SECURITY CONTROL SYSTEM

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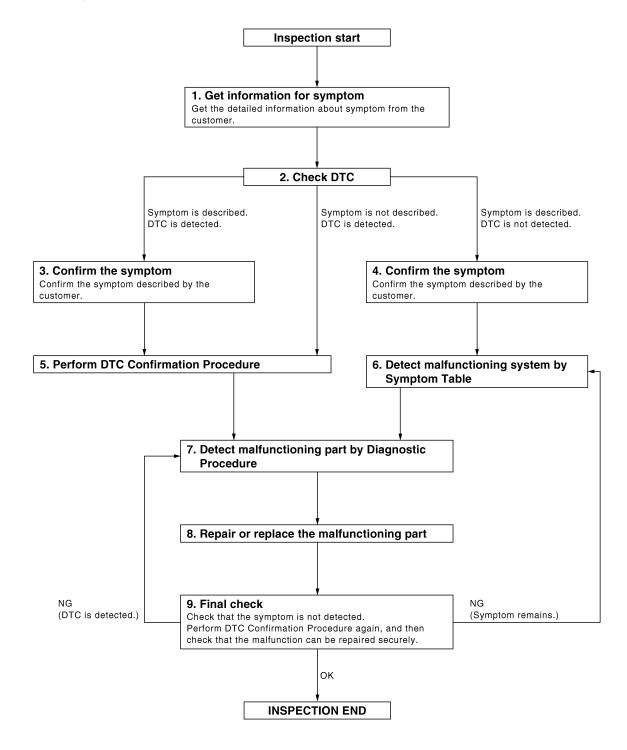
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Is any symptom described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

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

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

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

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

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. If two or more DTCs are detected, refer to SEC-125, "DTC Inspection Priority Chart" (Intelligent Key unit) SEC-104, "DTC Inspection Priority Chart" (BCM) and determine trouble diagnosis order.

Is DTC detected?

YES >> GO TO 7.

>> Refer to GI-40, "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.

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>> 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.

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Check DTC. If DTC is displayed, erase it.

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

>> GO TO 9.

9. FINAL CHECK

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

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

Are all malfunctions corrected?

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

INSPECTION AND ADJUSTMENT

[WITH INTELLIGENT KEY SYSTEM]

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< BASIC INSPECTION > INSPECTION AND ADJUSTMENT Α ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description INFOID:0000000005256078 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:0000000005256079 D Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS. ECM RE-COMMUNICATING FUNCTION Е ECM RE-COMMUNICATING FUNCTION: Description INFOID:0000000005256080 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:0000000005256081 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

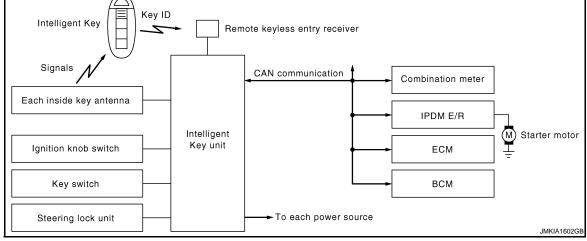
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SYSTEM DESCRIPTION

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

System Diagram

INFOID:0000000005256082



System Description

INFOID:0000000005256083

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)	Engine start function	KEY warning lamp/buzzer
	Ignition knob switch	Ignition knob (press/release)		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
	Transmission range 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

< SYSTEM DESCRIPTION >

[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 SEC-15, "System Description" 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.
- 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 DLK-34, "WARNING FUNCTION: System Description")
- 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.
- IPDM E/R turns the starter control relay ON when receiving the starter request signal.
- When shift position is in P or N position, battery power is supplied through the starter relay and operate the starter motor and to start the cranking. **CAUTION:**

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

OPERATION RANGE

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

OPERATION WHEN MECHANICAL KEY IS USED

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

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

STEERING LOCK OPERATION

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

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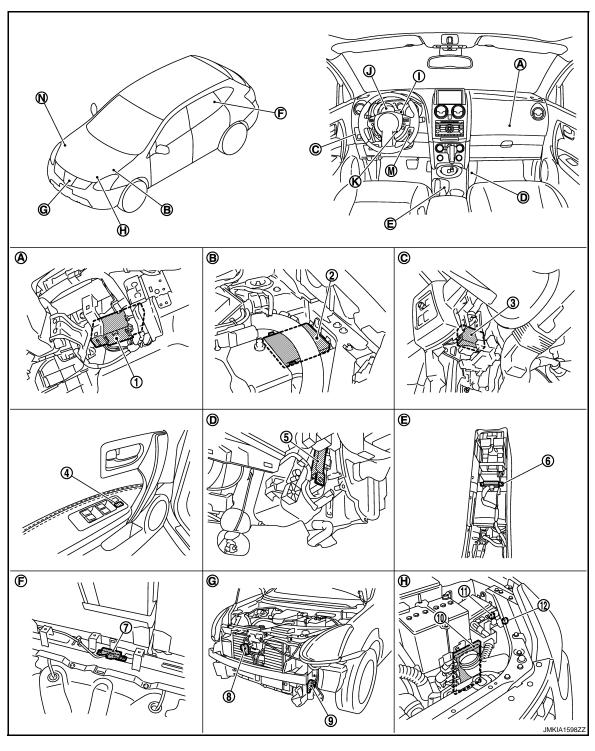
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INFOID:0000000005256084

Component Parts Location



- 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)

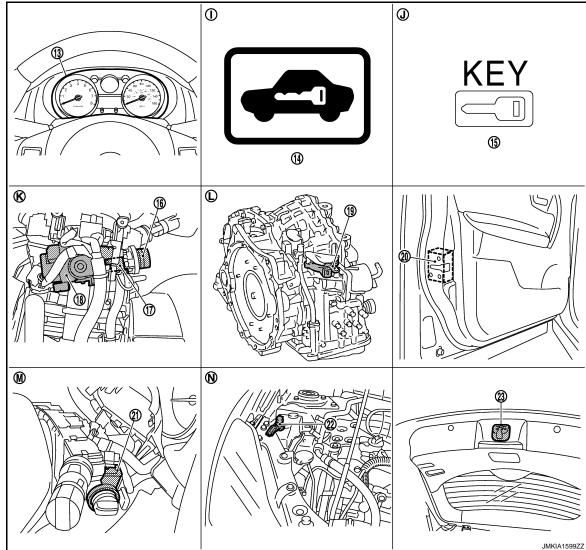
- Intelligent Key unit M40
- 6. Inside key antenna (console) M252
- 9. Horn (high) E78, E79
- 12. Theft warning horn relay E70 (for Mexico)

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- A. Over the glove box
- D. View with instrument lower cover (RH) removed
- G. View with front bumper removed
- B. Engine room (LH)
- Over the instrument driver lower cover
- E. Back side of center console
- F. View with luggage floor trim center finisher removed
- H. Engine room (LH)



- 13. Combination meter M34
- Ignition knob switch
 (Ignition knob switch, key switch and key lock solenoid M25)
- 19. Transmission range switch F21
- 22. Hood switch E113 (for Mexico)
- I. Built in combination meter
- L. Transaxle assembly

- 14. Security indicator lamp (combination meter M34)
- Key switch (Ignition knob switch, key switch and key lock solenoid M25)
- Front door lock assembly (driver side) 21.
 D9
- 23. Back door switch (back door lock assembly D190)
- J. Built in combination meter
- M. View with steering column cover removed

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

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

< SYSTEM DESCRIPTION > Component Description

INFOID:0000000005256085

Component	Reference
Intelligent Key unit	<u>SEC-43</u>
BCM	BCS-7
ECM	For California: <u>EC-32</u> For USA (Fedelal) and Canada: <u>EC-519</u> For Mexico: <u>EC-960</u>
Combination meter	MWI-6
Steering lock unit	<u>SEC-41</u>
Ignition knob switch	<u>SEC-53</u>
Key switch	SEC-51
Inside key antenna	DLK-90
Security indicator lamp	<u>SEC-64</u>

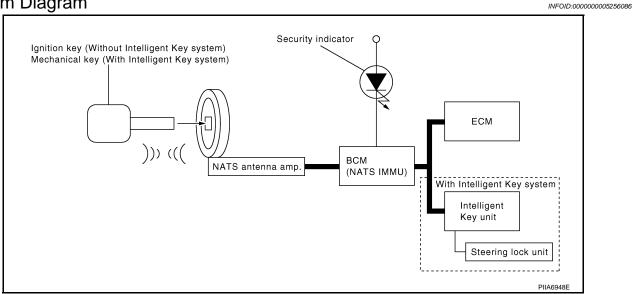
NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

System Diagram



System Description

INPUT/OUTPUT SIGNAL CHART

Intelligent Key Unit

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

BCM

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

SYSTEM DESCRIPTION

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

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

PRECAUTIONS FOR KEY REGISTRATION

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

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NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

SECURITY INDICATOR

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

MAINTENANCE INFORMATION

CAUTION:

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

Component Parts Location

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- 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
- 5. 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)

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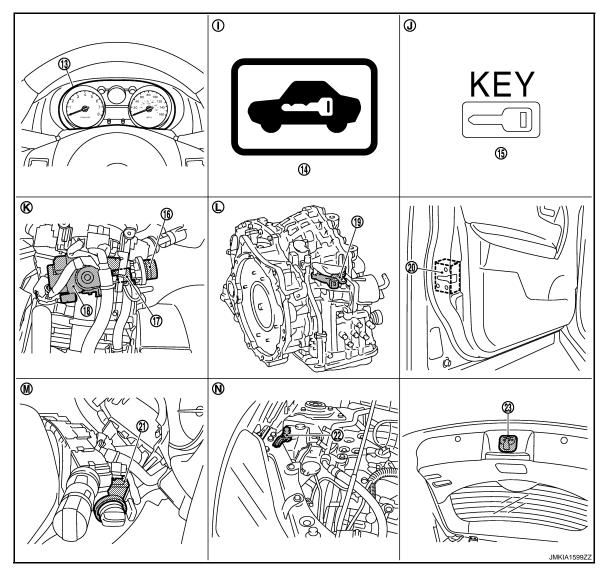
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NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS) [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

- 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. Transmission range switch F21
- 22. Hood switch E113 (for Mexico)
- Built in combination meter Ι.
- Transaxle 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 J.
- Μ. View with steering column cover removed

- 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) SCRIPTION > [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION > Component Description

INFOID:000000005256089

Component	Reference
BCM	BCS-7
IPDM E/R	PCS-2
Steering lock unit	<u>SEC-41</u>
Key switch	SEC-51
Ignition knob switch	<u>SEC-53</u>
NATS antenna amp.	<u>SEC-38</u>
Security indicator lamp	<u>SEC-64</u>
Door lock and unlock switch	DLK-59
Key cylinder switch	<u>DLK-70</u>

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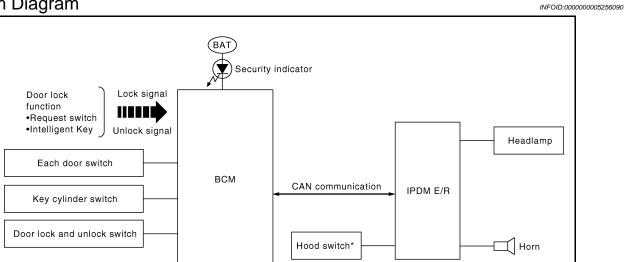
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VEHICLE SECURITY SYSTEM

System Diagram



System Description

: For Mexico

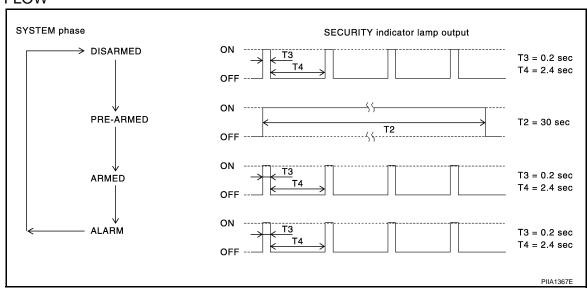
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INPUT/OUTPUT SIGNAL CHART

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

OPERATION FLOW



SETTING THE VEHICLE SECURITY SYSTEM

Initial Condition

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

• Ignition switch is in OFF position.

Disarmed Phase

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

Pre-armed Phase and Armed Phase

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

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

CANCELING THE SET VEHICLE SECURITY SYSTEM

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

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

CANCELING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

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

ACTIVATING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

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

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

PANIC ALARM OPERATION

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

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

The headlamp flashes and the horn sounds intermittently.

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

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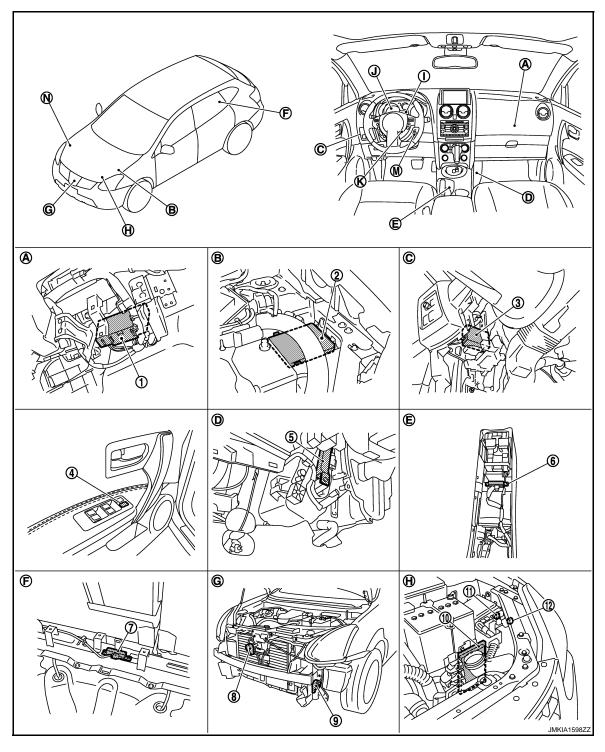
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Component Parts Location

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- 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

< SYSTEM DESCRIPTION >

[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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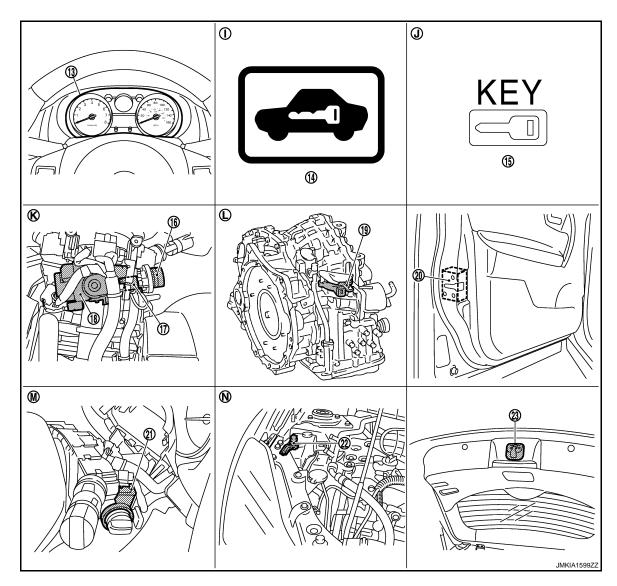
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Engine room (RH)



- Combination meter M34
- 16. Ignition knob switch (Ignition knob switch, key switch and key lock solenoid M25)
- Transmission range switch F21
- 22. Hood switch E113 (for Mexico)
- Built in combination meter Ι.
- Transaxle 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

J.

- M. View with steering column cover removed

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

NATS antenna amp. M26

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Component Description

INFOID:0000000005256093

Component	Reference	
BCM	BCS-7	
Horn	<u>SEC-62</u>	
Hood switch	<u>SEC-55</u>	
Security indicator	SEC-64	
Door switch	DLK-299	
IPDM E/R	PCS-2	

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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APPLICATION ITEM

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

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-62, "DTC Index".
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

Cuatara	CONSULT-III sub system selection item	Diagnosis mode		
System		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
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			×

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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

IMMU: CONSULT-III Function (BCM - IMMU)

INFOID:0000000005580516

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:0000000005580522

APPLICATION ITEM

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

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

DATA MONITOR

Monitor Item	Condition	
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.	
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.	
KEY ON SW	Indicates [ON/OFF] condition of key switch.	
KEYLESS LOCK*2	Indicates [ON/OFF] condition of lock signal from key fob.	
KEYLESS UNLOCK*2	Indicates [ON/OFF] condition of unlock signal from key fob.	
I-KEY LOCK*1	Indicates [ON/OFF] condition of lock signal from Intelligent Key.	
I-KEY UNLOCK*1	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.	
TRUNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.	
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	
TRNK OPNR MNTR	NOTE: The item is indicated, but not monitored.	
HOOD SW	Indicates [ON/OFF] condition of hood switch.	
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).	
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).	
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.	
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.	
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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

ACTIVE TEST

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

WORK SUPPORT

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

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 $^{^{\}star 2}\!\!:$ For the vehicle equipped with remote key less entry system.

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

CONSULT-III Function (INTELLIGENT KEY)

INFOID:0000000005256097

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-145, "DTC Index".

DATA MONITOR

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

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

ACTIVE TEST

Test item	Description
DOOR LOCK/UNLOCK	This test is able to check door lock/unlock operation • ALL UNLK: All door lock actuators are unlocked • DR UNLK: Door lock actuator (driver side) is unlocked • AS UNLK: Door lock actuator (passenger side) is unlocked • BK UNLK: This item is indicated, but inactive • LOCK: All door lock actuator is locked
ANTENNA	This test is able to check Intelligent Key antenna operation. When the following condition are met, LED (on Intelligent Key) blinks ROOM ANT1: Inside key antenna (console) transmissions can be detected by Intelligent Key, when "ROOM ANT1" is selected ROOM ANT2: 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)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Test item Description	
This test is able to check warning chime in combination meter opera TAKE OUT: Take away warning chime sounds KNOB: Ignition knob switch warning chime sounds KEY: Key warning chime sounds OFF	
INDICATOR	This test is able to check warning lamp operation BLUE ON: Key warning lamp (green) illuminates RED ON: Key warning lamp (red) illuminates KNOB ON: Lock warning lamp illuminates BLUE IND: Key warning lamp (green) flashes RED IND: Key warning lamp (red) flashes KNOB IND: Lock warning lamp flashes OFF

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

BCM

BCM : Description

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

CAN Communication Signal Chart. Refer to LAN-26, "CAN Communication Signal Chart".

BCM: DTC Logic

INFOID:0000000005256099

DTC DETECTION LOGIC

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

BCM: Diagnosis Procedure

INFOID:0000000005256100

1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

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

NO >> Refer to GI-40, "Intermittent Incident".

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

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

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

CAN Communication Signal Chart. Refer to LAN-26, "CAN Communication Signal Chart".

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

DTC DETECTION LOGIC

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

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

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

agnosis Procedure

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1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

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

NO >> Refer to GI-40, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic INFOID:0000000005256104

DTC DETECTION LOGIC

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

Diagnosis Procedure

1. REPLACE INTELLIGENT KEY UNIT

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

>> Replace Intelligent Key unit.

Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

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

>> WORK END

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[WITH INTELLIGENT KEY SYSTEM]

P1610 LOCK MODE

Description INFOID:0000000005256107

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

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000005256109

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 mechanical key.

Does the engine start?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P1611 ID DISCORD, IMMU-ECM

Description INFOID:0000000005256110

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:0000000005256111

DTC DETECTION LOGIC

NOTE:

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

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON.

Check "Self Diagnostic Result" with CONSULT-III.

Is DTC detected?

YES >> Refer to SEC-35, "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?

>> INSPECTION END (ID was unregistered.)

NO >> GO TO 2.

2.REPLACE BCM

Replace BCM. Refer to BCS-67, "Removal and Installation"

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

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

YES >> INSPECTION END (BCM was malfunctioning.)

NO >> GO TO 3.

3.REPLACE ECM

Replace ECM. Refer to the following page.

- For CALIFORNIA: Refer to EC-26, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- For USA (FEDERAL) and CANADA: Refer to EC-513, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- For MEXICO: Refer to EC-955, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- Perform initialization with CONSULT-III. Re-register all mechanical keys. For initialization and registration of mechanical key. Refer to "CONSULT-III Operation Manual NATS-IVIS/ NVIS".

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P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

YES >> INSPECTION END (ECM was malfunctioning.)

NO >> GO TO 4.

4. CHECK INTERMITENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

P1612 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P1612 CHAIN OF ECM-IMMU

Description INFOID:0000000005256113

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:0000000005256114

DTC DETECTION LOGIC

NOTE:

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

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON.

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000005256115

1.REPLACE BCM

Replace BCM. Refer to BCS-67, "Removal and Installation".

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

Does the engine start?

YES >> INSPECTION END (BCM was malfunctioning.)

NO

>> ECM is malfunctioning.

Replace ECM. Refer to following page.

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

 For USA (FEDERAL) and CANADA: Refer to EC-513, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

- For MEXICO: Refer to EC-955, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

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P1614 CHAIN OF IMMU-KEY

Description INFOID:0000000005256116

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000005256118

1. CHECK NATS ANTENNA AMP. INSTALLATION

Check NATS antenna amp. installation. Refer to SEC-150, "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			
M26	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

4. CHECK NATS ANTENNA AMP. GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace circuit.

5. CHECK NATS ANTENNA AMP. SIGNAL CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace circuit.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

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P1615 DIFFRENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P1615 DIFFRENCE OF KEY

Description INFOID:0000000005256119

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

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000005256121

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.

B2013 ID DISCORD I-KEY-STRG

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2013 ID DISCORD I-KEY-STRG

Description INFOID:000000005256122

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. PERFORM INITIALIZATION

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

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

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

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

NO >> GO TO 2.

2.CHECK STEERING LOCK UNIT POWER SUPPLY-1

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK STEERING LOCK UNIT POWER SUPPLY-2

Check voltage between steering lock unit harness connector and ground.

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B2013 ID DISCORD I-KEY-STRG

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Steering	(+) g lock unit	(-)	Voltage (V) (Approx.)	
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 lock unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M40	31	M28	4	Existed	

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK STEERING LOCK UNIT COMMUNICATION CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

B2552 INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2552 INTELLIGENT KEY

Description INFOID:0000000005256125

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

1. REPLACE INTELLIGENT KEY UNIT

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

Does the engine start?

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

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

Special Repair Requirement

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

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

>> WORK END

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B2590 ID DISCORD BCM-I-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2590 ID DISCORD BCM-I-KEY

Description INFOID:000000005256129

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

DTC DETECTION LOGIC

NOTE:

 If DTC B2590 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to <u>SEC-125, "DTC Index"</u>.

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

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

Is DTC detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000005256131

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT: Diagnosis Procedure

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1.CHECK FUSE

Check that the following fuse is not blown.

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

Is the fuse blown?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

Disconnect Intelligent Key unit connector.

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between Intelligent Key unit harness connector and ground.

Intelligen	t Key unit	Ground	Continuity
Connector	Terminal		
M40	12		Exists

Does continuity exist?

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

NO >> Repair harness or connector.

INTELLIGENT KEY UNIT: Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

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

>> WORK END

BCM

BCM: Diagnosis Procedure

1. CHECK FUSES AND FUSIBLE LINK

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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Is the fuse fusing?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

	Terminals			Ignition switch position		
((+) BCM			ignition switch position		
В			(-) OFF	ACC	ON	
Connector	Terminal		OFF	ACC		
M65	4	Ground	Approx. 0 V	Battery voltage	Battery voltage	
COIVI	3		Approx. 0 V	Approx. 0 V	Battery voltage	
M66			Dettemoselteme	Detter weltere	Dattaniuslitana	
M67	57		Battery voltage	Battery voltage	Battery voltage	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector Terminal		Ground	Continuity	
M67	55		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

DOOR SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS > **DOOR SWITCH** Α Description INFOID:0000000005256135 Detects door open/closed condition. В Component Function Check INFOID:0000000005256136 1. CHECK FUNCTION (III) With CONSULT-III Check door switches ("DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR", "BACK DOOR D SW") in "Data Monitor" mode with CONSULT-III. Monitor item Door condition Display Е DOOR SW-DR DOOR SW-AS DOOR SW-RL $\mathsf{CLOSE} \to \mathsf{OPEN}$ $\mathsf{OFF} \to \mathsf{ON}$ F DOOR SW-RR **BACK DOOR** Is the inspection result normal? YES >> Door switch is OK. NO >> Refer to SEC-47, "Diagnosis Procedure". Н Diagnosis Procedure INFOID:0000000005256137 1. CHECK DOOR SWITCH INPUT SIGNAL Turn ignition switch OFF. 2. Disconnect door switch connectors. Check signal between door switch harness connector and ground with oscilloscope. J

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(+)			()	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)	В34	2		(V) 15 10 5 0 → 10ms JPMIA0587GB
Rear door switch RH	Rear door switch RH B53 2 Ground Rear door switch LH B71 2		Ground	(V) ₁₅ 10 5 0 ++10ms JPMIA0587GB
Rear door switch LH			(V) 15 10 5 0 +10ms JPMIA0594GB	
Back door lock assembly (back door switch)	D190	3		(V) ₁₅ 10 5 0

Is the inspection result normal?

YES >> • Back door switch : GO TO 3.

• Door switch: GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

[WITH INTELLIGENT KEY SYSTEM]

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

3. Check continuity between BCM harness connector and ground.

BCM connector	ector Terminal		Continuity
M65	12		Does not exist
IVIOS	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	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-49, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door switch. Refer to <u>DLK-263</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK DOOR SWITCH

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

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

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INFOID:0000000005256138

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Terminal		Condition	Continuity	
Back door 3	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-263, "Removal and Installation"</u>.

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INFOID:0000000005256140

INFOID:0000000005256141

KEY SWITCH

Description INFOID:0000000005256139

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

Component Function Check

1. CHECK KEY SWITCH INPUT SIGNAL

Check key switch ("KEY ON SW") in "Data Monitor" mode with CONSULT-III. Refer to <u>DLK-45, "DOOR LOCK : 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-51</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK KEY SWITCH POWER SUPPLY CIRCUIT

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

(+)			Voltage (V) (Approx.)	
Ignition knob switch, key switch	ch and key lock solenoid	(-)		
Connector	Connector Terminal		(11 -)	
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

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

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

2. Check continuity between key switch and ground.

Ignition knob switch, key s	witch and key lock solenoid		Continuity
Connector	Connector Terminal		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

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Check key switch function.

Refer to SEC-52, "Component Inspection".

Is the inspection result normal?

yes >> GO TO 4.

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005256142

1. CHECK KEY SWITCH

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

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

Is the inspection result normal?

YES >> Key switch is OK.

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

IGNITION KNOB SWITCH

Description INFOID:0000000005256143

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

Component Function Check

1. CHECK IGNITION KNOB SWITCH INPUT SIGNAL

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

Monitor item	Conditi	ion
PUSH SW	Ignition knob switch is pressed	: ON
P05H 5W	Ignition knob switch is released	: OFF

Is the inspection result normal?

YES >> Ignition knob switch is OK.

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

Diagnosis Procedure

1. CHECK IGNITION KNOB SWITCH POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

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

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

(+)	(-)		
Ignition knob switch, key s	witch and key lock solenoid		Voltage (V) (Approx.)	
Connector Terminal			(11 /	
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.

Intelliger	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.

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IGNITION KNOB SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Refer to SEC-54, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005256146

1. CHECK IGNITION KNOB SWITCH

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

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

Is the inspection result normal?

YES >> Ignition knob switch is OK.

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

[WITH INTELLIGENT KEY SYSTEM]

HOOD SWITCH

Description INFOID:0000000005256147

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

1. CHECK HOOD SWITCH SIGNAL

Turn ignition switch OFF.

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK HOOD SWITCH SIGNAL CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check hood switch ground circuit

Check continuity between hood switch harness connector and ground.

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HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Hood	Hood switch		Continuity
Connector	Terminal	Ground	Continuity
E113	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK IPDM E/R OUTPUT

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

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

Is the inspection result normal?

YES >> GO TO 5.

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

5. CHECK HOOD SWITCH

Refer to SEC-56, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace hood switch. Refer to <u>SEC-151</u>, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000005256150

1. CHECK HOOD SWITCH

Check continuity between hood switch terminals.

Hood	Hood switch		ndition	Continuity	
Ter	minal	Condition		Continuity	
1	2	Hood switch	Press	Not existed	
1	2	HOOG SWILCH	Release	Existed	

Is the inspection result normal?

YES >> Hood switch is OK.

NO >> Replace hood switch. Refer to <u>SEC-151</u>, "Removal and Installation".

INSIDE KEY ANTENNA INSTRUMENT CENTER

INFOID:0000000005256151

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INSTRUMENT CENTER: Description

Detects whether Intelligent Key is inside the vehicle.

INSTRUMENT CENTER: Component Function Check

INFOID:0000000005256152

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

(P)With CONSULT-III

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

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

Is the inspection result normal?

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

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

INSTRUMENT CENTER: Diagnosis Procedure

INFOID:0000000005256153

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			
(+)	(+)		O an dition	Signal
Inside key antenna (instrument center) connector	Terminal	(-)	Condition	(Reference value)
M56	1	Ground	Ignition knob switch is pressed	(V) 15 10 5 0 1 I I I I I I I I I
50	2	Sistina	ignilion rates sinten e produce	(V) 15 10 5 0 1 s JMKIA0392ZZ

Is the inspection result normal?

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

NO >> GO TO 2.

INSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

Intelliger	nt Key unit	Inside key antenna (instrument center)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	33	M56	1	Exists
W40	34	IVIOO	2	EXISIS

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

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

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-271, "Removal and Installation"</u>.

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

CONSOLE

CONSOLE : Description

INFOID:0000000005256154

Detects whether Intelligent Key is inside the vehicle.

CONSOLE: Component Function Check

INFOID:0000000005256155

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

(P)With CONSULT-III

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

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

Is the inspection result normal?

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

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

CONSOLE : Diagnosis Procedure

INFOID:0000000005256156

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

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

Tern	ninal				
(+)			Condition	Signal	
Inside key antenna (console) connector	Terminal	(–)	(-)	(Reference value)	
M252	1	Ground	Ignition knob switch is pressed	(V) 15 10 5 0 1	
WEGE	2	Sisteria	ignilion knob owiton to 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

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

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

Check continuity between Intelligent Key unit harness connector and ground.

Intelliger	nt Key unit		Continuity	
Connector	Terminal	Ground	Continuity	
M40	15	Ground	Does not exist	
IVI40	16	-	DOES HOLEKIST	

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-271, "Removal and Installation"</u>.

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

REAR SEAT

REAR SEAT: Description

Detects whether Intelligent Key is inside the vehicle.

REAR SEAT : Component Function Check INFOID:0000000005256158

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

- (P)With CONSULT-III
- Check "ANTENNA" in "Active Test" mode with CONSULT-III.

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INFOID:0000000005256157

INSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

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

Is the inspection result normal?

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

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

REAR SEAT: Diagnosis Procedure

INFOID:0000000005256159

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	ninal				
(+)			Condition	Signal	
Inside key antenna (rear seat) connector	Terminal	(-)		(Reference value)	
B45	1	Ground	Ignition knob switch is pressed	(V) 15 10 5 0 11 s JMKIA0393ZZ	
D-10	2	Glound	ignition knob switch is pressed	(V) 15 10 5 0 H 1 H 1	

Is the inspection result normal?

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

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector.

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

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

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

INSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-271</u>, "Removal and Installation".

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

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< DTC/CIRCUIT DIAGNOSIS >

HORN

EXCEPT FOR MEXICO

EXCEPT FOR MEXICO: Description

INFOID:0000000005256160

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:0000000005256161

1. CHECK FUNCTION

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

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

Is the operation normal?

YES >> INSPECTION END

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

EXCEPT FOR MEXICO: Diagnosis Procedure

INFOID:0000000005256162

1. CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

YES >> GO TO 2.

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

2.CHECK HORN RELAY CIRCUIT

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

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

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

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

Is the inspection result normal?

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

NO >> Repair or replace harness.

FOR MEXICO

FOR MEXICO: Description

INFOID:0000000005256163

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:0000000005256164

1. CHECK FUNCTION

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

[WITH INTELLIGENT KEY SYSTEM]

Test	item	Descrip	otion			
HORN	ON	Horn (high/low) ON (for 20 ms)				
e operation normal?						
e <u>ration norma</u> >> INSPECT						

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

INFOID:0000000005256165

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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.

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

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

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

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

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

Is the inspection result normal?

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

NO >> Repair or replace harness.

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VEHICLE SECURITY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY INDICATOR

Description INFOID:000000005256166

- 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:0000000005256167

1. CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000005256168

1. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK SECURITY INDICATOR LAMP SIGNAL CIRCUIT

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

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

Check continuity between combination meter harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

1. Connect combination meter connector.

VEHICLE SECURITY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. Check voltage between BCM harness connector and ground.

<u></u>	+) CM	(–)	Voltage (V)
Connector	Terminal	. ,	(Approx.)
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-87, "Removal and Installation".

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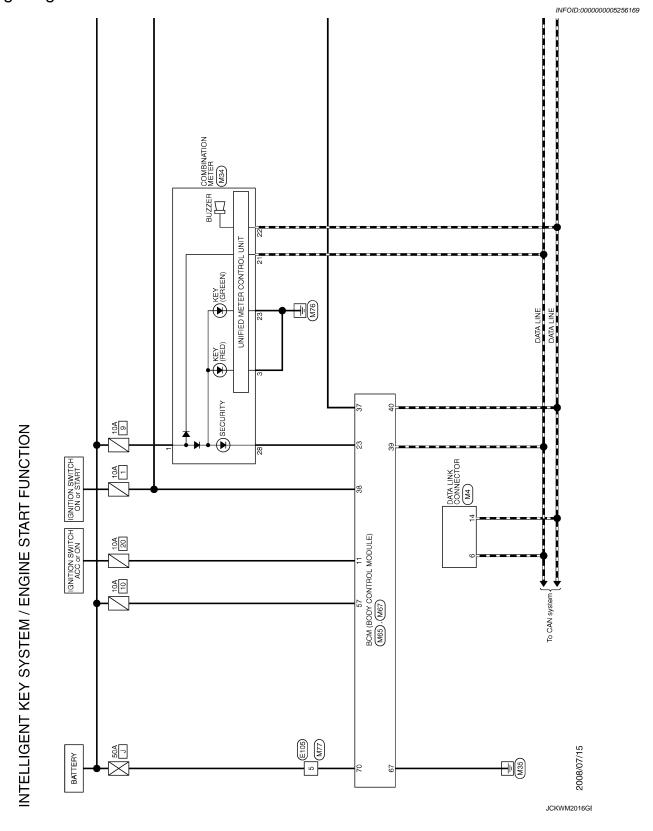
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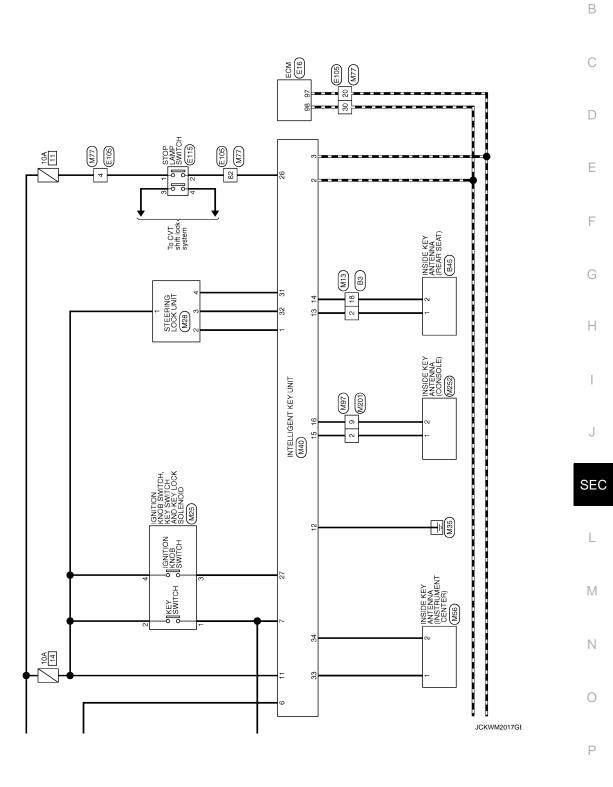
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INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

Wiring Diagram - INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION -



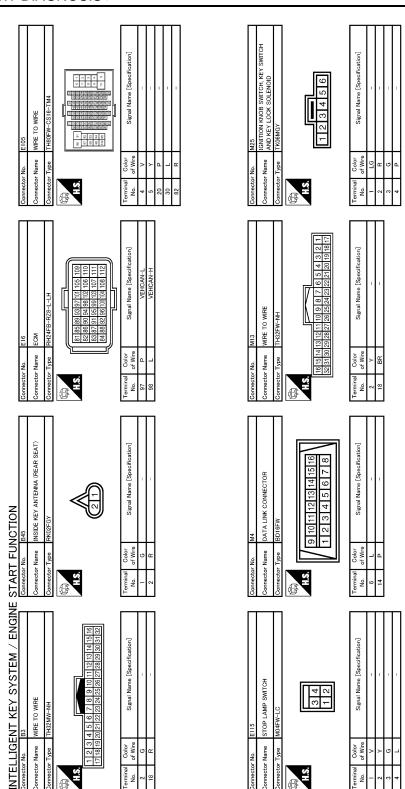
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INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION T DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

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

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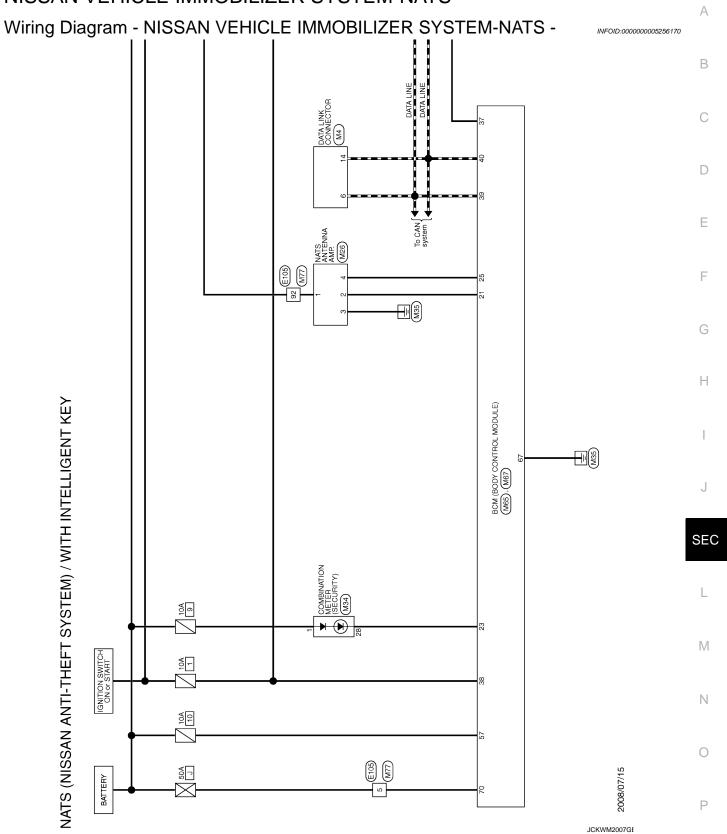
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Cornector No. M40	
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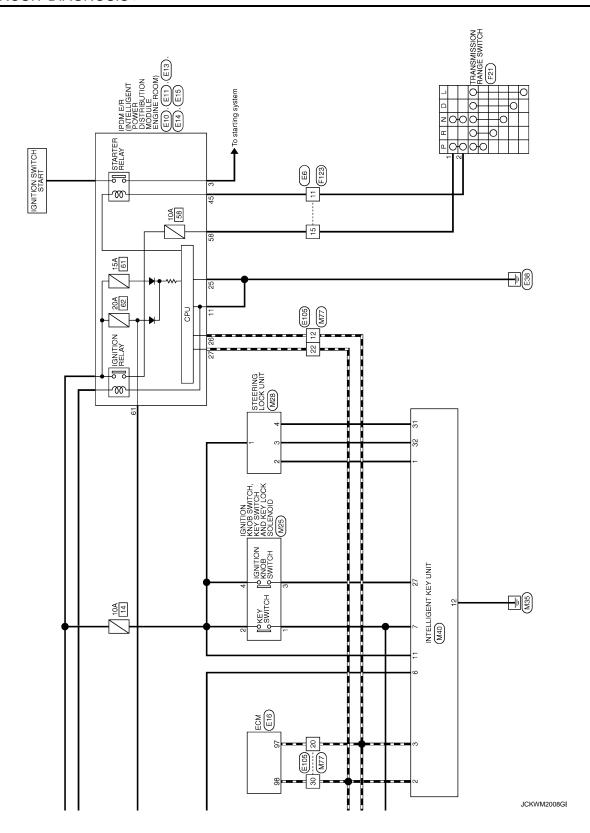
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INTE	LLIGE	INTELLIGENT KEY SYSTEM / ENGINE START FUNCTION	STAR	T FUN	ICTION			
Connector No.	Ш	M97	Connector No.	Ш	M201	Conne	Sonnector No.	M252
Connecto	or Name	Connector Name WIRE TO WIRE	Connector	· Name	Connector Name WIRE TO WIRE	Conne	octor Name	Gonnector Name INSIDE KEY ANTENNA (CONSOLE)
Connecto	Connector Type	NS16FW-CS	Connector	- Type	Connector Type NS16MW-CS	Conne	Connector Type	RK02FGY
H.S.	رخی	7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8	H.S.	- ω	2 3 	倭	vi.	
Terminal No.	erminal Color No. of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Color of Wire	Signal Name [Specification]	Termin No.	Ferminal Color No. of Wire	Signal Name [Specification]
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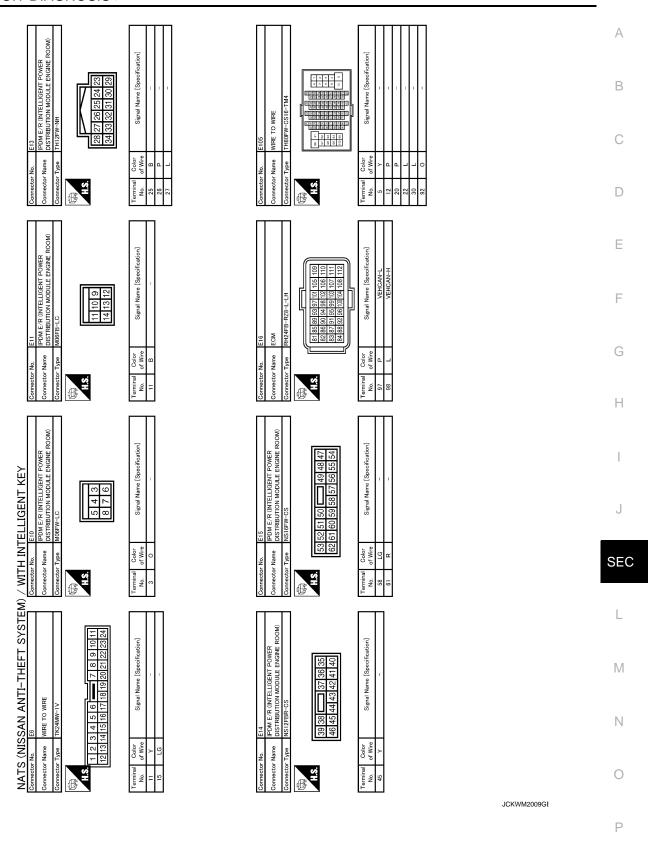
NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS





NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS

[WITH INTELLIGENT KEY SYSTEM]

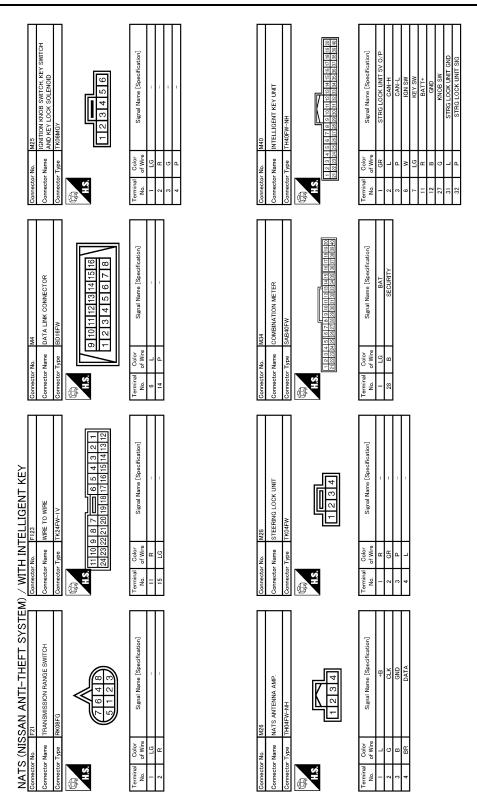


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NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]



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TS (NI	NATS (NISSAN ANTI-THEFT SYSTEM) / WITH INTELLIGENT KEY	[M]	NH	TELLIGENT KEY		
Connector No.	M65	Connec	Connector No.	M67	Connector No.	M77
Connector Name	BCM (BODY CONTROL MODULE)	Connec	tor Name	Connector Name BCM (BODY CONTROL MODULE)	Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH	Connec	Connector Type	FEA09FB-FHA6-SA	Connector Type	TH80MW-CS16-TM4
H.S.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 16 16 23 31 12 23 34 15 16 17 16 16 12 13 34 15 16 17 16 16 12 13 14 15 16 17 16 16 12 13 14 15 16 17 16 16 17 16 16 17 16 16 17 16 16 17 16 16 17 16 16 17 16 16 17 16 16 17 16 16 17 16 16 17	₽ H.S.		56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	## #.S	
Ferminal Color No. of Wire	Signal Name [Specification]	Terminal No.	al Color of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]
21 G	IMMOBI ANT(CLOCK)	22	9	BAT FUSE	2	1
23 B	SECURITY IND OUT PUT	-67	ш	GND	12 P	1
25 BR	IMMOBI ANT(RX,TX)	0/	>	BAT FL	20 P	1
37 LG	KEY SW				22 L	1
38 G	IGN				30 F	1
39 ୮	CAN-H				92 L	1
40 P	CAN-L					

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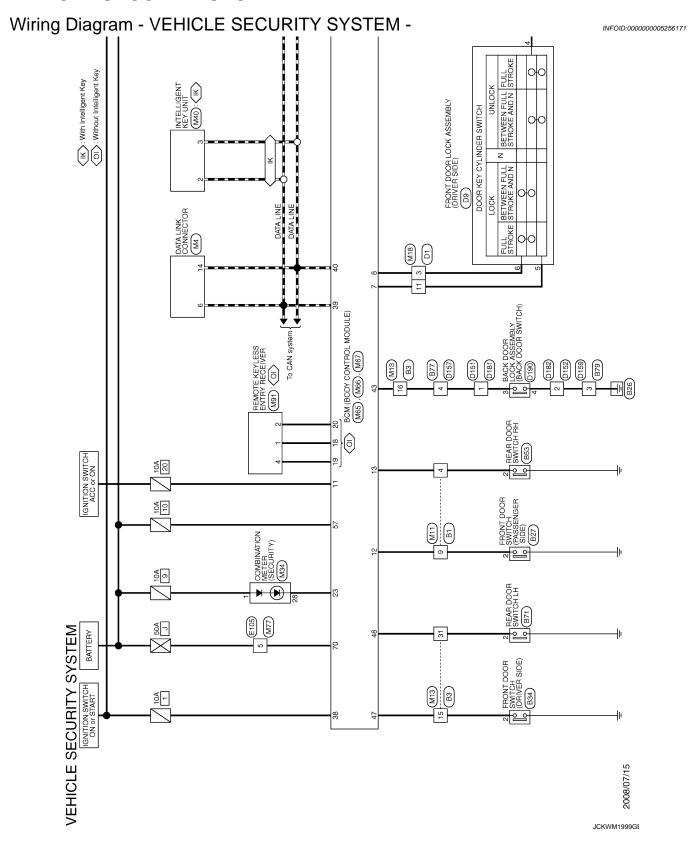
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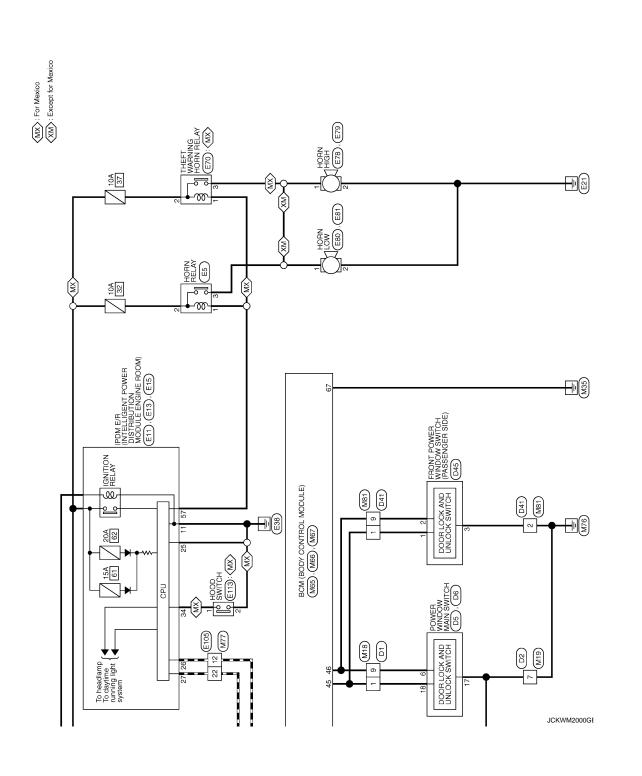
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Connector No B34	9 6	Ø-Noo	real Color Signal Name (Specification)	Connector No. B79	Sonnector Name WIRE TO WIRE	Connector Type M04MW-LC	H.S.	inal Color Signal Name [Specification]	
2	Conne	€	Terminal No. 2	Conne	Conne	Conne		Terminal No.	Ĺ
B27	CE.1 FRONT DOOR SWITCH (PASSENGER SIDE) A03FW		Signal Name [Specification]	B77	WIRE TO WIRE	NSI0MW-CS	1 2 mm 3 4 5 6 7 8 9 10	Signal Name [Specification]	
Connector No	Connector Name	E S.H	Terminal Golor No. of Wire 2 BR	Connector No.	Connector Name	Connector Type	H.S.	Terminal Golor No. of Wire	
Г		1 —— 1		П					ſ
Connector No R3	9 6	H.S. 1 2 3 4 5 6 7 8 9 10 1112 13 14 15 16 17 18 20 20 21 22 23 24 25 26 27 28 29 30 31 32	Terminal Color Signal Name [Specification] Color Color Color Color	Connector No. B71	Connector Name REAR DOOR SWITCH LH	Connector Type A03FW	#3.	Terminal Color Signal Name [Specification] No. of Wire	
VEHICLE SECURITY SYSTEM	e e	1	Terminal Color Signal Name [Specification] A	Connector No. B53	Connector Name REAR DOOR SWITCH RH	Connector Type A03FW	⊗ -∞	Terminal Color Signal Name [Specification]	

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POWER WINDOW MAIN SWITCH INSGREW-CS	Signal Name [Specification]	WIRE	Signal Name [Specification]		АВ
Connector No. D6 Connector Name POWER WINI Connector Type NSI35FW-CS H.S	Terminal Color Sign	Connector No. D151 Connector Name WIRE TO WIRE Connector Type NSOBFBR-CS H.S.	Terminal Color Sig		C
Power vindow main switch I 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 16 16 16 16 17 18 19 10 11 12 13 14 15 16 16 16 16 16 16 16	Signal Name [Specification]	D45 FRONT POWER WINDOW SWITCH (PASSENGER SIDE) NS12FW-CS 1 2 3 4 5 6 7 8 9 10 11 12	Signal Name [Specification]		E
Connector No. DS Connector Name POWER WIN Connector Type NS18FW-CS H.S. 1 2 3 4 8 9 10 11	Terminal Color No. of Wire 6 BR	Connector No. D45 Connector Name (PASSENGE Connector Type NS12PW-C5 H.S. 1 2 6	Terminal Color No. of Wire 1 P P 2 BR 3 B B		G H
D2 NS16PW-CS 7 6 5 4	Signal Name (Specification)	PA1 THIGFW-NH THIGFW-NH TH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name [Specification]		J
Connector No. D2 Connector Name WIRE Connector Type NSIR	Terminal Color No. of Wire 7 B	Connector No. D41 Connector Name WIRE T Connector Type TH16FD H.S.	Terminal Color No. of Wire P P		SEC
/ SYSTEM	Speci:	POP FRONT DOOR LOOK ASSEMBLY (DRIVER SIDE) EGBFGY-RS	Signal Name [Specification]		M
VEHICLE SECURITY SYSTEM Connector No. DI Connector Type THIGFW-NH MR 7 6 6 4 3 2 1 1 16 15 14 13 13 14 10 0	Color Of Wire BR BR	Connector No. D9 Connector Name FRONT DOOR I SIDE) Connector Type E08-GV-RS LIS	Oolor of Wire B B L		N O
VEI	Terminal No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Come	Terminal No. 5 5	JCKWM2002GE	Р

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Connector No. D181 Connector Name WIFE TO WIFE Connector Type NSOBMBR-CS	HS. 12 12 14 5 6 7 8	Terminal Color No. of Wire Signal Name [Specification]	Connector No. E11 Connector Name IPDM E/R (INTELLICENT POWER Connector Type ModeR=LC Connector Type ModeR=LC	H.S. 11 10 9 14 13 12	Terminal Color Nine Signal Name (Specification)
Connector No. D159 Connector Name WIRE TO WIRE Connector Type MO4FW-LC	H.S.	Terminal Color No. of Wire Signal Name (Specification)	Connector No. E5 Connector Name HORN RELAY Connector Type	H.S.	Terminal Golor Signal Name [Specification] No. of Wire Signal Name [Specification] 1 GR -
Connector No. D157 Connector Name WIRE TO WIRE Connector Type NSIOFW-CS	43 12 1 1098765	Terminal Color Signal Name [Specification] No of Wire 4 W	Connector No. D190 Connector Name BACK DOOR LOCK ASSEMBLY Connector Type NSG4PW-CS	4.8. [4.3.2.1]	Terminal Color Signal Name [Specification] No. of Wire No. W -
VEHICLE SECURITY SYSTEM Connector No. D152 Connector Name WIRE TO WIRE Connector Type M02FW-GY-LC	H.S.	Terminal Color No. of Wire Signal Name (Specification) 2 B -	Connector No. D182 Connector Name WIRE TO WIRE Connector Type M02MW-GY-LC	H.S.	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 2 B

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	ation)		ation]		Α
	Signal Name [Specification]	ELIGAWRE TO WRE THEORY CSIG-TMA	Signal Name [Specification]		В
No. E78 Name HORN HIGH Type POIFB-A	Color G		Color of Wire P		С
Corrector Name Corrector Type H.S.	Terminal No.	Connector No. Connector Name Connector Type H.S.	Terminal No.		D
RELAY	pecification]		pecification]		Е
E70 MO3FW-R-LC 2 311	Signal Name [Specification]	POIFB-A	Signal Name [Specification]		F
ector No. ector Name ector Type	Terminal Codor No. of Wire 1 V r 7 3 G G G	ector No. ector Name ector Type	Terminal Coolor No. of Wire 2 B		G
					Н
E15 IPDM E.M. (WITELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) NS16FW-CS 52 51 50 149 48 47 61 60 59 58 57 56 55 54	Signal Name [Specification]		Signal Name [Specification]		I
E15 IPPDM E/R (NYTELL INSIGEW—CS INSIGEW—CS 52 51 50 60 69 58 6	Signal Na	E80 HORN LOW POIFB-A	Signal Na		J
Connector No. E15	Terminal Color No. of Wire 57 V	Connector No. E80 Connector Name HOF Connector Type PUI	No. Oelor No. O		SEC
(MOOK)	- I		2		L
SECURITY SYSTEM E13 PIDNE FR (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) THISPW-NH 28 27 26 25 24 23 24 33 32 31 30 29	Signal Name (Specification)		Signal Name [Specification]		M
		HORN HIGH POIFB-A			Ν
Connector Type Connector Type Connector Type H.S.	Color Colo	Connector Name Connector Type	Terminal Coolor No. of Wire 2 B B		0
	<u> - </u>	0 0 0 W	<u> - </u>	JCKWM2004GE	
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Connector Name WIRE TO WIRE Connector Type THESPW-NH LS [6] 1514 1312 1110 9 7 6 4 3 2 1 [2] 31 30 28 28 27 26 24 28 27 19 18 17 [2] 4	Terminal Color Signal Name [Specification] 15 W -	Connector Name INTELLIGENT KEY UNIT Connector Type TH40FW-NH LLS TELET ELECT	Terminal Color Signal Name [Specification] No. of Wire Specification 2
Connector No. MII Connector Name WIRE TO WIRE Connector Type THEOFW-CSIG-TMA	Terminal Color No. of Wire Signal Name [Specification] 4 LG 9 P	Connector No. M34 Connector Name COMBINATION METER Connector Type SAE40FW T 2 3 4 5 6 7 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 1 LG EAT EAT 28 SECURITY
Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW 9 10 11 12 3 4 5 6 7 8	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 6	Connector No. M/19 Connector Name WiRE TO WIRE Connector Type NS16MW-CS Lip 2 3	Terminal Golor Signal Name [Specification] No. of Wire Signal Name [Specification] 7 B
VEHICLE SECURITY SYSTEM Geomector Name HOOD SWITCH Geomector Type WIZFW	Terminal Golor Signal Name [Specification] No. of Wire W	Connector No. MIB Connector Name WIRE TO WIRE Connector Type THI6MW-NH M.S. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Terminal Color Signal Name [Specification] 1 P - -

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23 64 70 170 170 E		P	7
Me7 Me7 Connector No. Me7 Connector No. Connector Name SCM (BODY CONTROL MODULE) Connector Type FEA09FB-FHA6-SA FEA09F		E	
Connector No. Connector Nane Connector Type H.S. Terminal Color No. of Wire 77 70 Y		Ε)
. MODULE) 748 49 54 55 00R SW 00RSW 00RSW W RR	KEYLESS ENTRY RECEIVER 2 3 4 Signal Name [Spraerination] Signal Name [Spraerination]	Е	Ξ
Mile Connector No. Mile Connector No. Mile ERABFW-FHAB-SA ER	PEMOTE KEYLESS ENTRY RECEIVER TKO4FW Signal Name [Specification] Signal Name [Specification]	F	
Connector No. Connector Name Connector Type H.S. H.S. H.S. A1 43 43 43 43 44 48 BR A8 BR A8 BR A8 BR A8 BR BR BR BR BR BR BR BR BR B	Connector No. Connector Name Connector Type Connector Type H.S. H.S. Terminal Color No. of Wire 1 0 0 2 GR 4 V	G	
	7 8 15 15 15 15 15 15 15 15 15 15 15 15 15	ı	
CAN-L	WIRE TO WIRE THISMW-NH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Signal Name [Specification]		J
φ 0	Connector No. Connector Name Connector Type Connector Type H.S. H.S. Terminal Color No. of Wire 1 0 0 2 B 9 0 0	SE	ΞC
FEM DOULE) Interview of the second of the	Sifeation]	L	_
SECURITY SYSTEM M65 BCM (BODY CONTROL MODULE) TH40FW-NH TH5 [F F E E E E E E E E	WIRE TO WIRE THBOWN-CSIG-TM4 THBOWN-CSIG-TM4 THE	Λ	
Medical Parameter Name BCM M65 Connector Name BCM M65 Connector Type TH41 Color Co	Connector No. M77 Connector Name WIRI Connector Type TT-B Terminal Color No. of Wire 5 5 7 7 22 L 22 L	C	
		JCKWM2006GE	

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGIN OIN SVV	Ignition switch ON	On
KEY ON OW	Mechanical key is removed from key cylinder	Off
KEY ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOD CW 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 OW 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
DACK DOOD CW	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
KEN CALLINI CAN	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW Driver door key cylinder UNLOCK position		On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
RETLESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
LIZEX LINILOGIZ	"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
400 011 0111	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE OW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LICHTOWACT	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BUCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
RETLESS PAINIC	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
DKE LOK IMI OK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
DIVE IVEED LINE IV	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
	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
LIEAD LAMB OW O	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
DACCING CW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
FR FOG SW	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
TURN SIGNAL R	Turn signal switch OFF	Off
TORN SIGNAL K	Turn signal switch RH	On
TURN SIGNAL L	Turn signal switch OFF	Off
TORN SIGNAL L	Turn signal switch LH	On
ENGINE RUN	Engine stopped	Off
LINGINE RON	Engine running	On
PKB SW	Parking brake switch is OFF	Off
I ND OW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
IGN SW CAN	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On
ED WIDED III	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
ED WIDER LOW	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ED WIDED INT	Front wiper switch OFF	Off
FR WIPER INT	Front wiper switch INT	On
ED MACHED OM	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
ED WIDED OTOD	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading
DD WIDED ON	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
DD W//DED INT	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
=.==	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
DDAKE OM	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
FAN ON CIC	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	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
I KEN DW DWW	UNLOCK button of Intelligent Key is not pressed	Off
I-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On
LICEV DANIC	PANIC button of Intelligent Key is not pressed	Off
I-KEY PANIC	PANIC button of Intelligent Key is pressed	On
DUCU CW	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
TONIK ODNID OW	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
	Open the hood	

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

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 REGST FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID 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 REGST KKT	ID of rear RH tire transmitter is not registered	Yet
ID DECCE DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
MARNING LAMP	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

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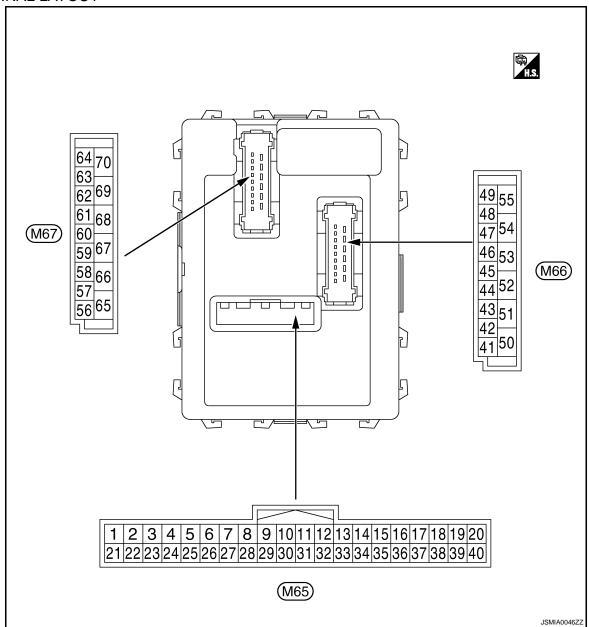
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TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

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

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

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			0 100	Value
+	- COIOI)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF Turn signal switch RH	0 V
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch HI Lighting switch 1ST	(V) 15 10 5 0 +-10ms PKIB4959J 1.0 V
					tent dial 4)	Lighting switch 2ND
					All switch OFF	2.0 V 0 V
					Turn signal switch LH	
					Lighting switch PASS	(V) 15 10
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch 2ND	1.0 V
(-)				tent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 +-10ms
					All switch OFF	0.8 V 0 V
					Front wiper switch LO	
				Combination switch (Wiper intermittent dial 4)	Front wiper switch MIST	(V) 15
4 (W)	Ground	Combination switch INPUT 3	Input		Front wiper switch INT	10 5 0 +-+10ms PKIB4959J 1.0 V

< ECU DIAGNOSIS INFORMATION >

	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 (Wiper intermittent dial 4)	(V) 15 10 5									
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	→ +10ms PKIB4959J									
						Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4955J 0.8 V								
					All switch OFF (Wiper intermittent dial 4)	0 V									
					Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5									
														Wiper intermittent dial 3 (All switch OFF)	→ ←10ms PKIB4959J
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 PKIB4952J 1.7 V									
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10									

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	А
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	A
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	B C
					UNLOCK position	0 V	
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1	E F
						8.0 - 8.5 V	G
					LOCK position OFF (Brake pedal is not	0 V	
9 (R)	Ground	Stop lamp switch	Input	Stop lamp switch	depressed) ON (Brake pedal is depressed)	0 V Battery voltage	Н
10	Cround	Rear window defog-	lmm. it	Rear window	Not pressed	Battery voltage	I
(SB)	Ground	ger switch	Input	defogger switch	Pressed	0 V	
11	Ground	Ignition switch ACC	Input	Ignition switch O	FF	0 V	J
(SB)	Oroana	iginion switch 7100	mpac	Ignition switch A	CC or ON	Battery voltage	
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0586GB	SEC
					ON (When passenger door opened)	7.5 - 8.0 V	M N
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	O P
					ON (When rear door RH opened)	0 V	

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value			
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)			
15 [*] (O)	Ground	Tire pressure warn- ing check switch	Input	Ignition switch OFF		(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1			
18 [*] (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 [*] (V)	Ground	Remote keyless en- try receiver power supply	Input	Input	Input	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 JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.			
20 [*] (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V			
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	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 INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	nal No.	Description	,			Value	А
+	color)	Signal name	Input/ Output		Condition	(Approx.)	\wedge
					ON	0 V	В
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) 15 10 5 0 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	0.0	F
27 (Y)	Ground	A/C switch	Input	Ignition switch	A/C switch OFF	(V) ₁₅ 10 5 0 ++10ms	G
						JPMIA0591GB 1.6 V	Н
					A/C switch ON	0 V	
				Ignition switch O	FF	(1)	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch	Blower fan switch OFF	(V) ₁₅ 10 5 0	J
						JPMIA0592GB 7.0 - 7.5 V	SE
					Blower fan switch ON	0 V	
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage	L
(W)	Giodila	Hazaru Switch	прис	i iazaiu Swittii	ON	0 V	
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage	M
(G)	2.54114	switch		opener switch	Pressed	0 V	IVI

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< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
20		Occupations assistable		O subjective	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 +-10ms PKIB4960J 7.2 V
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Output Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	40
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10
7					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
-					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V)
					Rear wiper switch INT (Wiper intermittent dial 4)	15
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5	0 → +10ms PKIB4958J
					Wiper intermittent dial 6	1.2 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	Λ
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 *** 10ms PKIB4960J 7.2 V	В С
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	Е
					Rear washer switch ON (Wiper intermittent dial 4)	5 0	F
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J	G
35	Capital	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	H
(B)	Ground	OUTPUT 2	Output	(Wiper intermit- tent dial 4)	Lighting switch 2ND	40	
				10.11 0.10. 1,	Lighting switch PASS	10 h h h h h h h h h	SE
					Front wiper switch INT Front wiper switch HI	5 0 → →10ms PKIB4958J 1.2 V	L
36	Ground	Combination switch	Output	Combination switch	All switch OFF	(V) 15	M N
(V)	Ground	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	(V)	Р
				,	Turn signal switch LH Front wiper switch LO	(V) 15 10 5	
					(Front wiper switch MIST) Front washer switch ON	0 → +10ms PKIB4958J 1.2 V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Key switch	Input	Insert mechanicader	al key into ignition key cylin-	Battery voltage
(LG)	Ground	roy switch	прис	Remove mechai cylinder	nical key from ignition key	0 V
38	Ground	Ignition switch ON	Input	Ignition switch C	PFF or ACC	0 V
(G)	Ground	ignition switch Oiv		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) 10 5 0 **10msi JPMIA0593GE 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) 10 5 0 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 *********************************
					UNLOCK position	0 V

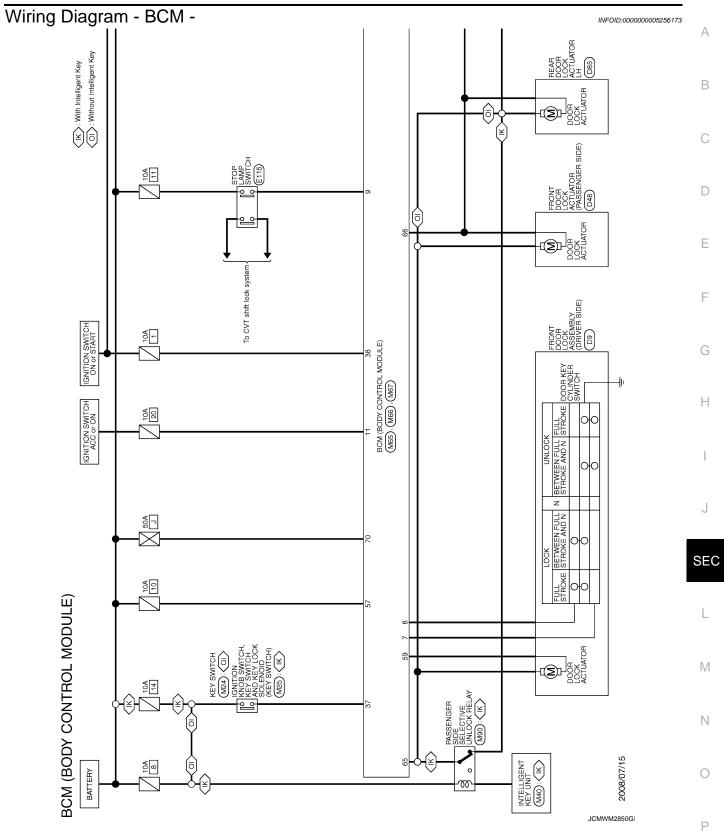
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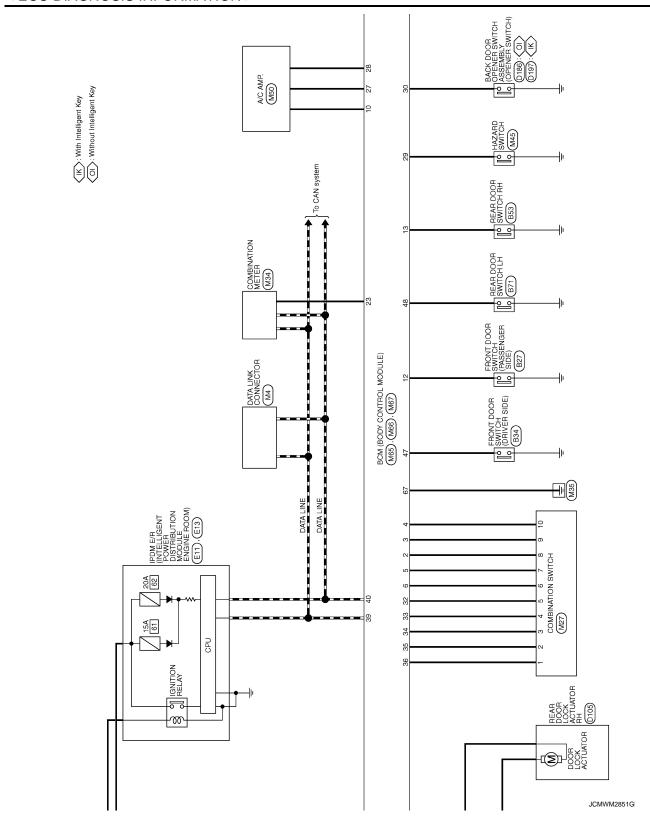
	nal No.	Description				Value	А						
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А						
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	С						
					ON (When driver door opened)	0 V	Е						
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0594GB 8.5 - 9.0 V	F G						
						ON (When rear door LH opened)	0 V	Н					
49	Ground	Back door lamp con-	Output	Back door lamp	Back door is closed (Back door lamp turns OFF)	Battery voltage	I						
(L)	Ground	trol	position		,	o a.p a.	Guiput	o a.p.a.			Back door is opened (Back door lamp turns ON)	0 V	J
53	Ground	Back door open	Output	Back door	Not pressed (Back door actuator is activated)	0 V	SEC						
(V)	Giodila	Back door open	Output	opener switch	Pressed (Back door actuator is activated)	Battery voltage	L						
55	Ground	Rear wiper motor	Output	Ignition switch	Rear wiper switch OFF	0 V							
(SB)	2.303	,		ON	Rear wiper switch ON	Battery voltage	M						
56		Interior room lamp		After passing the saver operation t	interior room lamp battery ime	0 V							
(Y)	Ground	power supply	Output –	-	ter passing the interior room	Battery voltage	N						
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	0						
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage							
(L)	Giodila	LOCK	Odiput	Dilver door	Other then UNLOCK (Actuator is not activated)	0 V	Р						

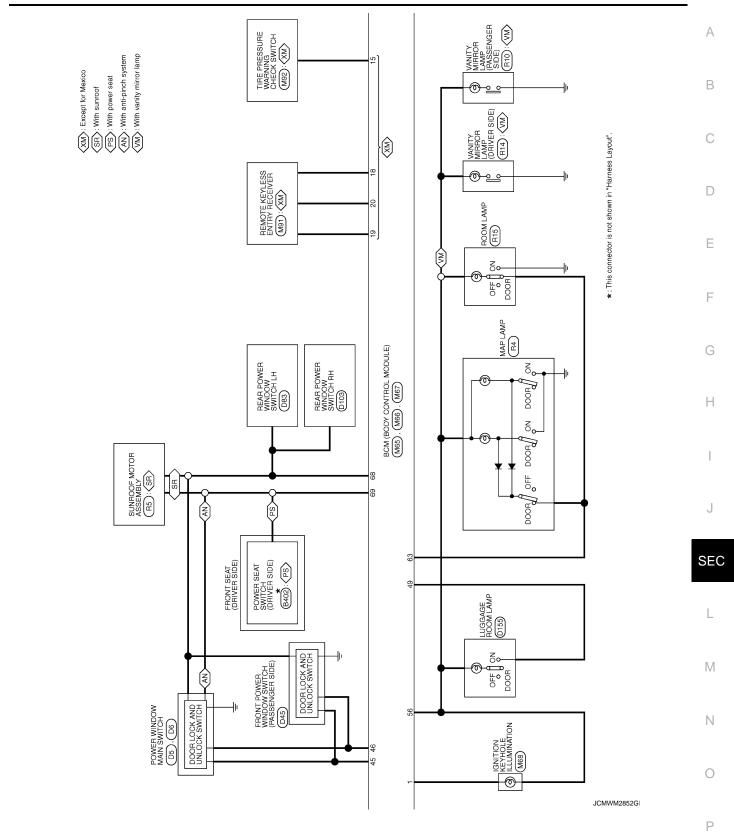
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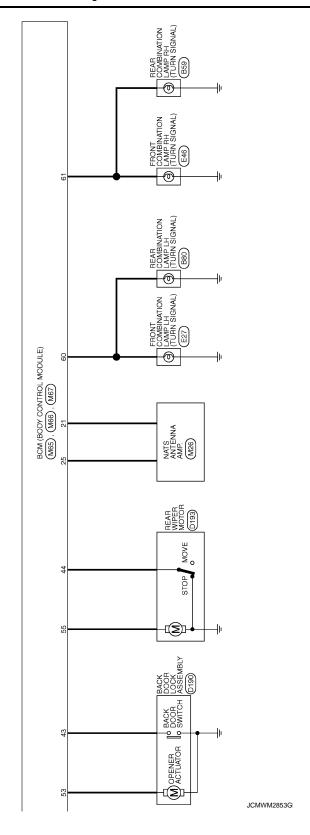
	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s 1s PKIC6370E 6.0 V
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output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

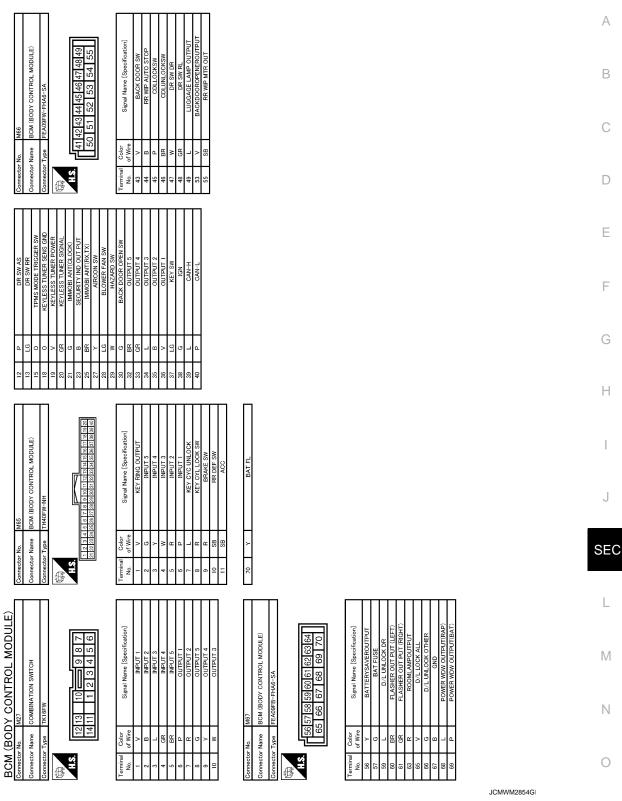
^{*:} Except for Mexico











Fail-safe

REAR WIPER MOTOR PROTECTION

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

Condition of cancellation

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

- Pass more than 1 minute after the rear wiper stop.
- 2. Turn the 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:0000000005256175

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA 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 C1727: [BATT VOLT LOW] RR

DTC Index

NOTE:

Details of time display

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

CONSULT display	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-34

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Tire pressure monitor warning lamp ON	Reference	А
C1704: LOW PRESSURE FL	×		
C1705: LOW PRESSURE FR	×	WT 45	В
C1706: LOW PRESSURE RR	×	<u>WT-15</u>	D
C1707: LOW PRESSURE RL	×		
C1708: [NO DATA] FL	×		С
C1709: [NO DATA] FR	×	WT-17	
C1710: [NO DATA] RR	×	<u>vv 1-17</u>	
C1711: [NO DATA] RL	×		D
C1716: [PRESS DATA ERR] FL	×		_
C1717: [PRESS DATA ERR] FR	×	WT-20	Е
C1718: [PRESS DATA ERR] RR	×	<u>vv 1-20</u>	
C1719: [PRESS DATA ERR] RL	×		
C1729: VHCL SPEED SIG ERR	×	<u>WT-22</u>	F
C1735: IGN CIRCUIT OPEN	_	BCS-35	_

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INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item		Value/Status				
PUSH SW	Ignition knob	Release	OFF			
OSITOW	Ignition knob	Press	ON			
KEY SW	Mechanical key	Removed	OFF			
	Wechanical key	Inserted	ON			
DR REQ SW	Door request switch	Release	OFF			
	(driver)	Press	ON			
AS REQ SW	Door request switch	Release	OFF			
AS NEW SW	(passenger)	Press	ON			
BD/TR REQ SW	Door request switch	Release	OFF			
SD/TR REQ SW	(back door)	Press	ON			
ICN CW	Ignition switch	Other than ON position	OFF			
IGN SW	ignition switch	ON position	ON			
ACC SW	Ignition switch	Other than ACC or ON position	OFF			
	Ignition switch	ACC or ON position	ON			
STOP LAMP SW	Brake pedal	Press	OFF			
	Diake pedal	Release	ON			
D DANGE SW	Shift position	P position	ON			
P RANGE SW	Shiit bosition	Other than P position	OFF			
BD OPEN SW	The item is indicated, but not monitored.					
R CANCEL SW	The item is indicated, but not monitored.					
DOOR LOCK SIC	Lock button of	Release	OFF			
OOOR LOCK SIG	Intelligent Key	Press	ON			
DOOD LINE OOK OLO	Unlock button of	Release	OFF			
DOOR UNLOCK SIG	Intelligent Key	Press	ON			
KEYLESS TRUNK		The item is indicated, but not me				
KEYLESS PANIC	PANIC button of key	Release	OFF			
AL I LEGO PAINIU	fob	Press	ON			
KEYLESS PSD LH		The item is indicated, but not mo	onitored.			
KEYLESS PSD RH		The item is indicated, but not monitored				
KEYLESS PBD SIG		The item is indicated, but not mo	onitored.			
DOOR SW DR	Door (driver side)	Close	OFF			
JOOK SW DK	Door (arriver side)	Open	ON			
OOOR SW AS	Door (passanger side)	Close	OFF			
DOOR SW AS	Door (passenger side)	Open	ON			
	Door (rear RH)	Close	OFF			
DOOR SW RR	Door (real KD)	Open	ON			
DOOD OW DI	Door (roor L H)	Close	OFF			
DOOR SW RL	Door (rear LH)	Open	ON			

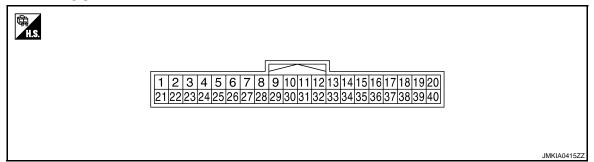
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

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

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Description				Value IV/I	
+ (wire	e color)	Signal name	Input/ Output	Condition		Value [V] (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	5 Ground Front door request switch Input (driver side)		_	Front door re-	ON (Pressed)	0	
		Input	Input quest switch (driver side)	OFF (Released)	5		
6	6 Ground Ignitio	Ignition switch power	Input	Ignition switch	OFF or ACC	0	
(W)	Ground	supply	Input	ignition switch	ON or START	Battery voltage	
7	7 0 .	ound Key switch	lanut	When ignition key is inserted into ignition key cylinder		Battery voltage	
(LG)	Ground		Input	When ignition key is not inserted into ignition key cylinder		0	
10	10	Transmission range switch	lanut	Shift lever in park position		0	
(SB)	Ground		IIIput	Other than above		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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INTELLIGENT KEY UNIT

	ninal No.	Description		Condition		Value [V] (Approx.)	
+ (WIF	e color)	Signal name	Input/ Output				
13 (Y) G	Ground	Inside key antenna (+) (rear seat) Outp	0.4.4	tput Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0393ZZ	
	Sidana		оч.рч.		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0391ZZ	
14 (BR) Ground	Ground	Ground Inside key antenna (-) (rear seat)	Output	Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0392ZZ	
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0390ZZ	
15 (R)		Inside key antenna (+) (console)	Outside	tput Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0393ZZ	
			Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 MH	

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	ninal No.	Description				Value [V]	
	re color)	Signal name	Input/ Output		Condition	(Approx.)	А
16		Incide key entenne		Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0	B C D
(G)	Ground	Inside key antenna (-) (console)	Output	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0390ZZ	E F
17	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	G H
(W)	Ground	(+) (rear bumper)	Culpui	quest switch is operated with ignition switch OFF When Intellige is not in the a	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0	SEC
18	Ground	Outside key antenna	Quitout	When the back door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0395ZZ	M
(R)	Ground	(-) (rear bumper)	Ground Outside key antenna (-) (rear bumper) Output back doo quest swi is operate with igniti	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0515ZZ	P

[WITH INTELLIGENT KEY SYSTEM]

	ninal No.	Description				Value [V]
	e color)	Signal name	Input/ Output	(Condition	(Approx.)
19		Outside key antenna		When the front door request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0397ZZ
(BR)	Ground	(+) (driver side)	Output	(driver side) is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0514ZZ
20	Ground	Outside key antenna	Output	When the front door request switch (driver side) is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0395ZZ
(O)	Gloana	(-) (driver side)	Gupu	(driver side) is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0616ZZ
25		Front door request		Front door request switch	ON (Pressed)	0
(BR)	Ground	switch (passenger side)	Input	(passenger side)	OFF (Released)	5
26 (B)	Ground	Stop lamp switch	Input	Depress the br	-	Battery voltage 0
27 (G)	Ground	Ignition knob switch	Input	Ignition switch	When ignition knob switch is pressed	Battery voltage
(G)				OI I	When ignition knob switch is released	0
28 (W)	Ground	Unlock sensor	Input	Lock (ON)		5
29		Back door request		Unlock (OFF) Back door re-	ON (Pressed)	0
(SP)	Ground	switch	Input	quest switch	OFF (Released)	5
31 (L)	Ground	Steering lock unit ground	_	_	_	0

< ECU DIAGNOSIS INFORMATION >

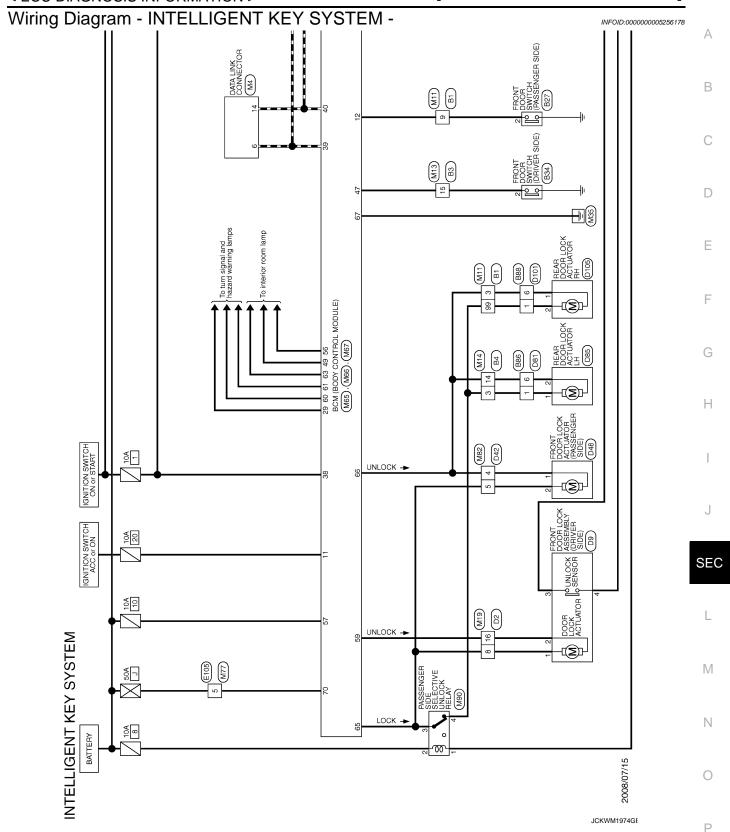
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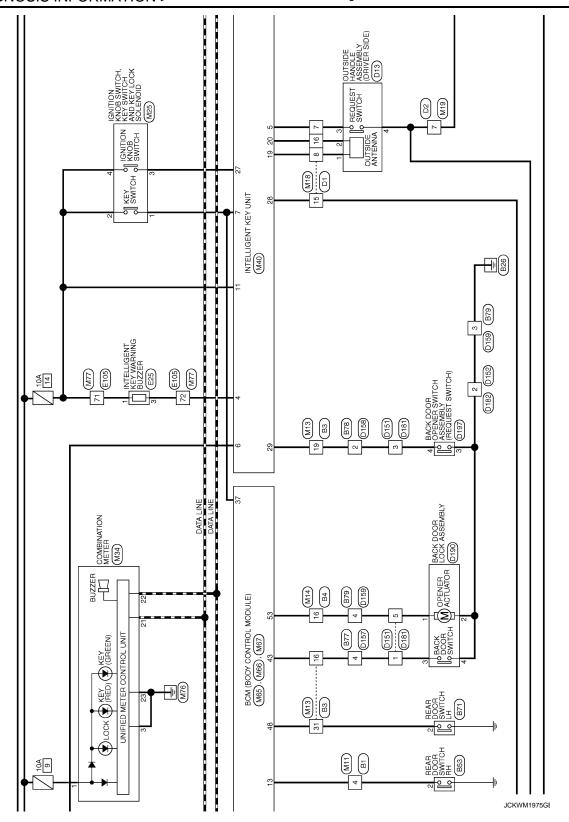
	ninal No.	Description				Value [V]				
(wir	re color)	Signal name	Input/ Output	1	Condition	(Approx.)				
32 (P)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status LOCK or UNLOCK	5 (V) 6 4 2 0 100 ms JMKIA0433ZZ				
33	Ground	Inside key antenna	Outout	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0393ZZ				
(L)	Ground	(+) (instrument center)	Output	Output	Output	Сара		is pressed.	When Intelligent Key is not in the antenna detection area When Intelligent Key	(V) 15 10 5 0 1
34	Ground	Inside key antenna (-)	Output	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 10 11 1				
(P)	Ground	(instrument center)	Output	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0390ZZ				

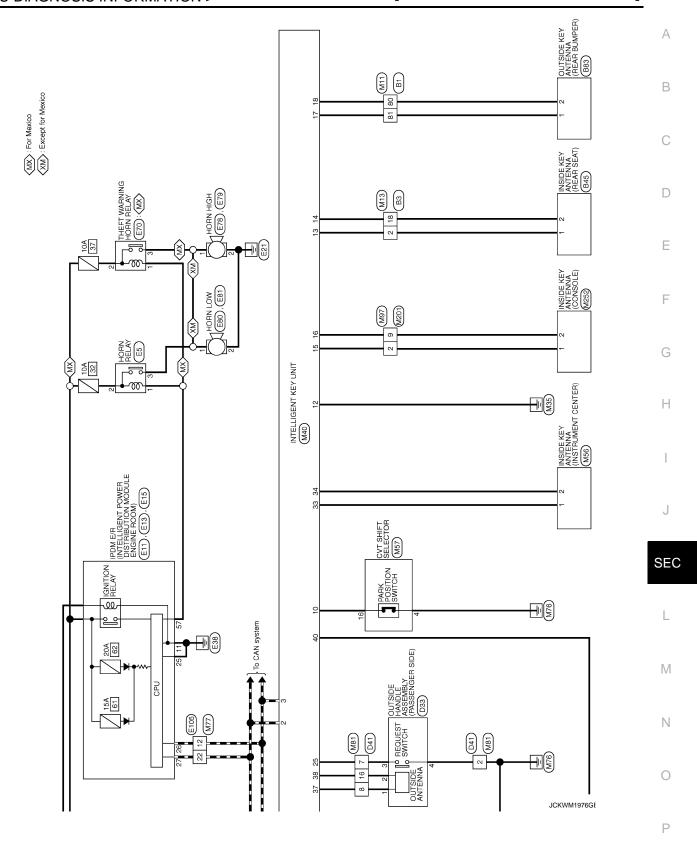
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[WITH INTELLIGENT KEY SYSTEM]

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







INTELLIGENT KEY SYSTEM	SYSTEM	N retound	ca ca		My	И	ON restorator	768	_
9		Connector Name		WIRE TO WIRE	Connector Name		Connector Name		_
Connector Type TH80MW-CS16-TM4	ТМ4	Connector Type	Type TH32MW-NH	N-NH	Connector Type	NS16MW-CS	Connector Type	A03FW	_
	8 5 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	H	1 2 3 4 5 6 7 8 9 10 17 18 19 20 21 22 23 24 25 28	5 7 8 9 10 11 12 13 14 15 16 2 23 24 25 26 27 28 29 30 31 32	HS	1 2 3 	H.S.		
10 00 00 00 00 00 00 00 00 00 00 00 00 0	8							[3]	
Terminal Golor Signal N. No. of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color No. of Wire	or Signal Name [Specification]	_
3 G	-	2	g	1	3	-	2 BR		_
7 8	1 1	15	ه ۵	1 1	41 a	1 1			
ž a		0 00	: 0	1	┨				
╀		61	SB	1					
^ 66	1	31	GR	1					
Connector No. B34		Connector No.	No. B45		Connector No.	B53	Connector No.	B71	_
Connector Name FRONT DOOR SM	FRONT DOOR SWITCH (DRIVER SIDE)	Connector Name		INSIDE KEY ANTENNA (REAR SEAT)	Connector Name	REAR DOOR SWITCH RH	Connector Name	e REAR DOOR SWITCH LH	
Connector Type A03FW		Connector Type	Type RK02FG	3Y	Connector Type	A03FW	Connector Type	A03FW	_
H.S.		₽ H.S.			母 H.S.		子 H.S.		
3)		ല		ဧ	
Terminal Color Signal N. No. of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color No. of Wire	r Signal Name [Specification]	Terminal Color No. of Wire	or Signal Name [Specification]	
2 Р	1	-	g	1	2 L	-	2 GR		_
		•	-	_					

JCKWM1977GE

[WITH INTELLIGENT KEY SYSTEM]

R BUMPER)	tion]		[ton]		А
B83 OUTSIDE KEY ANTENNA (REAR BUMPER) RROZFGY	Signal Name (Specification)	1 1 0 0 1 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1	Signal Name [Specification]		В
<u> </u>	Color of Wire R	No. D2 Name WIRE TO WIRE Type NS16FW-CS 7 6 5 4 6 7 6 15 14 13 12	Color of Wire BR		С
Connector No.	Terminal No.	Connector No. Connector Name Connector Type H.3.	Terminal No. 7 7 8 8 16 16		D
	(effeation)		reffeation)		Е
B79 WIRE TO WIRE M04MW-LC 1 2 3 4	Signal Name (Specification)	MRE TO WIRE THISPW-NH 8 7 6 5 4 3 2 16 15 11 10 11 10	Signal Name [Specification]		F
or No.	of Wire B B	r No.	al Color G W We O G G G		G
Connects Connects Connects H.S.	Torminal No. 3 3 4 4	Connectt Connectt Connectt H.S.	Terminal No. 7 7 8 8 8 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16		Н
40	Signal Name [Specification]	411	Signal Name [Specification]		I
3MW-NH 5 5 5 5 7 5 5 6 7 7 5 6 7 7	Signal Nam	NSI2MW-CS 1 2 3 4 4 6 7 8 9 10 11	Signal Name		J
ector No. ector Name ector Type	Terminal Color No. of Wire 2 SB	nector No.	Terminal Color No. of Wire of Wire 6 G G		SEC
Conn	<u>E</u>		<u>E</u>		L
STEM	Signal Name (Specification)	4 5 5 11 12 12 12 12 12 12 12 12 12 12 12 12	Signal Name (Specification)		M
NTTELLIGENT KEY SYSTEM Connector No. 877	Signal Na	B86 WIRE TO WIRE NS12MW-CS 1 2 3 6 7 8 9 11	Signal Na		Ν
INTELLIGE Connector No. Connector Type Connector Type H.S.	Color No. 4 Wire	Connector No. Connector Type	Color No. of Wire No. of Wire O O O O O O O O O		0
				JCKWM1978GE	Р

Revision: 2009 October SEC-117 2010 Rogue

Connector No. D41 Connector No. D41 Connector Type TH16FW-18H	Terminal Color Signal Name [Specification]	Connector No. D85 Connector Name REAR DOOR LOOK ACTUATOR LH Connector Type E08FGY-RS H.S. (1 2 3 4 5 6)	Terminal Color Signal Name (Specification)
Connector No. D33	Color Signal Name [Specification] Color Color	Connector No. D81 Connector Name WIRE TO WIRE Connector Type NS12FW-CS H.S. 5 4 3 2 1 12 11 10 9 8 7 6	Terminal Color Signal Name [Specification] No. of Wire Vir. Vir.
Connector No. D13 Connector Name SIDE) Connector Type RH04MB H.S. H.S.	Terminal Color Signal Name [Specification]	Connector No. D48 Connector Name (PRONT DOOR LOCK ACTUATOR Connector Type ED6FGY-RS H.S. Connector Type (654)211	Terminal Color Signal Name [Specification] No. Of Wife Signal Name [Specification] 2
INTELLIGENT KEY SYSTEM Gomester Name 1890 Connector Name 180E Connector Type E10FG/FRS KM KM KM KM KM KM KM KM KM K	Terminal Color Signal Name [Specification]	Connector No. D42 Connector Name WIRE TO WIRE Connector Type NS10FW-CS M.S. 4 3 2 1 10 9 8 7 6 5	Terminal Color Signal Name [Specification] A Y -

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	ification]		ification]		Α
D152 WIRE TO WIRE MOZFW-GY-LC	Signal Name [Specification]	DISI WRE TO WIRE NSGWBR-CS 1 2 6 7 8	Signal Name [Specification]		В
Connector No. D152 Connector Name WRE Connector Type M02F	Terminal Color No. of Wire 2 B E	Connector No. D181 Connector Type NS0E	Color Color No. 10 Color No. 10 Color No. 10 No. 10 Color Color		D
	ification]		ification]		Е
DISI WIRE TO WIRE NSOBFBR-CS 3 2 1 8 7 6 5 4	Signal Name (Specification)	UIS9 WIRE TO WIRE MOMFIVILC 2 1 4 3	Signal Name [Specification]		F
Connector No. 0151 Connector Name WIRE Connector Type NSD8	Color Colo	Connector No. D159 Connector Name WIRE Connector Type MO4F	Color Color No. of Wire A A A		G
			$\overline{\square}$		Н
EDBEGY-RS EDBEGY-RS EDBEGY-RS EDBEGY-RS	Signal Name [Specification] -	л н н н н н н н н н н н н н н н н н н н	Signal Name [Specification]		J
	Color of Wire	D0158 one WIRE TO WIRE THOSENY-NH 4 3 8 7	Odlor SB SB		
Connector No. Connector Name Connector Type	Terminal Construction of Const	Connector No. Connector Type	Terminal O of 2		SEC
	oation]		cation.]		L
/ SYSTEM	Signal Name [Specification]	S S S S S S S S S S S S S S S S S S S	Signal Name [Specification]		M
Connector Name WIRE TO WIRE Connector Type WISTERW-CS Connector Type Connecto	1000 N To 1000 N	NS10FW-C: 10 9 10 9			Ν
INTELLIGI Connector Name Connector Type	Terminal Col	Connector No. Connector Type	Terminal Color No. of Wire 4 W		0
				JCKWM1980GE	Р

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Connector No. E5 Connector Name HORN RELAY Connector Type	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] CR 2 P - -	Connector No. E25 Connector Name INTELLIGENT KEY WARNING BUZZER Connector Type RKKÜFER #\$ 1 2 3	Terminal Color Signal Name [Specification] No. of Wire O - -
Connector No. D197 Connector Name (WITH INTELLICENT KEY) Connector Type THOMMY-NH LS. 1234	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 4 SB	Connector Name F15 PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Type NS16FW-CS S16FM-CS S16FM	Terminal Color Signal Name [Specification] No. of Wire 57 V
Connector No. D190 Connector Name BACK DOOR LOOK ASSEMBLY Connector Type NISOHFW-CS H.S.	Terminal Color Signal Name [Specification] No. of Wire V V C C C C C C C C	Connector No. E13 Connector Name prop. E.R. (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Type TH127W-NH H.S. 28 27 26 25 24 23 34 33 32 29 34 33 32 29	Terminal Color Signal Name [Specification] 25 B - 26 P - 27 L - 27
INTELLIGENT KEY SYSTEM Commercor No. 0162 Commercor Name WIRE TO WIRE Commercor Type MOZHWY-GY-LC	Terminal Color No. of Wire Signal Name [Specification]	Connector No. EII Connector Name IPDM E.R. (INTELLIGENT POWER DISTRIBUTION MODUL E ENGINE ROOM) Connector Type MOFFB-LC MOFFB-LC 11 10 9 14 13 12	Terminal Color Signal Name [Specification] No. of Wire B

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[WITH INTELLIGENT KEY SYSTEM]

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E80 HORN LOW POIFE-A	Signal Name (Specification)	MIT WITE TO WRE THEOPY-CSIG-TM4 Market To Wre the theory of the theor		В
Connector No. Connector Name Connector Type H.S.	Terminal Color No. of Wire 1 G	Connector Name Connector Name Connector Name Connector Type Color No. of Wire St. Color Co		D
	sification]	affication]		Е
A A A	Signal Name (Specification)	M4 Data LINK CONNECTOR BD16FW 1 2 3 4 5 6 7 8 Signal Name [Specification]		F
Connector No. E79 Connector Name HORN HIGH Connector Type POIFE-A H.S.	Terminal Golor No. 6 Wire 2 B	tor Name tor Name tor Name tor Name for Wire of Wire		G
Com	Tem N N N N N N N N N N N N N N N N N N N	Connec Connec Connec No. 0 6		Н
	Signal Name [Specification]	YV-CS16-TM4 YV-CS16-TM4 Signal Name (Specification)		J
E78 HORN HIGH P01FB-A		M M M M M M M M M M M M M M M M M M M		
Connector No. Connector Name Connector Type H.S.	Terminal Color No. 1 GWITE	Connector No. Connector Name Connector Type Terminal Color No. of Wire 5 7 7 12 P 71 0 71 0 72 L 71 0		SEC
				L
INTELLIGENT KEY SYSTEM Commetten No. E70 Commetten Name THEIT WARNING HORN RELAY Commetter Type MOSPW-R-LC ALS.	Signal Name (Specification)	W(Signal Name [Specification]		M
ENT KEY E70 THEFT WARNI MOSFW-R-LC		HORN LC		Ν
INTELLIGI Connector No. Connector Name Connector Type	Color	Connector Name Connector Type Connec		0
Community Commun	Terminal No. 2 2 3 3 3	Connecto Connecto Terminal No.	JCKWM1982GE	
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INTELLIGENT KEY SYSTEM Connector Name WIRE TO WIRE Connector Type THZEN-NH THSEN-NH THSEN-	Connector No. M14 Connector Name WIRE TO WIRE Connector Type NS16FW-CS	Connector No. M18 Connector Name WIRE TO WIRE Connector Type THI BMW-NH M.S. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Connector No. M19 Connector Name WRE TO WRE Connector Type NS16MW-CS 1 2 3	
Terminal Color Signal Name [Specification]	Terminal Golor Signal Name [Specification] 3 V	Terminal Color Signal Nane [Specification]	Terminal Color Signal Nane [Specification] 7 8 4 - 16 L - -	
Connector No MOE	Connector No M94	Connector No MAO	15 DOMOOI E (+)	
	┰	Т	د ن	
Connector Name AND KEY LOCK SOLENOID	Connector Name COMBINATION METER	Connector Name INTELLIGENT KEY UNIT	M	
Connector Type TK06MGY	Connector Type SAB40FW	Connector Type TH40FW-NH	œ	
ą	đ)	d)	BR	
(本行)	件切	MHI	0	
[[H.S.	HS.	BR &	
0 0 0	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	6 7 8 9 10 11 12 13 14 15 16 17 18	28 W DRIOCK STATE SW	
0 †	30 30	22	SB	
			7	
			34 P INSTRUMENT (-)	
Terminal Color Signal Name [Specification]	lal	la l	>	
	e,	No. of Wire	Р	
+	1 LG BAT	2 L CAN-H	40 V AS ANTI HIJACK	
2 5 5 6		⊾ 0		
H	Ь	REQ		
	Н	6 W IGN SW		
		Pl		
		SB P RAN		
		12 B GND		
		۰ >		
		14 BR REAR SEAT (-)		

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[WITH INTELLIGENT KEY SYSTEM]

Connector No. M66 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEA09FW-FHA6-SA H.S. 4142 43 44 45 468 47 48 49 E.O. 51 52 53 54 55	Terminal Color Signal Name [Specification] Color 43 V BACK DOOR SW 43 V DR SW BR 49 L LUGGARE LAMP OLITPUT 53 V BACKDOOROPENEROUTPUT	Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Type NS: IOMW-CS Terminal Color Signal Name [Specification] NS O Wire Signal Name [Specification]	A B C
Connector No. M65 Connector Name BCM (BODY CONIROL MODULE) Connector Type TH40FW-NH TAS TAS A S S S S S S S S S S S S S S S S S	Terminal Color Signal Name [Specification] 11 SB ACC 12 P DR SW AS 13 LG DR SW RR 29 W HAZABO SW 37 LG KEY SW 39 G CAN-H 40 P CAN-L	Connector No. M81 Connector Name WIRE TO WIRE Connector Type THI 6MV-NH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 88	E F G
Connector No. MS7 Connector Name CVT SHIFT SELECTOR Connector Type THIBFW-NN H.S. R.	Terminal Color Signal Name [Specification] A B - -	Connector Name WIRE TO WIRE Connector Type TH80MW-CS16-TM4 H.S. Therminal Color Signal Name (Specification) Terminal Color Signal Name (Specification) To Y	J SEC
INTELLIGENT KEY SYSTEM Connector No. Missipe Key Antenna (INSTRUMENT Connector Name INSIDE KEY ANTENNA (INSTRUMENT CONNECTOR Type INCOPFOY TH.S.	Terminal Color No. of Wire Signal Name [Specification]	Connector No M67	M N O

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IN	ELLIGE	NTELLIGENT KEY SYSTEM										
Connec	Connector No.	М90	Connector No.	П	M97	Connector No.	П	M201	Conn	Connector No.	M252	П
Connec	Connector Name	PASSENGER SIDE SELECTIVE UNLOCK RELAY	Connector	Name W.	Connector Name WIRE TO WIRE	Connecto	vr Name	Connector Name WIRE TO WIRE	Conn	ector Name	Connector Name INSIDE KEY ANTENNA (CONSOLE)	
Connec	Connector Type	MS03FB-M2-LC	Connector Type		NS16FW-CS	Connecto	r Type	Connector Type NS16MW-CS	Conn	Connector Type	RK02FGY	П
€ SE	, i	2 4 5 1	H.S.	7 6 16 1	6 5 4 3 2 1 15 14 13 12 11 10 9 8	H.S.	- ω	2 3 4 5 6 7 9 10 11 12 13 14 15 16	₽ ·	H.S.		
Terminal No.	nal Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Termin No.	Terminal Color No. of Wire	Signal Name [Specification]	
-	>	1	2	œ	1	2	œ	1	<u> </u>	œ	1	Г
2	ΓC	-	6	5	1	6	9	-	2	9	-	
3	^											ı
4	œ	1										

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< ECU DIAGNOSIS INFORMATION >

Fail Safe

[WITH INTELLIGENT KEY SYSTEM]

Display contents of CONSULT-III Fail-safe Cancellation B2013: STRG COMM 1 · Inhibits steering look unlocking **Erase DTC** · Inhibits steering look unlocking · Inhibits engine cranking **B2552: INTELLIGENT KEY Erase DTC** (BCM) Fuel cut (ECM) · Inhibits steering look unlocking

Erase DTC

DTC Inspection Priority Chart

B2590: NATS MALFUNCTION

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INFOID:0000000005256179

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

· Inhibits engine cranking

(BCM) Fuel cut (ECM)

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

DTC Index INFOID:0000000005256181

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.

CONSULT display	Detection condition	Fail-safe	Diagnosis
No DTC is detected. further testing may be required.	_	-	_
U1000: CAN COMM CIRCUIT	Intelligent Key unit cannot receive CAN communication signal continuously for 2 seconds or more	_	Check CAN communication system. Refer to LAN-29
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 <u>SEC-44</u>

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< ECU DIAGNOSIS INFORMATION >

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

Reference Value INFOID:0000000005256182

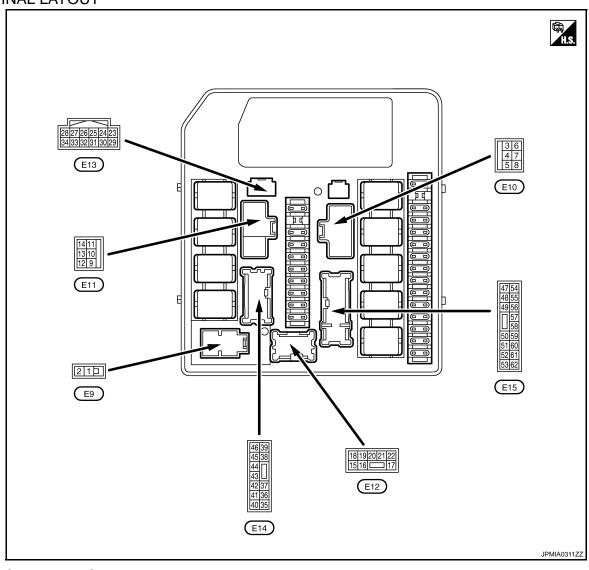
VALUES ON THE DIAGNOSIS TOOL

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

< ECU DIAGNOSIS INFORMATION >

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

TERMINAL LAYOUT



PHYSICAL VALUES

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

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< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output	(Condition	(Approx.)
3	Crawad	Charter relevance according	Outnut	When engine is clar	ıking	Battery voltage
(O)	Ground	Starter relay power supply	Output	When engine is not	clanking	0 V
4	0	Cooling fan relay-1 power	0	Cooling fan opera-	OFF	0 V
(W)	Ground	supply	Output	tion	MID or HI	Battery voltage
5	Cround	Ignition quitab START	Innut	Ignition switch OFF,	ACC or ON	0 V
(R)	Ground	Ignition switch START	Input	Ignition switch STAF	RT	Battery voltage
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7	Ground	Cooling fan motor-2 (HI)		Cooling fan opera-	OFF	Battery voltage
(P)	Giodila	ground	_	tion	HI	0 V
8	Ground	Cooling fan relay-2 power	Output	Cooling fan opera-	OFF	0 V
(G)	Giodila	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 ^{*1}	Cround	Daytime running light relay	Output	Daytime running	Not operated	Battery voltage
(SB)	Ground	control	Output	light system	Operated	0 V
16 ^{*2}	Ground	Front fog lamp (LH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(Y)	Giodila	Tront log lamp (Em)	Output	2ND	Front fog lamp switch ON	Battery voltage
17 ^{*2}	Ground	Front fog lamp (RH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(W)	Ground	Tront log lamp (Kiri)	Output	2ND	Front fog lamp switch ON	Battery voltage
18	Ground	Headlamp LO (LH)	Output	Lighting switch OFF		0 V
(L)	Ground	rioddiamp 20 (2m)	Catpat	Lighting switch 2ND		Battery voltage
20	Ground	Headlamp LO (RH)	Output	Lighting switch OFF		0 V
(SB)	0.000			Lighting switch 2ND		Battery voltage
				Lighting switch OFF		0 V
21 (G)	Ground	Headlamp HI (LH)	Output	Lighting switch 2NLighting switch PA		Battery voltage
				Daytime running ligh	nt system Operated*1	7.0 V
				Lighting switch OFF		0 V
22 (LG)	Ground	Headlamp HI (RH)	Output	Lighting switch 2ND and HI Lighting switch PASS		Battery voltage
				Daytime running light system Operated*1		7.0 V
23		0.1			Engine stopped	0 V
(W)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine running	Battery voltage
0.4					Front wiper stop position	0 V
24 (Y)	Ground	Front wiper auto stop	Input	Ignition switch ON	Any position other than front wiper stop position	Battery voltage
25 (B)	Ground	Ground	_	Ignition switch ON		0 V
26 (P)	_	CAN-L	Input/ Output		_	_

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< ECU DIAGNOSIS INFORMATION >

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

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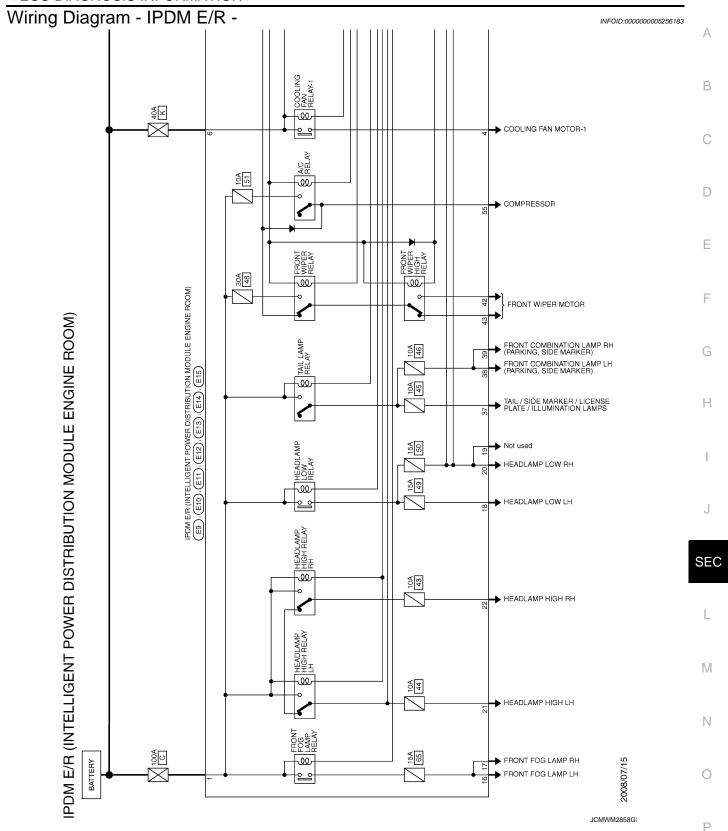
	nal No.	Description				Value		
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)		
50	Cravad	Cooling for roles E control	Output	Cooling fan opera-	OFF	Battery voltage		
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V		
51					kimately 4 seconds or more tion switch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

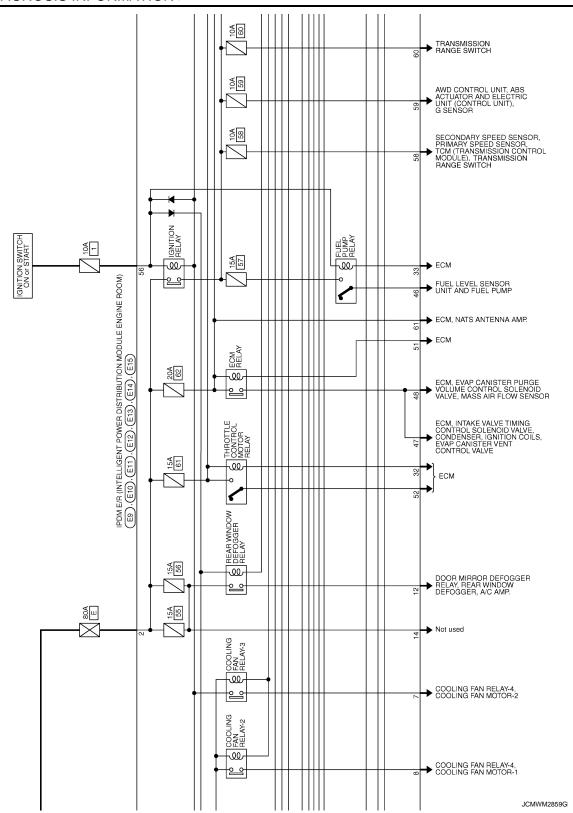
^{*1:} With daytime running light system

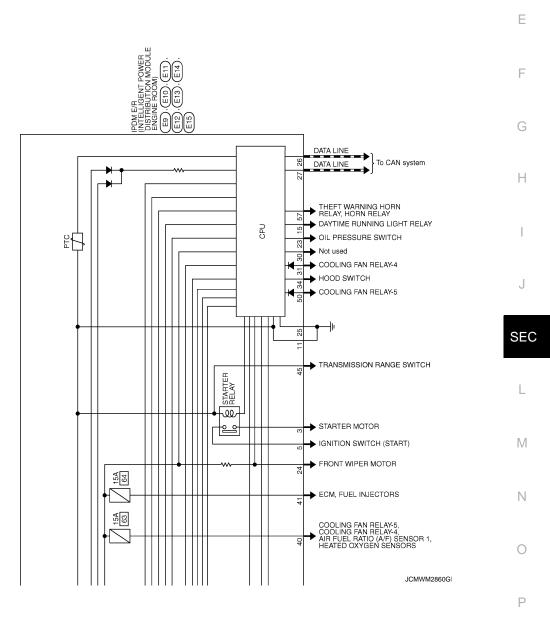
^{*2:} With front fog lamp system

^{*3:} For Mexico

< ECU DIAGNOSIS INFORMATION >







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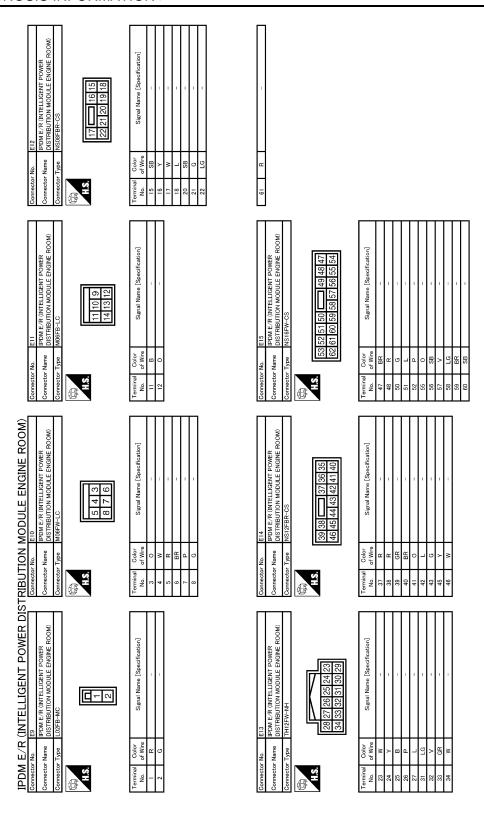
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< ECU DIAGNOSIS INFORMATION >



JCMWM2861G

Fail-safe

INFOID:0000000005256184

CAN COMMUNICATION CONTROL

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

If no CAN communication is available with ECM

< ECU DIAGNOSIS INFORMATION >

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

If no CAN communication is available with BCM

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

NOTE:

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

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

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

NOTE:

FRONT WIPER CONTROL

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

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

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^{*:} With daytime running light system

^{*:} With daytime running light system

< ECU DIAGNOSIS INFORMATION >

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

NOTE:

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

DTC Index INFOID:0000000005256185

CONSULT display	Fail-safe	Timing ^{NOTE}		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.

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
1 KEY ENG	INTELLIGENT KEY SYSTEM/ ENGINE START	Ignition switch turn ON	Ignition switch does not turn ON	KEY warning lamp (GREEN) illuminates	SEC-138
				KEY warning lamp does not illuminate	SEC-138
	FUNCTION			KEY warning lamp (RED) il- luminates	SEC-139
		Engine start	Engine can not start	_	SEC-140
VEHICLE 2 SECURITY SYSTEM		Lock all doors with Intelligent Key or door request switch	Vehicle security system can not be set	_	SEC-142
		Lock all doors with Intelligent Key or request switch.	Security indicator does not turn ON or flash	_	SEC-141
	SECURITY	In the armed phase, open the door	Vehicle security system does not active	_	SEC-143
		When alarm sound, press Intelligent Key button	Vehicle security system can	_	SEC-144
		When alarm sound, press door request switch	not be canceled	_	SEC-145

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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:0000000005256187

NOTE:

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

KEY WARNING LAMP (GREEN) ILLUMINATES: Diagnosis Procedure

INFOID:0000000005256188

1. CHECK STEERING LOCK UNIT

Check steering lock unit.

Refer to SEC-125, "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-40, "Intermittent Incident".

NO >> GO TO 1.

KEY WARNING LAMP DOES NOT ILLUMINATE

KEY WARNING LAMP DOES NOT ILLUMINATE: Description

INFOID:000000005256189

NOTE:

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

KEY WARNING LAMP DOES NOT ILLUMINATE: Diagnosis Procedure

INFOID:0000000005256190

1. CHECK INTELLIGENT KEY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check Intelligent Key unit power supply and ground circuit.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK KEY SWITCH

Check key switch.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

$4.\mathsf{confirm}$ the operation

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

IGNITION KNOB SWITCH DOES NOT TURN ON < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]	
KEY WARNING LAMP (RED) ILLUMINATES	
KEY WARNING LAMP (RED) ILLUMINATES: Description	Α
NOTE: • Before performing the diagnosis, check "Work Flow". Refer to SEC-6 , "Work Flow".	В
KEY WARNING LAMP (RED) ILLUMINATES : Diagnosis Procedure	
1. CHECK INSIDE KEY ANTENNA	С
Check inside key antenna. Refer to SEC-57, "INSTRUMENT CENTER: Component Function Check".	D
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	Е
2.CONFIRM THE OPERATION	
Confirm the operation again.	F
Is the result normal? YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident". NO >> GO TO 1.	G
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Revision: 2009 October SEC-139 2010 Rogue

ENGINE CAN NOT START WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

ENGINE CAN NOT START WITH INTELLIGENT KEY

Description INFOID:0000000005256193

NOTE:

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

Diagnosis Procedure

INFOID:0000000005256194

1. CHECK KEY SWITCH

Check key switch.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

SECURITY INDICATOR LAMP DOES NOT TURN ON OR FLASH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SECURITY INDICATOR LAMP DOES NOT TURN ON OR FLASH

Description INFOID:0000000005256195

NOTE:

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

Diagnosis Procedure

INFOID:0000000005256196

1. CHECK VEHICLE SECURITY INDICATOR LAMP

Check vehicle security indicator lamp.

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

Is the inspection result normal?

YFS >> GO TO 2.

>> Repair or replace the malfunctioning parts. NO

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

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VEHICLE SECURITY SYSTEM CAN NOT BE SET

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY SYSTEM CAN NOT BE SET

Description INFOID.000000005256197

NOTE:

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

Diagnosis Procedure

INFOID:0000000005256198

1. CHECK DOOR LOCK FUNCTION

Check door lock function.

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

s the inspection result normal?

YES >> GO TO 2.

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

2.check hood switch

Check hood switch.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "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:000000005256199

NOTE:

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

Diagnosis Procedure

1. CHECK DOOR SWITCH

Check door switch.

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

Is the inspection results normal?

YES >> GO TO 2.

NO >> Repair or replace malfunction part.

2.check horn

Check horn.

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

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

Is the inspection results normal?

YES >> GO TO 3.

NO >> Repair or replace malfunction part.

3. CHECK HEADLAMP OPERATION

Check headlamp operation by lighting switch.

Does headlamp come on when turning switch ON?

YES >> GO TO 4.

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

 $\frac{\text{Flow"}}{\text{4.CONFIRM THE OPERATION}}$

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

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INFOID:0000000005256200

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

NOTE:

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

Diagnosis Procedure

INFOID:0000000005256202

1. CHECK INTELLIGENT KEY SYSTEM

Check Intelligent Key system.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

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

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

INFOID:0000000005256203 В

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NOTE:

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

Diagnosis Procedure

INFOID:0000000005256204

1. CHECK INTELLIGENT KEY SYSTEM

Check Intelligent Key system.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

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SEC-145 Revision: 2009 October 2010 Rogue

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision 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 AIR BAG".
- 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.

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

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

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

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition 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.
- Perform the necessary repair operation.
- When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- Perform a self-diagnosis check of all control units using CONSULT-III.

FOR MEXICO

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

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

WARNING:

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

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

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

FOR MEXICO: Precaution Necessary for Steering Wheel Rotation After Battery Disconnect INFOID:0000000005256208

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.

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PRECAUTIONS

< PRECAUTION >

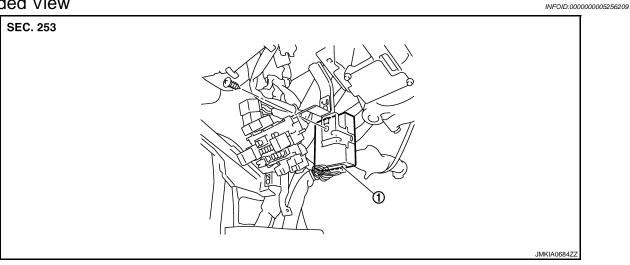
[WITH INTELLIGENT KEY SYSTEM]

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

REMOVAL AND INSTALLATION

INTELLIGENT KEY UNIT

Exploded View



Intelligent Key unit M40

Removal and Installation

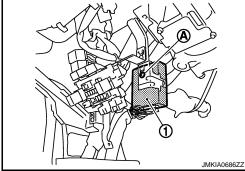
REMOVAL

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.

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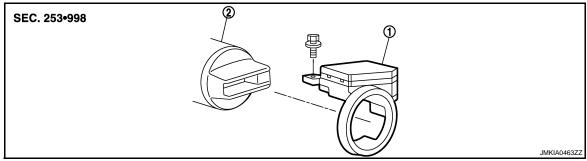
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NATS ANTENNA AMP.

Exploded View

INFOID:0000000005256211



1. NATS antenna amp.

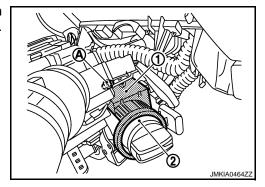
2. Steering lock assembly

Removal and Installation

INFOID:0000000005256212

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.

[WITH INTELLIGENT KEY SYSTEM]

HOOD SWITCH

Exploded View

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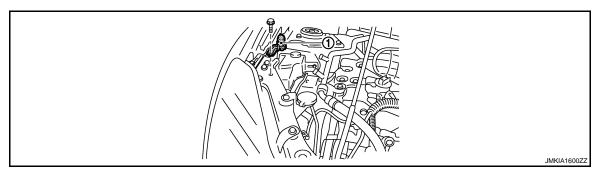
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HOOD SWITCH



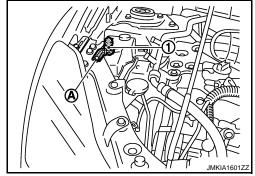
Hood switch

Removal and Installation

INFOID:0000000005256214

REMOVAL

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



INSTALLATION

Install in the reverse order of removal.

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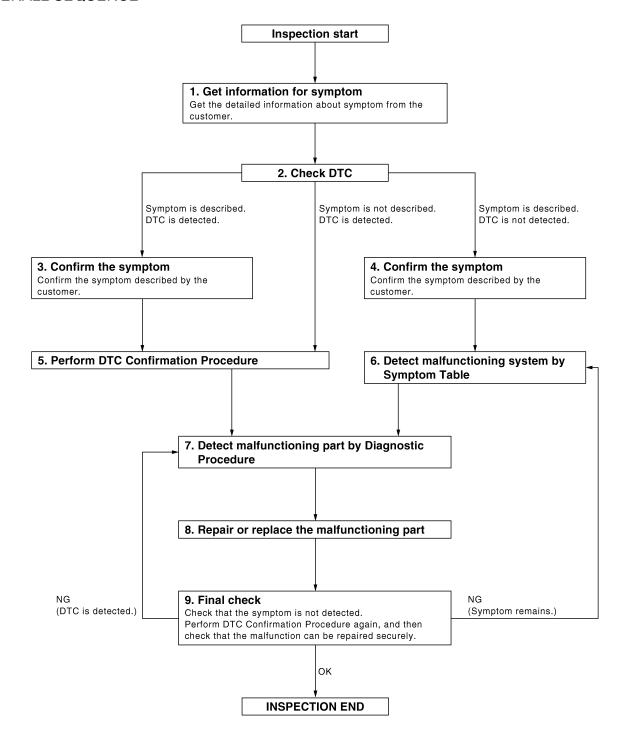
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Is any symptom described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

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

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

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. If two or more DTCs are detected, refer to SEC-216, "DTC Inspection Priority Chart" (BCM) and determine trouble diagnosis order.

Is DTC detected?

YES >> GO TO 7.

>> Refer to GI-40, "Intermittent Incident". NO

O.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

>> GO TO 8.

>> GO TO 7.

f 8.REPAIR OR REPLACE THE MALFUNCTIONING PART

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

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

>> GO TO 9.

9. FINAL CHECK

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

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

Are all malfunctions corrected?

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

YES >> INSPECTION END

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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INSPECTION AND ADJUSTMENT Α ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description INFOID:0000000005256216 Perform the system initialization when replacing BCM or ECM with a used parts or registering an additional ignition key. ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:0000000005256217 D Refer to the CONSULT-III Operation Manual-NATS. ECM RE-COMMUNICATING FUNCTION Е ECM RE-COMMUNICATING FUNCTION: Description INFOID:0000000005256218 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:0000000005256219 1. PERFORM ECM RE-COMMUNICATING FUNCTION 1 Install ECM. Using a registered key (*2), turn ignition switch to "ON". *2: To perform this step, use the key that has been used before performing ECM replacement. Maintain ignition switch in "ON" position for at least 5 seconds. 4. Turn ignition switch to "OFF". SEC 5. Start engine. Can engine be started? YES >> Procedure is completed. NO >> Initialize control unit. Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS. N

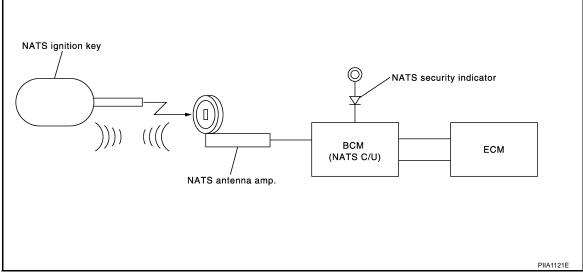
SEC-155 Revision: 2009 October 2010 Rogue

SYSTEM DESCRIPTION

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

System Diagram

INFOID:0000000005256220



System Description

INFOID:0000000005256221

INPUT/OUTPUT SIGNAL CHART

BCM

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

SYSTEM DESCRIPTION

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

- Engine immobilizer shows high anti-theft performance to prevent engine start by other than the owner.
- Only a key with key ID registered in BCM and ECM can start engine, and shows high anti-theft performance to prevent key from being copied or stolen.
- Therefore, NVIS/NATS warns outsiders that the vehicle is equipped with the anti-theft system. Refer to SEC-160, "System Description".
- If system detects malfunction, security indicator illuminate when ignition switch is turned to ON position.
- If the owner requires, ignition key ID can be registered for up to 5 keys.
- During trouble diagnosis or when the following parts have been replaced, and if ignition key is added, registration* is required.
 - *1: All keys kept by the owner of the vehicle should be registered with ignition key.
- ECM
- BCM
- Ignition key
- EPS control unit
- IPDM E/R
- Combination meter
- NVIS/NATS trouble diagnosis, system initialization and additional registration of other Ignition key IDs must be carried out using CONSULT-III hardware and SECURITY CARD.
 - When NVIS/NATS initialization has been completed, the ID of the inserted ignition key or ignition key IDs can be carried out.
- Possible symptom of NVIS/NATS malfunction is "Engine cannot start". The engine can be started with the NVIS/NATS. Identify the possible causes according to "Work Flow". Refer to SEC-152, "Work Flow".

NVIS (NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

 If ECM other than Genuine NISSAN is installed, the engine cannot be started. For ECM replacement procedure, refer to SEC-155, "ECM RE-COMMUNICATING FUNCTION: Description".

PRECAUTIONS FOR KEY REGISTRATION

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

SECURITY INDICATOR LAMP

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

MAINTENANCE INFORMATION

CAUTION:

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

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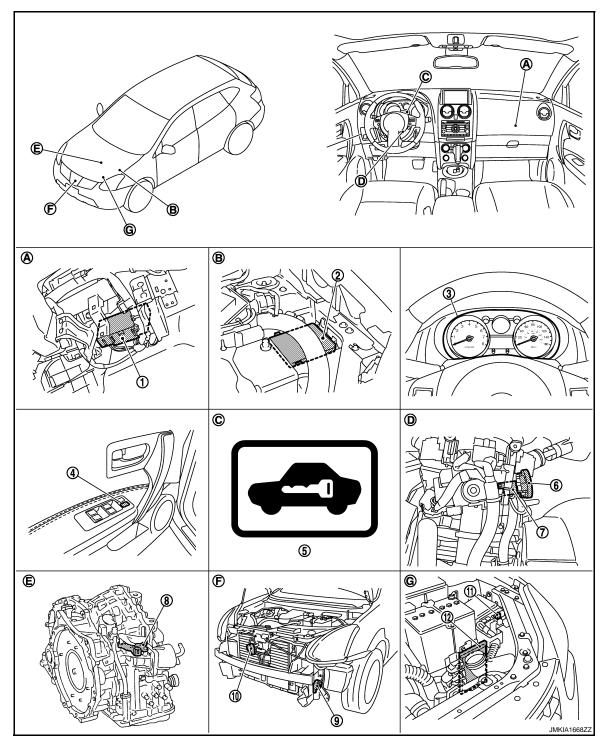
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- 1. BCM M65, M66, M67
- 4. Door lock and unlock switch D5, D6
- 7. Key switch M24
- 10. Horn (low) E80, E81
- A. Over the glove box

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

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

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

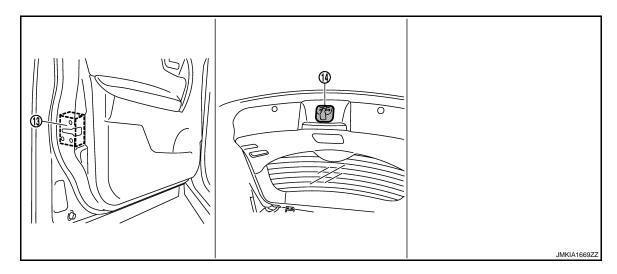
< SYSTEM DESCRIPTION >

View with steering column cover re-

- E. Transaxle assembly
- F. View with front bumper removed

G. Engine room (LH)

moved



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

Component Description

 Component
 Reference

 BCM
 BCS-7

 NATS antenna amp.
 SEC-173

 Security indicator
 SEC-182

 IPDM E/R
 PCS-2

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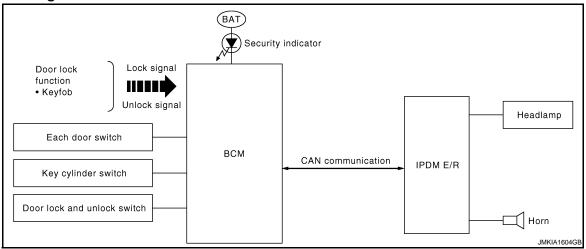
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VEHICLE SECURITY SYSTEM

System Diagram

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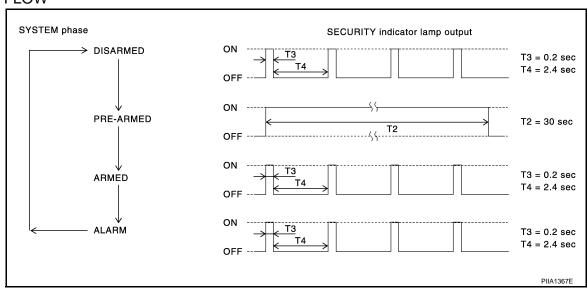
System Description

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INPUT/OUTPUT SIGNAL CHART

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

OPERATION FLOW



SETTING THE VEHICLE SECURITY SYSTEM

Initial Condition

• Ignition switch is in OFF position.

Disarmed Phase

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

VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

Pre-armed Phase and Armed Phase

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

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

CANCELING THE SET VEHICLE SECURITY SYSTEM

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

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

CANCELING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

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

ACTIVATING THE ALARM OPERATION OF THE VEHICLE SECURITY SYSTEM

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

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

PANIC ALARM OPERATION

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

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

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

The headlamp flashes and the horn sounds intermittently.

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

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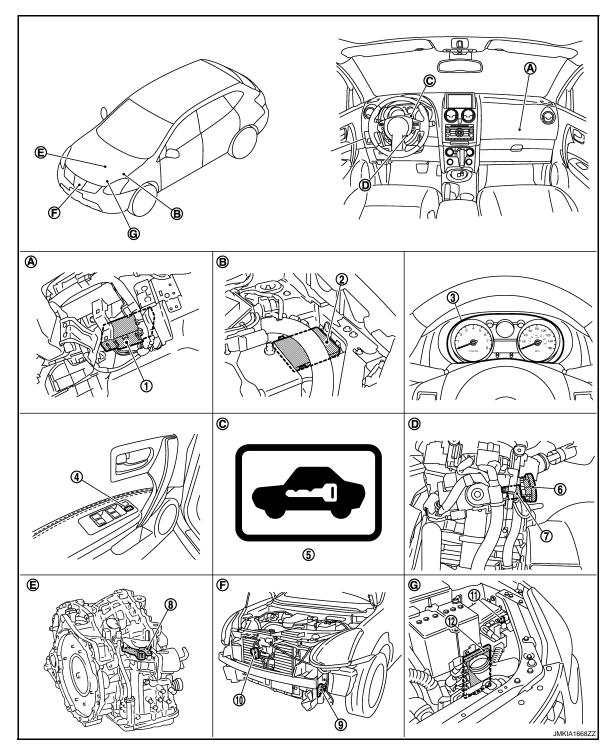
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Component Parts Location

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

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

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

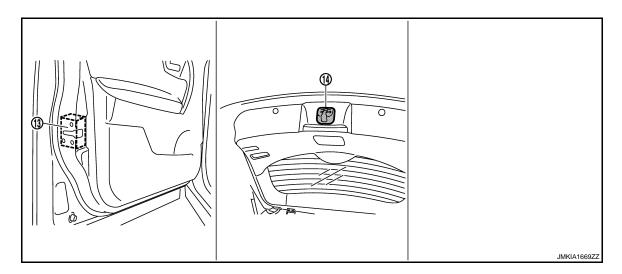
VEHICLE SECURITY SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

G. Engine room (LH)



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

Component Description

Component	Reference
BCM	BCS-7
Horn	SEC-181
Security indicator	SEC-182
Door switch	DLK-299
NATS antenna amp.	SEC-173

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DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000005256228

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-62, "DTC Index".
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	Read and save the vehicle specification.Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	CONSULT-III sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
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			×

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

IMMU

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

IMMU: CONSULT-III Function (BCM - IMMU)

INFOID:0000000005256229

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APPLICATION ITEM

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

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

DATA MONITOR

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

ACTIVE TEST

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

THEFT ALM

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

INFOID:0000000005256230

APPLICATION ITEM

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

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

DATA MONITOR

Monitor Item	Condition	
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.	
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.	
KEY ON SW	Indicates [ON/OFF] condition of key switch.	
KEYLESS LOCK*2	Indicates [ON/OFF] condition of lock signal from key fob.	
KEYLESS UNLOCK*2	Indicates [ON/OFF] condition of unlock signal from key fob.	
I-KEY LOCK*1	Indicates [ON/OFF] condition of lock signal from Intelligent Key.	
I-KEY UNLOCK*1	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.	
TRUNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.	
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	
TRNK OPNR MNTR	NOTE: The item is indicated, but not monitored.	
HOOD SW	Indicates [ON/OFF] condition of hood switch.	
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).	
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).	
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.	
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.	
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.	

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

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

ACTIVE TEST

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

WORK SUPPORT

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

 $^{^{\}star 2}\!\!:$ For the vehicle equipped with remote key less entry system.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

BCM

BCM: Description

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

CAN Communication Signal Chart. Refer to LAN-26, "CAN Communication Signal Chart".

BCM: DTC Logic

INFOID:0000000005256232

DTC DETECTION LOGIC

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

BCM: Diagnosis Procedure

INFOID:0000000005256233

1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

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

NO >> Refer to GI-40, "Intermittent Incident".

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

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

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

CAN Communication Signal Chart. Refer to LAN-26, "CAN Communication Signal Chart".

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

DTC DETECTION LOGIC

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

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

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

agnosis Procedure

INFOID:0000000005256236

1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

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

NO >> Refer to GI-40, "Intermittent Incident".

P1610 LOCK MODE

[WITHOUT INTELLIGENT KEY SYSTEM] < DTC/CIRCUIT DIAGNOSIS > P1610 LOCK MODE Α Description INFOID:000000005256237 When the starting operation is carried more than 10 times consecutively under the following conditions, NVIS/ В NATS will shift to the mode which prevents the engine from being started. Unregistered ignition key is used. BCM or ECM's malfunctioning. DTC Logic INFOID:0000000005256238 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name Е When the starting operation is carried out 10 or more times consecutively under the P1610 LOCK MODE following conditions. · Unregistered ignition key F · BCM or ECM's malfunctioning. DTC CONFIRMATION PROCEDURE 1. PERFORM DTC CONFIRMATION PROCEDURE Turn ignition switch ON. Check "Self Diagnostic Result" with CONSULT-III. Н Is DTC detected? YES >> Refer to SEC-169, "Diagnosis Procedure". >> INSPECTION END NO Diagnosis Procedure INFOID:0000000005256239 1. CHECK ENGINE START FUNCTION Perform the check for DTC except DTC P1610. Use CONSULT-III to erase DTC after fixing. SEC Check that engine can start with registered ignition key. Does the engine start? YES >> INSPECTION END NO >> GO TO 2. 2.CHECK INTERMITTENT INCIDENT Refer to GI-40, "Intermittent Incident". >> INSPECTION END Ν

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P1611 ID DISCORD, IMMU-ECM

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

P1611 ID DISCORD, IMMU-ECM

Description INFOID:000000005256240

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-169, "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-170</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000005256242

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

- 1. Replace ECM. Refer to the following page.
- For CALIFONIA: Refer to EC-26, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".
- For USA (FEDERAL) and CANADA: Refer to <u>EC-513</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

< DTC/CIRCUIT DIAGNOSIS > [WITHOUT INTELLIGENT KEY SYSTEM]

NO >> GO TO 4.

4. CHECK INTERMITENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

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P1612 CHAIN OF ECM-IMMU

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

P1612 CHAIN OF ECM-IMMU

Description INFOID:000000005256243

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-31, "BCM: DTC Logic".

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Refer to <u>SEC-172</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000005256245

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-26</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement"</u>.
 - For USA (FEDERAL) and CANADA: Refer to <u>EC-513</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: Special Repair Requirement".
 For MEXICO: Refer to <u>EC-955</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>
 - For MEXICO: Refer to <u>EC-955</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>
 <u>: Special Repair Requirement</u>".

P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

P1614 CHAIN OF IMMU-KEY

Description INFOID:0000000005256246

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

DTC Logic INFOID:0000000005256247

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Refer to SEC-173, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK NATS ANTENNA AMP. INSTALLATION

Check NATS antenna amp. installation. Refer to SEC-150, "Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Reinstall NATS antenna amp. correctly.

2.CHECK IGNITION KEY

Start engine with another registered ignition key.

Does the engine start?

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

NO >> GO TO 3.

3.CHECK NATS ANTENNA AMP. POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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P1614 CHAIN OF IMMU-KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. CHECK NATS ANTENNA AMP. GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace circuit.

5. CHECK NATS ANTENNA AMP. SIGNAL CIRCUIT

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

(+) NATS antenna amp.				\	
		(–)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			(
2			Just after inserting ignition key in key cylinder.	Pointer of tester should move.	
M26 -		Ground	Other than above.	0	
	4	Giouna	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-40, "Intermittent Incident".

>> INSPECTION END

P1615 DIFFRENCE OF KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

P1615 DIFFRENCE OF KEY

Description INFOID:0000000005256249

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:0000000005256250

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

>> Refer to SEC-175, "Diagnosis Procedure". YES

NO >> INSPECTION END

Diagnosis Procedure

1. PERFORM INITIALIZATION

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

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

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

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

>> BCM is malfunctioning. NO

- Replace BCM. Refer to BCS-67, "Removal and Installation".
- Perform initialization again.

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INFOID:000000000525625

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000005256252

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		2
(+)			ignition switch position		1
В	BCM		OFF	ACC	ON
Connector	Terminal	OFF	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

< DTC/CIRCUIT DIAGNOSIS >		[WITHOUT INTELLIGENT KEY SYSTEM]
DOOR SWITCH		
Description		INFOID:00000000525625
Detects door open/closed condition		
Component Function Chec	k	INFOID:00000000525625
1.check function		
SW") in "Data Monitor" mode with C	CONSULT-III.	OOR SW-RL", "DOOR SW-RR", "BACK DOOF
Monitor item	Door condition	Display
DOOR SW-DR		
DOOR SW-AS		
DOOR SW-RL	$CLOSE \to OPEN$	$OFF \to ON$
DOOR SW-RR		
BACK DOOR		
Is the inspection result normal? YES >> Door switch is OK. NO >> Refer to SEC-177, "Dia Diagnosis Procedure	ignosis Procedure".	INFOID:00000000525625:
1. CHECK DOOR SWITCH INPUT	SIGNAL	
 Turn ignition switch OFF. Disconnect door switch connect Check signal between door switch 		ground with oscilloscope.

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(+)			()	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		(V) ₁₅ 10 5 0 → 10ms JPMIA0587GB
Rear door switch RH	B53	2	Ground	(V) ₁₅ 10 5 0 ++10ms JPMIA0587GB
Rear door switch LH	B71	2		(V) ₁₅ 10 5 0 → 10ms JPMIA0594GB
Back door lock assembly (back door switch)	D190	3		(V) 15 10 5 0 → 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	Exists
	13	B53	2	
	43	D190	3	
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	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-179, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door switch. Refer to <u>DLK-263</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "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		Exists	
Lacii dooi	2	Ground	Door switch released	Does not exist

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INFOID:0000000005256256

2010 Rogue

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Terminal			Condition	Continuity
Back door 3	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-263</u>, "Removal and Installation".

[WITHOUT INTELLIGENT KEY SYSTEM]

HORN

Description

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

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

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

Is the operation normal?

YES >> INSPECTION END

NO >> Refer to <u>SEC-181</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

YES >> GO TO 2.

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

2. CHECK HORN RELAY CIRCUIT

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

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

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

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

Is the inspection result normal?

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

NO >> Repair or replace harness.

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VEHICLE SECURITY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY INDICATOR

Description INFOID:000000005256260

- 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:0000000005256261

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		ON
THEFT IND	OFF	Vehicle security indicator	OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SEC-182</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005256262

1. CHECK SECURITY INDICATOR LAMP POWER SUPPLY CIRCUIT

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

(+) Combination	n meter	(-)	Voltage (V) (Approx.)	
Connector Terminal			(* 144.07.11)	
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	BCM Combination meter		Continuity	
Connector Terminal		Connector	Terminal	Continuity
M65	23	M34	28	Existed

Check continuity between combination meter harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

1. Connect combination meter connector.

VEHICLE SECURITY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

2. Check voltage between BCM harness connector and ground.

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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Removal and Installation".

NO >> Replace combination meter. Refer to MWI-87, "Removal and Installation".

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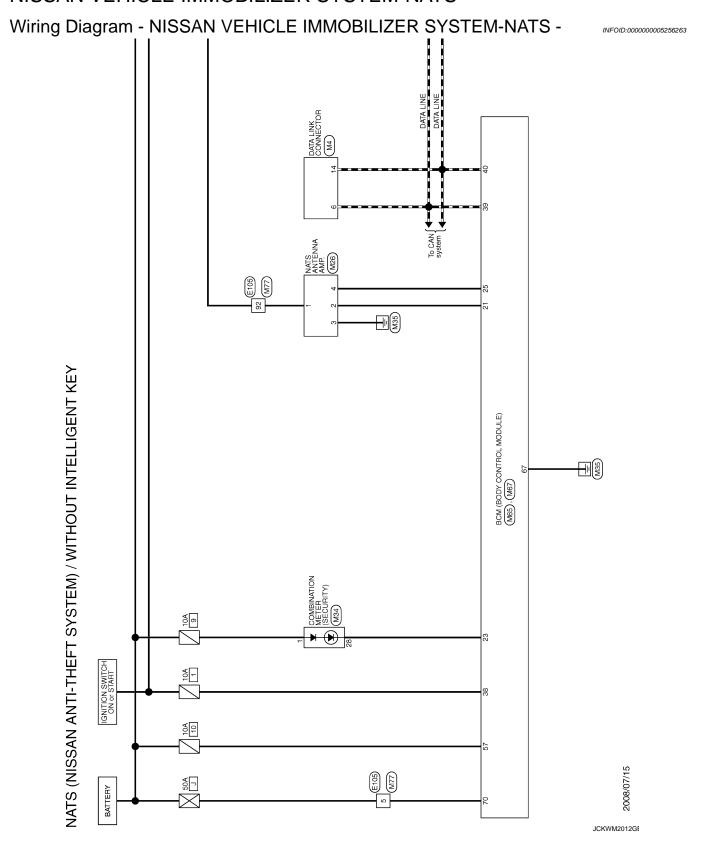
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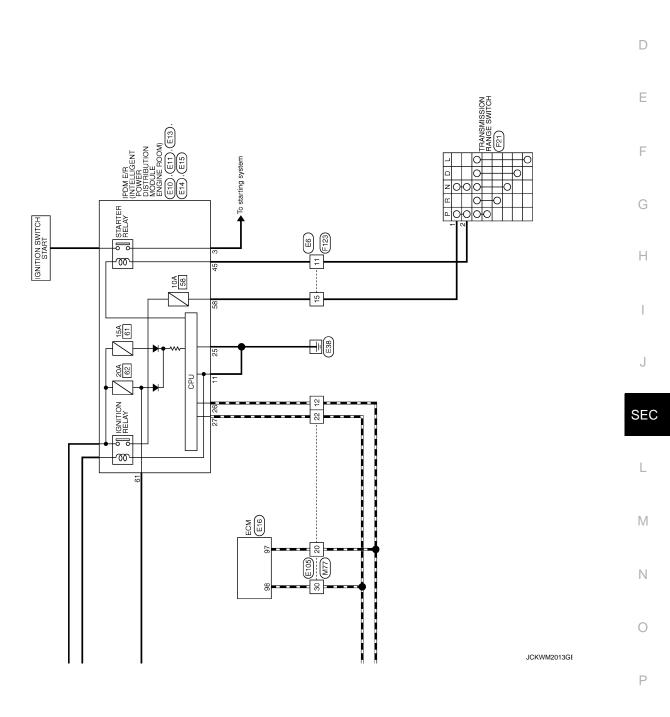
NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS



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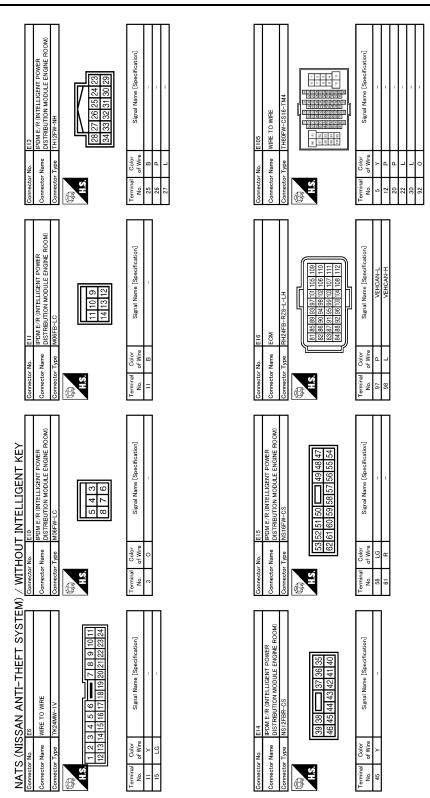
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NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS (WITHOUT INTELLIGENT KEY SYSTEM)

< DTC/CIRCUIT DIAGNOSIS >



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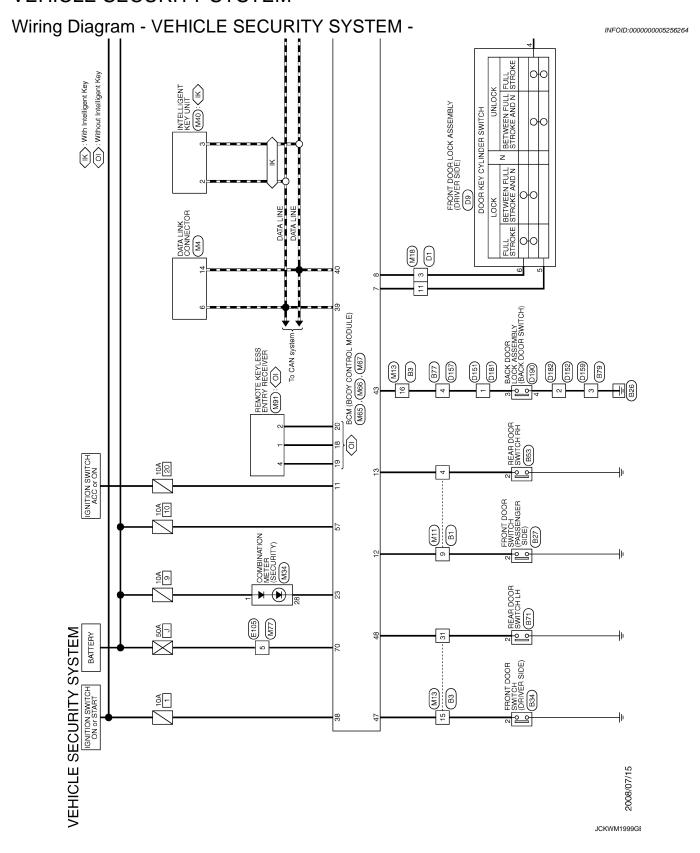
NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Connector No. M26 Connector Name NATS ANTENNA AMP. Connector Type TH04PW-NH LLS 1234	No. of Wire Signal Name [Specification] Of Wire Signal Name [Specification]	Connector No. M17 Connector Name WIRE TO WIRE Connector Type TH60MW-CS16-TM4 MS TH60MW-CS16-TM4 TH60MW-CS16-TM4	Terminal Color Signal Name Specification] Color Signal Name Specification] Specification] Signal Name Specification] Specification Specification] Specification Specification		A B C
Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW M.S. 9 10 11 12 3 4 5 6 7 8	Terminal Color Signal Name [Specification] No of Wire Color L L L L L L L L L	Connector No. M67 Connector Name BCM (BODY CONTROL MODULE) Connector Type FEASIFE FHAG-SA FAST SS 59 60 61 62 63 64 65 66 67 68 69 70	Terminal Color Signal Name Specification] No. of Wire Signal Name Specification] ST G BAT FUSE ST ST ST ST ST ST ST		E F G
M) / WITHOUT INTELLIGENT KEY Connector Name WIRE TO WIRE Connector Type TRZ4FW-1V	Terminal Color Signal Name [Specification] No. of Wire 11 R	Connector No. M65 Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FW-NH (Sp. 12 1 1 1 1 1 1 1 1 1	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 23 G IMMOBI ANT(CLOCK) 23 G IMMOBI ANT(CLOCK) 38 G IGN 40 P CAN+H 40 P CAN+L		J
NATS (NISSAN ANTI-THEFT SYSTEM Connector No. F21 Connector Name TRANSMISSION RANGE SWITCH Connector Type RK08FG A.S. 7 6 4 8	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification]	Connector No. M34 Connector Name COMBINATION METER Connector Type SAB40FW M.S. The same of the same	Description Color Signal Name [Specification]	JCKWM2015GE	M N
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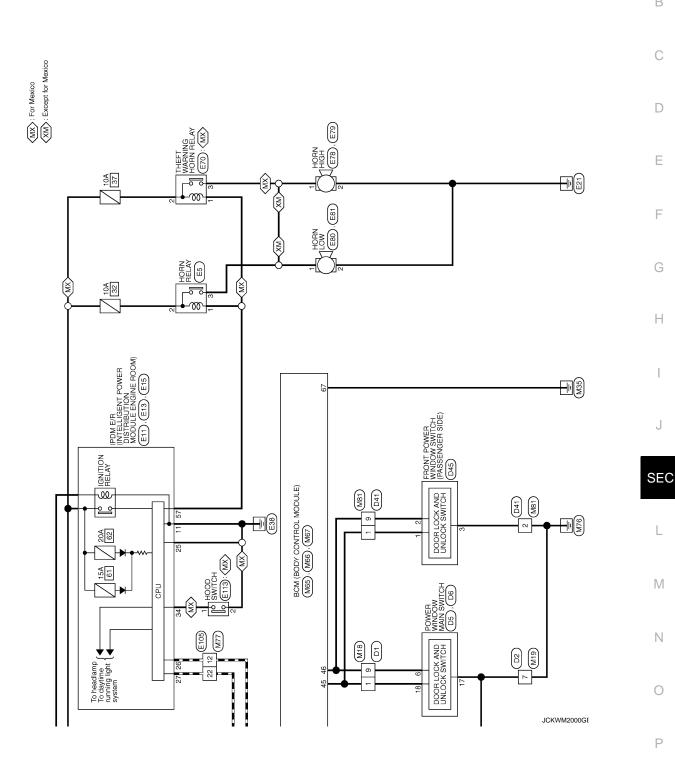
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Connector No. B1	Connector No. B3	Connector No. B27	Connector No. B34
Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name SIDE)	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type TH80MW-CS16-TM4	Connector Type TH32MW-NH	Connector Type A03FW	Connector Type A03FW
\$ 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 8 9 10 11	⊗ -Iα	SH SH
	[17] 18] 19] 20] 21] 22] 23] 24] 25] 26] 27] 28] 29] 30] 31] 32]	3	3
Terminal Golor Signal Name [Specification] No.	of of	inal o	Terminal Golor Signal Name [Specification]
9 BR -	15 P	2 BR	2 P -
	1		
Connector No. B53	Connector No. B71	Connector No. B77	Connector No. B79
Connector Name REAR DOOR SWITCH RH	Connector Name REAR DOOR SWITCH LH	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE
Connector Type A03FW	Connector Type A03FW	Connector Type NS10MW-CS	Connector Type M04MW-LC
SH SH SH SH SH SH SH SH SH SH SH SH SH S	H8 W-Zm	HS 12 3 4 5 6 7 8 9 10	#S. H.S. 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
Terminal Golor Signal Name [Specification]	Terminal Color Signal Name [Specification] No of Wire	Terminal Color Signal Name [Specification] No of Wire	Terminal Color Signal Name [Specification]
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< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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Connecto Con	Connecto Connecto Connecto Terminal No. 1 2 3 3	Н
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Connector No. 02 Connector Name Will Connector Type NS H.S. Terminal Odor No. 0f Wire 7 B	Connector No. DA Connector Name Will Connector Type TTerminal Color No. of Wire 1 P P 2 B B 9 B B B	SEC
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SECUL WIRE TO WIRE TO THIGFW-		N
Connector No. Connector Name Connector Type Connec	Connector No. Connector Name Connector Name Terminal Color No. of Wire 4 B B 6 W	0
		jckwm2002gf

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Connector No. D181	9 e		Terminal Color Signal Name [Specification] No. of Vilre -	Connector No. E11 Connector Name IPDM E/R (NTELLIGENT POWER Connector Type M06FB-LC M06FB-LC 11 10 9 14 13 12	Terminal Color Signal Name [Specification] No. of Wire 11 B
Connector No. D159	Connector Name WIRE TO WIRE Connector Type M04FW-LC		Terminal Color Signal Name [Specification] 3 B	Connector No. E5 Connector Name HORN RELAY Connector Type A.S.	Terminal Color No. of Wire Signal Name [Specification]
Connector No. D157	Connector Name WIRE TO WIRE Connector Type NSI0FW-CS	1	Terminal Color Signal Name [Specification] No. of Wire 4 W	Connector No. D190 Connector Name BACK DOOR LOCK ASSEMBLY Connector Type NS04FW-CS A1.S 4 3 2 1	Terminal Color No. of Wire 3 W - 2 Description Signal Name [Specification]
VEHICLE SECURITY SYSTEM Connector No. D152	9 m		Terminal Golor Signal Name (Specification) 2 B	Connector No. D182 Connector Name WIRE TO WIRE Connector Type MIZAWY-GY-LC H.S.	Terminal Color No. of Wire Signal Name (Specification) 2 B

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[WITHOUT INTELLIGENT KEY SYSTEM]

	Signal Name [Specification]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name [Specification]		A B
Connector No. E78 Connector Name HORN HIGH Connector Type POITER-A I.S.	Terminal Color Signal Na No. of Wire	Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4 INSTANCE TO WIRE Connector Type TH80FW-CS16-TM4 INSTANCE TO WIRE	Color Color Signal Na		C
Oom		Common Co			E
ETO THEFT WARNING HORN FELAY MOSFW-R-LC 2 311	Signal Name [Specification]	E81 HORN LOW POIFB-A	Signal Name [Specification]		F
Connector No. E70 Connector Name THER	Color Color No. Color No. Color No. Color No. Color Colo	Connector No. E81 Connector Name HORN LC Connector Type POIFE-A	Terminal Color No. 2 B B		G
ELS POWER (WTELLIGENT POWER POONE) INSTIGEW-CS POST POWER PO	Signal Name [Specification]		Signal Name [Specification]		H
Connector No. E15 Connector Name (PDM E-R (IV) Connector Type (NS16FW-CS MS16FW-CS MS1	Terminal Color Si	Connector No. E80 Connector Name HORN LOW Connector Type POIFE-A	Terminal Color No. of Wire 1 G		SEC
SECURITY SYSTEM E13 IPOM E7 (WITELLIGENT POWER INTERPORTED MODULE ENGINE ROOM) THIZFW-NH [28 27 26 25 24 23 34 33 32 31 30 29	Signal Name [Specification]		Signal Name [Specification]		L M
$^{\circ}\Box$		E79 ne HORN HIGH ne POIFE-A	Ш		Ν
VEHICLE Connector No. Connector Name Connector Type H.S.	Terminal Color No. of Wiree 25 B 26 P 27 L L 27 L L 34 W	Connector No Connector Name Connector Type H.S.	Terminal Color No. of Wire 2 B	JCKWM2004GE	0
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Connector Name WIRE TO WIRE Connector Type TH32FW-NH MS 116151413121110 98 7 05 4 3 2 1 1 23 1 30 28 12 08 27 16 55 24 28 22 21 20 19 18 17	Terminal Color Signal Name [Specification] No. of Wire W -	Connector Name INTELLIGENT KEY UNIT Connector Type TH40FW-NH 1.2. 1.2. 4.5. 1.5	Terminal Color Signal Name [Specification]
Connector Name WIRE TO WIRE Connector Type TH90FW-CS16-TM4	Terminal Color Signal Name [Specification] No. of Wire 4 LG -	Connector No. M34 Connector Name COMBINATION METER Connector Type SAB40FW To a fine the first of the first o	Terminal Color Signal Name [Specification] No. of Wire I LG EAT EAT
Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW 9 10 11 12 13 4 5 6 7 8	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification]	Connector No. M19 Connector Name WIRE TO WIRE Connector Type NS16MW-CS H.S. 1 2 3	Terminal Color Signal Name [Specification]
VEHICLE SECURITY SYSTEM Geomector No. E113 Connector Name HOOD SWITCH Connector Type WIZFW	Terminal Coolor Of Wire Signal Name [Specification]	Connector No. M18 Connector Name WIRE TO WIRE Connector Type THISMW-NH 1.2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification]

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[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

DL MODULE) 62 [63 [64] 69 70	Signal Name [Specification] BAT FUSE GND BAT FL				A B
M67 BCM (BODY CONTRC FEA09FB-FHA6-SA 56 57 58 59 60 61 65 66 67 68	O Color				С
Connector No. Connector Name Connector Type	Terminal C of 15.0 of				D
or module) 47 48 49 54 55	OR SW NSW NSW OKSW OKSW TRR	RY RECEIVER proofication]	748		Е
(вору соите 9FW-FHA6-SA 13 44 45 46 1 52 53	Signal Name [Specification] BACK DOORS SW CDLLOCKSW CDLNLOCKSW DR SW RL DR SW RL	4FW 4FW 123	SIGNAL SIGNAL POWER		F
Connector No. MSG Connector Name BEM Connector Type FEAT (1.8)	Color Color No. Color No. Color No. Color Co		- 2 4 - 2 8 - 2 8 - 2 8 - 2 8		G
			\Box		Н
OAN-L		WIRE -NH	1 1 1		
		M81 WIRE TO WIRE THIGMW-NH 1 2 3 4 5 9 10 11 12 13 Signal Nar			J
0 4		sector No.	0 8 8	S	SEC
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SECURITY SYSTEM MS5 EGM (BODY CONTROL MODULE) TH40FW-NH TH40FW-NH TH40FW-NH TH40FW-NH TH40FW-NH	Signal Name (Specification) KEY CYC UNLOOK KEY CYL LOOK SW ACC DR SW AC DR SW AR EN'LESS TUNER SENS GND KEYLESS TUNER SENS LOOK KEYLESS TUNER SIGNAL SECURITY ND OUT PUT GNAH	TO WRE WW-CS16-TM4 WW-CS16-TM4 Signal Name (Specification)	1 1 1		M
		MY7 WIRE TO TH80MW- 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Ν
VEHICLE Connector No. Connector Type Connector Type H.S. H.S.	Color Color Color	Connector No. Connector Type Connector Type	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0
				JCKWM2006GE	

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[WITHOUT INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL TINI OCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
DOOK SW-DK	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOK SW-KE	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
BACK DOOK SW	Back door opened	On
KEA CALTK 6/W	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEA CAL TINTOM	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
RETEESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
KETELOO ONLOOK	"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 KEN 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 8144	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
VEWL DEL 9M	Rear window defogger switch ON	On
LIGHT SW 1ST	Lighting switch OFF	Off
	Lighting switch 1ST	On

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BUCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
RETLESS PAINIC	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
DKE LOK IMI OK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
DIVE IVEED LINE IV	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
	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
LIEAD LAMB OW O	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
DACCING CW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
FR FOG SW	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
TURN SIGNAL R	Turn signal switch OFF	Off
TORN SIGNAL K	Turn signal switch RH	On
TURN SIGNAL L	Turn signal switch OFF	Off
TORN SIGNAL L	Turn signal switch LH	On
ENGINE RUN	Engine stopped	Off
LINGINE RON	Engine running	On
PKB SW	Parking brake switch is OFF	Off
I ND OW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
IGN SW CAN	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On
ED WIDED III	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
ED WIDER LOW	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ED WIDED INT	Front wiper switch OFF	Off
FR WIPER INT	Front wiper switch INT	On
ED MACHED OM	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
ED WIDED OTOD	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading
DD WIDED ON	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
DD W//DED INT	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
DDAKE CW	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
FAN ON CIO	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	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
I-KEY PW DWN	UNLOCK button of Intelligent Key is not pressed	Off
I-KET PVV DVVIN	UNLOCK button of Intelligent Key is pressed and held	On
LIZEV DANIC	PANIC button of Intelligent Key is not pressed	Off
I-KEY PANIC	PANIC button of Intelligent Key is pressed	On
DUCHOW	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
TRAIL ORAID OW	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
	Open the hood	On

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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 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 VEGOI KLI	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WARNING 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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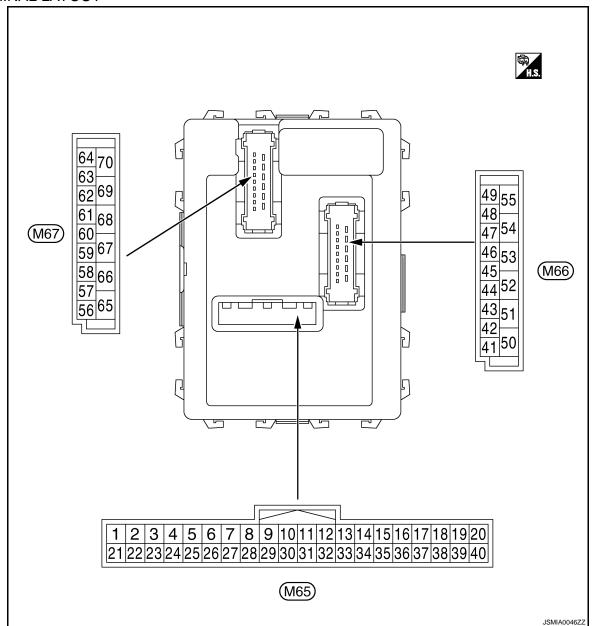
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TERMINAL LAYOUT



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-27, "COMB SW: CONSULT-III Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to BCS-9, "System Diagram".

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

< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

	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)	(V)
					Rear washer ON (Wiper intermittent dial 4)	10 10 10 10 10 10 10 10 10 10 10 10 10 1
					Any of the condition below with all switch OFF	→ +10ms
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Wiper intermittent dial 1Wiper intermittent dial 5Wiper intermittent dial 6	PKIB4959J
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 ***10ms
					All switch OFF	0.8 V
					(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 5 0
					Wiper intermittent dial 3 (All switch OFF)	++10ms PKIB4959J
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	(V) 15 10 5 0 ++10ms PKIB4952J 1.7 V
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 ***10ms

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	B C
					UNLOCK position	0 V	
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1	E F
						8.0 - 8.5 V	G
					LOCK position OFF (Brake pedal is not	0 V	
9 (R)	Ground	Stop lamp switch	Input	Stop lamp switch	depressed) ON (Brake pedal is depressed)	0 V Battery voltage	Н
10	Cround	Rear window defog-	lmm. it	Rear window	Not pressed	Battery voltage	I
(SB)	Ground	ger switch	Input	defogger switch	Pressed	0 V	
11	Ground	Ignition switch ACC	Input	Ignition switch O	FF	0 V	J
(SB)	Oroana	iginion switch 7100	mpac	Ignition switch A	CC or ON	Battery voltage	
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0586GB	SEC
					ON (When passenger door opened)	7.5 - 8.0 V	M N
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	O P
					ON (When rear door RH opened)	0 V	

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
15 [*] (O)	Ground	Tire pressure warning check switch	Input	Ignition switch OFF		(V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10
18 [*] (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 [*] (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 [*] (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	V) 15 10 5 0 JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
21 (G)	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	Battery voltage

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description			0 100	Value	Δ
+	– color)	Signal name	Input/ Output		Condition	(Approx.)	
					ON	0 V	Е
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 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	A/C switch	Input	Ignition switch	A/C switch OFF	(V) ₁₅ 10 5 10 → 10ms JPMIA0591GB	G
						1.6 V	Н
					A/C switch ON	0 V	
				Ignition switch O	FF	(//)	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch	Blower fan switch OFF	(V) ₁₅ 10 5 0 10ms	J
						JPMIA0592GB 7.0 - 7.5 V	SE
					Blower fan switch ON	0 V	
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage	L
(W)	Ground	Hazard Switch	прис	i iazaiu Swittii	ON	0 V	
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage	N
(G)	switch switch opens		opener switch	Pressed	0 V	IV	

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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		9 111		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	
					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	Ground OUTPUT 4 Output	Output	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) ±
					Rear wiper switch INT (Wiper intermittent dial 4)	15
				Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0 → +10ms PKIB4958J	

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
(Wire	e color) _	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 *** 10ms PKIB4960J 7.2 V	В С
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	Е
					Rear washer switch ON (Wiper intermittent dial 4)	5	F
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J	G
35	Crowd	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	H
(B)	Ground	OUTPUT 2	Output	(Wiper intermittent dial 4)	Lighting switch 2ND	40	
					Lighting switch PASS Front wiper switch INT	10 h h h h h h h h h	SE
					Front wiper switch HI	5 0 → →10ms PKIB4958J 1.2 V	L
36	Ground	Combination switch	Output	Combination switch	All switch OFF	(V) 15	M N
(V)	Giodila	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	(V)	Р
				tont diai 4)	Turn signal switch LH Front wiper switch LO	(V) 15 10 5	
					(Front wiper switch MIST) Front washer switch ON	0 → +10ms PKIB4958J 1.2 V	

< ECU DIAGNOSIS INFORMATION >

Condition Cond	Terminal No.		Description				Value
Ground Key switch Input Input Remove mechanical key from ignition key cyclinder O V			Signal name			Condition	
Second Input Inp		Ground	Key switch	Input	der Remove mechanical key from ignition key		
Gey Ground Ignition switch ON Input Ignition switch ON or START Battery voltage Ground Gan-H					· ·	IFF or ACC	0 V
(L) Ground CAN-H Output — — — — — — — — — — — — — — — — — — —		Ground	Ignition switch ON	Input			
(P) Ground Back door switch Input Back door switch Input Back door closed) (V) Ground Back door switch Input Back door switch Input Back door closed) (When back door clo		Ground	CAN-H			_	_
43 (V) Ground Back door switch Input Back door switch Input When back door closed) ON (When back door opened) ON (When back door opened) ON (When back door opened) OV Rear wiper stop position Any position other than rear wiper stop position ON Battery voltage 45 (P) Ground Poor lock and unlock switch LOCK signal Allock switch LOCK signal ON V Door lock and unlock switch Door lock and unlock switch LOCK position NEUTRAL position OV NEUTRAL position (V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10		Ground	CAN-L			_	_
Ground Rear wiper auto stop Input Inpu		Ground	Back door switch	Input		_	10 5 0 **10ms
44 (B) Ground Rear wiper auto stop Input Ignition switch ON Any position other than rear wiper stop position Any position other than rear wiper stop position Battery voltage NEUTRAL position NEUTR						_	0 V
(B) Ground Real 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 46 (BR) Ground Gr	44				Ignition switch		0 V
46 (BR) Ground Door lock and unlock switch LOCK signal Input Door lock and unlock switch UNLOCK signal Input Door lock and unlock switch UNLOCK signal Input NEUTRAL position Door lock and unlock switch UNLOCK signal Input		Ground	Rear wiper auto stop	Input			Battery voltage
Ground Ground Switch UNLOCK signal Input Unlock switch Unl		Ground		Input		NEUTRAL position	10 5 0 ++10ms JPMIA0591GB
46 (BR) Ground Switch UNLOCK signal Input Input Unlock switch Unlock swi	-					LOCK position	0 V
		Ground	switch UNLOCK sig-	Input		NEUTRAL position	10 5 0 ++10ms JPMIA0591GB
						UNLOCK position	

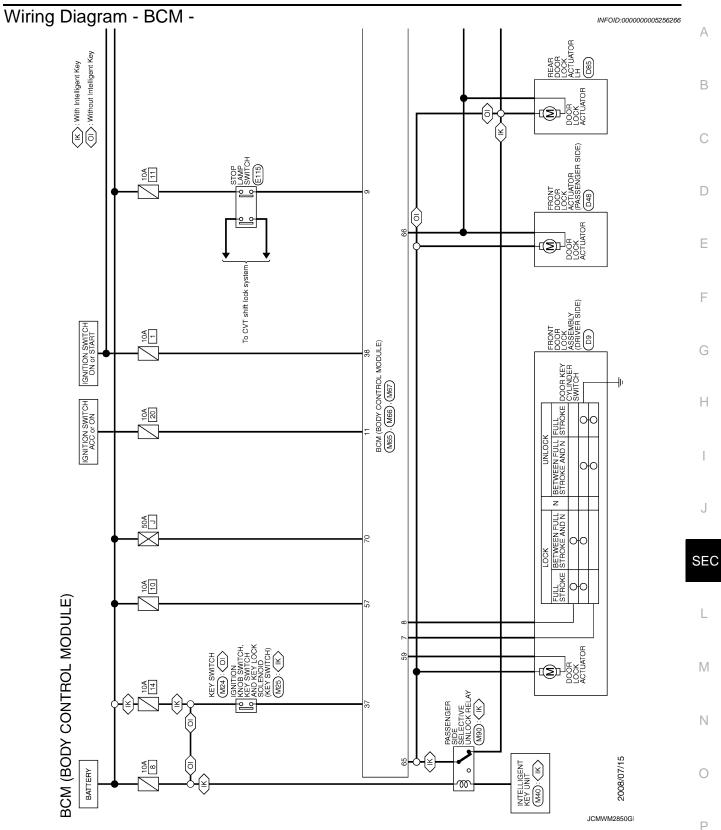
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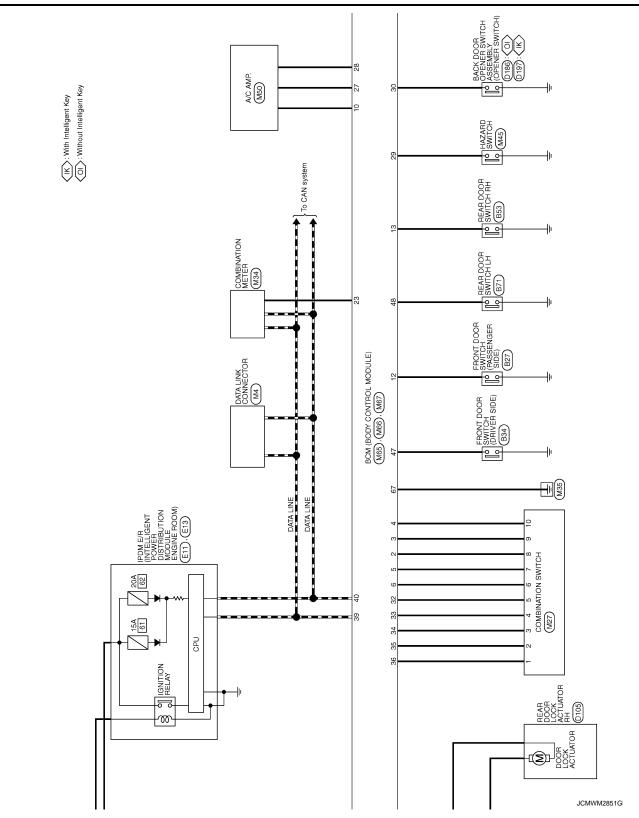
Terminal No. Description (Wire color)					Value		
+	- COIOI)	Signal name	Input/ Output	Condition		(Approx.)	
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0	
					ON (When driver door opened)	0 V	
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) ₁₅ 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)	Sibulia	Zaok addi open	Carput	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	Battery voltage	
56	Ground	Interior room lamp	0	saver operation t	interior room lamp battery ime	0 V	
(Y)	Giouna	power supply	Output	Any other time after passing the interior room lamp battery saver 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)	Ciodila	LOCK		2	Other then UNLOCK (Actuator is not activated)	0 V	

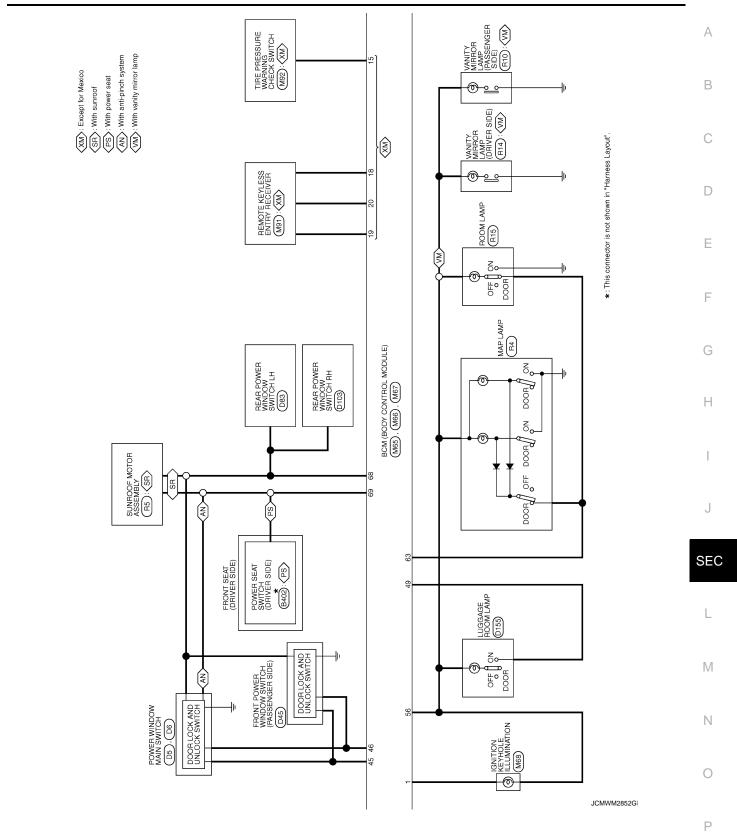
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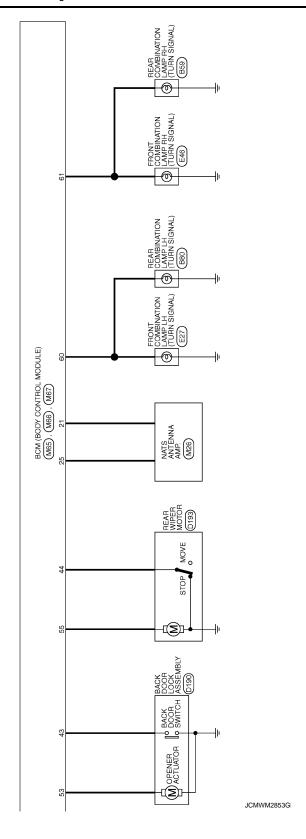
Terminal No.		Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
_					Turn signal switch OFF	0 V
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s 1s PKIC6370E
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s 1s PKIC6370E
		Interior room lamp		Interior room	OFF	Battery voltage
63 (R)	Ground	Interior room lamp 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 LOCK	Output	All doors	Other then LOCK (Actuator is not activated)	0 V
66	Ground	Passenger door and	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Giouria	rear door UNLOCK	Output	and rear door	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 (P)	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

^{*:} Except for Mexico

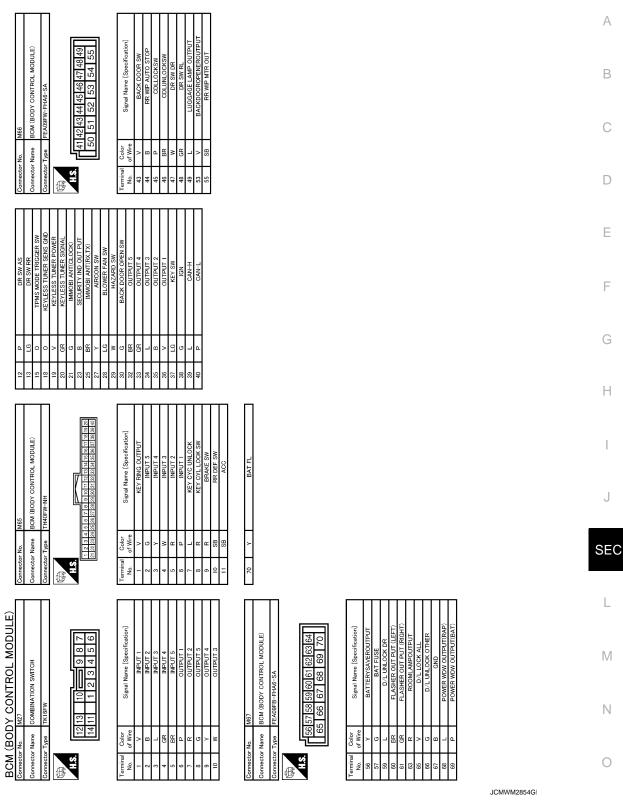








[WITHOUT INTELLIGENT KEY SYSTEM]



Fail-safe

REAR WIPER MOTOR PROTECTION

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

Condition of cancellation

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

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:0000000005256268

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA 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 C1727: [BATT VOLT LOW] RR

DTC Index

NOTE:

Details of time display

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

CONSULT display	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-34

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

CONSULT display	Tire pressure monitor warning lamp ON	Reference	
C1704: LOW PRESSURE FL	×		
C1705: LOW PRESSURE FR	×	\\\T 4E	
C1706: LOW PRESSURE RR	×	<u>WT-15</u>	E
C1707: LOW PRESSURE RL	×		
C1708: [NO DATA] FL	×		
C1709: [NO DATA] FR	×	\\/T 47	
C1710: [NO DATA] RR	×	<u>WT-17</u>	
C1711: [NO DATA] RL	×		
C1716: [PRESS DATA ERR] FL	×		
C1717: [PRESS DATA ERR] FR	×	WT 20	Е
C1718: [PRESS DATA ERR] RR	×	<u>WT-20</u>	
C1719: [PRESS DATA ERR] RL	×		
C1729: VHCL SPEED SIG ERR	×	<u>WT-22</u>	F
C1735: IGN CIRCUIT OPEN	_	BCS-35	

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< ECU DIAGNOSIS INFORMATION >

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

Reference Value INFOID:0000000005256270

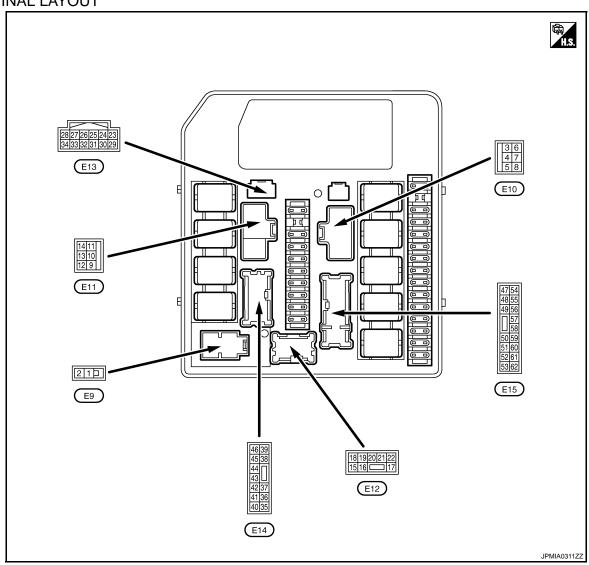
VALUES ON THE DIAGNOSIS TOOL

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

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

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 CHIRF	Horn is activated with key fob LOCK operation.	On

TERMINAL LAYOUT



PHYSICAL VALUES

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

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output	(Condition	
3	0	Cttl	0	When engine is clanking		Battery voltage
(O)	Ground	Starter relay power supply	Output	When engine is not clanking		0 V
4		Cooling fan relay-1 power		Cooling fan opera-	OFF	0 V
(W)	Ground	supply	Output	tion	MID or HI	Battery voltage
5				Ignition switch OFF,	ACC or ON	0 V
(R)	Ground	Ignition switch START	Input	Ignition switch STAF	RT	Battery voltage
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7	Cround	Cooling fan motor-2 (HI)		Cooling fan opera-	OFF	Battery voltage
(P)	Ground	ground		tion	HI	0 V
8	Craund	Cooling fan relay-2 power	Outsut	Cooling fan opera-	OFF	0 V
(G)	Ground	supply	Output	tion	HI	Battery voltag
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)	Glound	lay power supply	Output	Ignition Switch ON	Rear window defogger switch ON	Battery voltag
15 ^{*1}	Cround	Daytime running light relay	Output	Daytime running	Not operated	Battery voltag
(SB)	Ground	control	Output	light system	Operated	0 V
16 ^{*2}	Ground	Front fog lamp (LH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(Y)	Giodila	Tront log lamp (Em)	Output	2ND	Front fog lamp switch ON	Battery voltag
17 ^{*2}	Ground	Front fog lamp (RH)	Output	Lighting switch	Front fog lamp switch OFF	0 V
(W)	Ground	Tront log lamp (Kiri)	Output	2ND Front fog lamp switch ON		Battery voltag
18	Ground	Headlamp LO (LH)	Output	Lighting switch OFF		0 V
(L)	Ground	ricadiamp EO (EH)	Output	Lighting switch 2ND		Battery voltag
20	Ground	Headlamp LO (RH)	Output	Lighting switch OFF		0 V
(SB)	Orodria	Troudiamp 20 (Titr)	Output	Lighting switch 2ND		Battery voltag
				Lighting switch OFF		0 V
21 (G)	Ground	Headlamp HI (LH)	Output	Lighting switch 2NLighting switch PA		Battery voltag
				Daytime running ligh	nt system Operated*1	7.0 V
				Lighting switch OFF		0 V
22 (LG)	Ground	Headlamp HI (RH)	Output	Lighting switch 2NLighting switch PA		Battery voltag
				Daytime running ligh	nt system Operated*1	7.0 V
23	0.12	0:1	1	Indiana di Lanci	Engine stopped	0 V
(W)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine running	Battery voltage
0.4					Front wiper stop position	0 V
24 (Y)	Ground	Front wiper auto stop	Input	Ignition switch ON	Any position other than front wiper stop position	Battery voltag
25 (B)	Ground	Ground	_	Ignition switch ON		0 V
26 (P)	_	CAN-L	Input/ Output		_	_

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		_	See Brown	Value
+ (vvire	-	Signal name	Input/ Output		Condition	(Approx.)
27 (L)	_	CAN-H	Input/ Output		_	
31	Ground	Cooling fan relay-4 control	Output	Cooling fan opera-	OFF	Battery voltage
(LG)	Giodila	Cooling lan relay-4 control	Output	tion	LO	0 - 1.0 V
32		Throttle control motor re-			kimately 2 seconds or more tion switch from ON to OFF	Battery voltage
(V)	Ground	lay control	Input	Ignition switch ONFor approximately tion switch from O	2 seconds after turning igni-	0 - 1.0 V
				Ignition switch OFF		0 V
33 (GR)	Ground	Fuel pump relay control	Input	1	Engine stopped	Battery voltage
(OII)				Ignition switch ON	Engine running	0.8 V
34 ^{*3}	0	Head awit-t	lees 1	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		Dell'es la 1910	0	Lighting switch OFF		0 V
(R)	Ground	Parking lamp (LH)	Output	Lighting switch 1ST		Battery voltage
39			_	Lighting switch OFF		0 V
(GR)	Ground	Parking lamp (RH)	Output	Lighting switch 1ST		Battery voltage
40			_	Ignition switch OFF or ACC		0 V
(BR)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
41				Ignition switch OFF or ACC		0 V
(O)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
42	_			-	Front wiper switch OFF	0 V
(L)	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch HI	Battery voltage
43					Front wiper switch OFF	0 V
(G)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch LO	Battery voltage
					Selector lever "P" or "N"	Battery voltage
45 (Y)	Ground	Starter relay power supply	Input	Ignition switch ON	Selector lever in any position other than "P" or "N"	0 V
46	Ground	Fuel pump relay power	Output	 After passing appr 	Ignition switch OFF or ACC After passing approximately 1 second or more after turning the ignition switch ON	
(W)	Ground	supply	Output	For approximately 1 second after turning the ignition switch ON Engine running		Battery voltage
47				After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
47 (BR)	Ground	ECM relay power supply	Output			Battery voltage
48					kimately 4 seconds or more tion switch from ON to OFF	0 V
48 (R)	Ground	ECM relay power supply	Output	Ignition switch ON For approximately tion switch from O	4 seconds after turning igni-	Battery voltage

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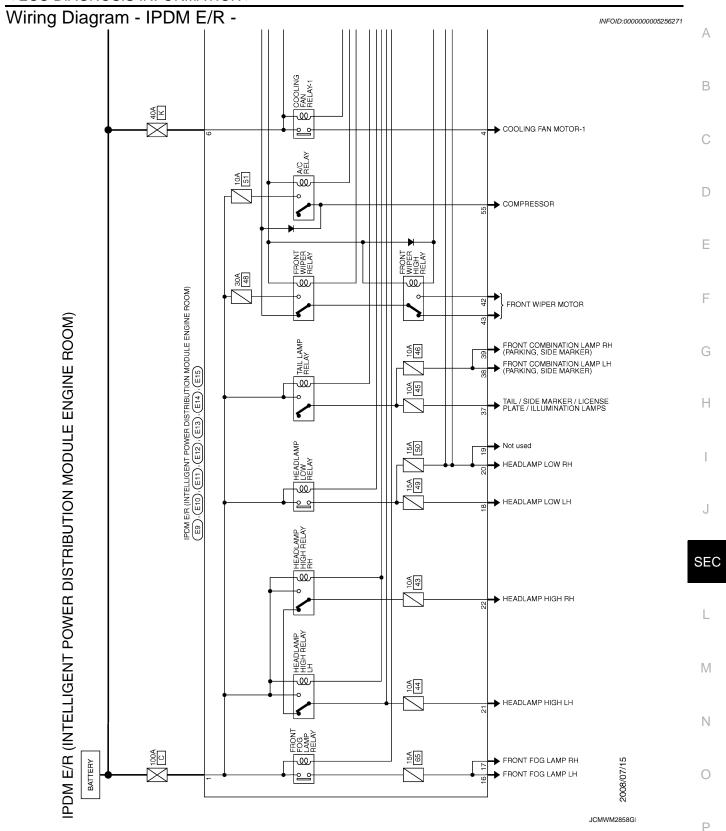
	nal No.	Description				Value	
+ (vvire	color)	Signal name	Input/ Output		Condition		
50	Crawad	Cooling for roles E control	Outnut	Cooling fan opera-	OFF	Battery voltage	
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V	
51					ximately 4 seconds or more tion switch from ON to OFF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

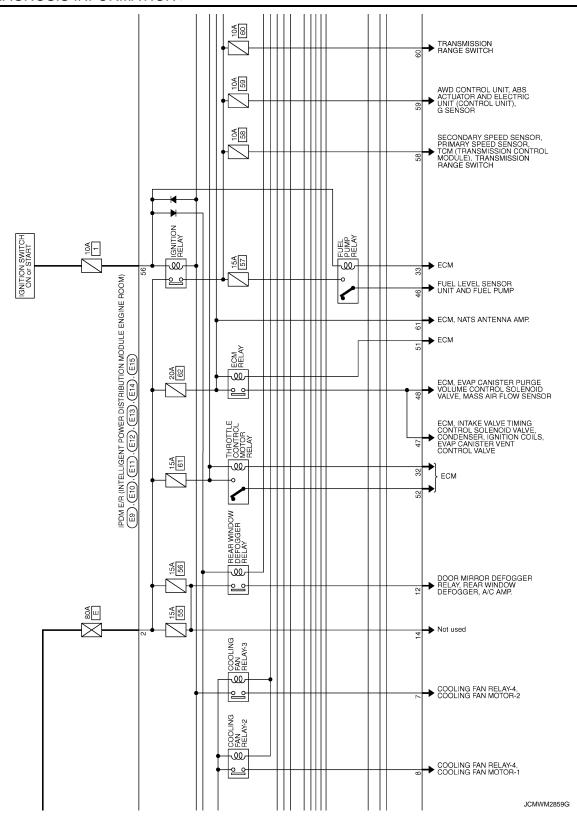
^{*1:} With daytime running light system

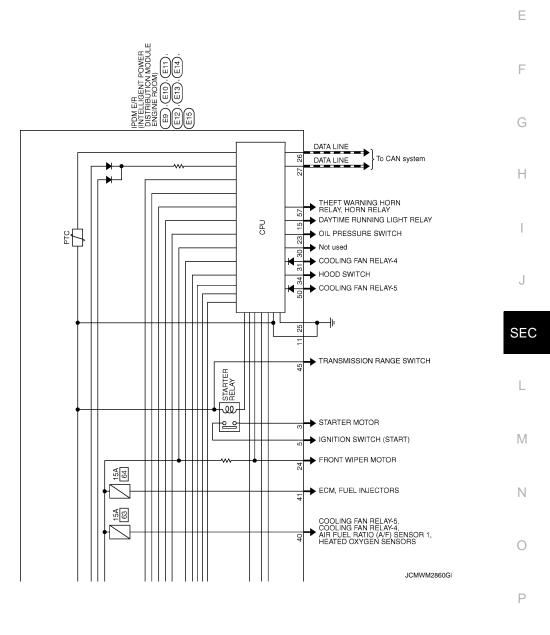
^{*2:} With front fog lamp system

^{*3:} For Mexico

< ECU DIAGNOSIS INFORMATION >







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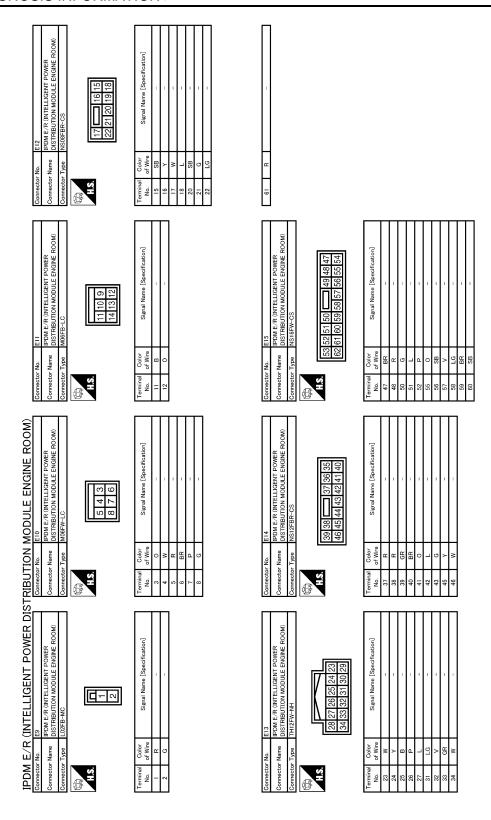
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< ECU DIAGNOSIS INFORMATION >



JCMWM2861G

Fail-safe

INFOID:0000000005256272

CAN COMMUNICATION CONTROL

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

If no CAN communication is available with ECM

< ECU DIAGNOSIS INFORMATION >

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

If no CAN communication is available with BCM

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

NOTE:

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

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

Dete	ection	IPDM E/R judgment	Operation
Ignition switch ON signal	Ignition relay	- IPDIVI E/K 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 stop position signal.

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

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^{*:} With daytime running light system

^{*:} With daytime running light system

< ECU DIAGNOSIS INFORMATION >

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

NOTE:

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

DTC Index INFOID:0000000005256273

CONSULT display	Fail-safe	Timing ^{NOTE}		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.

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SECURITY CONTROL SYSTEM

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SYMPTOM DIAGNOSIS

SECURITY CONTROL SYSTEM

Symptom Table

Function	Operation condition	Symptom	Reference page
VEHICLE SECURITY SYSTEM	Lock all doors with key fob	Vehicle security system can not be set	SEC-231
	Ignition switch turn OFF	Security indicator does not turn ON or flash	SEC-230
	In the armed phase, open the door	Vehicle security alarm does not activate	SEC-232
	When alarm sound, press key fob button	Vehicle security system can not be canceled	SEC-233

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SECURITY INDICATOR DOES NOT TURN ON OR FLASH

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SECURITY INDICATOR DOES NOT TURN ON OR FLASH

Description INFOID:000000005256275

NOTE:

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

Diagnosis Procedure

INFOID:0000000005256276

1. CHECK VEHICLE SECURITY INDICATOR

Check vehicle security indicator.

Refer to SEC-182, "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-40, "Intermittent Incident".

NO >> GO TO 1.

VEHICLE SECURITY SYSTEM CAN NOT BE SET

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Р

VEHICLE SECURITY SYSTEM CAN NOT BE SET Α Description INFOID:0000000005256277 NOTE: В • Before performing the diagnosis, check "Work Flow". Refer to SEC-6, "Work Flow". Diagnosis Procedure INFOID:0000000005256278 C 1. CHECK DOOR LOCK FUNCTION Check door lock function. D Refer to DLK-276, "System Description". s the inspection result normal? YES >> GO TO 2. Е NO >> Refer to DLK-272, "Work Flow". 2.CONFIRM THE OPERATION Confirm the operation again. F Is the result normal? YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident". NO >> GO TO 1. Н J SEC M Ν

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VEHICLE SECURITY ALARM DOES NOT ACTIVATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

VEHICLE SECURITY ALARM DOES NOT ACTIVATE

Description INFOID.000000005256279

NOTE:

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

Diagnosis Procedure

INFOID:0000000005256280

1. CHECK DOOR SWITCH

Check door switch.

Refer to SEC-177, "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-181, "Component Function Check".

Is the inspection results normal?

YES >> GO TO 3.

NO >> Repair or replace malfunction part.

3.CHECK HEADLAMP OPERATION

Check headlamp operation by lighting switch.

Does headlamp come on when turning switch ON?

YES >> GO TO 4.

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

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

VEHICLE SECURITY SYSTEM CAN NOT CANCELED

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Р

VEHICLE SECURITY SYSTEM CAN NOT CANCELED Α Description INFOID:0000000005256281 NOTE: В • Before performing the diagnosis, check "Work Flow". Refer to SEC-152, "Work Flow". Diagnosis Procedure INEOID:0000000005256282 C 1. CHECK MULTI REMOTE CONTROL SYSTEM Check multi remote control system. D Refer to DLK-281, "System Description". Is the inspection result normal? YFS >> GO TO 2. Е NO >> Check Work Flow. Refer to DLK-272, "Work Flow". 2.CONFIRM THE OPERATION Confirm the operation again. F Is the result normal? YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident". NO >> GO TO 1. Н J **SEC** M Ν

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PRECAUTION

PRECAUTIONS FOR USA AND CANADA

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision 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 AIR BAG".
- 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.

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

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

FOR MEXICO

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

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

WARNING:

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

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

WARNING:

• When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s)

PRECAUTIONS

< PRECAUTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

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

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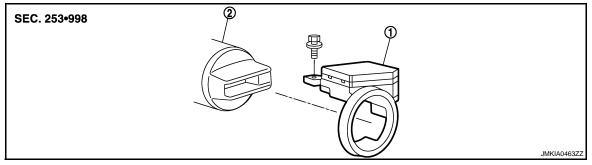
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REMOVAL AND INSTALLATION

NATS ANTENNA AMP.

Exploded View

INFOID:0000000005256284



1. NATS antenna amp.

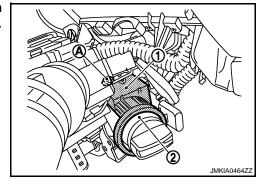
Steering lock assembly

Removal and Installation

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REMOVAL

- Remove the steering column cover. Refer to <u>IP-13</u>, "Removal and Installation".
- 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.