm the operation again.

>> GO TO 2.

2.CONFIRM THE OPERATION

>> Refer to <u>DLK-12</u>, "Work Flow".

Is the result normal?

YES

NO

YES >> Check intermittent incident. Refer to GI-41, "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 AIRBAG" 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 the "SRS AIRBAG".
- Do not 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.

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 knob 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.
- 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.

### FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and

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### "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 AIRBAG" 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 the "SRS AIRBAG".
- Do not 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.

FOR MEXICO: 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 knob 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.

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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.
- 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.

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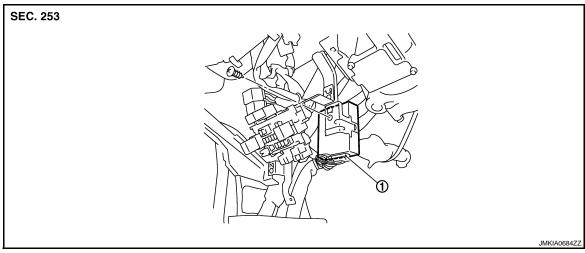
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# **ON-VEHICLE REPAIR**

# INTELLIGENT KEY UNIT

**Exploded View** 

INFOID:0000000001911348



Intelligent Key unit M40

### Removal and Installation

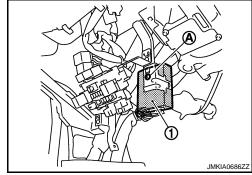
INFOID:0000000001911349

### **REMOVAL**

- Remove lower instrument panel (driver side). Refer to <u>IP-13, "Removal and Installation"</u>.
- 2. Remove the Intelligent Key unit mounting screw (A), and then remove Intelligent Key unit (1).

### NOTE:

Perform the system initialization when replacing Intelligent Key unit. Refer to <u>SEC-9</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".



### **INSTALLATION**

Install in the reverse order of removal.

# NATS ANTENNA AMP.

**Exploded View** 

INFOID:0000000001911350

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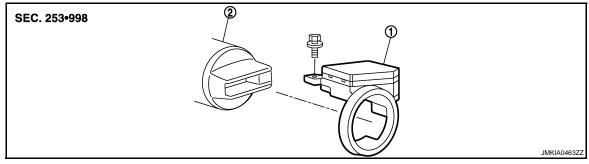
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1. NATS antenna amp.

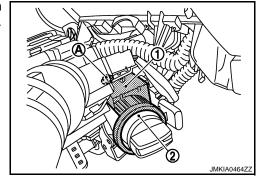
2. Steering lock assembly

### Removal and Installation

INFOID:0000000001911351

### **REMOVAL**

- Remove the steering column cover. Refer to <u>IP-13</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.

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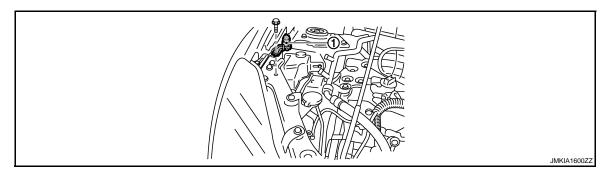
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### [WITH INTELLIGENT KEY SYSTEM]

# **HOOD SWITCH**

Exploded View

### **HOOD SWITCH**



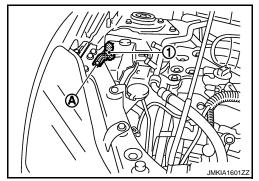
Hood switch

### Removal and Installation

INFOID:0000000001911355

### **REMOVAL**

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



### **INSTALLATION**

Install in the reverse order of removal.

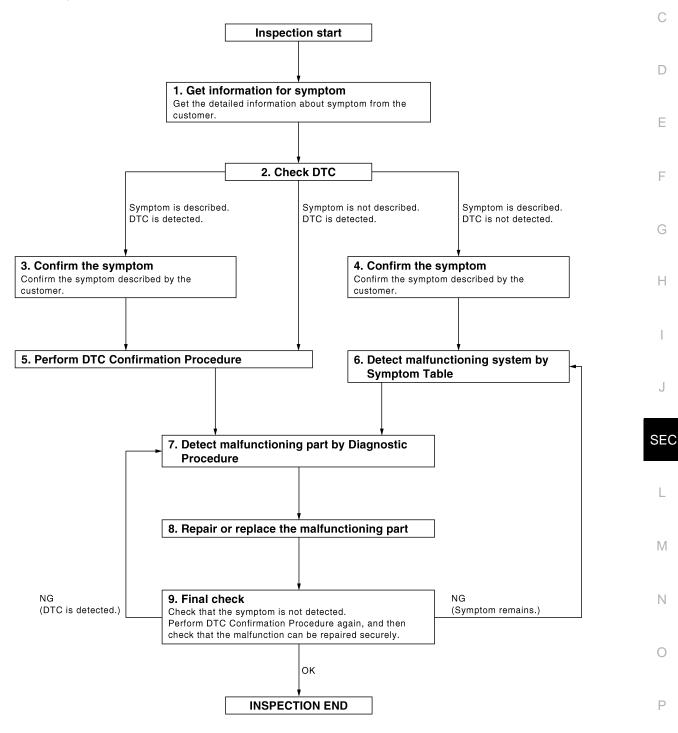
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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

**OVERALL SEQUENCE** 



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# DIAGNOSIS AND REPAIR WORKFLOW

[WITHOUT INTELLIGENT KEY SYSTEM]

### < BASIC INSPECTION >

# 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

- 1. Check DTC for 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.
- 3. 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 <u>SEC-223, "DTC Inspection Priority Chart"</u> (BCM) and determine trouble diagnosis order.

### Is DTC detected?

YES >> GO TO 7.

NO >> Refer to GI-41, "Intermittent Incident".

# 6.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.

### 8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

# **DIAGNOSIS AND REPAIR WORKFLOW**

[WITHOUT INTELLIGENT KEY SYSTEM]

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< BASIC INSPECTION > Α >> GO TO 9. 9. FINAL CHECK When DTC was detected in step 9, perform DTC Confirmation Procedure or Component Function Check В 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. C Are all malfunctions corrected? NO (DTC is detected)>>GO TO 7. NO (Symptom remains)>>GO TO 6. D >> INSPECTION END Е F Н J **SEC** L M Ν

**SEC-167** Revision: 2008 January 2008 Rogue

### **INSPECTION AND ADJUSTMENT**

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

# INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

# ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000001911357

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

Refer to the CONSULT-III Operation Manual-NATS.

ECM RE-COMMUNICATING FUNCTION

## ECM RE-COMMUNICATING FUNCTION: Description

INFOID:0000000001911359

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:0000000001911360

# 1.perform ecm re-communicating function

- 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.
- 3. Maintain ignition switch in "ON" position for at least 5 seconds.
- Turn ignition switch to "OFF".
- 5. Start engine.

### Can engine be started?

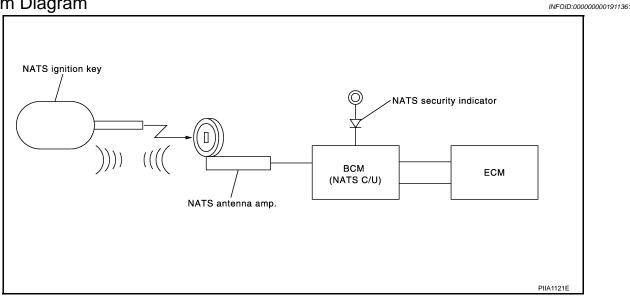
YES >> Procedure is completed.

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

# **FUNCTION DIAGNOSIS**

# NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

System Diagram



# System Description

### 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/INAIO	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-173</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 <u>SEC-165</u>, "Work Flow".

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# **NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)**

### < FUNCTION DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

If ECM other than Genuine NISSAN is installed, the engine cannot be started. For ECM replacement procedure, refer to SEC-168, "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

- Warns that the vehicle is equipped with NVIS/NATS.
- The security indicator always blinks, when the ignition switch is in OFF 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 carried out.
- If ECM other than Genuine NISSAN is installed, the engine cannot be started.

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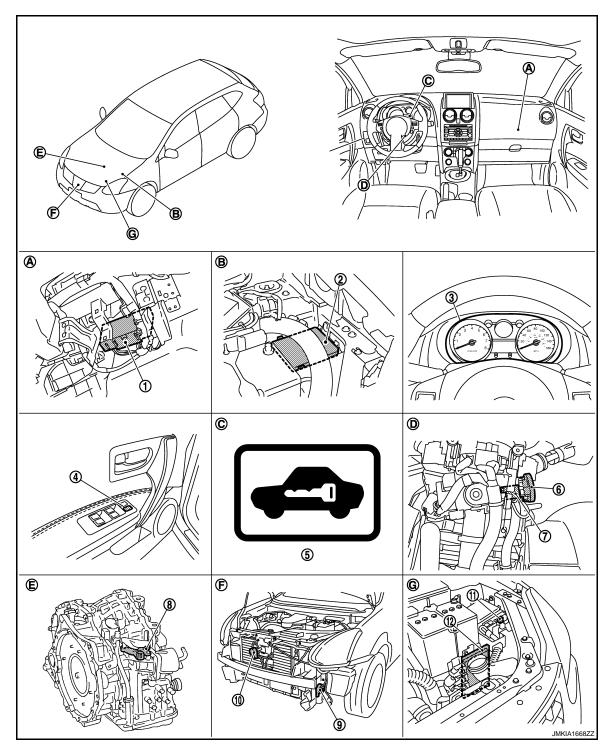
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- 1. BCM M65, M66, M67
- 4. Door lock and unlock switch D5, D6
- 7. Key switch M24
- 10. Horn (low) E80, E81
- A. Over the glove box

- IPDM E/R
   E10, E11, E13, E14, E15
- Security indicator lamp (combination meter M34)
- 8. Park/neutral position 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

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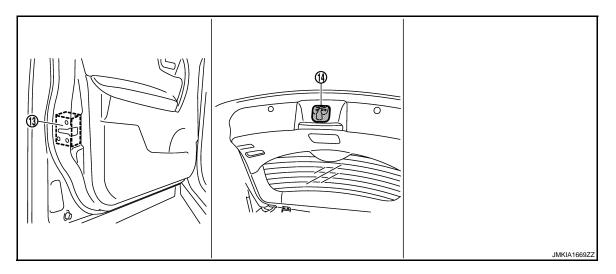
Revision: 2008 January SEC-171 2008 Rogue

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

- < FUNCTION DIAGNOSIS >
  - View with steering column cover re- E. A/T assembly moved

F. View with front bumper removed

G. Engine room (LH)



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

# Component Description

INFOID:0000000001911364

Component	Reference
BCM	BCS-7
NATS antenna amp.	<u>SEC-185</u>
Security indicator	SEC-194
IPDM E/R	PCS-2

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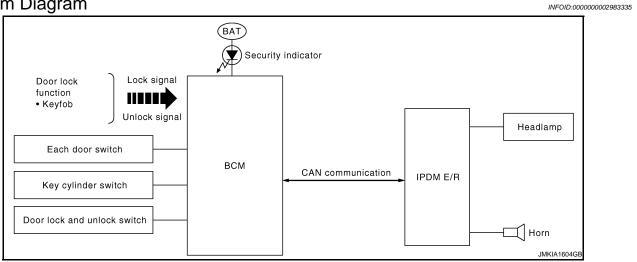
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INFOID:0000000002983336

# **VEHICLE SECURITY SYSTEM**

# System Diagram

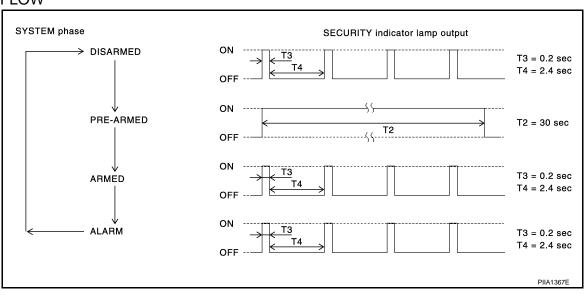


# System Description

### INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to BCM	BCM system	Actuator	Н
All door switch	Open or close			
Door key cylinder switch	Lock or unlock		IPDM E/R	1
Door lock and unlock switch	LOCK OF UTILOCK	Vehicle security system	Head lamp     Horn	
Keyfob	Lock or unlock		Security indicator lamp	
Reyloo	Panic alarm			J

### **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**

### < FUNCTION DIAGNOSIS >

### [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.
- 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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# **Component Parts Location**

INFOID:0000000003219565

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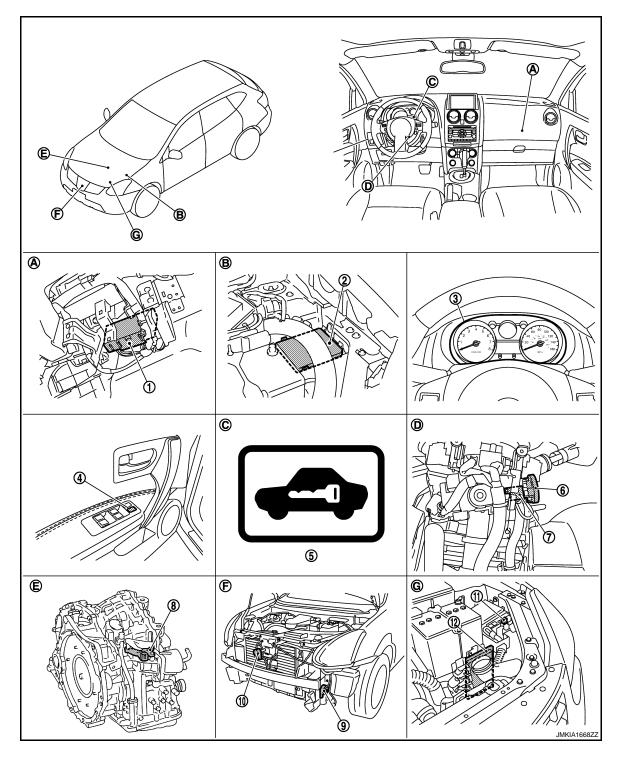
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- 1. BCM M65, M66, M67
- 4. Door lock and unlock switch D5, D6
- 7. Key switch M24
- 10. Horn (low) E80, E81
- A. Over the glove box

- IPDM E/R E10, E11, E13, E14, E15
- Security indicator lamp (combination meter M34)
- 8. Park/neutral position 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

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# **VEHICLE SECURITY SYSTEM**

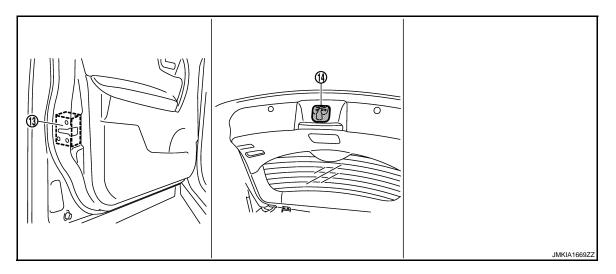
### < FUNCTION DIAGNOSIS >

### [WITHOUT INTELLIGENT KEY SYSTEM]

- View with steering column cover re- E. A/T assembly moved

View with front bumper removed

G. Engine room (LH)



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

# **Component Description**

INFOID:0000000001911368

Component	Reference	
BCM	BCS-7	
Horn	SEC-193	
Security indicator	SEC-194	
Door switch	DLK-339	
NATS antenna amp.	<u>SEC-185</u>	

# **DIAGNOSIS SYSTEM (BCM)**

< FUNCTION DIAGNOSIS >

[WITHOUT 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 BCS-63, "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	<ul> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>	
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

Cyatam	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		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
_	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			×

<sup>\*:</sup> This item is displayed, but is not function.

**IMMU** 

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# **DIAGNOSIS SYSTEM (BCM)**

< FUNCTION DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

# IMMU: CONSULT-III Function (BCM - IMMU)

INFOID:0000000003219632

### 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:0000000003219633

### **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.
KEYKESS 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.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.

# **DIAGNOSIS SYSTEM (BCM)**

### < FUNCTION DIAGNOSIS >

# [WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition
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.

<sup>\*1:</sup> 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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<sup>\*2:</sup> For the vehicle equipped with remote key less entry system.

### **U1000 CAN COMM CIRCUIT**

< COMPONENT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

# COMPONENT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

Description INFOID:000000003194989

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-23, "CAN Communication Signal Chart".

DTC Logic

### DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When Intelligent Key unit cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning.  Transmission Receiving (BCM) Receiving (IPDM E/R) Receiving (ECM) Receiving (METER/M&A) Receiving (MULTI AV)

# Diagnosis Procedure

INFOID:0000000003194991

## 1.PERFORM SELF DIAGNOSTIC

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

### Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-14, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-41, "Intermittent Incident".

## P1610 LOCK MODE

< COMPONENT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

#### 

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 ignition 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 starting operation is carried out 10 or more times consecutively under the following conditions.  • Unregistered ignition 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-181</u>, "Diagnosis Procedure".

NO >> INSPECTION END

## Diagnosis Procedure

## 1. CHECK ENGINE START FUNCTION

- 1. Perform the check for DTC except DTC P1610.
- Use CONSULT-III to erase DTC after fixing.
- 3. 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-41, "Intermittent Incident".

>> INSPECTION END

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INFOID:0000000003077035

[WITHOUT INTELLIGENT KEY SYSTEM]

## P1611 ID DISCORD, IMMU-ECM

Description INFOID:0000000003077163

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-181, "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-182</u>, "Diagnosis Procedure".

NO >> INSPECTION END

## Diagnosis Procedure

INFOID:0000000003077165

## 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-67, "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-25</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- For USA (FEDERAL) and CANADA: Refer to <u>EC-499</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] < COMPONENT DIAGNOSIS > >> GO TO 4. 4. CHECK INTERMITENT INCIDENT Α Refer to GI-41, "Intermittent Incident". В >> INSPECTION END С D Е F Н L

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#### P1612 CHAIN OF ECM-IMMU

< COMPONENT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## P1612 CHAIN OF ECM-IMMU

Description INFOID:0000000003077157

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-223, "DTC Index".

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 SEC-184, "Diagnosis Procedure".

NO >> INSPECTION END

## Diagnosis Procedure

INFOID:0000000003077159

## 1.REPLACE BCM

- Replace BCM. Refer to <u>BCS-67, "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-25</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: Special Repair Requirement".
  - For USA (FEDERAL) and CANADA: Refer to <u>EC-499</u>, "ADDITIONAL SERVICE WHEN <u>REPLACING CONTROL UNIT: Special Repair Requirement"</u>.
  - For MEXICO: Refer to EC-928, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

## P1614 CHANIN OF IMMU-KEY

< COMPONENT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## P1614 CHANIN OF IMMU-KEY

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

#### DTC DETECTION LOGIC

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

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Insert ignition 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-185</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

## Diagnosis Procedure

1. CHECK NATS ANTENNA AMP. INSTALLATION

Check NATS antenna amp. installation. Refer to SEC-163, "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.
- Check voltage between NATS antenna amp. harness connector and ground.

NATS and	(+) NATS antenna amp.		Voltage (V) (Approx.)
Connector	Terminal		(/ (pp. 0)
M26	1	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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## P1614 CHANIN OF IMMU-KEY

< COMPONENT 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		l l		(прргод.)	
	2		Just after inserting ignition key in key cylinder.	Pointer of tester should move.	
M26		Ground	Other than above.	0	
IVI20	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-41, "Intermittent Incident".

>> INSPECTION END

## P1615 DIFFRENCE OF KEY

< COMPONENT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## P1615 DIFFRENCE OF KEY

Description INFOID:0000000003077169

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:0000000003077170

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

#### Is DTC detected?

>> Refer to SEC-187, "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 <u>BCS-67</u>, "Removal and Installation".
- Perform initialization again.

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## POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## POWER SUPPLY AND GROUND CIRCUIT

**BCM** 

**BCM**: Diagnosis Procedure

INFOID:0000000001911413

## 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			Ignition switch position		
(	(+)		ignition switch posi		OH	
В	ВСМ		OFF	ACC	ON	
Connector	Terminal		OH	ACC	ON	
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**

< COMPONENT DIAGNOSIS >	[WITHOUT INTELLIGENT KEY SYSTEM]
DOOR SWITCH	
Description	INFOID:000000003219626
Detects door open/closed condition.	
Component Function Check	INFOID:0000000003219627
1.CHECK FUNCTION	
With CONSULT-III Check door switches ("DOOR SW-DR", "DOOR SW-AS", "DO SW") in "Data Monitor" mode with CONSULT-III.	
Monitor item Door condition	Display
DOOR SW-DR	
DOOR SW-AS	
DOOR SW-RL CLOSE → OPEN	$OFF \to ON$
DOOR SW-RR	
BACK DOOR	
s the inspection result normal?  YES >> Door switch is OK.  NO >> Refer to SEC-189, "Diagnosis Procedure".	
Diagnosis Procedure	INFOID:000000000321962
1.CHECK DOOR SWITCH INPUT SIGNAL	
Turn ignition switch OFF.     Disconnect door switch connectors.	

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## [WITHOUT INTELLIGENT KEY SYSTEM]

	Door switch			
(+)			( )	Voltage (V) (Approx.)
connector		Terminal	(–)	(ripproxi)
Front door switch (passenger side)	B27	2		(V) 15 10 5 0 +-10ms JPMIA0586GB
Front door switch (driver side)	B34	2	Ground	(V) <sub>15</sub> 10 5 0 → 10ms JPMIA0587GB
Rear door switch RH	B53	2		(V) <sub>15</sub> 10 5 0 ++10ms JPMIA0587GB
Rear door switch LH	B71	2		(V) <sub>15</sub> 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]

ВСМ		Door switch		Continuity
connector	Terminal	connector	Terminal	Continuity
M65	12	B27	2	
IVIOS	13	B53	2	
	43	D190	3	Exists
M66	47	B34	2	1
	48	B71	2	

3. Check continuity between BCM harness connector and ground.

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

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "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	connector Terminal		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-191, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door switch. Refer to <u>DLK-301</u>, "Removal and Installation".

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "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
Lacii dooi	2	Ground	Door switch released	Does not exist

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INFOID:0000000003219629

## **DOOR SWITCH**

## < COMPONENT DIAGNOSIS >

## [WITHOUT INTELLIGENT KEY SYSTEM]

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

## Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door switch . Refer to <u>DLK-301</u>, "Removal and Installation".

#### [WITHOUT INTELLIGENT KEY SYSTEM]

## **HORN**

Description INFOID:000000003110104

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.
- 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-193</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	IPDM E/R		Horn relay	
Connector	Terminal	Connector Terminal		Continuity
E15	57	E5	1	Existed

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

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E15	57		Not existed

#### Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-28. "Removal and Installation".

NO >> Repair or replace harness.

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## **VEHICLE SECURITY INDICATOR**

< COMPONENT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## VEHICLE SECURITY INDICATOR

Description INFOID:000000003077047

- 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:0000000003077048

## 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-194, "Diagnosis Procedure"</u>.

## Diagnosis Procedure

INFOID:0000000003077049

## 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			(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	ВСМ		Combination meter	
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**

## < COMPONENT 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-67, "Removal and Installation".

NO >> Replace combination meter. Refer to MWI-83, "Removal and Installation".

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## **ECU DIAGNOSIS**

## BCM (BODY CONTROL MODULE)

Reference Value

## VALUES ON THE DIAGNOSIS TOOL

Ignition switch OFF or ACC	Monitor Item	Condition	Value/Status
Ignition switch ON  KEY ON SW  Mechanical key is removed from key cylinder  On  On  CDL LOCK SW  Door lock/unlock switch does not operate  Off  Press door lock/unlock switch to the lock side  On  Door lock/unlock switch does not operate  Off  Press door lock/unlock switch to the unlock side  On  Door SW-DR  Driver's door dosed  Driver's door opened  On  Door SW-AS  Passenger door closed  Passenger door closed  Passenger door closed  On  DOOR SW-RR  Rear RH door opened  On  DOOR SW-RL  Rear RH door opened  On  Back door opened  On  On  On  CREAT H door opened  On  On  Door SW-RL  Rear LH door closed  Rear LH door closed  Rear LH door opened  On  Dor SW-RL  Back door opened  On  On  Back door opened  On  On  On  CREAT H door opened  On  On  CREAT H door opened  On  On  Driver door key cylinder LOCK position  Off  Driver door key cylinder LOCK position  Off  Oriver door key cylinder LOCK position  Off  Oriver door key cylinder LNLOCK position  Off  CON  CREAT COCK' button of key fob is not pressed  On  "LOCK' button of key fob is not pressed  On  "LOCK' button of lntelligent Key or door request switch are not pressed  "LOCK' button of Intelligent Key or door request switch are not pressed  "LOCK' button of Intelligent Key or door request switch are not pressed  "LOCK' button of Intelligent Key or door request switch are not pressed  "UNLOCK' button of Intelligent Key or door request switch are not pressed  "UNLOCK' button of Intelligent Key or door request switch are not pressed  "UNLOCK' button of Intelligent Key or door request switch are not pressed  "UNLOCK' button of Intelligent Key or door request switch are not pressed  "UNLOCK' button of Intelligent Key or door request switch are not pressed  "UNLOCK' button of Intelligent Key or door request switch are not pressed  "UNLOCK' button of Intelligent Key or door request switch are not pressed  "UNLOCK' button of Intelligent Key or door req	ICN ON SW	Ignition switch OFF or ACC	Off
Mechanical key is inserted to key cylinder	IGIN OIN SW	Ignition switch ON	On
Mechanical key is inserted to key cylinder	IGN ON SW  KEY ON SW  CDL LOCK SW  CDL UNLOCK SW  DOOR SW-DR  DOOR SW-AS  DOOR SW-RL  BACK DOOR SW  KEY CYL LK-SW  KEY CYL UN-SW  KEYLESS LOCK  I-KEY LOCK	Mechanical key is removed from key cylinder	Off
Press door lock/unlock switch to the lock side		Mechanical key is inserted to key cylinder	On
Press door lock/unlock switch to the lock side	CDL LOCK SW  CDL UNLOCK SW  DOOR SW-DR  DOOR SW-AS  DOOR SW-RR	Door lock/unlock switch does not operate	Off
Press door lock/unlock switch to the unlock side	CDL LOCK SW	Press door lock/unlock switch to the lock side	On
Press door lock/unlock switch to the unlock side	CDL LINI OCK SW	Door lock/unlock switch does not operate	Off
DOOR SW-DR         Driver's door opened         On           DOOR SW-AS         Passenger door closed         Off           DOOR SW-RR         Rear RH door closed         Off           DOOR SW-RR         Rear RH door pened         On           DOOR SW-RL         Rear LH door closed         Off           BACK DOOR SW         Back door closed         Off           BACK DOOR SW         Back door closed         Off           KEY CYL LK-SW         Other than driver door key cylinder LOCK position         Off           KEY CYL UN-SW         Other than driver door key cylinder UNLOCK position         On           KEY CYL UN-SW         Other than driver door key cylinder UNLOCK position         On           KEYLESS LOCK         "LOCK" button of key fob is not pressed         Off           "LOCK" button of key fob is pressed         Off           "UNLOCK" button of key fob is not pressed         Off           "UNLOCK" button of key fob is pressed         On           "LKEY LOCK         "LOCK" button of lntelligent Key or door request switch are not pressed         Off           "LOCK" button of Intelligent Key or door request switch are not pressed         Off           "LOCK" button of Intelligent Key or door request switch are not pressed         On           "UNLOCK" button of Intelligent Key or door requ		Press door lock/unlock switch to the unlock side	On
Driver's door opened	DOOD CW DD	Driver's door closed	Off
DOOR SW-RR		Driver's door opened	On
Passenger door opened	DOOD CW AC	Passenger door closed	Off
DOOR SW-RR         Rear RH door opened         On           DOOR SW-RL         Rear LH door closed         Off           BACK DOOR SW         Back door closed         Off           BACK DOOR SW         Back door opened         On           KEY CYL LK-SW         Other than driver door key cylinder LOCK position         Off           KEY CYL UN-SW         Other than driver door key cylinder UNLOCK position         On           KEY LESS LOCK         Other than driver door key cylinder UNLOCK position         On           KEYLESS LOCK         "LOCK" button of key fob is not pressed         Off           "LOCK" button of key fob is pressed         On           "LOCK" button of key fob is pressed         On           "UNLOCK" button of key fob is pressed         On           "LKEY LOCK         "UNLOCK" button of key fob is pressed         On           "LOCK" button of Intelligent Key or door request switch are not pressed         Off           "LOCK" button of Intelligent Key or door request switch are not pressed         Off           "LOCK" button of Intelligent Key or door request switch are not pressed         Off           "UNLOCK" button of Intelligent Key or door request switch are not pressed         On           "UNLOCK" button of Intelligent Key or door request switch are not pressed         On           "UNLOCK" button o	DOOR SW-AS	Passenger door opened	On
Rear RH door opened On  Rear LH door opened Off Rear LH door opened On  Rear LH door opened On  Back DOOR SW  Back door closed Off Back door opened On  KEY CYL LK-SW  Other than driver door key cylinder LOCK position Off Driver door key cylinder LOCK position On  KEY CYL UN-SW  KEY CYL UN-SW  Other than driver door key cylinder UNLOCK position On  CON  KEYLESS LOCK  "LOCK" button of key fob is not pressed Off "UNLOCK" button of key fob is pressed Off "UNLOCK" button of key fob is pressed Off "UNLOCK" button of key fob is pressed Off "UNLOCK" button of lave fob is pressed On  "LOCK" button of Intelligent Key or door request switch are not pressed Uncok" button of Intelligent Key or door request switch are not pressed On  I-KEY UNLOCK  I-KEY UNLOCK  I-KEY UNLOCK  I-KEY UNLOCK  I-KEY UNLOCK  I-KEY UNLOCK  I-KEY UNLOCK button of Intelligent Key or door request switch are not pressed On  I-KEY UNLOCK button of Intelligent Key or door request switch are not pressed On  I-KEY UNLOCK" button of Intelligent Key or door request switch are not pressed On  I-KEY UNLOCK button of Intelligent Key or door request switch are not pressed On  I-KEY UNLOCK" button of Intelligent Key or door request switch are not pressed On  ACC ON SW  I-KEY UNLOCK button of Intelligent Key or door request switch are Not pressed On  I-KEY UNLOCK button of Intelligent Key or door request switch are Not pressed On  I-KEY UNLOCK button of Intelligent Key or door request switch are Not pressed On  I-KEY UNLOCK button of Intelligent Key or door request switch are Not pressed On  I-KEY UNLOCK button of Intelligent Key or door request switch are Not pressed On  I-KEY UNLOCK button of Intelligent Key Or door request switch ACC ON On  I-KEY UNLOCK button Of Intelligent Key Or door request switch ACC ON On  I-KEY UNLOCK button Of Intelligent Key Or door request switch ACC ON On  I-KEY UNLOCK button Of Intelligent Key Or door request switch OFF	KEY ON SW  CDL LOCK SW  CDL UNLOCK SW  DOOR SW-DR  DOOR SW-AS  DOOR SW-RL  BACK DOOR SW  KEY CYL LK-SW  KEY CYL UN-SW  KEYLESS LOCK  KEYLESS UNLOCK  I-KEY UNLOCK  ACC ON SW	Rear RH door closed	Off
Rear LH door opened   On		Rear RH door opened	On
Rear LH door opened On  Back door closed Off Back door opened On  KEY CYL LK-SW Other than driver door key cylinder LOCK position Off Driver door key cylinder LOCK position On  KEY CYL UN-SW Other than driver door key cylinder UNLOCK position On  KEY CYL UN-SW Other than driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position On  KEYLESS LOCK "LOCK" button of key fob is not pressed Off "LOCK" button of key fob is pressed On  "UNLOCK" button of key fob is pressed Off "UNLOCK" button of lntelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "Unlock" button of Intelligent Key or door request switch are not pressed "Unlock" button of Intelligent Key or door request switch are not pressed "Unlock" button of Intelligent Key or door request switch are not pressed "Unlock" button of Intelligent Key or door request switch are not pressed "Unlock" button of Intelligent Key or door request switch are not pressed "Unlock" button of Intelligent Key or door request switch are not pressed "Unlock" button of Intelligent Key or door request switch are not pre	DOOD CW DI	Rear LH door closed	Off
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Driver door key cylinder LOCK position   On		Back door opened	On
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"LOCK" button of key fob is pressed   On	KET CTL UN-SW	Driver door key cylinder UNLOCK position	On
"LOCK" button of key fob is pressed On  "UNLOCK" button of key fob is not pressed Off  "UNLOCK" button of key fob is not pressed On  "LOCK" button of key fob is pressed On  "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed On  "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are not pressed "UNLOCK" button of Intelligent Key or door request switch are pressed On  ACC ON SW Ignition switch OFF Ignition switch ACC or ON On  REAR DEF SW Rear window defogger switch ON On  Lighting switch OFF Off  Lighting switch OFF Off  Lighting switch OFF	KENI ESS I OCK	"LOCK" button of key fob is not pressed	Off
### Cock ####################################		"LOCK" button of key fob is pressed	On
"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  "LOCK" button of Intelligent Key or door request switch are pressed  "UNLOCK" button of Intelligent Key or door request switch are not pressed  "UNLOCK" button of Intelligent Key or door request switch are pressed  "UNLOCK" button of Intelligent Key or door request switch are pressed  On  ACC ON SW  Ignition switch OFF  Ignition switch ACC or ON  REAR DEF SW  Rear window defogger switch OFF  Rear window defogger switch ON  Lighting switch OFF  Off  Off  Coff  Cof	KEALESS TIVILOCK	"UNLOCK" button of key fob is not pressed	Off
I-KEY LOCK  pressed  "LOCK" button of Intelligent Key or door request switch are pressed  "UNLOCK" button of Intelligent Key or door request switch are not pressed  "UNLOCK" button of Intelligent Key or door request switch are not pressed  "UNLOCK" button of Intelligent Key or door request switch are pressed  Ignition switch OFF  Ignition switch ACC or ON  REAR DEF SW  Rear window defogger switch OFF  Rear window defogger switch ON  Lighting switch OFF  Off  Off  Off  Con  Con  Con  Con  Con  Con  Con  C	RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY UNLOCK  "UNLOCK" button of Intelligent Key or door request switch are not pressed  "UNLOCK" button of Intelligent Key or door request switch are pressed  On  ACC ON SW  Ignition switch OFF  Ignition switch ACC or ON  Rear window defogger switch OFF  Rear window defogger switch ON  Lighting switch OFF  Off  Off  Off  Off  Off  Off  Off	I-KEY LOCK		Off
I-KEY UNLOCK  pressed  "UNLOCK" button of Intelligent Key or door request switch are pressed  On  ACC ON SW  Ignition switch OFF  Ignition switch ACC or ON  REAR DEF SW  Rear window defogger switch OFF  Rear window defogger switch ON  Lighting switch OFF  Off  Off  On  Con  Con  Con  Con  Con  Con  Con		"LOCK" button of Intelligent Key or door request switch are pressed	On
"UNLOCK" button of Intelligent Key or door request switch are pressed  ACC ON SW  Ignition switch OFF Ignition switch ACC or ON  REAR DEF SW  Rear window defogger switch OFF Rear window defogger switch ON  Lighting switch OFF Off  On  On  On  On  On  On  On  On  On	KEY CYL LK-SW  KEY CYL UN-SW  KEYLESS LOCK  KEYLESS UNLOCK  I-KEY LOCK		Off
ACC ON SW  Ignition switch ACC or ON  REAR DEF SW  Rear window defogger switch OFF  Rear window defogger switch ON  Uighting switch OFF  Off  Off	I-RET UNLOCK		On
Ignition switch ACC or ON	ACC ON OW	Ignition switch OFF	Off
REAR DEF SW  Rear window defogger switch ON  Lighting switch OFF  Off  Off	ACC ON SW	Ignition switch ACC or ON	On
Rear window defogger switch ON On  Lighting switch OFF Off	DEAD DEE OW	Rear window defogger switch OFF	Off
LIGHT SW 1ST	KEAK DEF SW	Rear window defogger switch ON	On
Lighting switch 1ST On	LICHT CW 4CT	Lighting switch OFF	Off
	LIGHT SW 191	Lighting switch 1ST	On

## **BCM (BODY CONTROL MODULE)**

## < ECU DIAGNOSIS >

## [WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status	
NIOK E OW	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	
VEVI FOO DANIO	PANIC button of key fob is not pressed	Off	
REYLESS PAINIC	PANIC button of key fob is pressed	On	<del></del>
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off	
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off	
SKE I CK-I INII CK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off	
	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On	
DKE KEED HINII K	UNLOCK button of key fob is not pressed	Off	
AND NEET UNLA	UNLOCK button of key fob is pressed and held	On	
JI DEAM CIA	Lighting switch OFF	Off	
TRNK OPN MNTR  RKE LCK-UNLCK  RKE KEEP UNLK  HEAD LAMP SW 1  HEAD LAMP SW 2  AUTO LIGHT SW  PASSING SW  TR FOG SW  TURN SIGNAL R  TURN SIGNAL L  ENGINE RUN	Lighting switch HI	On	
HEAD LAMP SW 1 HEAD LAMP SW 2 AUTO LIGHT SW	Lighting switch OFF	Off	
	Lighting switch 2ND	On	
HEAD LAMP SW 2	Lighting switch OFF	Off	
IEAD LAMP SW 2	Lighting switch 2ND	On	
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off	
PASSING SW	Other than lighting switch PASS	Off	
	Lighting switch PASS	On	
-D F00 C'''	Front fog lamp switch OFF	Off	
-K FOG SW	Front fog lamp switch ON	On	
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off	
HEAD LAMP SW 1	Turn signal switch OFF	Off	<del></del>
	Turn signal switch RH	On	<del></del>
EVLESS PANIC EYLESS TRUNK ERNK OPN MNTR EKE LCK-UNLCK EKE KEEP UNLK EI BEAM SW EAD LAMP SW 1 EAD LAMP SW 2 EUTO LIGHT SW EASSING SW ER FOG SW EURN SIGNAL R EURN SIGNAL R EURN SIGNAL L ENGINE RUN EKE SW EARGO LAMP SW	Turn signal switch OFF	Off	
UKN SIGNAL L	Turn signal switch LH	On	
	The seat belt (driver side) is unfastened. (Seat belt switch (driver side) OFF    The seat belt (driver side) is fastened. (Seat belt switch (driver side) OFF    The seat belt (driver side) is fastened. (Seat belt switch (driver side) On	Off	
KEYLESS PANIC KEYLESS TRUNK FRNK OPN MNTR  RKE LCK-UNLCK  RKE KEEP UNLK HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 AUTO LIGHT SW PASSING SW FR FOG SW FURN SIGNAL R FURN SIGNAL R FURN SIGNAL L ENGINE RUN PKB SW CARGO LAMP SW OPTICAL SENSOR GN SW CAN	Engine running	On	
		Off	
YKB SW		On	<del></del>
CARGO LAMP SW	NOTE:		
OPTICAL SENSOR		0 V	
CNI CVAL CANI	Ignition switch OFF or ACC	Off	
GIN SVV CAN	Ignition switch ON	On	
	Front wiper switch OFF	Off	
R WIPER HI		On	
		Off	
R WIPER LOW			

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Monitor Item	Condition	Value/Status
ED WIDED INT	Front wiper switch OFF	Off
FR WIPER INT	Front wiper switch INT	On
	Front washer switch OFF	Off
-K WASHER SW	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
ED WIDED STOD	Any position other than front wiper stop position	Off
-R WIPER STOP	Front wiper stop position	On
VEHICLE SPEED	While driving	Equivalent to speedometer readin
DD WIDED ON	Rear wiper switch OFF	Off
Monitor Item  R WIPER INT  R WASHER SW  NT VOLUME  R WIPER STOP  EHICLE SPEED  R WIPER ON  R WIPER INT  R WASHER SW  R WIPER STOP  R WIPER STOP  R WIPER STOP  R WIPER STOP  RAKE SW  AN ON SIG  IR COND SW  KEY TRUNK  KEY PW DWN  KEY PANIC  USH SW  RUNK CYL SW	Rear wiper switch ON	On
	Rear wiper switch OFF	Off
R WIPER INT  R WASHER SW  IT VOLUME  R WIPER STOP  EHICLE SPEED  R WIPER ON  R WIPER INT  R WASHER SW  R WIPER STOP  R WIPER STP2  /L WASH SW  AZARD SW  RAKE SW  AN ON SIG  IR COND SW  KEY TRUNK  KEY PW DWN  KEY PANIC  USH SW  RUNK CYL SW	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 SW	Hazard switch OFF	Off
	Hazard switch ON	On
	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
	Blower fan motor switch OFF	Off
-AN ON SIG	Blower fan motor switch ON (other than OFF)	On
AUD COMP OW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
AIR COND SW	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off
LICEN DIM DIMAL	UNLOCK button of Intelligent Key is not pressed	Off
-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On
	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
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off

## < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	_
OIL PRESS SW	Ignition switch OFF or ACC     Engine running	Off	- A
	Ignition switch ON	On	– – B
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire	_ D
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire	C
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	– D
ID DECCT EL 1	ID of front LH tire transmitter is registered	Done	
ID REGST FL1	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	F
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	– G
ID REGOT RET	ID of rear LH tire transmitter is not registered	Yet	_
WARNING LAMP	Tire pressure indicator OFF	Off	_  -
WARINING LAWP	Tire pressure indicator ON	On	_
BUZZER	Tire pressure warning alarm is not sounding	Off	_
DUZZEK	Tire pressure warning alarm is sounding	On	_

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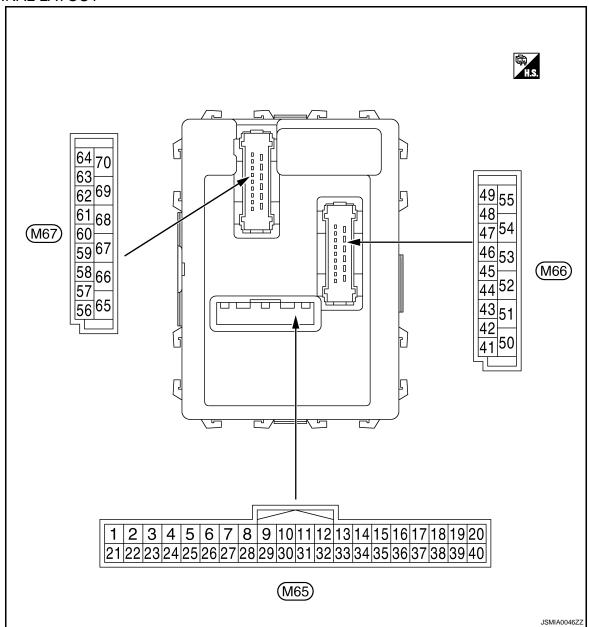
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#### **TERMINAL LAYOUT**



#### 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-26, "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. (Wire color)		Description				Value
		Signal namo	Input/	Condition		(Approx.)
+	_	Signal name	Output			
1	Ground	Ignition key hole illu-	ey hole illu-	Ignition key hole	OFF	Battery voltage
(V)	(V) Ground	mination control Output i		illumination	ON	0 V

Terminal No. Description (Wire color)			0 150	Value		
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF Turn signal switch RH Lighting switch HI	0 V
2 (G) Ground Combination INPUT 5	Combination switch	Input	Combination switch (Wiper intermit-	Lighting switch 1ST	10 5 0 ++10ms PKIB4959J 1.0 V	
		5	tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 ++10ms	
					All switch OFF	2.0 V
				Turn signal switch LH		
		Combination switch		Combination switch	Lighting switch PASS	(V) 15
3	Ground				Lighting switch 2ND	10 5 0 +-10ms PKIB4959J 1.0 V
	INPUT 4	(Wiper intermittent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0		
					All switch OFF	0.8 V
					Front wiper switch LO	
				Combine	Front wiper switch MIST	(V)
4 (W) Ground	ound Combination switch INPUT 3	Combination switch (Wiper intermittent dial 4)	Front wiper switch INT	10 5 0 +-+10ms PKIB4959J		
						1.0 V

	nal No.	Description				Value
+ (Wire	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	(V)
					(Wiper intermittent dial 4)  Any of the condition below	10 5 0
5	Ground	Combination switch	Input	Combination	with all switch OFF  Wiper intermittent dial 1  Wiper intermittent dial 5	→ ◆10ms PKIB4959J
(R)	Ground	INPUT 2	IIIput	switch	Wiper intermittent dial 6	1.0 V
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0
						PKIB4955J 0.8 V
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V) 15
					Rear wiper switch INT (Wiper intermittent dial 4)	10 10 10 10 10 10 10 10 10 10 10 10 10 1
					Wiper intermittent dial 3 (All switch OFF)	→ +10ms PКIВ4959J
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
					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	DIAGNO		M (BC	DDY CONTI	ROL MODULE) [WITHOUT INT	ELLIGENT KEY SYSTEM]	
Termi	nal No.	Description					
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)	А
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0587GB	В
					UNLOCK position	8.0 - 8.5 V 0 V	D
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) <sub>15</sub> 10 5 0 ++10ms	E
						JPMIA0587GB 8.0 - 8.5 V	G
					LOCK position	0 V	
9	Cround	Cton lower quitab	laat	Stop lamp	OFF (Brake pedal is not depressed)	0 V	Н
(R)	Ground	Stop lamp switch	Input	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	J
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) 15 10 5 0 JPMIA0586GB 7.5 - 8.0 V	SEC L
					ON (When passenger door opened)	0 V	Ν
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) 15 10 5 0 FINAL PRINCE OF THE PRINCE OF	O P
					ON (When rear door RH opened)	0 V	

	nal No.	Description				Value										
+	color)	Signal name	Input/ Output		Condition	(Approx.)										
15* <sup>1</sup> (O)	Ground	TPMS mode trigger switch	Input	Ignition switch O	FF	(V) <sub>15</sub> 10 5 0  → *10ms  JPMIA0588GB  1.5 V										
18* <sup>1</sup> (O)	Ground	Remote keyless entry receiver ground	Input	Ignition switch O	N	0 V										
				Without Intelligent Key system	At any condition	5 V										
19* <sup>1</sup> (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent	Ignition switch OFF     For 3 seconds after ignition switch OFF to ON	0 V										
				Key system	3 seconds or later after ig- nition switch OFF to ON	5 V										
				Without Intelligent Key system	At any condition	(V) 15 10 5 0  JPMIA0589GB  NOTE: The wave form changes according to signal-receiving condition.										
20* <sup>1</sup> (GR)	Ground	Remote keyless entry receiver signal	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	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	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	Battery voltage										

## < ECU DIAGNOSIS >

	inal No. e color)	Description				Value	А					
+	-	Signal name	Input/ Output		Condition	(Approx.)						
					ON	0 V	В					
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) <sub>15</sub> 10 5 0  ***1s  JPMIA0590GB 12.0 V	C					
					OFF	Battery voltage	Е					
25 (BR)	Ground	Immobilizer anten- na signal (Rx, Tx)	Input/ Output	Ignition switch O	FF	Battery voltage						
				Ignition switch O	FF		F					
27 (Y)	Ground	round A/C switch Inp	A/C switch	A/C switch	A/C switch	Input	Ignition switch	A/C switch OFF	(V) <sub>15</sub> 10 5 0 ***10ms	G		
						JPMIA0591GB 1.6 V	Н					
										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 *** 10ms JPMIA0592GB 7.0 - 7.5 V	J					
					Blower fan switch ON	0 V						
29					OFF	Battery voltage	L					
(W)	Ground	Hazard switch	Input	Hazard switch	ON	0 V						
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage	R.					
(G)	Giodila	switch	input	opener switch	Pressed	0 V	N					

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Terminal No. (Wire color)		Description				Value	
+ (VVire	color)	Signal name	Input/ Output	Condition		(Approx.)	
32		Combination quitab		Combination	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V	
(BR)	Ground	Combination switch OUTPUT 5	Output	switch	Front fog lamp switch ON (Wiper intermittent dial 4)	40	
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5	
					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	0 → →10ms PKIB4956J 1.0 V	
33		Combination switch		Combination	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	
(GR)	Ground	OUTPUT 4 Output	Output	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V)	
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5	
				Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	PKIB4958J		

Terminal 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	
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	
35 (B)		Combination switch OUTPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	(V) 15 10 5 0 *** 10ms PKIB4960J 7.2 V	
	Ground				Lighting switch 2ND	40	
					Lighting switch PASS Front wiper switch INT	(V) 15 10	
					Front wiper switch HI	→ +10ms PKIB4958J	
36	Ground	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 ** 10ms PKIB4960J 7.2 V	
(V)	Giouria	OUTPUT 1	Jaipai	(Wiper intermit- tent dial 4)	Turn signal switch RH	(V)	
					Turn signal switch LH  Front wiper switch LO (Front wiper switch MIST)	(V) 15 10 5	
					Front washer switch ON	PKIB4958J	

Terminal No. (Wire color)		Description		O - a dition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder		Battery voltage
(LG)	Giodila	Ney Switch	iliput	Remove mechanical key from ignition key cylinder		0 V
38	Ground	Ignition switch ON	Input	Ignition switch O		0 V
(G)				Ignition switch O	N or START	Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output	_		_
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)	9.5 - 10.0 V
44				Ignition switch	Rear wiper stop position	0 V
(B)	Ground	Rear wiper auto stop	Input	ON ON	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 + 10ms JPMIA0591GB
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	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
					UNLOCK position	0 V

< ECO DIAGNOSIS > [WITHOUT INTELLIGENT RET OTOTEM]							
Terminal No. Description (Wire color)				Value			
+	- COIOI)	Signal name	Input/ Output	Condition		(Approx.)	
47 (W) Groui	Ground	und Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	B C D
					ON (When driver door opened)	0 V	Е
48 (GR) Ground	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) <sub>15</sub> 10 5 0 **+10ms JPMIA0594GB 8.5 - 9.0 V	F
					ON (When rear door LH opened)	0 V	Н
49 (L) Ground	Back door lamp con-	Output	Back door lamp	Back door is closed (Back door lamp turns OFF)	Battery voltage	I	
	Ground	trol	Output	position	Back door is opened (Back door lamp turns ON)	0 V	J
53 (V) Ground	Back door open	Output	Back door opener switch	Not pressed (Back door actuator is activated)	0 V	SE	
				Pressed (Back door actuator is activated)	Battery voltage	L	
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch ON	Rear wiper switch OFF  Rear wiper switch ON	0 V  Battery voltage	M
56 (Y) Ground	0	Interior room lamp power supply	Output -	After passing the interior room lamp battery saver operation time		0 V	
	Ground			Any other time after passing the interior room lamp battery saver operation time		Battery voltage	Ν
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	0
59 (L) Ground	Ground	und Driver door UN- LOCK	Outout	Driver door	UNLOCK (Actuator is activated)	Battery voltage	
	Giodila		Output		Other then UNLOCK (Actuator is not activated)	0 V	Р

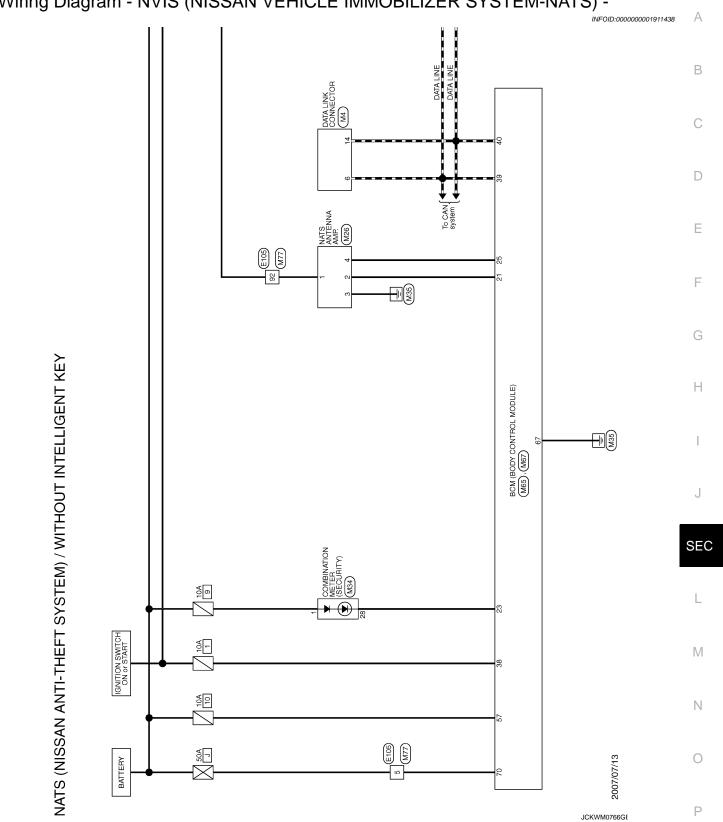
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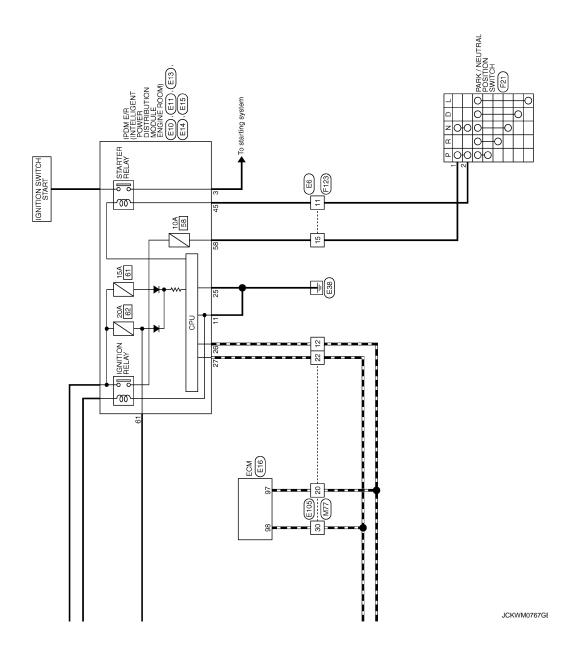
Terminal No.		Description				Value
(Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
					Turn signal switch OFF	0 V
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s 1s PKIC6370E
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 PKIC6370E 6.0 V
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage
(R)	Ground	timer control	Output	lamp	ON	0 V
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)					Other then LOCK (Actuator is not activated)	0 V
66	Ground	Passenger door and rear door UNLOCK	Output	Passenger door and rear door	UNLOCK (Actuator is activated)	Battery voltage
(G)					Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch ON		0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
69 (R)* <sup>2</sup> (P)* <sup>3</sup>	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch OFF		Battery voltage

#### NOTE:

- \*1: Except for Mexico
- \*2: Without anti-pinch system
- \*3: With anti-pinch system

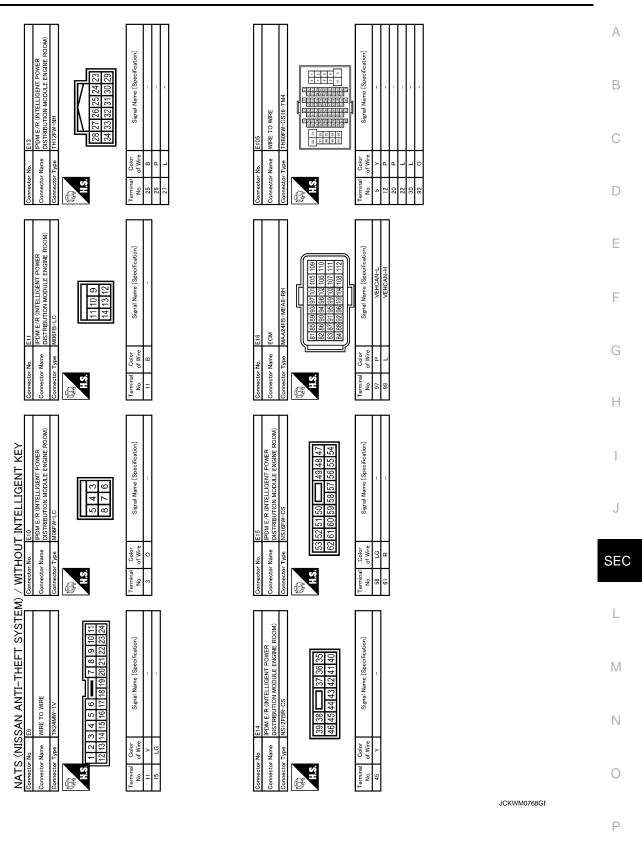
Wiring Diagram - NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) -





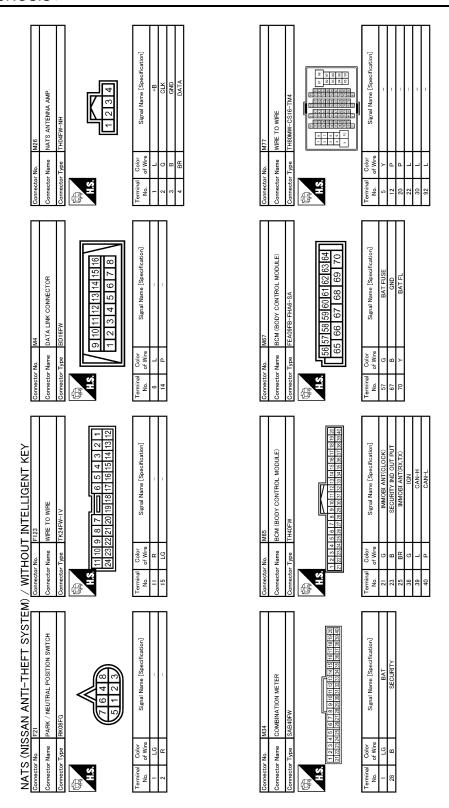
## **BCM (BODY CONTROL MODULE)**

[WITHOUT INTELLIGENT KEY SYSTEM]



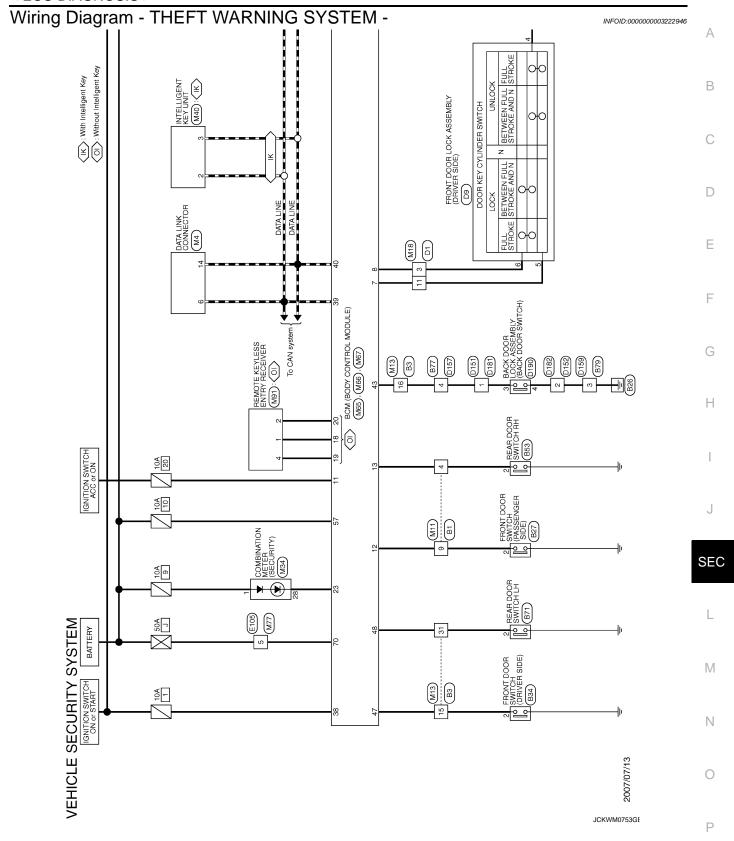
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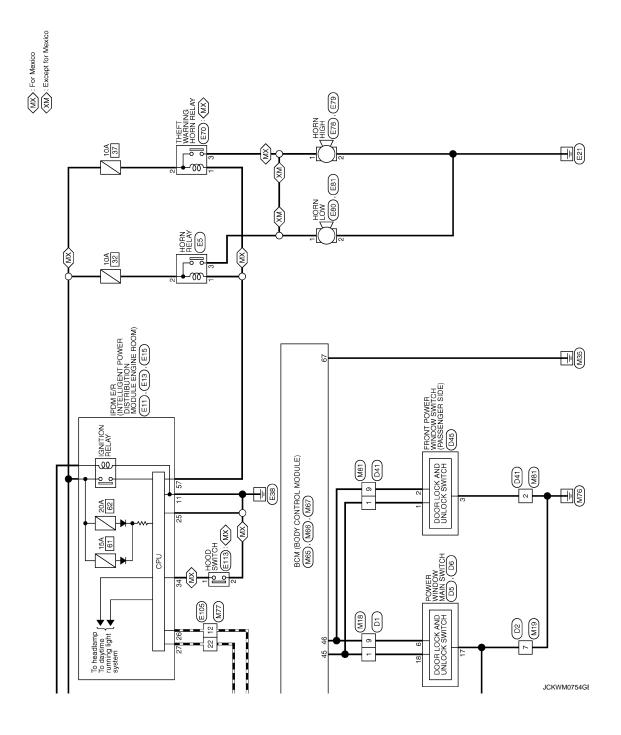
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## [WITHOUT INTELLIGENT KEY SYSTEM]





## BCM (BODY CONTROL MODULE)

## [WITHOUT INTELLIGENT KEY SYSTEM]

(SiDE)	[hon]		А
FRONT DOOR SWITCH (DRIVER SIDE) AGSPW  Signal Name [Specification]	WIRE C 3 4 Signal Name [Specification]		В
	B 19 WIRE TO MORAWY-I Circle MORAWY-I Circle I C		С
Connector No. Connector Name Connector Type Terminal No. Color No. P	Connector No. Connector Type Connector Type Terminal Color No. 3 B		D
ASSENGER eoification]	peofication]		Е
B27 Signal Name [Specification]	W-CS  W-CS  Signal Name [S		F
No. Name Type of Wire BR	No. Name Type Oclor of Wire W		G
Connection	Connector Connector Connector No.		Н
WIRE  NH  7 8 9 10 11 12 13 14 16 16  23 24 25 26 27 28 29 30 31 32  Signal Name [Specification]	OR SWITCH LH  Signal Name [Specification]		I
2122 2122 2122 2122 2122 2122 2122 212	REAR DOOR SWITCH LH AGGRIW  Signal Name [St		J
Connector No.   63	Connector No. B Connector Type A Connect		SEC
			L
VEHICLE SECURITY SYSTEM  Somector Name WIRE TO WIRE  Somector Type TH80NW-CSIG-TM4  H.S.	OR SWITCH RH Signal Name [Specification]		M
SEOU THEORY TO THEORY TO THE THEORY TO THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE	B B 53 A 003 F W		Ν
Connector No.  Connector Name Connector Type Connec	Connector No.  Connector Name Connector Type  H.S.  H.S.  Confector Type Of Wire  Of Wire  2 L.		0
		JCKWM0755GE	D
			Р

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# BCM (BODY CONTROL MODULE) [WITHOUT INTELLIGENT KEY SYSTEM]

# Signal Name [Specification] Signal Name [Specification] POWER WINDOW MAIN SWITCH WIRE TO WIRE Signal Name [Specification] Signal Name [Specification] OWER WINDOW MAIN SWITCH Signal Name [Specification] WIRE TO WIRE Signal Name [Specification] Signal Name [Specification VEHICLE SECURITY SYSTEM WIRE TO WIRE

JCKWM0756GE

## BCM (BODY CONTROL MODULE)

[WITHOUT INTELLIGENT KEY SYSTEM]

	cation]	INE ROOM)		А
мине R-CS 2	Signal Name [Specification]	PEDM E-/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) MOGFE-LC 11109 141312 Signal Name [Specification]		В
Cornector No. D181 Cornector Name WIRE TO WIRE Cornector Type NSDBMBR-CS LLS LLS LLS LLS LLS LLS LLS LLS LLS L	inal Coor of Wire W	No Color of Wire		С
Com	Terminal No.	Connector Connector Connector Terminal No.		D
	eoffication)	eoffication		Е
WRE TO WRE MOSFW-LC	Signal Name [Specification]	HORN RELAY		F
ПП	Color B B	a lo Mire de		G
Connector No. Connector Name Connector Type	Terminal 0 3 3	Connector No. Connector Name Connector Type H.S. H.S.  1 GR Wire 2 P W Wire 3 G G		
	$\Box$			Н
20	Signal Name [Specification]	OR LOCK ASSEMBLY CS  1 3 2 1 Signal Name [Specification]		I
TO WIRE FW-CS 3 0 9 8 7 7	Signal Name			J
	Color of Wire W			SEC
Connector No. Connector Name Connector Type	No. o 4	Connector No. Connector Name Connector Type H.S. H.S.  4 B Wire  4 B B		OLO
				L
E E E E E E E E E E E E E E E E E E E	ification]	(fication)		
SYST	Signal Name (Specification)	WIRE  37-LC  2   Signal Name [Specification]		M
SECURITY D152 WIRE TO WIRE M02FW-GY-LC  1  2	Signal			Ν
<u> </u>	Color B B			
VEHICLE Connector No. Connector Name Connector Type H.S.	Terminal No. 2	Connector No. Connector Name Connector Type H.S. H.S.  Gong of Wire  Perminal Of Wire  Perminal Of Wire  Perminal Of Wire  Perminal Of Wire Perminal Of Wire Perminal Of Wire Perminal		0
		<u> </u>	JCKWM0757Gŧ	
				Р

Revision: 2008 January SEC-219 2008 Rogue

# BCM (BODY CONTROL MODULE) [WITHOUT INTELLIGENT KEY SYSTEM]

Connector No.   E70   Connector   Connec	Fermion   Color   Co	Connector Name HORN LOW Connector Name	HS.   HSPAN   HSPAN	Terminal Golor communication of the communication o
r Name	Terminal   Color   C		Connector type Pulper A	Terminal Color Sign
OI:1: I:1 L	Terminal   Color   C	ПП	Connector type PULETA H.S.	Terminal Color Signal Name [Specification]

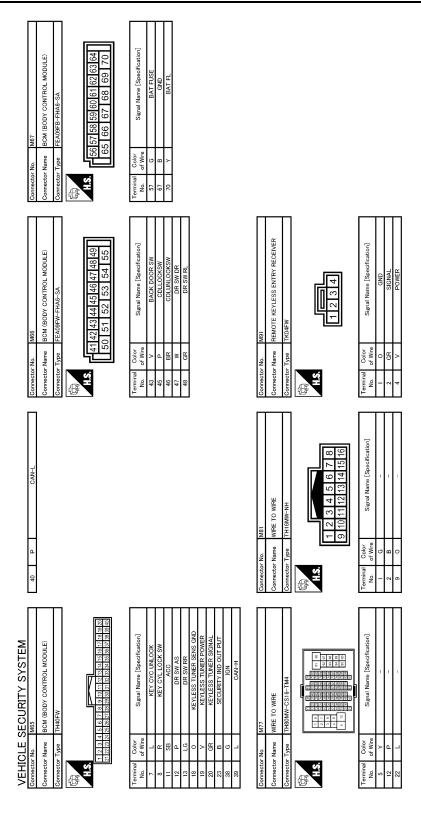
JCKWM0758GE

## BCM (BODY CONTROL MODULE)

## [WITHOUT INTELLIGENT KEY SYSTEM]

Connector No. MI3 Connector Name WIRE TO WIRE Connector Type TH22FW-NH  LISTAL SI2 12 12 10 19 18 17 6 5 4 3 2 11  Terminal Color Signal Name [Specification]  No. of Wire  15 W  31 GR	M40   M40   Connector No.   M40   Connector Name   INTELLIGENT KEY UNIT   Connector Type   TH40PW-NH		A B C
Connector No. M11  Connector Name WIRE TO WIRE  Connector Type TH80PW-CSI 6-TM4  H.S. From From From From From From From From	M34   Connector No.   M34   Connector Name   COMBINATION METER   Connector Type   SAB40FW   SAB40FW   Connector Type   SAB40FW   Connector Type   SAB40FW   Connector Type   SAB40FW   Connector Type   Connecto		E F G
M4   Connector Name   DATA LINK CONNECTOR   Connector Type   BD16FW   BD16FW   BD16FW   BD16FW   BD10FW   BD1	M19   Connector No.   M19   Connector Name   WIRE TO WIRE		J
VEHICLE SECURITY SYSTEM   Commetter No.   E113   Commetter Type   W02FW   HOD SWITCH   Commetter Type   W02FW   W02F	Mile		M N
		JCKWM0759GE	Р

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JCKWM0760GE

## Fail Safe

#### REAR WIPER MOTOR PROTECTION

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

## **BCM (BODY CONTROL MODULE)**

< ECU DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

#### HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

#### NOTE:

The blinking speed is normal while activating the hazard warning lamp.

#### DTC Inspection Priority Chart

INFOID:0000000003077064

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Priority	DTC	
1	U1000: CAN COMM CIRCUIT	
2	C1735: IGN CIRCUIT OPEN	
3	C1735: IGN CIRCUIT OPEN  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] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] FR C1715: [CHECKSUM ERR] RR C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PCESS DATA ERR] RR C1719: [CODE ERR] RR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] FR	S
	C1727: [BATT VOLT LOW] RL C1729: VHCL SPEED SIG ERR	

DTC Index INFOID:0000000003077065

#### 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  $\rightarrow$  ON again.

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

DTC	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-35
C1704: LOW PRESSURE FL	X	
C1705: LOW PRESSURE FR	×	WT-14
C1706: LOW PRESSURE RR	×	<u> </u>
C1707: LOW PRESSURE RL	×	

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# BCM (BODY CONTROL MODULE) [WITHOUT INTELLIGENT KEY SYSTEM]

#### < ECU DIAGNOSIS >

< ECU DIAGNOSIS >	LIGENT RET STOTEM	
DTC	Tire pressure monitor warning lamp ON	Reference
C1708: [NO DATA] FL	×	
C1709: [NO DATA] FR	X	WT-16
C1710: [NO DATA] RR	×	<u> </u>
C1711: [NO DATA] RL	X	
C1712: [CHECKSUM ERR] FL	X	
C1713: [CHECKSUM ERR] FR	X	WT-19
C1714: [CHECKSUM ERR] RR	×	<u>VV1-19</u>
C1715: [CHECKSUM ERR] RL	×	
C1716: [PRESS DATA ERR] FL	×	
C1717: [PRESS DATA ERR] FR	×	WT-22
C1718: [PRESS DATA ERR] RR	×	<u>VV 1-22</u>
C1719: [PRESS DATA ERR] RL	×	
C1720: [CODE ERR] FL	×	
C1721: [CODE ERR] FR	×	WT-24
C1722: [CODE ERR] RR	×	<u>VV1-24</u>
C1723: [CODE ERR] RL	×	
C1724: [BATT VOLT LOW] FL	_	
C1725: [BATT VOLT LOW] FR	_	WT-27
C1726: [BATT VOLT LOW] RR	_	<u>VV 1 - 2 1</u>
C1727: [BATT VOLT LOW] RL	_	
C1729: VHCL SPEED SIG ERR	×	<u>WT-30</u>
C1735: IGN CIRCUIT OPEN	_	BCS-36

## < ECU DIAGNOSIS >

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

Reference Value INFOID:0000000003077066

#### 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 0.01 D DE0	Lighting switch OFF	Off	
TAIL&CLR REQ	Lighting switch 1ST or 2NI	)	On
	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
<b>NOTE:</b> 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 1440 DE 0		Front wiper switch INT	1LOW
FR WIP REQ	Ignition switch ON	Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
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 ou 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
ION DLV	Ignition switch OFF or ACC	С	Off
IGN RLY	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 OW	Ignition switch OFF, ACC	Open	
OIL P SW	Ignition switch ON	Close	
DTRL REQ	Daytime running light system	Off	
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light systematics	em is operated.	On

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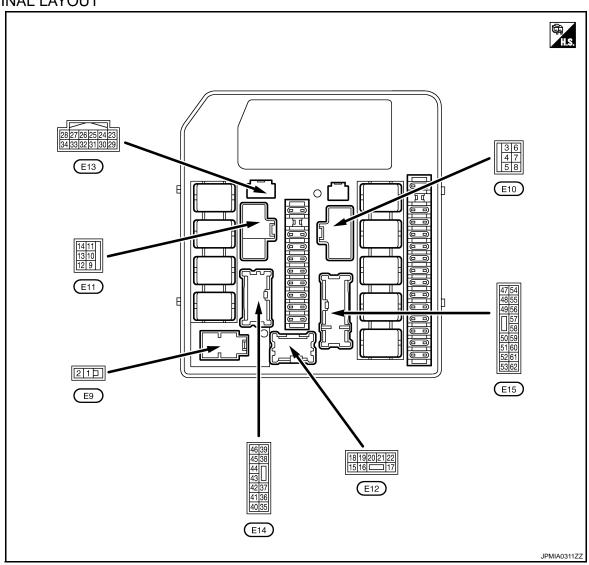
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< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
HOOD SW	Close the hood	Off
<b>NOTE:</b> 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 is activated with key fob LOCK operation.	On

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

	nal No.	Description			Value	
(Wire	color)	Signal name	Input/	Condition	(Approx.)	
+	_	Oigna: name	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 >

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output	Condition		(Approx.)
3	Ground	Starter relay power supply	Output	When engine is clan	ıking	Battery voltage
(O)	Giodila	Starter relay power suppry	Output	When engine is not	clanking	0 V
4	Ground	Cooling fan relay-1 power	Output	Cooling fan opera-	OFF	0 V
(W)	Cround	supply	Catpat	tion	MID or HI	Battery voltage
5 (R)	Ground	Ignition switch START	Input	Ignition switch OFF, Ignition switch STAF		0 V  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)	Ground	ground	_	tion	HI	0 V
8	Craund	Cooling fan relay-2 power	Outnut	Cooling fan opera-	OFF	0 V
(G)	Ground	supply	Output	tion	HI	Battery voltage
11 (B)	Ground	Ground		Ignition switch ON		0 V
12	Ground	Rear window defogger re-	Output	Ignition switch ON	Rear window defogger switch OFF	0 V
(O)	Giodila	lay power supply	Output	ignition switch on	Rear window defogger switch ON	Battery voltage
15* <sup>1</sup>	Ground	Daytime running light relay	Output	Daytime running	Not operated	Battery voltage
(SB)	Giodila	control	Output	light system	Operated	0 V
16* <sup>2</sup>	Ground	Front fog lamp (LH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(Y)	Giodila	1 Tont log lamp (Em)	Output	2ND	Front fog lamp switch ON	Battery voltage
17* <sup>2</sup>	Ground	Front fog lamp (RH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(W)	Orodria	r rom rog tamp (ran)	Output	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	Headlamp LO (RH)	Output	Lighting switch OFF		0 V
(SB)				Lighting switch 2ND		Battery voltage
21			_	Lighting switch OFF		0 V
(G)	Ground	Headlamp HI (LH)	Output	<ul><li>Lighting switch 2N</li><li>Lighting switch PA</li></ul>		Battery voltage
22				Lighting switch OFF		0 V
(LG)	Ground	Headlamp HI (RH)	Output	Lighting switch 2ND and HI     Lighting switch PASS		Battery voltage
23	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped	0 V
(W)	0.54114	C., procedio owitori	put	.gdoi: Ownton Old	Engine running	Battery voltage
24		_			Front wiper stop position	0 V
(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			_
27	_	CAN-H	Input/ Output			_

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< ECU DIAGNOSIS >

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
31	Ground	Cooling fan relay-4 control	Output	Cooling fan opera-	OFF	Battery voltage
(LG)	Ground	Cooling fan felay-4 control	Output	tion	LO	0 - 1.0 V
32					ximately 2 seconds or more tion switch from ON to OFF	Battery voltage
(V) Ground	Ground	ETC relay control	Input	<ul><li>Ignition switch ON</li><li>For approximately tion switch from C</li></ul>	2 seconds after turning igni-	0 - 1.0 V
				Ignition switch OFF		0 V
33 (GR)	Ground	Fuel pump relay control	Input	Ignition quitab ON	Engine stopped	Battery voltage
<b>O</b> 1 ()				Ignition switch ON	Engine running	0.8 V
34* <sup>3</sup>	0	I I a a d a coitala		Close the hood		Battery voltage
(W)	Ground	Hood switch	Input	Open the hood		0 V
37	0	Tail, license plate lamps	0	Lighting switch OFF		0 V
(R)	Ground	and illuminations	Output	Lighting switch 1ST		Battery voltage
38	0	Darling Lagran (LLI)	0	Lighting switch OFF		0 V
(R)	Ground	Parking lamp (LH)	Output	Lighting switch 1ST		Battery voltage
39	Crawad	Darking lawn (DLI)	Outnut	Lighting switch OFF		0 V
GR)	Ground	Parking lamp (RH)	Output	Lighting switch 1ST		Battery voltage
40	0	lanitia a nalau a autoria	0	Ignition switch OFF	or ACC	0 V
3R)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
41	0	lanitia a nalau a autoria	0	Ignition switch OFF	Ignition switch OFF or ACC	
(O)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
42	0	Frank win and U	0	Institute on the CNI	Front wiper switch OFF	0 V
(L)	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch HI	Battery voltage
43	0			1	Front wiper switch OFF	0 V
(G)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch LO	Battery voltage
45					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	Crowns	Fuel pump relay power	Outer	Ignition switch OF     After passing appraafter turning the ignition	roximately 1 second or more	0 V
(W)	Ground	supply	Output	<ul> <li>For approximately 1 second after turning the ignition switch ON</li> <li>Engine running</li> </ul>		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	Ignition switch ON     For approximately 4 seconds after turning ignition switch from ON to OFF		Battery voltage
<i>1</i> Ω				After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
48 (R)	Ground	ECM relay power supply	Output	Ignition switch ON     For approximately 4 seconds after turning ignition switch from ON to OFF		Battery voltage
50	C=2::	Cooling for relay 5	044	Cooling fan opera-	OFF	Battery voltage
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V

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Terminal No. (Wire color)		Description		Condition		Value		
+	color)	Signal name	Input/ Output	(	(Approx.)			
51				After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		Battery voltage		
(L)	(L) Ground ECM relay control Output • Ignition switch ON		0 - 1.0 V					
52					kimately 2 seconds or more tion switch from ON to OFF	0 V		
(P)	Ground	ETC relay power supply	Output	For approximately	<ul> <li>Ignition switch ON</li> <li>For approximately 2 seconds after turning ignition switch from ON to OFF</li> </ul>			
			-	Engine stopped		0 V		
55					A/C switch OFF	0 V		
(O)	Ground	Ground	A/C relay power supply	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage
56				Ignition switch OFF	or ACC	0 V		
(L)	Ground	Ignition switch ON	Input	Ignition switch ON		Battery voltage		
57	0	U	O t	The horn is not activ	rated	Battery voltage		
(V)	Ground	Horn relay control	Output	The horn is activated	d	0 V		
58	2	L 20		Ignition switch OFF	or ACC	0 V		
(LG)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage		
59	Oround	lee iden valarina arrangan	Output	Ignition switch OFF	or ACC	0 V		
(BR)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage		
60	0	I a sidi a a sala a	0	Ignition switch OFF or ACC		0 V		
(SB)	Ground	Ignition relay power supply	Output	Ignition switch ON				
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage		

<sup>\*1:</sup> With daytime running light system

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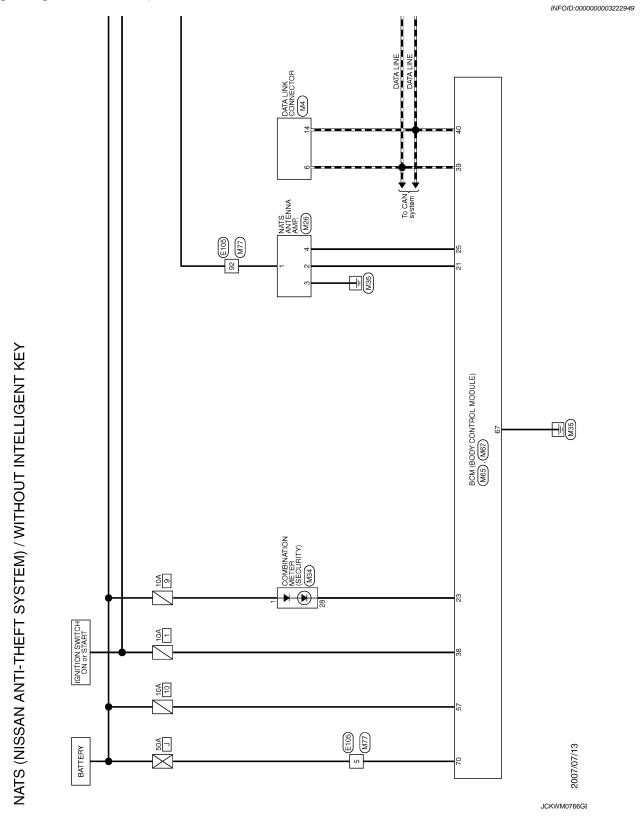
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<sup>\*2:</sup> With front fog lamp system

<sup>\*3:</sup> For Mexico

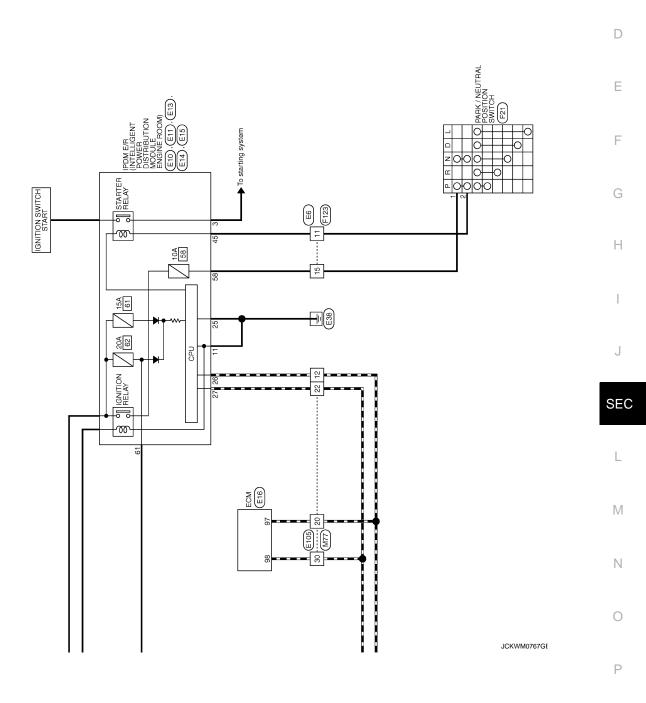
Wiring Diagram - NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) -



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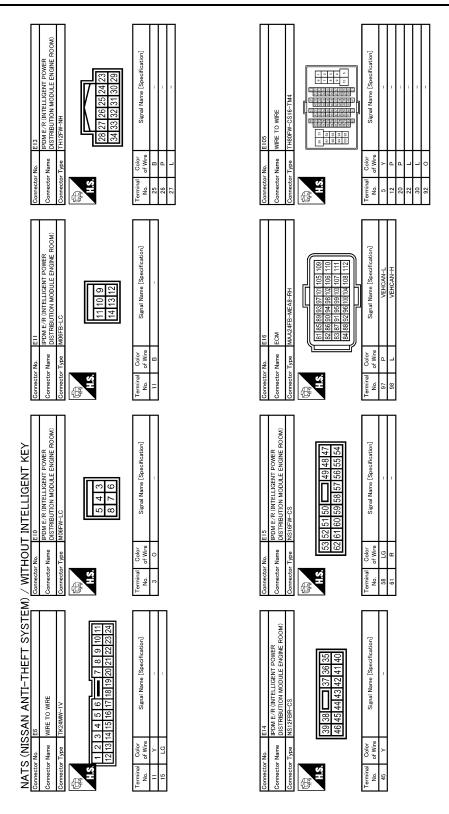
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< ECU DIAGNOSIS >



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

[WITHOUT INTELLIGENT KEY SYSTÉM] < ECU DIAGNOSIS >

Connector No.   M26	WIRE TO WIFE THBOMM-CSIG-TN The Company of the Comp	A B C
M4   Connector No.   M4   Connector Name   DATA LINK CONNECTOR   Connector Type   BD16FW     D10   11   12   3   4   5   6   7   8	Connector No.   M67   Connector Name   BCM (BODY CONTROL MODULE)   Connector Type   FEA09FB-FHA6-SA     S6   57   58   59   60   61   62   70	E F G
M) / WITHOUT INTELLIGENT KEY  Connector None   F123   Connector Type   TX24FW-1V      11   10   9   7     12   23   21   20   19   18   17   16   15   14   13   12    Terminal   Color   No. of Wire   Signal Name [Specification]     15   LG   LG     16   LG   LG     17   LG   LG     18   LG   LG     19   R   LG     10   R   LG     11   R     12   LG     12   LG     13   LG     14   15   LG     15   LG     16   LG     17   LG     18   LG     19   LG     10   LG     11   LG     11   LG     12   LG     13   LG     14   LG     15   LG     15   LG     16   LG     17   LG     18   LG     19   LG     10   LG     10   LG     11   LG     11   LG     12   LG     13   LG     14   LG     15   LG     15   LG     16   LG     17   LG     18   LG     19   LG     10   LG     10   LG     11   LG     11   LG     12   LG     13   LG     14   LG     15   LG     15   LG     15   LG     16   LG     17   LG     17   LG     18   LG     18   LG     18   LG     19   LG     10   LG     10   LG     10   LG     11   LG     11   LG     12   LG     13   LG     14   LG     15   LG     15   LG     15   LG     15   LG     15   LG     16   LG     17   LG     18   L	Connector No.   M65   Connector Name   ECM (BODY CONTROL MODULE)	SEC
NATS (NISSAN ANTI-THEFT SYSTEM   Connector Name   F21   Connector Name   PARK / NEUTRAL POSITION SWITCH   Connector Type   RNG9FG   F2   F2   F2   F3   F4   F4   F4   F4   F4   F4   F4	Connector Name	L  M  N  O  JCKWM0769GE
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< ECU DIAGNOSIS > Wiring Diagram - THEFT WARNING SYSTEM -INFOID:0000000003222948 FULL STROKE (IK): With Intelligent Key (OI): Without Intelligent Key UNLOCK BETWEEN FULL STROKE AND N FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) DOOR KEY CYLINDER SWITCH Юю z BETWEEN FULL STROKE AND N LOCK DATA LINK CONNECTOR M4 M18 01 BACK DOOR SLOCK ASSEMBLY (BACK DOOR SWITCH) BCM (BODY CONTROL MODULE) (M65), (M66) To CAN system REMOTE KEYLESS ENTRY RECEIVER (M91): (OI) M13 (B77) SWITCH RH (B53) ō IGNITION SWITCH ACC or ON 10A FRONT DOOR SWITCH (PASSENGER SIDE) ₽ 0 COMBINATION METER (SECURITY) M34 9 10**A** REAR DOOR SWITCH LH (B71) E105 M77 20**A** VEHICLE SECURITY SYSTEM BATTERY FRONT DOOR SWITCH (DRIVER SIDE) M 13 IGNITION SWITCH ON or START **ĕ**[-] 2007/07/13

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< ECU DIAGNOSIS >

Connector No. B34	Connector Name FRONT DOOR SWITCH (DRIVER SIDE) Connector Type A03FW	H.S.	Terminal Color No. of Wire Signal Name [Specification]	Connector No. B79	Connector Name WIRE TO WIRE	Connector Type M04MW-LC	H.S. 3 4 3 4	Terminal Golor Signal Name [Specification]
Connector No. B27	Connector Name RRONT DOOR SWITCH (PASSENGER SIDE) Connector Type A03FW	H.S.	Terminal Color Nice Signal Name [Specification]	Connector No. B77	Connector Name WIRE TO WIRE	Connector Type NS10MW-CS	HS 12 34 5 6 7 8 9 10	Terminal Color Signal Name [Specification] No. of Wire
Connector No. B3	Connector Name WIRE TO WIRE Connector Type TH32MW-NH	H.S.	Terminal   Color   Signal Name [Specification]	Connector No. B71	Connector Name REAR DOOR SWITCH LH	Connector Type A03FW	H.S. H.S.	Terminal Color No. of Wire 2 CB
VEHICLE SECURITY SYSTEM Connector No.   B1	9 e		Terminal Color   Signal Name [Specification]	Connector No. B53	Connector Name REAR DOOR SWITCH RH	Connector Type A03FW	H.S.	Terminal Color Signal Name [Specification] No. of Wire

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

[WITHOUT INTELLIGENT KEY SYSTÉM] < ECU DIAGNOSIS >

Connector No. D6 Connector Name POWER WINDOW MAIN SWITCH Connector Type NSGSPW-CS  ALS  Terminal Color Signal Name [Specification]  17 B P	Connector No. D151 Connector Name WIRE TO WIRE Connector Type NS08FBR-CS  A1.5  Terminal Color No. Of Wire  No. Wire  Signal Name [Specification]	A B C
Connector No.   D5	Connector No.   D45	E F G
Connector Name   WIRE TO WIRE	Connector No.   O41   Connector Name   WIRE TO WIRE	J
VEHICLE SECURITY SYSTEM  Connector Name WIRE TO WIRE  Connector Type ITHISFW-NH  Connector Type ITHISFW-NH  R 7 6 5 4 3 2 1  Terminal Color  No. of Wire  Signal Name [Specification]  1 P  1 P  9 B W  9 B W	Connector No.   D9   Connector Name   FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)   Connector Type   E06FGY-RS	M  N  O
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< ECU DIAGNOSIS >

Connector No.   D181	П	NSGBMBR-CS	Terminal Color Signal Name [Specification]	Connector No. E11 Connector Name DISTRIBUTION MODULE ENGINE ROOM) Connector Type M06FB-LC  H.S. 11109	Terminal Color Signal Name [Specification]  No. of Wire Signal Name [Specification]
Connector No. D159		Connector Type Modelffy-LC	Terminal Color No. of Wire 3 B B	Connector No. E5 Connector Type  M.S. 2	Terminal   Color   Signal Name [Specification]   No. of Wire   1 GR   -
Connector No. D157		Connector Type INSIGN-CS  H.S. 4 3	Terminal Golor Signal Name [Specification]  A W —	Connector No. D190 Connector Name BACK DOOR LOCK ASSEMBLY Connector Type NSGAFW-CS  H.S. The Connector Type NSGAFW-CS  The Connector Type NSGAFW-CS  The Connector Type NSGAFW-CS  The Connector Type NSGAFW-CS	Termitral   Golor   Signal Name [Specification]
VEHICLE SECURITY SYSTEM Connector No.   D152	e l	MOZEW-GY-LC  H.S.  1	Terminal Golor No. of Wire Signal Name [Specification] 2 B -	Connector No. D182 Connector Name WIRE Connector Type M02MW-GY-LC  H.S.	Terminal   Color   Signal Name [Specification]

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

[WITHOUT INTELLIGENT KEY SYSTÉM] < ECU DIAGNOSIS >

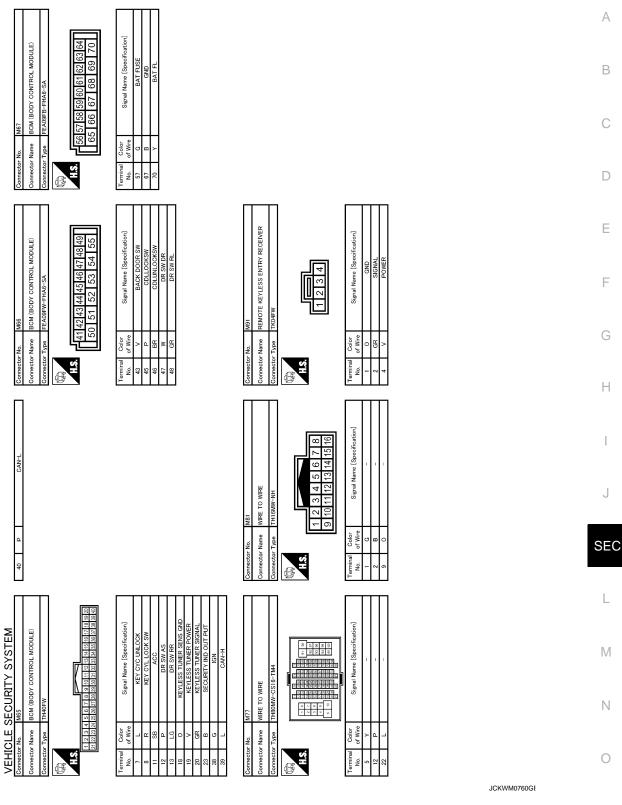
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Connector No. M13  Connector Name WIRE TO WIRE  Connector Type TH32FW-NH  LLS  [18] 131 130 129 128 [27] 26 [25] 22 [27] 20 19 18 17	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   15   W	Connector No. M40  Connector Type TH40PW-NH  Connector Type TH40PW-NH  TI 2 S 4 5 6 7 8 9 6 11 8 14 18 6 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Terminal   Color   Signal Name [Specification]
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Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW  Connector Name B	Terminal   Color   Signal Name [Specification]   Color   Col	Connector No. MI9 Connector Name WIRE TO WIRE Connector Type INSIBMW-CS  ILS  1 2 3	Terminal Color No. of Wire 7 B Signal Name [Specification]
VEHICLE SECURITY SYSTEM Connector Name HOOD SWITCH Connector Type WOZFW  LAS.	Terminal Color   Signal Name [Specification]	Connector No. M18 Connector Name WIRE TO WIRE Connector Type THISMW-NH H.S.  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Terminal   Color   Signal Name [Specification]     Pr         Pr

JCKWM0759GE



## Fail Safe

#### REAR WIPER MOTOR PROTECTION

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

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

#### HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

#### NOTE:

The blinking speed is normal while activating the hazard warning lamp.

#### DTC Inspection Priority Chart

INFOID:0000000003077068

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	<ul> <li>C1704: LOW PRESSURE FL</li> <li>C1706: LOW PRESSURE FR</li> <li>C1706: LOW PRESSURE RR</li> <li>C1707: LOW PRESSURE RL</li> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] RR</li> <li>C1712: [CHECKSUM ERR] FL</li> <li>C1713: [CHECKSUM ERR] FR</li> <li>C1714: [CHECKSUM ERR] RR</li> <li>C1715: [CHECKSUM ERR] RR</li> <li>C1716: [PRESS DATA ERR] FL</li> <li>C1717: [PRESS DATA ERR] FR</li> <li>C1717: [PRESS DATA ERR] FR</li> <li>C1719: [PRESS DATA ERR] RR</li> <li>C1719: [PCODE ERR] FR</li> <li>C1721: [CODE ERR] FR</li> <li>C1721: [CODE ERR] FR</li> <li>C1722: [CODE ERR] RR</li> <li>C1723: [CODE ERR] RR</li> <li>C1724: [BATT VOLT LOW] FL</li> <li>C1725: [BATT VOLT LOW] FR</li> <li>C1726: [BATT VOLT LOW] RR</li> <li>C1727: [VHCL SPEED SIG ERR</li> </ul>

DTC Index INFOID:0000000003077069

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

DTC	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-35
C1704: LOW PRESSURE FL	×	
C1705: LOW PRESSURE FR	×	WT-14
C1706: LOW PRESSURE RR	×	<u>VV1-14</u>
C1707: LOW PRESSURE RL	×	

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<	<b>FCU</b>	<b>DIAGNOSIS</b>	>
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DTC	Tire pressure monitor warning lamp ON	Reference	
C1708: [NO DATA] FL	×		
C1709: [NO DATA] FR	×	WT-16	Е
C1710: [NO DATA] RR	×	<u> </u>	L
C1711: [NO DATA] RL	×	-	
C1712: [CHECKSUM ERR] FL	×		(
C1713: [CHECKSUM ERR] FR	×	W/T 10	
C1714: [CHECKSUM ERR] RR	×	- <u>WT-19</u>	
C1715: [CHECKSUM ERR] RL	×	=	
C1716: [PRESS DATA ERR] FL	×		
C1717: [PRESS DATA ERR] FR	×	WT 22	[
C1718: [PRESS DATA ERR] RR	×	- <u>WT-22</u>	
C1719: [PRESS DATA ERR] RL	×		
C1720: [CODE ERR] FL	×		-
C1721: [CODE ERR] FR	×	WT-24	
C1722: [CODE ERR] RR	×	- <u>VV1-24</u>	(
C1723: [CODE ERR] RL	×	=	`
C1724: [BATT VOLT LOW] FL	_		
C1725: [BATT VOLT LOW] FR	_	W.T. 07	-
C1726: [BATT VOLT LOW] RR	_	- <u>WT-27</u>	
C1727: [BATT VOLT LOW] RL	_		
C1729: VHCL SPEED SIG ERR	×	<u>WT-30</u>	
C1735: IGN CIRCUIT OPEN	_	BCS-36	

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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
	Lock all doors with key fob	Vehicle security system can not be set	SEC-246
VEHICLE SECURITY	Ignition switch turn OFF	Security indicator does not turn ON or flash	SEC-245
SYSTEM	In the armed phase, open the door	Vehicle security alarm does not activate	SEC-247
	When alarm sound, press key fob button	Vehicle security system can not be canceled	SEC-248

## SECURITY INDICATOR DOES NOT TURN ON OR FLASH

< SYMPTOM DIAGNOSIS >

## [WITHOUT INTELLIGENT KEY SYSTEM]

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SECURITY INDICATOR DOES NOT TURN ON OR FLASH	Δ
Description INFOID:000000003109808	
<ul><li>NOTE:</li><li>Before performing the diagnosis, check "Work Flow". Refer to <u>SEC-6. "Work Flow"</u>.</li></ul>	В
Diagnosis Procedure	
1. CHECK VEHICLE SECURITY INDICATOR	С
Check vehicle security indicator. Refer to <u>SEC-194, "Component Function Check"</u> .  Is the inspection result normal?	D
YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.  2.CONFIRM THE OPERATION	Е
Confirm the operation again.	F
Is the result normal?  YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".  NO >> GO TO 1.	G
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#### VEHICLE SECURITY SYSTEM CAN NOT BE SET

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## VEHICLE SECURITY SYSTEM CAN NOT BE SET

Description INFOID:0000000003109799

#### NOTE:

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

## Diagnosis Procedure

INFOID:0000000003109800

## 1. CHECK DOOR LOCK FUNCTION

Check door lock function.

Refer to DLK-314, "DOOR LOCK AND UNLOCK SWITCH: System Description".

#### s the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>DLK-310</u>, "Work Flow".

#### 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

#### VEHICLE SECURITY ALARM DOES NOT ACTIVATE

[WITHOUT INTELLIGENT KEY SYSTEM]

#### < SYMPTOM DIAGNOSIS > VEHICLE SECURITY ALARM DOES NOT ACTIVATE Α Description INFOID:0000000003109803 NOTE: В Before performing the diagnosis, check "Work Flow". Refer to <u>SEC-6, "Work Flow".</u> Diagnosis Procedure INFOID:0000000003109804 1. CHECK DOOR SWITCH Check door switch. D Refer to SEC-189, "Component Function Check". Is the inspection results normal? YES >> GO TO 2. Е NO >> Repair or replace malfunction part. 2. CHECK HORN Check horn. F Refer to SEC-61, "EXCEPT FOR MEXICO: 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 EXL-6, "Work Flow". (XENON type), Refer to EXL-134, "Work Flow". (HALOGEN type) 4. CONFIRM THE OPERATION Confirm the operation again. Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

>> GO TO 1. NO

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#### VEHICLE SECURITY SYSTEM CAN NOT CANCELED

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

### VEHICLE SECURITY SYSTEM CAN NOT CANCELED

Description INFOID:000000001911459

#### NOTE:

• Before performing the diagnosis, check "Work Flow". Refer to SEC-165, "Work Flow".

## Diagnosis Procedure

INFOID:0000000001911460

## 1. CHECK MULTI REMOTE CONTROL SYSTEM

Check multi remote control system.

Refer to <u>DLK-316</u>, "KEYFOB: System Description".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Check Work Flow. Refer to <u>DLK-310</u>, "Work Flow".

#### 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

#### **PRECAUTIONS**

< PRECAUTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## **PRECAUTION**

#### **PRECAUTIONS**

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIRBAG" 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 the "SRS AIRBAG".
- Do not 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.

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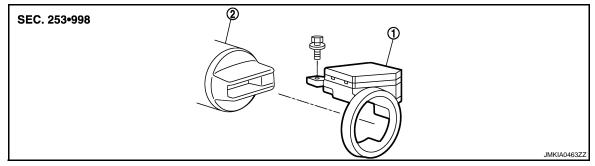
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## **ON-VEHICLE REPAIR**

## NATS ANTENNA AMP.

## **Exploded View**

INFOID:0000000001911467



1. NATS antenna amp.

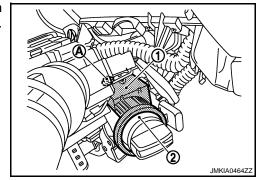
2. Steering lock assembly

#### Removal and Installation

#### INFOID:0000000001911468

#### **REMOVAL**

- Remove the steering column cover. Refer to <u>IP-13</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.