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FOR MEXICO	Removal and Installation

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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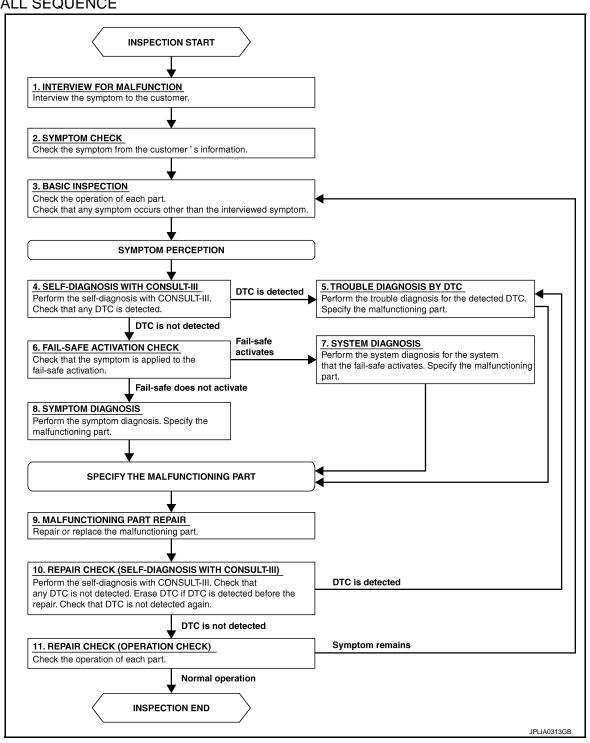
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OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 2.

2.SYMPTOM CHECK

Check the symptom from the customer's information.

>> GO TO 3.

3.BASIC INSPECTION

Check the operation of each part. Check that any symptom occurs other than the interviewed symptom.

>> GO TO 4.

4. SELF-DIAGNOSIS WITH CONSULT-III

Perform the self-diagnosis with CONSULT-III. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 6.

5. TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9.

6. FAIL-SAFE ACTIVATION CHECK

Check that the symptom is applied to the fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7.

NO >> GO TO 8.

7. SYSTEM DIAGNOSIS

Perform the system diagnosis for the system that the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9.

8. SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9.

9. MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

10. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT-III)

Perform the self-diagnosis with CONSULT-III. Check that any DTC is not detected. Erase DTC if DTC is detected before the repair. Check that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 11.

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

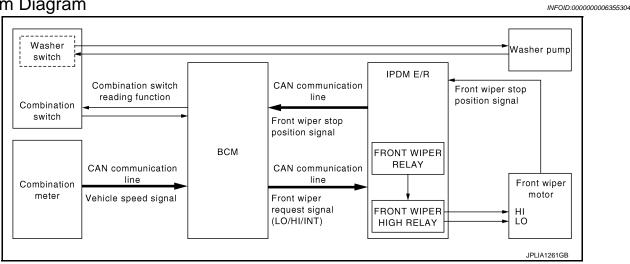
YES >> INSPECTION END

NO >> GO TO 3.

SYSTEM DESCRIPTION

FRONT WIPER AND WASHER SYSTEM

System Diagram



System Description

INFOID:0000000006355305

OUTLINE

The front wiper is controlled by each function of BCM and IPDM E/R.

Control by BCM

- Combination switch reading function
- Front wiper control function

Control by IPDM E/R

- Front wiper control function
- Relay control function

Combination meter indicates low washer fluid warning judged with the signal from the washer level switch. For details of low washer fluid warning, refer to MWI-27, "INFORMATION DISPLAY: System Description".

FRONT WIPER BASIC OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the front wiper request signal to IPDM E/R with CAN communication depending on each operating condition of the front wiper.
- IPDM E/R turns ON/OFF the integrated front wiper relay and the front wiper high relay according to the front wiper request signal. IPDM E/R provides the power supply to operate the front wiper HI/LO operation.

FRONT WIPER LO OPERATION

 BCM transmits the front wiper request signal (LO) to IPDM E/R with CAN communication according to the front wiper LO operating condition.

Front wiper LO operating condition

- Ignition switch ON
- Front wiper switch LO or front wiper switch MIST (while pressing)
- IPDM E/R turns ON the integrated front wiper relay according to the front wiper request signal (LO).

FRONT WIPER HI OPERATION

 BCM transmits the front wiper request signal (HI) to IPDM E/R with CAN communication according to the front wiper HI operating condition.

Front wiper HI operating condition

- Ignition switch ON
- Front wiper switch HI
- IPDM E/R turns ON the integrated front wiper relay and the front wiper high relay according to the front wiper request signal (HI).

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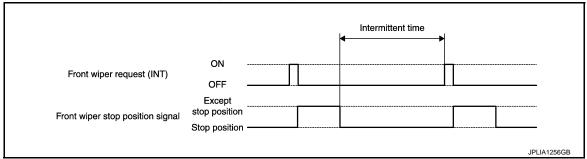
< SYSTEM DESCRIPTION >

FRONT WIPER INT OPERATION

 BCM transmits the front wiper request signal (INT) to IPDM E/R with CAN communication depending on the front wiper INT operating condition and intermittent operation delay interval according to the wiper intermittent dial position.

Front wiper INT operating condition

- Ignition switch ON
- Front wiper switch INT
- IPDM E/R turns ON the integrated front wiper relay so that the front wiper is operated only once according to the front wiper request signal (INT).
- BCM detects stop position/except stop position of the front wiper motor according to the front wiper stop
 position signal received from IPDM E/R with CAN communication.
- BCM transmits the front wiper request signal (INT) again after the intermittent operation delay interval.



NOTE:

Factory setting of the front wiper intermittent operation is the operation without vehicle speed. Front wiper intermittent operation can be set to the operation with vehicle speed by CONSULT-III. Refer to <a href="https://www.numer.consult-IIII.consultation.consult

Front wiper intermittent operation with vehicle speed

- BCM calculates the intermittent operation delay interval from the following.
- Vehicle speed signal (received from the combination meter with CAN communication)
- Wiper intermittent dial position

Unit: Second

		Intermittent operation delay Interval				
Wiper intermittent	Intermittent operation	Vehicle speed				
dial position	interval	0 – 5 km/h (0 – 3.1 MPH)	5 – 35 km/h (3.1 – 21.7 MPH)	35 – 65 km/h (21.7 – 40.4 MPH)*	65 km/h (40.4 MPH) or more	
1	Short	0.8	0.6	0.4	0.24	
2	1	4	3	2	1.2	
3		10	7.5	5	3	
4		16	12	8	4.8	
5		24	18	12	7.2	
6	↓	32	24	16	9.6	
7	Long	42	31.5	21	12.6	

^{*:} When without vehicle speed setting

FRONT WIPER AUTO STOP OPERATION

- BCM stops transmitting the front wiper request signal when the front wiper switch is turned OFF.
- IPDM E/R detects the front wiper stop position signal from the front wiper motor and detects the front wiper motor position (stop position/except stop position).

< SYSTEM DESCRIPTION >

 When the front wiper request signal is stopped, IPDM E/R turns ON the front wiper relay until the front wiper motor returns to the stop position.

Front wiper request (LO)	ON OFF	
Front wiper stop position signal	Except stop position Stop position	
Front wiper relay	ON OFF	
		JPLIA0410GB

NOTE:

- BCM stops the transmitting of the front wiper request signal when the ignition switch is OFF.
- IPDM E/R turns the front wiper relay OFF when the ignition switch is OFF.

FRONT WIPER OPERATION LINKED WITH WASHER

- BCM transmits the front wiper request signal (LO) to IPDM E/R with CAN communication according to the washer linked operating condition of the front wiper.
- BCM transmits the front wiper request signal (LO) so that the front wiper operates approximately 2 times when the front washer switch OFF is detected.

Washer linked operating condition of front wiper

- Ignition switch ON
- Front washer switch ON (0.4 second or more)
- IPDM E/R turns ON the integrated front wiper relay according to the front wiper request signal (LO).
- The washer pump is grounded through the combination switch with the front washer switch ON.

FRONT WIPER FAIL-SAFE OPERATION

IPDM E/R performs the fail-safe function when the front wiper auto stop circuit is malfunctioning. Refer to PCS-30, "Fail-safe".

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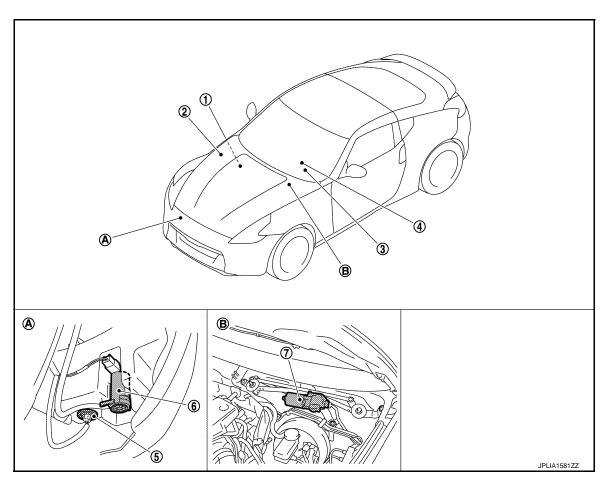
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Component Parts Location

INFOID:0000000006355306



- BCM
 Refer to BCS-9, "Component Parts
 Location"
- 4. Combination switch
- 7. Front wiper motor
- A. Radiator core support (RH)
- IPDM E/R
 Refer to PCS-6, "Component Parts
 Location"
- 5. Washer level switch
- B. Cowl top, left side of engine room
- 3. Combination meter
- 6. Washer pump

Component Description

INFOID:0000000006355307

Part	Description
BCM	 Judges each switch status by the combination switch reading function. Requests (with CAN communication) the front wiper relay and the front wiper high relay ON to IPDM E/R.
IPDM E/R	 Controls the integrated relay according to the request (with CAN communication) from BCM. Performs the auto stop control of the front wiper.
Combination switch (Wiper & washer switch)	Refer to BCS-10, "System Diagram".
Combination meter	Transmits the vehicle speed signal to BCM with CAN communication.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000006355308

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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.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	Read and save the vehicle specification.Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system salastion item	Diagnosis mode		
System	Sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
_	AIR CONDITONER*			
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

NOTE:

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT-III.

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

WIPER

WIPER: CONSULT-III Function (BCM - WIPER)

INFOID:0000000006355309

WORK SUPPORT

Service item	Setting item	Description		
WIPER SPEED	On	With vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper intermittent dial position)		
SETTING	Off*	Without vehicle speed (Front wiper intermittent time linked with the wiper intermittent dial position)		

^{*:}Factory setting

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description			
PUSH SW [Off/On]	The switch status input from push-button ignition switch.			
VEH SPEED 1 [km/h]	The value of the vehicle speed signal received from combination meter with CAN communication.			
FR WIPER HI [Off/On]				
FR WIPER LOW [Off/On]				
FR WASHER SW [Off/On]	Each switch status that BCM judges from the combination switch reading function.			
FR WIPER INT [Off/On]				
FR WIPER STOP [Off/On]	Front wiper motor (stop position) status received from IPDM E/R with CAN communication.			
INT VOLUME [1 – 7]	Each switch status that BCM judges from the combination switch reading function.			

ACTIVE TEST

Test item	Operation	Description
Hi Lo FR WIPER	Hi	Transmits the front wiper request signal (HI) to IPDM E/R with CAN communication to operate the front wiper HI operation.
	Transmits the front wiper request signal (LO) to IPDM E/R with CAN communication to operate the front wiper LO operation.	
	INT	Transmits the front wiper request signal (INT) to IPDM E/R with CAN communication to operate the front wiper INT operation.
Off		Stops transmitting the front wiper request signal to stop the front wiper operation.

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000006355310

AUTO ACTIVE TEST

Description

In auto active test mode, the IPDM E/R sends a drive signal to the following systems to check their operation.

- Oil pressure warning lamp
- Front wiper (LO, HI)
- Parking lamps
- License plate lamps
- Side maker lamps
- Tail lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan (cooling fan control module)

Operation Procedure

 Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)

NOTE:

When auto active test is performed with hood opened, sprinkle water on windshield beforehand.

- 2. Turn the ignition switch OFF.
- 3. Turn the ignition switch ON, and within 20 seconds, press the front door switch (driver side) 10 times. Then turn the ignition switch OFF.

CAUTION:

Close passenger door.

- 4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
- 5. The oil pressure warning lamp starts blinking when the auto active test starts.
- 6. After a series of the following operations is repeated 3 times, auto active test is completed.

NOTE:

When auto active test mode has to be cancelled halfway through test, turn the ignition switch OFF. **CAUTION**:

- If auto active test mode cannot be actuated, check door switch system. Refer to <u>DLK-87</u>. "Component Function Check".
- Do not start the engine.

Inspection in Auto Active Test Mode

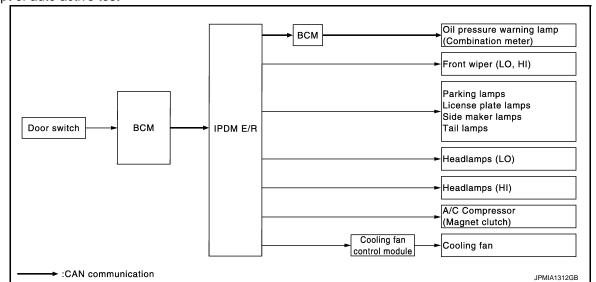
When auto active test mode is actuated, the following 6 steps are repeated 3 times.

Operation sequence	Inspection location	Operation	
1	Oil pressure warning lamp	Blinks continuously during operation of auto active test	
2	Front wiper	LO for 5 seconds → HI for 5 seconds	
3	Parking lamps License plate lamps Side maker lamps Tail lamps	10 seconds	
4	Headlamps	LO for 10 seconds → HI ON ⇔ OFF 5 times	
5	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times	
6*	Cooling fan	MID for 5 seconds → HI for 5 seconds	

^{*:} Outputs duty ratio of 50% for 5 seconds → duty ratio of 100% for 5 seconds on the cooling fan control module.

< SYSTEM DESCRIPTION >

Concept of auto active test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis chart in auto active test mode

Symptom	Inspection contents		Possible cause
		YES	BCM signal input circuit
Any of the following components do not operate Parking lamps License plate lamps Side maker lamps Tail lamps Headlamp (HI, LO) Front wiper (HI, LO)	Perform auto active test. Does the applicable system operate?	NO	Lamp or motor Lamp or motor ground circuit Harness or connector between IPDM E/R and applicable system IPDM E/R
A/C compressor does not operate	Perform auto active test. Does the magnet clutch operate?	YES	 Unified meter and A/C amp. signal input circuit CAN communication signal between unified meter and A/C amp. and ECM CAN communication signal between ECM and IPDM E/R
		NO	Magnet clutch Harness or connector between IPDM E/R and magnet clutch IPDM E/R
	Perform auto active test.	YES	Harness or connector between IPDM E/R and oil pressure switch Oil pressure switch IPDM E/R
Oil pressure warning lamp does not operate	Does the oil pressure warning lamp blink?	NO	CAN communication signal between IPDM E/R and BCM CAN communication signal between BCM and unified meter and A/C amp. Combination meter

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< SYSTEM DESCRIPTION >

Symptom	Inspection contents		Possible cause
		YES	ECM signal input circuit CAN communication signal between ECM and IPDM E/R
Cooling fan does not operate	Perform auto active test. Does the cooling fan operate?	NO	Cooling fan Harness or connector between cooling fan and cooling fan control module Cooling fan control module Harness or connector between IPDM E/R and cooling fan control module Cooling fan relay Harness or connector between IPDM E/R and cooling fan relay IPDM E/R

CONSULT-III Function (IPDM E/R)

INFOID:0000000006355311

APPLICATION ITEM

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

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

SELF DIAGNOSTIC RESULT

Refer to WW-82, "DTC Index".

DATA MONITOR

Monitor item

Monitor Item [Unit]	MAIN SIG- NALS	Description
RAD FAN REQ [%]	×	Displays the value of the cooling fan speed signal received from ECM via CAN communication.
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.
FR FOG REQ [Off/On]	×	NOTE: The item is indicated, but not monitored.
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper stop position signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.

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< SYSTEM DESCRIPTION >

Monitor Item [Unit]	MAIN SIG- NALS	Description
IGN RLY1 -REQ [Off/On]		Displays the status of the ignition switch ON signal received from BCM via CAN communication.
IGN RLY [Off/On]	×	Displays the status of the ignition relay judged by IPDM E/R.
PUSH SW [Off/On]		Displays the status of the push-button ignition switch judged by IPDM E/R.
INTER/NP SW [Off/On]		Displays the status of the clutch interlock switch (M/T models) or shift position (A/T models) judged by IPDM E/R.
ST RLY CONT [Off/On]		Displays the status of the starter relay status signal received from BCM via CAN communication.
IHBT RLY -REQ [Off/On]		Displays the status of the starter control relay signal received from BCM via CAN communication.
ST/INHI RLY [Off/ST ON/INHI ON/UNKWN]		Displays the status of the starter relay and starter control relay judged by IPDM E/R.
DETENT SW [Off/On]		Displays the status of the A/T shift selector (detention switch) judged by IPDM E/R.
S/L RLY -REQ [Off/On]		Displays the status of the steering lock relay request received from BCM via CAN communication.
S/L STATE [LOCK/UNLOCK/UNKWN]		Displays the status of the steering lock judged by IPDM E/R.
DTRL REQ [Off/On]		Displays the status of the daytime running light request signal received from BCM via CAN communication. NOTE: This item is monitored only the vehicle with daytime running light system.
OIL P SW [Open/Close]		Displays the status of the oil pressure switch judged by IPDM E/R.
HOOD SW [Off/On]		Displays the status of the hood switch judged by IPDM E/R.
HL WASHER REQ [Off/On]		NOTE: The item is indicated, but not monitored.
THFT HRN REQ [Off/On]		Displays the status of the theft warning horn request signal received from BCM via CAN communication.
HORN CHIRP [Off/On]		Displays the status of the horn reminder signal received from BCM via CAN communication.
CRNRNG LMP REQ [Off/On]		NOTE: The item is indicated, but not monitored.

ACTIVE TEST

Test item

Test item	Operation	Description	
	Off		
CORNERING LAMP	LH	NOTE: The item is indicated, but cannot be tested.	
	RH	The Rent to maleuted, but earned be today.	
HORN	On	Operates horn relay 1 and horn relay 2 for 20 ms.	
	Off	OFF	
FRONT WIPER	Lo	Operates the front wiper relay.	
	Hi	Operates the front wiper relay and front wiper high relay.	

< SYSTEM DESCRIPTION >

Test item	Operation	Description
	1	OFF
MOTOR FAN	2	Outputs 50% pulse duty signal (PWM signal) to the cooling fan control module.
WOTOR FAIN	3	Outputs 80% pulse duty signal (PWM signal) to the cooling fan control module.
	4	Outputs 100% pulse duty signal (PWM signal) to the cooling fan control module.
HEAD LAMP WASHER	On	NOTE: The item is indicated, but cannot be tested.
	Off	OFF
	TAIL	Operates the tail lamp relay and daytime running light relay. NOTE: Daytime running light relay is with daytime running light system only.
EXTERNAL LAMPS	Lo	Operates the headlamp low relay.
	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals.
	Fog	NOTE: The item is indicated, but cannot be tested.

WIPER AND WASHER FUSE

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

WIPER AND WASHER FUSE

Description INFOID:0000000006355312

Fuse list

Unit	Location	No.	Capacity
Front wiper motor	IPDM E/R	60	30 A
Washer pump	IPDM E/R	47	10 A

Diagnosis Procedure

INFOID:0000000006355313

1. CHECK FUSES

Check that the following fuses are not fusing.

Unit	Location	No.	Capacity
Front wiper motor	IPDM E/R	60	30 A
Washer pump	IPDM E/R	47	10 A

Is the fuse fusing?

YES >> Replace the fuse with a new one after repairing the applicable circuit.

NO >> The fuse is normal.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000006355314

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Signal name	Fuse and fusible link No.	
Battery power supply	К	
battery power suppry	10	

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

	Voltage		
(
В		(Approx.)	
Connector	Connector Terminal Ground		
M118	1	Glound	Battery voltage
M119	11		Ballery Vollage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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

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

1. CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible links are not blown.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Signal name	Fuses and fusible link No.
	С
Battery power supply	50
	51

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 the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- 3. Check voltage between IPDM E/R harness connector and the ground.

(+)			Voltage
IPDM E/R		(-)	(Approx.)
Connector	Connector Terminal		
E4	1	Ground	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between IPDM E/R harness connectors and the ground.

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E5	12	Giodila	Existed
E6	41		LXISIGU

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

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FRONT WIPER MOTOR LO CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT WIPER MOTOR LO CIRCUIT

Component Function Check

INFOID:0000000006355316

1. CHECK FRONT WIPER LO OPERATION

RIPDM E/R AUTO ACTIVE TEST

- Start IPDM E/R auto active test. Refer to <u>PCS-11, "Diagnosis Description"</u>.
- 2. Check that the front wiper operates at the LO operation.

(P)CONSULT-III ACTIVE TEST

- 1. Select "FRONT WIPER" of IPDM E/R active test item.
- 2. With operating the test item, check front wiper operation.

Lo : Front wiper (LO) operation

Off : Stop the front wiper.

Is front wiper (LO) operation normally?

YES >> Front wiper motor LO circuit is normal. NO >> Refer to <u>WW-20</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000006355317

1. CHECK FRONT WIPER MOTOR (LO) OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- 1. Turn the ignition switch OFF.
- 2. Disconnect front wiper motor connector.
- 3. Turn the ignition switch ON.
- 4. Select "FRONT WIPER" of IPDM E/R active test item.
- 5. With operating the test item, check voltage between IPDM E/R harness connector and ground.

Terminals		Test item		
(+)		(-)	rest item	Voltage (Approx)
IPDM	E/R		FRONT WIPER	Voltage (Approx.)
Connector	Terminal	Ground	TRONT WIFER	
E5	1	Giodila	Lo	Battery voltage
LJ	7		Off	0 V

Is the measurement value normal?

YES >> GO TO 2.

NO >> Replace IPDM E/R.

2.CHECK FRONT WIPER MOTOR (LO) OPEN CIRCUIT

- Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- 3. Check continuity between IPDM E/R harness connector and front wiper motor harness connector.

IPDM E/R		Front wiper motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
E5	4	E42	1	Existed

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3.CHECK FRONT WIPER MOTOR (LO) SHORT CIRCUIT

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

FRONT WIPER MOTOR LO CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E5	4		Not existed

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Does continuity exist?

YES >> Repair the harness or connector.

NO >> Replace front wiper motor.

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FRONT WIPER MOTOR HI CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT WIPER MOTOR HI CIRCUIT

Component Function Check

INFOID:0000000006355318

1. CHECK FRONT WIPER HI OPERATION

®IPDM E/R AUTO ACTIVE TEST

- 1. Start IPDM E/R auto active test. Refer to PCS-11, "Diagnosis Description".
- 2. Check that the front wiper operates at the HI operation.

(P)CONSULT-III ACTIVE TEST

- 1. Select "FRONT WIPER" of IPDM E/R active test item.
- 2. With operating the test item, check front wiper operation.

Hi : Front wiper (HI) operation

Off : Stop the front wiper.

Is front wiper (HI) operation normally?

YES >> Front wiper motor HI circuit is normal. NO >> Refer to <u>WW-22</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000006355319

1. CHECK FRONT WIPER MOTOR (HI) OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- 1. Turn the ignition switch OFF.
- 2. Disconnect front wiper motor connector.
- 3. Turn the ignition switch ON.
- 4. Select "FRONT WIPER" of IPDM E/R active test item.
- 5. With operating the test item, check voltage between IPDM E/R harness connector and ground.

Terminals		Test item		
(+)		(-)	rest item	Voltage (Approx.)
IPDM	IPDM E/R		FRONT WIPER	
Connector	Terminal	Ground	TRONT WIFER	
E5	5	Giodila	Hi	Battery voltage
LJ	3		Off	0 V

Is the measurement value normal?

YES >> GO TO 2.

NO >> Replace IPDM E/R.

2.CHECK FRONT WIPER MOTOR (HI) OPEN CIRCUIT

- Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- 3. Check continuity between IPDM E/R harness connector and front wiper motor harness connector.

IPDM E/R		Front wiper motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
E5	5	E42	4	Existed

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3.CHECK FRONT WIPER MOTOR (HI) SHORT CIRCUIT

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

FRONT WIPER MOTOR HI CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E5	5		Not existed

Α

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Does continuity exist?

YES >> Repair the harness or connector.

NO >> Replace front wiper motor.

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FRONT WIPER AUTO STOP SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT WIPER AUTO STOP SIGNAL CIRCUIT

Component Function Check

INFOID:0000000006355320

1. CHECK FRONT WIPER (AUTO STOP) SIGNAL

(E)CONSULT-III DATA MONITOR

- I. Select "WIP AUTO STOP" of IPDM E/R data monitor item.
- Operate the front wiper.
- 3. With the front wiper operation, check the monitor status.

Monitor item	Condition		Monitor status
WIP AUTO STOP	Front wiper	Stop position	STOP P
WIF AUTO STOP	motor	Except stop position	ACT P

Is the status of item normal?

YES >> Auto stop signal circuit is normal.

NO >> Refer to <u>WW-24, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000006355321

1.CHECK FRONT WIPER MOTOR (AUTO STOP) OUTPUT VOLTAGE

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

(1	+)	(-)	Voltage (Approx.)
IPDM E/R			voltage (Approx.)
Connector	Connector Terminal		
E5	16		Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK FRONT WIPER MOTOR (AUTO STOP) SHORT CIRCUIT

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

IPDN	/I E/R		Continuity
Connector	Terminal	Ground	Continuity
E5	16		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace IPDM E/R.

${f 3.}$ CHECK FRONT WIPER MOTOR (AUTO STOP) CIRCUIT CONTINUITY

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

FRONT WIPER AUTO STOP SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

IPDM E/R		Front wiper motor		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
E5	16	E42	5	Existed	

Α

Does continuity exist?

YES >> Replace front wiper motor.

NO >> Repair the harnesses or connectors.

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FRONT WIPER MOTOR GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT WIPER MOTOR GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000006355322

1. CHECK FRONT WIPER MOTOR (GND) OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect front wiper motor connector.
- 3. Check continuity between front wiper motor harness connector and ground.

Front wip	per motor	Continuity	
Connector	Terminal	Ground	Continuity
E42	2		Existed

Does continuity exist?

YES >> Front wiper motor ground circuit is normal.

NO >> Repair the harnesses or connectors.

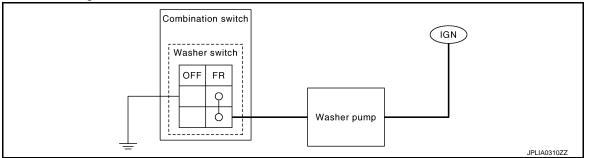
WASHER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

WASHER SWITCH

Description INFOID:0000000006355323

Washer switch is integrated with combination switch.



Component Inspection

INFOID:0000000006355324

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1. CHECK WIPER SWITCH

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

Combination switch Terminal		Condition	Continuity
		Condition	Continuity
1	6	Front washer switch ON	Existed

Does continuity exist?

YES >> Wiper and washer switch is normal.

NO >> Replace combination switch (Wiper and washer switch).

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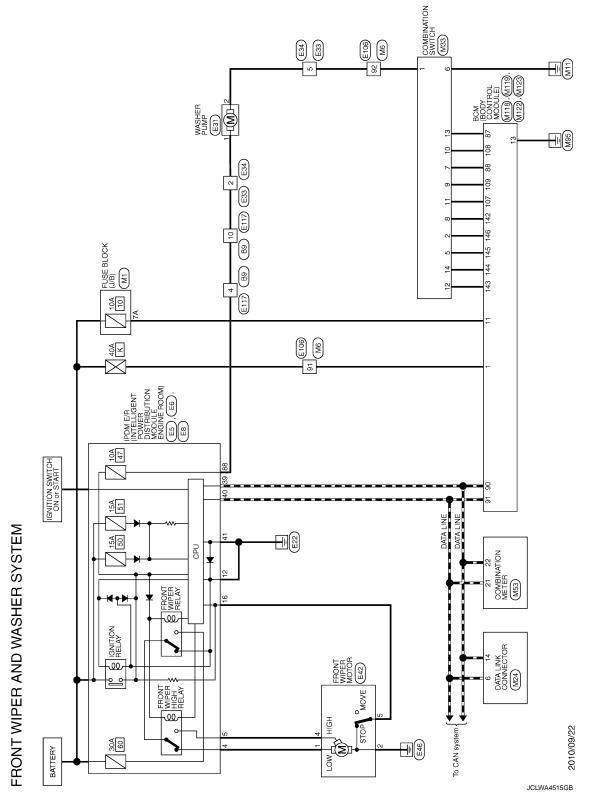
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Wiring Diagram - FRONT WIPER AND WASHER SYSTEM -



< DTC/CIRCUIT DIAGNOSIS >

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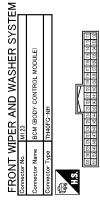
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₹ □ □ □	of Wire	0 88 C × 8 × × 8 × 1 × 6 8 C	GR BG WW
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< DTC/CIRCUIT DIAGNOSIS >

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Signal Name [Specification] BAT (F/L) POWER WINDOW POWER SUPPLY (GAT) POWER WINDOW POWER SUPPLY (GAT) BCM (GODY CONTROL MODULE) INSIGNA-CS Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] ALL DOOR FUEL LID LOGK OUTPUT BAT (FUSE) ALL DOOR FUEL LID LOGK OUTPUT BAT (FUSE) ALL DOOR FUEL LID LOGK OUTPUT BAT (FUSE) TURN SIGNAL HE (FORM TSUE) THAOFE-NH ROOM LAMP TIMER CONTROL ROOM ANT 2- ROOM ANT 3- R	Е
Signal Name (Specification) BAT (F.1.) POWER WINDOW POWER SUPPLY (BAT) POWER WINDOW POWER SUPPLY (BAT) BOM (BODY CONTROL MODULE) NS16FW-CS Signal Name [Specification] INTERIOR ROOM LAMP POWER SUPPLY ALL DOOR, FUEL LID LOCK OUTPUT BAT (FUSE) BAT (FUSE) FOOD NATE ROOM LAMP TIMER CONTROL ROOM ANT 2* ROOM ANT 2* FOOD ANT 3* F	F
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132	Υ	POWER WINDOW SW COMINI LOUDE ITIOUEIST,
133	g	PUSH BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND
137	Ь	RECEIVER/SENSOR GND
138	^	RECEIVER / SENSOR POWER SUPPLY
139	٦	TIRE PRESS/KYLS ENT (REAR) RECEIV COMM
140	g	P/N POSITION SW [With M/T]
140	g	SHIFT N/P [With A/T]
141	Υ	SECURITY INDICATOR
142	0	COMBI SW OUTPUT 5
143	Ь	COMBI SW OUTPUT 1
144	g	COMBI SW OUTPUT 2
145	٦	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	5	REAR WINDOW DEFOGGER RELAY CONT

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FR WIFER HI	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED STOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI GIONIAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
U.S.A.D. I. AAAD OVA 4	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
UEAD LAMB 01/4 0	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA 001N10 01N1	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUIT OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Rear fog lamp switch OFF	Off
RR FOG SW	Rear fog lamp switch ON	On
D00D 0W D5	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
D00D0W46	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	Back door closed (Coupe models) Trunk lid closed (Roadster models)	Off
DOOR SW-BR	Back door opened (Coupe models) Trunk lid opened (Roadster models)	On
CDL LOCK SW	Other than door lock and unlock switch LOCK	Off
CDL LOCK SVV	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
CDL UNLOCK SW	Door lock and unlock switch UNLOCK	On
KEN ONLIN OM	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEN ON LIN ON	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
LIAZADD OW	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
NOTE: For models with NAVI this item is not monitored.	Rear window defogger switch ON	On
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
TD OANIOEL OW	Trunk lid opener cancel switch OFF	Off
TR CANCEL SW	Trunk lid opener cancel switch ON	On
TD/DD ODEN OW	Back door opener switch OFF (Coupe models) Trunk lid opener switch OFF (Roadster models)	Off
TR/BD OPEN SW	While the back door opener switch is turned ON (Coupe models) While the trunk lid opener switch is turned ON (Roadster models)	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
DKE LOCK	LOCK button of the Intelligent Key is not pressed	Off
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On
DVE LINI OOK	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
NOTE: For Coupe models this item is not monitored.	TRUNK OPEN of the Intelligent Key is pressed	On
DIVE DANIE	PANIC button of the Intelligent Key is not pressed	Off
RKE-PANIC	PANIC button of the Intelligent Key is pressed	On
DIVE DAY COOK	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On
DVE MODE CUO	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
DEO CW. DD	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
DEO CW AC	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed (Coupe models) Trunk lid door request switch is not pressed (Roadster models)	Off
KEQ SW -DD/TK	Back door request switch is pressed (Coupe models) Trunk lid door request switch is pressed (Roadster models)	On
DUSH SW	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
ION DIVO 5/D	Ignition switch in OFF or ACC position	Off
IGN RLY2 -F/B	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	The clutch pedal is not depressed	Off
NOTE: For A/T models this item is not monitored.	The clutch pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
DETE/CANCL SW NOTE:	Selector lever in P position (A/T models) The clutch pedal is depressed (M/T models without SynchroRev Match mode)	Off
For M/T models with Synchro- Rev Match mode this item is not monitored.	Selector lever in any position other than P (A/T models) The clutch pedal is not depressed (M/T models without SynchroRev Match mode)	On
SFT PN/N SW NOTE: For roadster M/T models and	 Selector lever in any position other than P and N (A/T models) Control lever in any position other than neutral position (Coupe M/T models with SynchroRev Match mode) 	Off
coupe M/T models without SynchroRev Match mode this item is not monitored.	Selector lever in P or N position (A/T models) Control lever in neutral position (Coupe M/T models with SynchroRev Match mode)	On
S/L -LOCK	Steering is unlocked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
NOTE: For models without steering lock unit, this item is not monitored.	Ignition switch in ON position	On
UNLK SEN -DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	 Selector lever in any position other than P and N (A/T models) The clutch pedal is not depressed (M/T models) 	Off
	 Selector lever in P or N position (A/T models) The clutch pedal is depressed (M/T models) 	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
NOTE: For models without steering ock unit, this item is not monitored.	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On
S/L RELAY-REQ NOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
For models without steering lock unit, this item is not monitored.	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speedom eter reading
VEH SPEED 2	While driving	Equivalent to speedom eter reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
ID OK FLAG	Steering is locked	Reset
ID OK FLAG	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
FRIII ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
KET SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
CONFOMIDALI	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIDM ID 4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFIRM ID1	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TD /	The ID of fourth Intelligent Key is not registered to BCM	Yet
TP 4	The ID of fourth Intelligent Key is registered to BCM	Done
TD 0	The ID of third Intelligent Key is not registered to BCM	Yet
TP 3	The ID of third Intelligent Key is registered to BCM	Done
TDO	The ID of second Intelligent Key is not registered to BCM	Yet
TP 2	The ID of second Intelligent Key is registered to BCM	Done
TD 4	The ID of first Intelligent Key is not registered to BCM	Yet
TP 1	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID DECCT EL 4	ID of front LH tire transmitter is registered	Done
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet

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Monitor Item	Condition	Value/Status
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGST FRT	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGOT KRT	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID REGST RLT	ID of rear LH tire transmitter is not registered	Yet
MADNING LAMD	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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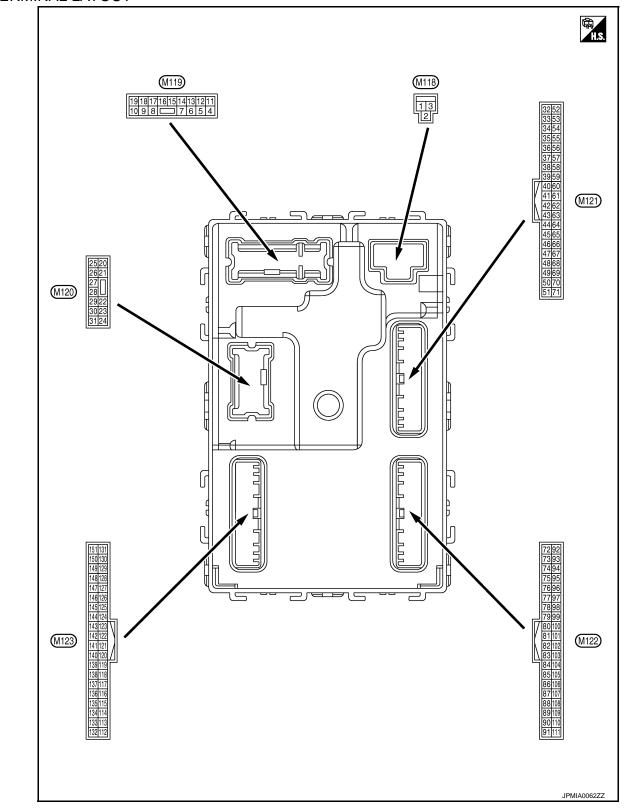
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TERMINAL LAYOUT



PHYSICAL VALUES

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	nal No.	Description				Value			
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)			
1 (W)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage			
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch (DFF	12 V			
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch (ON	12 V			
					mp battery saver is activated. or room lamp power supply)	0 V			
4 (R)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V			
5	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V				
(G)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V			
8	Crownd	All doors, fuel lid	All doors, fuel lid	All doors, fuel lid	All doors, fuel lid	Outnut	All doors, fuel	LOCK (Actuator is activated)	12 V
(V)	Ground	LOCK	Output	lid	Other than LOCK (Actuator is not activated)	0 V			
9	Crownd	Driver door, fuel lid	Outnut	Driver door,	UNLOCK (Actuator is activated)	12 V			
(G)	Ground	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V			
11 (BR)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage			
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V			
					OFF	0 V			
14 (R)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position. (V) 10 0 JSNIA0010GB			
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated) ACC	Battery voltage			

Input/ Output		Condition Turn signal switch OFF	Value (Approx.) 0 V
		Turn signal switch OFF	0 V
Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
		Turn signal switch OFF	6.5 V 0 V
Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0
Output	Interior room	OFF	PKID0926E 6.5 V 12 V
Juiput	lamp	ON	0 V
	,	Turn signal switch OFF	0 V
Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
	Pook door/	OPEN (Back door/Trunk lid opener actuator is activated)	6.5 V 12 V
Output	Trunk lid	Other than OPEN (Back door/Trunk lid opener actuator is not activated)	0 V
Outout	Rear fog lamp	OFF	0 V
- 1		ON	12 V
		Turn signal switch OFF	0 V
Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0
	Luggage room/	ON	6.5 V 0 V
	Output Output Output Output	Output Ignition switch ON Output Interior room lamp Output Ignition switch ON Output Back door/ Trunk lid Output Rear fog lamp	Dutput Interior room lamp OFF ON Turn signal switch OFF Output Interior room lamp OFF ON Turn signal switch OFF ON Turn signal switch OFF ON Turn signal switch OFF ON Turn signal switch OFF ON Turn signal switch OFF Output Back door/ Trunk lid OPEN (Back door/Trunk lid opener actuator is activated) Other than OPEN (Back door/Trunk lid opener actuator is not activated) Output Rear fog lamp OFF ON Turn signal switch OFF

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
34		Luggage room/Trunk		lanition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(G)	Ground	room antenna (-)	Output	Output Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1
35	Ground	Luggage room/Trunk	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	J. G.	room antenna (+)	Guipui	" OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
38	Ground	Rear bumper anten-	Output	When the back door/trunk lid door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(B)	Giound	na (–)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	nal No. color)	Description	T		Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
39		Rear bumper anten-		When the back door/trunk lid door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S S S S S S S S S
(W)	Ground	na (+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
47	Cround	Ignition relay (IPDM	Output	Ignition quitab	OFF or ACC	12 V
(V)	Ground	E/R) control	Output	Ignition switch	ON	0 V
				Ignition switch ON (A/T mod-	When selector lever is in P or N position	12 V
52	0	Otantan rake water	Out	els)	When selector lever is not in P or N position	0 V
(SB)	Ground	Starter relay control	Output	Ignition switch	When the clutch pedal is depressed	Battery voltage
				ON (M/T mod- els)	When the clutch pedal is not depressed	0 V
					ON (Pressed)	0 V
61 (W)	Ground	Back door/Trunk Lid door request switch	Input	Back door/ Trunk lid door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
64	Ground	Intelligent Key warn-	Output	Intelligent Key	Sounding	0 V
(G)	Giouria	ing buzzer	Output	warning buzzer	Not sounding	12 V
66 (R)	Ground	Back door/Trunk room lamp switch	Input	Back door/ Trunk room lamp switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
						11.8 V
			1	İ	ON (Door open)	0 V

	nal No.	Description				Value		
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)		
67 (GR)	Ground	Back door/Trunk lid opener switch	Input	Back door/ Trunk lid open- er switch	Not pressed	0 V (V) 15 10 5 0 JPMIA0011GB 11.8 V		
72	Ground	Room antenna 2 (–)	Output			Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(L)		(Center console)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB		
73	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB		
(P)	Giouna	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB		

	nal No.	Description				Value	А	
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)	^	
74	Ground	Passenger door an-	Quitout	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C	
(SB)	Glound	tenna (-)		Supul	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	E F
75	Constant	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	G H	
(BR)	Ground	tenna (+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	J K	
76	Crowd	Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M	
(V)	Ground	(-)	Output	switch 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 JMKIA0063GB	O P	

	nal No.	Description				Value			
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)			
77		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB			
(LG)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB			
78* ²	Ground	Room antenna 1 (–)			Output	Quitout	Output Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(L)	Godile	(Instrument panel)	Сири	OFF	Whe in th	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB		
79* ²	Ground	Room antenna 1 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB			
(R)	Giodila	(Instrument panel)	Сири	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB			

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
		Remote keyless entry		During waiting		(V) 15 10 5 1 ms JMKIA0064GB
83 (GR	Ground	receiver (front) communication	Input/ Output	When operating gent Key	geither button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	Rear fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0041GB
88	Ground	Combination switch	Input	Combination switch	Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
(V)	(V) Glouiu INP	' INPUT 3 "			Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
89	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)	2.344	switch (Push switch)		(push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output		_	_
91 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s
					ON	6.5 V 12 V

	nal No. color)	Description	T		0 100	Value
+ (vvire	–	Signal name	Input/ Output		Condition	(Approx.)
93	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(V)					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Ground	ACC relay control	Output	ignition switch	ACC or ON	12 V
96* ³ (Y)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97*4	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Ciodila	tion No. 1	Прис	Oteening look	UNLOCK status	12 V
98*4	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)	Cround	tion No. 2	input	Ottooning look	UNLOCK status	0 V
		Selector lever P posi-		0.1	P position	0 V
		tion switch (A/T mod- els)		Selector lever	Any position other than P	12 V
99* ⁵ (R)	Ground	Clutch pedal position switch (M/T models	Input	Clutch pedal	OFF (Clutch pedal is depressed)	0 V
		without SynchroRev Match mode)		position switch	ON (Clutch pedal is not depressed)	Battery voltage
					ON (Pressed)	0 V
100 (GR)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (Y)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102		Blower fan motor re-			OFF or ACC	0 V
(O)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver (front) power supply	Output	Ignition switch C		12 V
106* ⁴		Steering lock unit	a :		OFF or ACC	12 V
(W)	Ground	power supply	Output	Ignition switch	ON	0 V

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

< ECU DIAGNOSIS INFORMATION >

	Terminal No. (Wire color) Description			Value	А		
+ (vvire	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C D
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	E F
108 (R) Groui	Ground	Ground Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	1.3 V (V) 15 10 2 ms JPMIA0036GB 1.3 V	G H
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	(V) 15 10 5 0 2 ms	J K
						ЈРМIА0039GВ 1.3 V	WV

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	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					ON	0 V
110 (P)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V

Terminal No. Description (Wire color)		<u></u>		Value		
+ (Wire	-	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111* ⁴ (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
113	Cround	Ontical concer	lanut	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V
114* ⁶	One week	Clutch interlock	laavit	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground	switch	Input	switch	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	Crownd	Stor love quitab 2	lanut	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(P)	Ground	Stop lamp switch 2	Input	switch	ON (Brake pedal is depressed)	Battery voltage
	Driver side door lock assembly (Unlock sensor)	ssembly (Unlock Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB	
				UNLOCK status (Unlock switch sensor ON)	0 V	
121	Ground	Key slot switch	Innut	When the Intellig	gent Key is inserted into key	12 V
(R)	Giouria	Rey SIOL SWILCH	Input	When the Intellig	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)	Ciodila	.5.1.10000000	put	.g	ON	Battery voltage

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
129* ² (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	0 V
130* ⁷ (L)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF Rear window defogger	(V) 15 10 5 10 ms JPMIA0012GB 1.1 V
132 (Y)* ¹ (V)* ²	Ground	Power window switch and soft top control unit communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	DEE or ACC	10.2 V 12 V
-		<u> </u>		.g.m.on ownor	ON (Tail lamps OFF)	9.5 V
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5 0 JPMIA0159GB
					OFF	0 V

Terminal No. (Wire color)		Description				Value	
+ (vvire	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)	
134	Ground	LOCK indicator lama	Outout	LOCK indicator	OFF	Battery voltage	
(GR)	Ground	LOCK indicator lamp	Output	lamp	ON	0 V	
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch C	DN	0 V	
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V	
(V)	Cround	power supply	Output	ignition switch	ACC or ON	5.0 V	
		Ignition switch OFF (Remote key-	During waiting	(V) 15 10 5 0 JMKIA0064GB			
	Ground		Input/ Output	less entry re- ceiver communica- tion)	When operating either button on the Intelligent Key	(V) 15 10 1 ms JMKIA0065GB	
			Output	Ignition switch ON (Tire pressure receiver com- munication)	Standby state	(V) 6 4 2 0 ** 0.2s	
					When receiving the signal from the transmitter	(V) 6 4 2 0 + 0.2s OCC3880D	
		Selector lever P/N		Colooter lever	P or N position	12 V	
		position (A/T models)		Selector lever	Except P and N positions	0 V	
140* ⁸ (G)	Ground	Park/neutral position switch (Coupe M/T	Input	Ignition switch	Control lever in neutral position	Battery voltage	
		models with Synchro- Rev Match mode)		ON	Control lever in any position other than neutral	0 V	

Terminal No. (Wire color)		Description				Value
+	- COIOI)	Signal name	Input/ Output		Condition	(Approx.)
141 (Y)	Ground	Security indicator lamp	Output	Security indicator lamp	ON	0 V (V) 15 10 1
					OFF	12 V
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	0 V (V) 15 10 5 0 2 ms JPMIA0031GB 10.7 V
					All switches OFF (Wiper intermittent dial 4)	0 V
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB
					All switches OFF (Wiper intermittent dial 4)	0 V
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Front washer switch ON (Wiper intermittent dial 4) Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0033GB 10.7 V
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF Front wiper switch INT Front wiper switch LO Lighting switch AUTO Rear fog lamp switch ON	0 V (V) 15 10 2 ms JPMIA0034GB 10.7 V

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value	
(Wire	color)	Signal name	Input/ Output	Condition (Approx.)			
					All switches OFF	0 V	
					Lighting switch 2ND		
				Combination	Lighting switch PASS	(V)	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit- tent dial 4)	Turn signal switch LH	10 5 0 2 ms JPMIA0035GB	
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (Door open)	0 V	
151	Ground	Rear window defog-	Output	Rear window	Active	0 V	
(G)	Ground	ger relay control	Output	defogger	Not activated	Battery voltage	

- *1: Coupe models
- *2: Roadster models
- *3: A/T models
- *4: With steering lock unit
- *5: Except M/T models with SynchroRev Match mode
- *6: M/T models
- *7: Without NAVI
- *8: A/T models or coupe M/T models without SynchroRev Match mode

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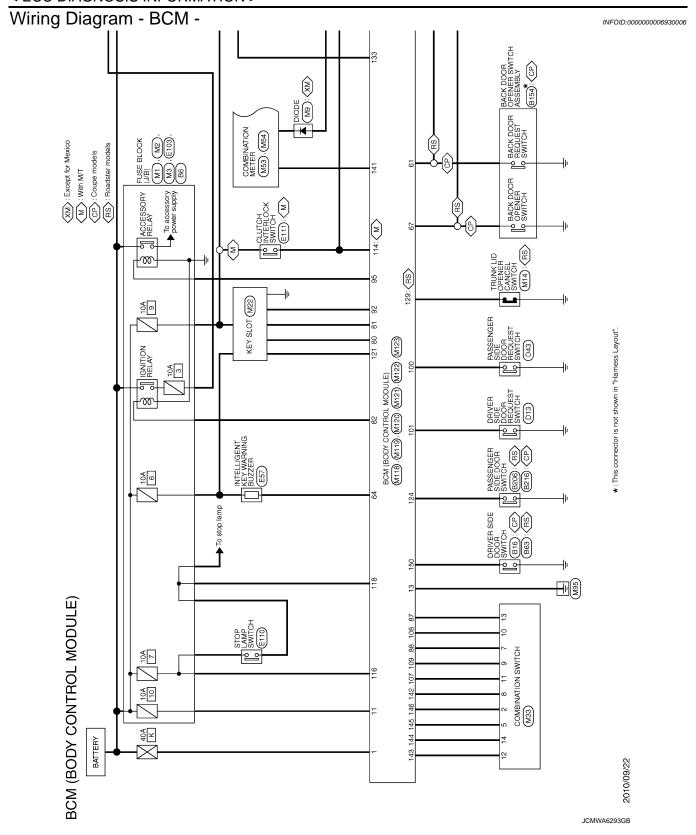
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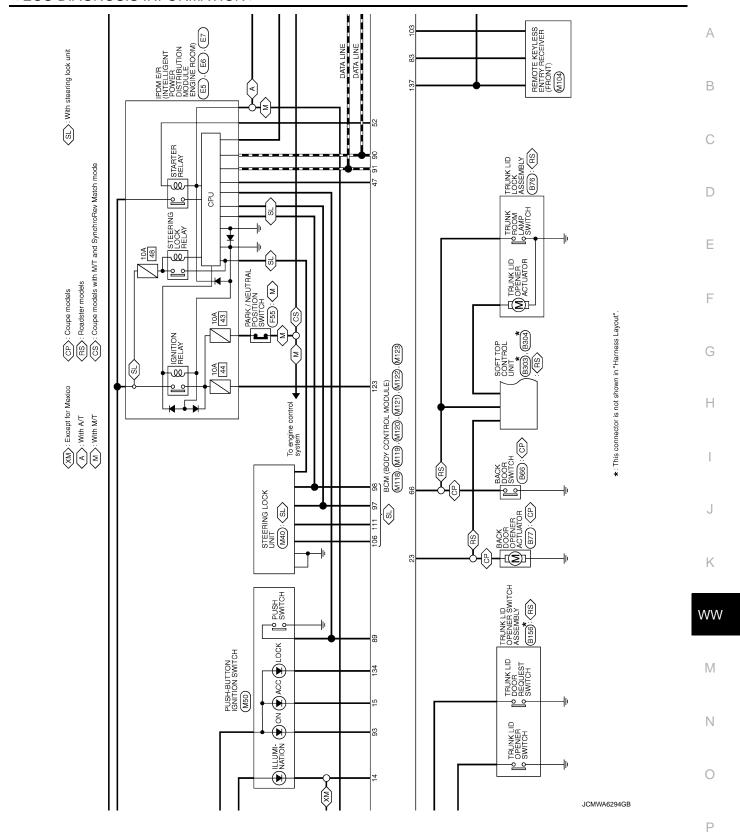
M

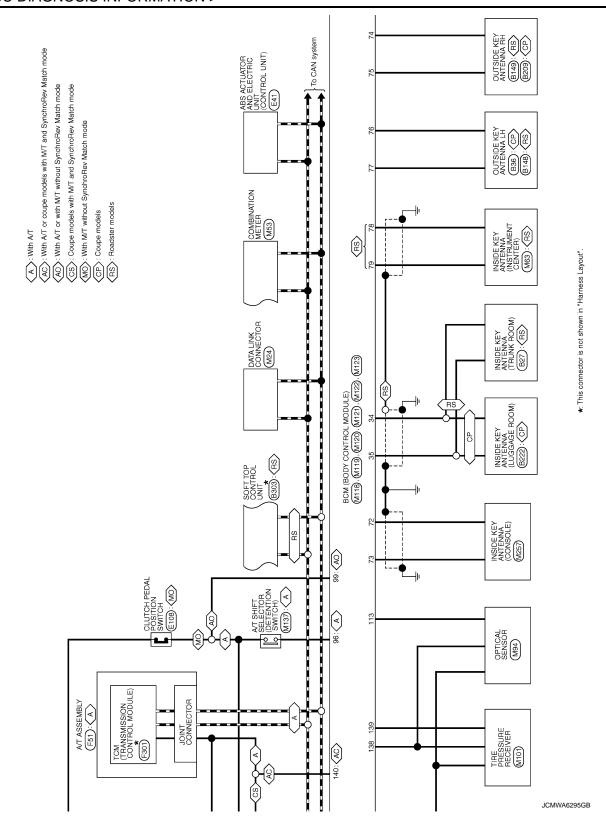
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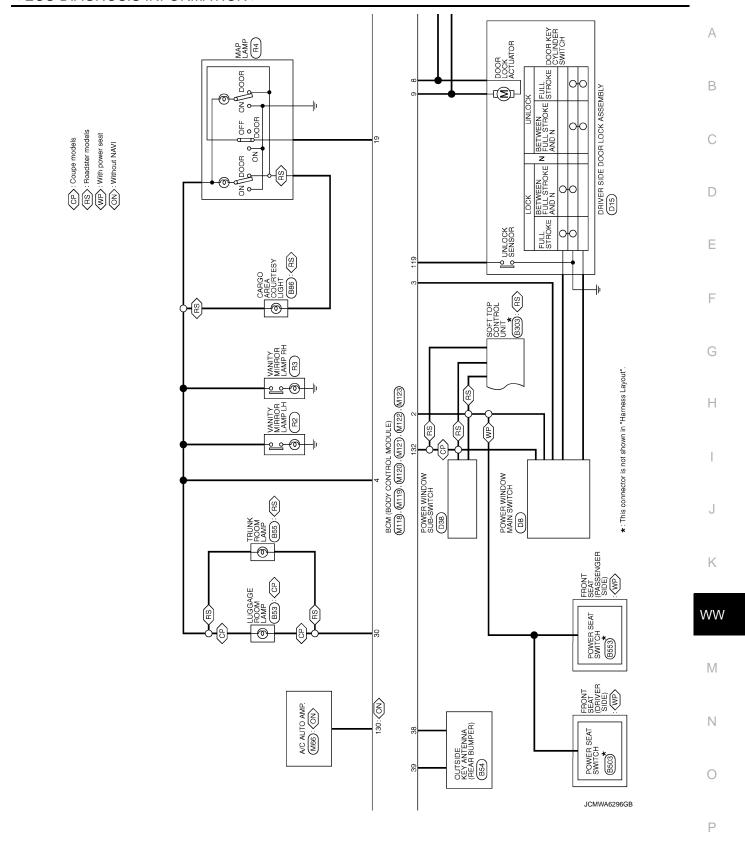
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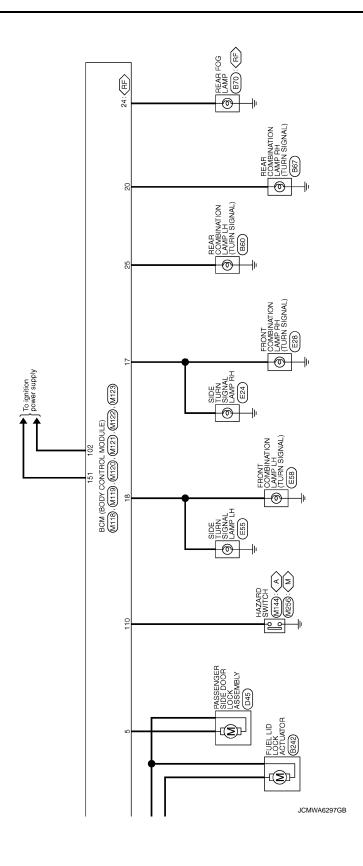








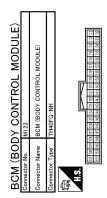




< ECU DIAGNOSIS INFORMATION >

0.1T 0.NT) COMM 1.0T 1.0T 1.0T 1.0T 1.0T 1.0T 1.0T 1.0T	А
IGN RELAY COMT KYLS ENT RECEIVER (FRON) TOMM COMEL SWI INPUT 5 COMEL SWI INPUT 15 COMEL SWI INPUT 15 CAN+1 KYLS SLOT ILL ON IND ACT SHIFT PELVEY SWI INPUT 1 SL. CONDITION 1 CLUTCH FEDLA DOOR REQUEST SWI INPUT 1 COMEL SWI INPUT 1 COMEL SWI INPUT 1 COMEL SWI INPUT 2 COMEL SWI INPUT 2 COMEL SWI INPUT 2 COMEL SWI INPUT 2 SL. UNIT FOOM SWI SWI INPUT 3 SL. UNIT FOOM SWI SWI INPUT 3 SL. UNIT FOOM SWI SWI INPUT 3 SL. UNIT FOOM SWI	В
N	С
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	D
NOL MODULE) SERVING S	Е
	F
	G
Connector Na Connector Na Connector Try	Н
NS 16FW-CS Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] NUTERIOR ROOM LAMP POWER SUPPLY ALL DOOK PEIGL LID LOCK OUTPUT DRIVER DOOR FLIEL LID LOCK OUTPUT BAT (FUSE) ACD BOOK FLIEL LID LOCK OUTPUT DRIVER DOOR FLIEL LID LOCK OUTPUT ALL BOOK FLIEL LID LOCK OUTPUT BAT (FUSE) ACD BOOK CONTROL MODULE) NISTEM-CS Signal Name [Specification] TURN SIGNAL LH (FREAT) TURN SIGNAL LH (FREAT) LUGGAGE ROOM LAMP OUTPUT TURN SIGNAL LH (FREAT) LUGGAGE ROOM LAMP OUTPUT TURN SIGNAL LH (FREAT)	I
BCM (BODY CONTROL MODULE)	J
Connector No Connector No Connector Name Connector Type No Connector Type No Connector Name	K
	WW
Connector Name Connector Name Connector Name Connector Name Connector Type THIGFW-NH	М
M33	N
Commetter Type Comm	0
□ [] [] [] [] [] [] [] [] [] [
	Р

Revision: 2011 October WW-63 2011 370Z



113 O OPTICAL SENSOR 114 R CLUTCH INTERLOCK SW 115 O SHOOK SENSOR 116 SB STOP LAMP SW 119 SB STOP LAMP SW 119 SB DR DOOR NULCOK SENSOR 121 R KEY SLOT SW 122 U FRANK LO PENER CANCEL SW 130 L REAR DEFOCKER SW 131 C TRINK LID OPENER SW 132 V POWER WINDOW SW 133 C POWER WINDOW SW 134 G PUSH BUTTON LOKE ND 135 C STOP COWER SENSOR GND 136 C STOP COWER SENSOR COWN 140 G SHIFT VLP [With A.T] 141 T SCEUPT SENSOR POWER SLIPLY 142 C COMBI SW OUTPUT 143 C COMBI SW OUTPUT 144 G COMBI SW OUTPUT 145 C COMBI SW OUTPUT 146 SB COMBI SW OUTPUT 147 C COMBI SW OUTPUT 148 SB COMBI SW OUTPUT 149 SB COMBI SW OUTPUT 150 GR EARA WINNOW BECOGRE RELACOONT 151 G REAR WINNOW BECOGRE RELACOONT 151 C RELACOONT	Terminal No.	Color of Wire	Signal Name [Specification]
R	113	0	
O SHOOK SENSOR SB STOP LAMP SW 1 P STOP LAMP SW 1 R STOP LAMP SW 2 R REV SLOT SENSOR W KEY SLOT SENSOR U PASSENGER DOOR SW 0 U TRUNK LID OPENRE CANCEL SI V PASSENGER DOOR SW 0 V POWER WINDOW SW COMM [Couper IN COUNTY I	114	ч	
SB STOP LAMP SW 1 SB RTOP LAMP SW 2 LG RTOP LOS FULCES SW 3 LG TRUNK LID DOPENER CANCEL SW 1 L REAR DEFOGGER SW 2 V POWER SOTTOP CALCOMN [Readers V 4 POWER WINDOW SW OLDMN [Couper M 2 POWER SW 1 P	115	0	SHOCK SENSOR
P STOP LAMP SW 2 R REV SLOT SW	116	SB	
SB PR DOOR UNLOCK SENSOR	118	Ь	STOP LAMP SW 2
N	119	SB	DOOR UNLOCK
W PASSENGER DOOR SW	121	ч	
LG	123	W	IGN F/B
D TRUNK LID OPENIRR CANCEL SIN	124	ΓG	PASSENGER DOOR SW
C	129	0	
V Prv 90x 8 COFT TOP CUI COMM (Floaters 7 POWER WINDOW SW COMM (Couper 10 CM 1	130	٦	REAR DEFOGGER SW
Y POWER WINDOW SW COMM (Couper or CAR G	132	^	
G	132	Å	POWER WINDOW SW COMM [Coupe models]
GR	133	5	PUSH BUTTON IGNITION SW ILL POWER
P RECEIVER'S BENDOR ROUPER SURVING ROUPER SURVI	134	GR	LOCK IND
V RECEIVER / SENSOR POWER SUPING C THE PRESS / VICL ENT (READ RECEIV G PAIN POSITION SW (MICH M.T.] G SHIET N.P (WICH M.T.] V SECURITY INDICATOR O COMBIS SW OUTPUT C C C C C C C C C C	137	Ь	RECEIVER/SENSOR GND
L TRE PRESS/KYLE BLY (TREAD) RECINA G	138	^	/ SENSOR POWER SUPPL
G P./I POSITION SW [With MAT	139	٦	PRESS/KYLS ENT (REAR) RECEIV
G SHIFT NA PWIN A 7T] V SECURITY INDICATOR O COMBIS SW OUTPUT 5 G COMBIS SW OUTPUT 5 C COMBIS SW OUTPUT 5 C COMBIS SW OUTPUT 3 C COMBIS SW OUTPUT 4 C C COMBIS SW OUTPUT 4 C C C C C C C C C C C C C C C C C C C	140	9	P/N POSITION SW [With M/T]
Y SECULIFTY INDICATOR	140	9	
O COMBI SW OUTPUT 5	141	Υ	SECURITY INDICATOR
P COMBI SW OUTPUT G COMBI SW OUTPUT 2 C COMBI SW OUTPUT 3 SB COMBI SW OUTPUT 4 GR DRIVER DOOR SW OUTPUT 4 GR COMBI SW OUTPUT 4 GR COMBI SW OUTPUT 4 GR COMBI SW OUTPUT 5 C REAR WINDOW DEFOCIAGE RELIVE	142	0	SW OUTPUT
G COMBI SW OUTPUT 2	143	d	
COMBI SW OUTPUT 3 SB COMBI SW OUTPUT 4 SB COMBI SW OUTPUT 4 GR COMBI SW OUTPUT 4 GR COMBI SW DEFOGER RELAY	144	5	SW OUTPUT
SB COMBI SW OUTPUT 4 GR DRIVER DOOR SW G REAR WINDOW DEFOGGER RELAY	145	٦	
GR DRIVER DOOR SW G REAR WINDOW DEFOGGER RELAY	146	SB	SW OUTPUT
G REAR WINDOW DEFOGGER RELAY	150	GR	DRIVER DOOR SW
	151	9	REAR WINDOW DEFOGGER RELAY CONT

JCMWA6299GB

INFOID:0000000006930007

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent Starter control relay signal Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	 500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	 500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) Interlock/PNP switch signal (CAN): OFF Status 2 Ignition switch is in the ON position Selector lever P/N position signal: P or N position (battery voltage) PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled Status 1 Clutch switch signal (CAN from ECM): ON Clutch interlock switch signal: OFF (0 V) Status 2 Clutch switch signal (CAN from ECM): OFF Clutch interlock switch signal: ON (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000006930008

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
	 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW 	
	 B2535: POSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS 	
	 B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY 	
4	 B2609: S/L STATUS B260A: IGNITION RELAY B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT 	
	 B260F: ENG STATE SIG LOST B2612: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC 	
	 B2618: BCM B2619: BCM B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E8: CLUTCH SW B26E9: S/L STATUS B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	
5	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR 	
5	 C1710: [NO DATA] RK C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	

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NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to BCS-19. "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-42
U1010: CONTROL UNIT (CAN)	_	_		_	BCS-43
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-44
B2013: ID DISCORD BCM-S/L*	×	×	_	_	<u>SEC-52</u>
B2014: CHAIN OF S/L-BCM*	×	×		_	<u>SEC-53</u>
B2190: NATS ANTENNA AMP	×	_			<u>SEC-44</u>
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-47
B2192: ID DISCORD BCM-ECM	×	_		_	SEC-48
B2193: CHAIN OF BCM-ECM	×	_		_	<u>SEC-50</u>
B2195: ANTI SCANNING	×	_	_	_	SEC-51
B2553: IGNITION RELAY	_	×			PCS-52
B2555: STOP LAMP	_	×			<u>SEC-56</u>
B2556: PUSH-BTN IGN SW	_	×	×		SEC-58
B2557: VEHICLE SPEED	×	×	×		SEC-60
B2560: STARTER CONT RELAY	×	×	×	_	SEC-61
B2562: LOW VOLTAGE	_	×			BCS-45
B2601: SHIFT POSITION	×	×	×		SEC-62
B2602: SHIFT POSITION	×	×	×	_	SEC-65
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-68
B2604: PNP SW	×	×	×		SEC-71
B2605: PNP SW	×	×	×		SEC-73
B2606: S/L RELAY*	×	×	×		SEC-75
B2607: S/L RELAY*	×	×	×	_	<u>SEC-76</u>
B2608: STARTER RELAY	×	×	×	_	SEC-78
B2609: S/L STATUS*	×	×	×	_	SEC-80
B260A: IGNITION RELAY	×	×	×	_	PCS-54
B260B: STEERING LOCK UNIT*		×	×	_	SEC-84
B260C: STEERING LOCK UNIT*		×	×	_	SEC-85
B260D: STEERING LOCK UNIT*	_	×	×		SEC-86
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-87
B2612: S/L STATUS*	×	×	×	_	SEC-92
B2614: ACC RELAY CIRC		×	×	_	PCS-56
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-59
B2616: IGN RELAY CIRC	_	×	×		PCS-62
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-96
B2618: BCM	×	×	×	_	PCS-65
B2619: BCM*	×	×	×	_	SEC-98
B261A: PUSH-BTN IGN SW		×	^ ×		PCS-66

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warn- ing lamp ON	Reference page	
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-99	
B2621: INSIDE ANTENNA	_	×	_	_	DLK-278	
B2622: INSIDE ANTENNA	_	×	_	_	• <u>DLK-83</u> (Coupe) • <u>DLK-280</u> (Road- ster)	
B2623: INSIDE ANTENNA	_	×	_	_	• <u>DLK-85</u> (Coupe) • <u>DLK-282</u> (Road- ster)	
B26E8: CLUTCH SW	×	×	×	_	SEC-88	
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	SEC-90	
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-91	
C1704: LOW PRESSURE FL	_	_	_	×	<u>WT-23</u>	
C1705: LOW PRESSURE FR	_	_	_	×		
C1706: LOW PRESSURE RR	_	_	_	×		
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×		
C1709: [NO DATA] FR	_	_	_	×	WT OF	
C1710: [NO DATA] RR	_	_	_	×	<u>WT-25</u>	
C1711: [NO DATA] RL	_	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	MT 00	
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-28</u>	
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-30</u>	
C1734: CONTROL UNIT	_	_	_	×	WT-32	

^{*:} For models without steering lock unit, this DTC is not applied.

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

< ECU DIAGNOSIS INFORMATION >

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

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item		Value/Status		
RAD FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 - 100 %	
		A/C switch OFF	Off	
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On	
TAIL&CLR REQ	Lighting switch OFF		Off	
IAILQULK REQ	Lighting switch 1ST, 2ND, HI or AUTO (Light is illuminated)		On	
	Lighting switch OFF		Off	
HL LO REQ	Lighting switch 2ND HI or AU	TO (Light is illuminated)	On	
	Daytime running light system	is operated (With daytime running light system)		
UL ULBEO	Lighting switch OFF		Off	
HL HI REQ	On			
FR FOG REQ	NOTE: The item is indicated, but not	monitored.	Off	
		Front wiper switch OFF	Stop	
	Ignition switch ON	Front wiper switch INT	1LOW	
FR WIP REQ		Front wiper switch LO	Low	
		Front wiper switch HI	Hi	
		Front wiper stop position	STOP P	
WIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P	
		Front wiper operates normally	Off	
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK	
GN RLY1 -REQ	Ignition switch OFF or ACC		Off	
IGN KLI I -KEQ	Ignition switch ON	On		
GN RLY	Ignition switch OFF or ACC	Off		
IGN KLI	Ignition switch ON	On		
DIICH CW/	Release the push-button ignit	Off		
PUSH SW	Press the push-button ignition	On		
	Ignition switch ON	Selector lever in any position other than P or N (A/T models)	Off	
INITED/NID C\M		Release clutch pedal (M/T models)		
NTER/NP SW	Ignition switch ON	Selector lever in P or N position (A/T models)	On	
		Depress clutch pedal (M/T models)		
CT DLV CONT	Ignition switch ON	Off		
ST RLY CONT	At engine cranking	On		
ILIDIT DI V. DEO	Ignition switch ON		Off	
IHBT RLY -REQ	At engine cranking	On		

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

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Con	Value/Status	
	Ignition switch ON	Off	
	At engine cranking		INHI ON \rightarrow ST ON
ST/INHI RLY	The status of starter relay or starter contact battery voltage malfunction, etc. when control relay is OFF	UNKWN	
DETENT SW	Ignition switch ON	Press the selector button with selector lever in P position Selector lever in any position other than P	Off
	Release the selector button with selection NOTE: Fixed On for M/T models	On	
	None of the conditions below are pres	sent	Off
S/L RLY -REQ	Open the driver door after the ignition onds) Press the push-button ignition switce Depress the clutch pedal when the	On	
	Steering lock is activated	LOCK	
S/L STATE	Steering lock is deactivated	UNLOCK	
	[DTC: B210A] is detected	UNKWN	
DTRL REQ	Daytime running light system is not op	Off	
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light system is opera	On	
OII D OW	Ignition switch OFF, ACC or engine ru	Open	
OIL P SW	Ignition switch ON	Close	
HOOD OW	Close the hood	Off	
HOOD SW	Open the hood	On	
HL WASHER REQ	NOTE: The item is indicated, but not monitore	Off	
	Not operation	Off	
THFT HRN REQ	Panic alarm is activated Horn is activated with VEHICLE SE	On	
HODN CHIDD	Not operating	Off	
HORN CHIRP	Door locking with Intelligent Key (horn	On	
CRNRNG LMP REQ	NOTE: The item is indicated, but not monitore	Off	

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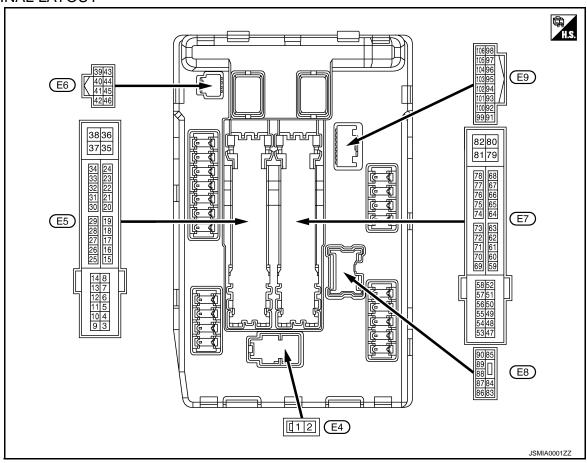
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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description				Value
+ (VVire	e color)	Signal name	Input/ Output	Condition		(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (L)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
4	Ground	Food in 10	Output	Ignition switch ON	Front wiper switch OFF	0 V
(V)	Ground	Front wiper LO			Front wiper switch LO	Battery voltage
5	5 Ground	Facetoria en III	Output	put Ignition switch ON	Front wiper switch OFF	0 V
(L)	Ground	Front wiper HI	Output		Front wiper switch HI	Battery voltage
6 ^{*1} (R)	Ground	Daytime running light relay	Input	Ignition switch OFF		Battery voltage
7		Illuminations*1		Ignition switch ON	Lighting switch OFF	0 V
7 (R)	Ground	Tail, license plate lamps & illuminations*2	Output		Lighting switch 1ST	Battery voltage
		Ground Steering lock unit power supply	Output	Ignition switch OFF	A few seconds after opening the driver door	Battery voltage
(BR) Grou	Ground			Ignition switch LOCK	Press the push-button ignition switch	Battery voltage
				Ignition switch A	CC or ON	0 V
12 (B/W)	Ground	Ground		Ignition switch ON		0 V

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
13		Fuel pump power sup-		Approximately 1 second or more after turning the ignition switch ON		0 V
(Y)			Output	Approximately ignition switchEngine running		Battery voltage
16 (LG)	Ground	Front wiper auto stop	Input	Ignition switch	Front wiper stop position Any position other than	0 V
(20)				0.1	front wiper stop position	Battery voltage
19	Ground	Ignition relay power	Output	Ignition switch Ol		0 V
(W)		supply	· 	Ignition switch Ol		Battery voltage
25 (C)	Ground	Ignition relay power	Output	Ignition switch Ol		0 V
(G)		supply		Ignition switch Ol		Battery voltage
27 (Y)	Ground	Ignition relay monitor	Input	Ignition switch Ol		Battery voltage
(1)				Ignition switch Ol		0 V
28 (L)	Ground	Push-button ignition switch	Input	-	utton ignition switch	0 V
(L)		SWILCH		Release the push	n-button ignition switch	Battery voltage
		Starter relay control	Input	A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V
30 (GR) Ground	Ground				Selector lever P or N (Ignition switch ON)	Battery voltage
				M/T models	Release the clutch pedal	0 V
				M/T models	Depress the clutch pedal	Battery voltage
32	Cround	Steering lock unit condi-	lanut	Steering lock is activated		0 V
(L)	Ground	tion-1	Input	Steering lock is d	eactivated	Battery voltage
33	Craund	Steering lock unit condi-	lan.ut	Steering lock is a	ctivated	Battery voltage
(P)	Ground	tion-2	Input	Steering lock is d	eactivated	0 V
36 (G)	Ground	Battery power supply	Input	Ignition switch Ol	=F	Battery voltage
39 (P)	_	CAN-L	Input/ Output		_	_
40 (L)	_	CAN-H	Input/ Output		_	_
41 (B/W)	Ground	Ground	_	Ignition switch Ol	N	0 V
42	Ground	Cooling fan relay con-	Input	Ignition switch Ol	FF or ACC	0 V
(Y)	C.odiid	trol	put	Ignition switch Ol	N	0.7 V
43 ^{*3} (SB)	Ground	A/T shift selector (Detention switch)	Input	Ignition switch	Press the selector button (selector lever P) Selector lever in any position other than P	Battery voltage
					Release the selector button (selector lever P)	0 V
44	Ground	Horn relay control	Input	The horn is deac	tivated	Battery voltage
(W)	Giodila	HOITH TOIAY CONTION	прис	The horn is activa	ated	0 V
45	Ground	Anti theft horn relay	Input	The horn is deac	tivated	Battery voltage
(G)	G) Ground control		input	The horn is activated		0 V

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	inal No.	Description				Value
+ (VVIre	e color)	Signal name	Input/ Output		Condition	(Approx.)
				A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V
46 (V) Gro	Ground	Starter relay control	Input		Selector lever P or N (Ignition switch ON)	Battery voltage
				M/T models	Release the clutch pedal	0 V
				W/ Timodels	Depress the clutch pedal	Battery voltage
					A/C switch OFF	0 V
48 (L)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage
49		FOM selections are		Ignition switch O (More than a few tion switch OFF)	FF seconds after turning igni-	0 V
(BG) ^{*5} (O) ^{*6}	DIV		Output	 Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) 		Battery voltage
51	0	Ignition relay power	0	Ignition switch OFF		0 V
(Y)	Ground	supply	Output	Ignition switch ON		Battery voltage
		ECM relay power cup	relay power sup- Output	Ignition switch O (More than a few tion switch OFF)	FF seconds after turning igni-	0 V
(W)				Ignition switch Ignition switch (For a few second switch OFF)		Battery voltage
54		Throttle control motor	ral motor	Ignition switch O (More than a few tion switch OFF)	FF seconds after turning igni-	0 V
(V)	Ground	relay power supply	Output	 Ignition switch Ignition switch (For a few second switch OFF) 		Battery voltage
55 (SB)	Ground	ECM power supply	Output	Ignition switch O	FF	Battery voltage
56	Ground	Ignition relay power	Output	Ignition switch O	FF	0 V
(LG)	Cround	supply	Juipui	Ignition switch O	N	Battery voltage
57	Ground	Ignition relay power	Output	Ignition switch O	FF	0 V
(G)	Cidana	supply	Calput	Ignition switch O	N	Battery voltage
58 ^{*3}	Ground	Ignition relay power	Output	Ignition switch O	FF	0 V
(P)		supply		Ignition switch O	N	Battery voltage
69				Ignition switch O (More than a few tion switch OFF)	FF seconds after turning igni-	Battery voltage
(BR)	Ground	ECM relay control	Output	Ignition switch Ignition switch (For a few second switch OFF)		0 - 1.5 V

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
70 (O)	Ground	Throttle control motor relay control	Output	Ignition switch OI	N o OFF	0 -1.0 V ↓ Battery voltage ↓
(-)						0 V
				Ignition switch OI		0 - 1.0 V
			A/T models	Selector lever in any position other than P or N (Ignition switch ON)	0 V	
72 (GR)	Ground	Starter relay control	Input		Selector lever P or N (Ignition switch ON)	Battery voltage
				M/T models	Release the clutch pedal	0 V
				W/T ITIOGEIS	Depress the clutch pedal	Battery voltage
73 ^{*4}	Ground	Ignition relay power	Output	Ignition switch OI	F	0 V
(GR)	Ground	supply	Output	Ignition switch OI	V	Battery voltage
74		Ignition relay power	0	Ignition switch OI	FF .	0 V
(G)	Ground	supply	Output	Ignition switch OI	N	Battery voltage
75		0.1		Ignition switch	Engine stopped	0 V
(SB)	Ground	Oil pressure switch	Input	ON	Engine running	Battery voltage
						→ 2ms
76 (Y)	Ground	Power generation command signal	Output	40% is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE" 80% is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 ▶ 2ms JPMIA0002GB 3.8 V
						3.8 V (V) 6 4 2 0 2ms JPMIA0003GB 1.4 V
77 (R)	Ground	Fuel pump relay control	Output	ignition switch • Engine running Approximately 1	second or more after turn-	0 - 1.0 V Battery voltage
				ing the ignition sv	vitch ON	g

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output	Condition		(Approx.)
_				Ignition switch	Lighting switch OFF	0 V
83 (R)	Ground	Headlamp LO (RH)	Output	ON	Lighting switch 2ND	D
(14)				Daytime running	light system activated*1	Battery voltage
				Ignition switch	Lighting switch OFF	0 V
84 (P)	Ground	Headlamp LO (LH)	Output	ON	Lighting switch 2ND	Battery voltage
(,)				Daytime running	light system activated*1	Ballery Vollage
88 (G)	Ground	Washer pump power supply	Output	Ignition switch Ol	N	Battery voltage
89				Ignition switch	Lighting switch OFF	0 V
(BR)	Ground	Headlamp HI (RH)	Output	t ON	Lighting switch HILighting switch PASS	Battery voltage
90				lauitian avvitab	Lighting switch OFF	0 V
(LG)	Ground	Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch HI Lighting switch PASS	Battery voltage
91 ^{*2}	Cround	Darking Jamp (DU)	Output	Ignition switch	Lighting switch OFF	0 V
(P)	Ground	Parking lamp (RH)	Output	ON	Lighting switch 1ST	Battery voltage
92*2				Ignition switch	Lighting switch OFF	0 V
(BG) ^{*5} (O) ^{*6}	Ground	Parking lamp (LH)	Output	ON	Lighting switch 1ST	Battery voltage
97 (V)	Ground	Cooling fan control	Output	Engine idling		0 - 5 V
104	Ground	Hood switch	Input	Close the hood		Battery voltage
(LG)	Ground	1100d Switch	iliput	Open the hood		0 V
				Parking lamp Side makes	Turned OFF	Battery voltage
105 ^{*1} (SB)	Ground	Daytime running light relay control	Output	Side maker lamp License plate lamp Tail lamp	Turned ON	0 V

^{*1:} With daytime running light system

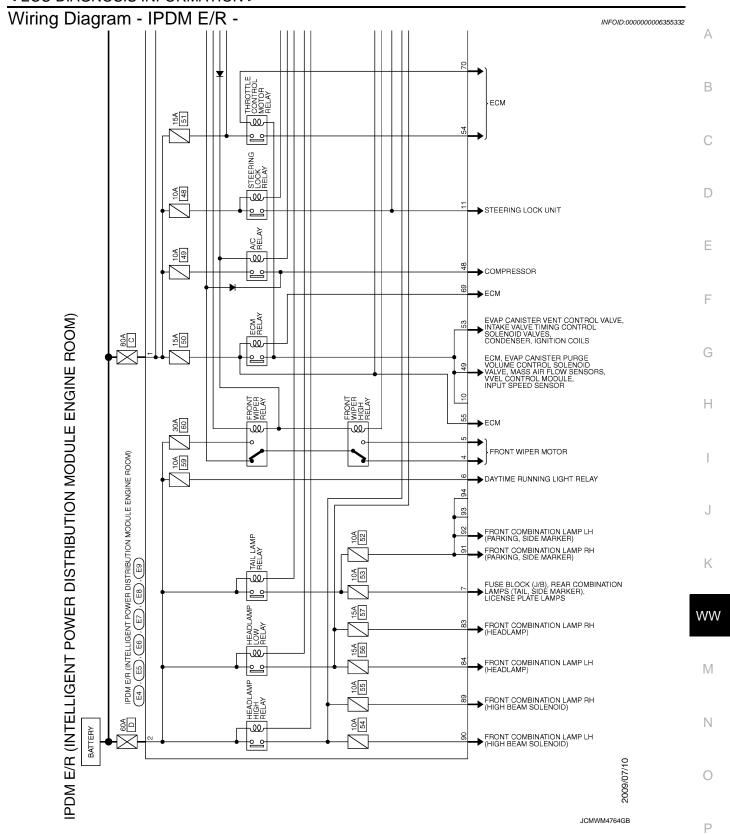
^{*2:} Without daytime running light system

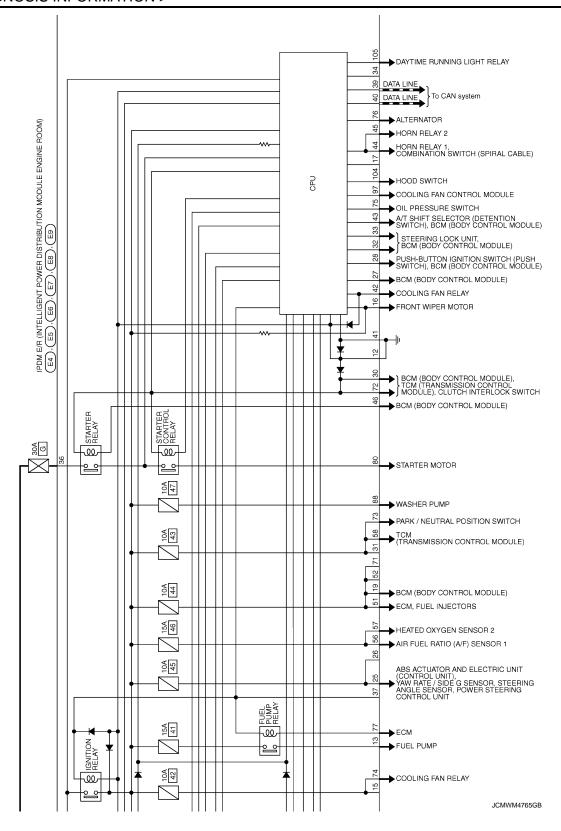
^{*3:} A/T models only

^{*4:} M/T models only

^{*5:} Coupe models

^{*6:} Roadster models

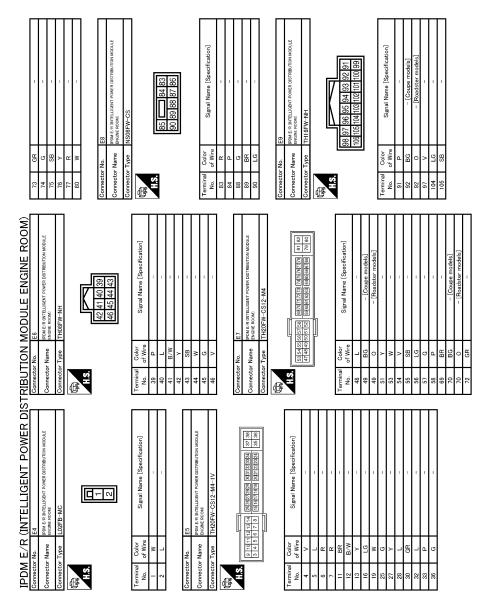




< ECU DIAGNOSIS INFORMATION >

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JCMWM4767GB

INFOID:0000000006355333

Fail-safe

CAN COMMUNICATION CONTROL

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

If No CAN Communication Is Available With ECM

< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe operation
Cooling fan	 Outputs the pulse duty signal (PWM signal) 100% when the ignition switch is turned ON Outputs the pulse duty signal (PWM signal) 0% when the ignition switch is turned OFF
A/C compressor	A/C relay OFF
Alternator	Outputs the power generation command signal (PWM signal) 0%

If No CAN Communication Is Available With BCM

Control part	Fail-safe operation
Headlamp	 Turns ON the headlamp low relay when the ignition switch is turned ON Turns OFF the headlamp low relay when the ignition switch is turned OFF Headlamp high relay OFF
Parking lampsSide maker lampLicense plate lampsIlluminationsTail lamps	 Turns ON the tail lamp relay and the daytime running light relay* when the ignition switch is turned ON Turns OFF the tail lamp relay and the daytime running light relay* when the ignition switch is turned OFF
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the AUTO mode and the front wiper motor is operating.
Horn	Horn relay OFF
Ignition relay	The status just before activation of fail-safe is maintained.
Starter motor	Starter control relay OFF
Steering lock unit	Steering lock relay OFF

^{*:} With daytime running light system

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay inside it.
- IPDM E/R judges the ignition relay error if the voltage differs between the contact circuit and the excitation coil circuit.
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay and the daytime running light relay^{*} for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Voltage	judgment			
Ignition relay contact side Ignition relay excitation coil side		IPDM E/R judgment	Operation	
ON	ON	Ignition relay ON normal	_	
OFF	OFF	Ignition relay OFF normal	_	
ON	OFF	Ignition relay ON stuck	Detects DTC "B2098: IGN RELAY ON" Turns ON the tail lamp relay and the daytime running light relay* for 10 minutes	
OFF	ON	Ignition relay OFF stuck	Detects DTC "B2099: IGN RELAY OFF"	

^{*:} With daytime running light system

FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper stop position signal.

When a front wiper stop position signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 seconds activation and 20 seconds stop five times.

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< ECU DIAGNOSIS INFORMATION >

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

NOTE:

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

STARTER MOTOR PROTECTION FUNCTION

IPDM E/R turns OFF the starter control relay to protect the starter motor when the starter control relay remains active for 90 seconds.

DTC Index

NOTE:

- The details of time display are as follows.
- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.
- IGN counter is displayed on FFD (Freeze Frame data).
- The number is 0 when is detected now.
- The number increases like 1 \rightarrow 2 \cdots 38 \rightarrow 39 after returning to the normal condition whenever IGN OFF \rightarrow ON.
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

x: Applicable

		×: Applicable
CONSULT display	Fail-safe	Refer to
No DTC is detected. further testing may be required.	_	_
U1000: CAN COMM CIRCUIT	×	PCS-16
B2098: IGN RELAY ON	×	PCS-17
B2099: IGN RELAY OFF	_	PCS-18
B2108: STRG LCK RELAY ON	_	<u>SEC-102</u>
B2109: STRG LCK RELAY OFF	_	<u>SEC-104</u>
B210A: STRG LCK STATE SW	_	<u>SEC-105</u>
B210B: START CONT RLY ON	_	<u>SEC-109</u>
B210C: START CONT RLY OFF	_	<u>SEC-110</u>
B210D: STARTER RELAY ON	_	<u>SEC-111</u>
B210E: STARTER RELAY OFF	_	SEC-112
B210F: INTRLCK/PNP SW ON	-	<u>SEC-114</u>
B2110: INTRLCK/PNP SW OFF	_	SEC-116

WIPER AND WASHER SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

WIPER AND WASHER SYSTEM SYMPTOMS

Symptom Table

CAUTION:

Perform the self-diagnosis with CONSULT-III before performing the diagnosis by symptom. Perform the diagnosis by DTC if DTC is detected.

Syn	nptom	Probable malfunction location	Inspection item
		Combination switch Harness between combination switch and BCM BCM	Combination switch Refer to BCS-88, "Symptom Table".
	HI only	IPDM E/R Harness between IPDM E/R and front wiper motor Front wiper motor	Front wiper motor (HI) circuit Refer to <u>WW-22</u> , "Compo- nent Function Check".
		Front wiper request signal BCM IPDM E/R	IPDM E/R DATA MONITOR "FR WIP REQ"
	LO and INT	Combination switch Harness between combination switch and BCM BCM	Combination switch Refer to BCS-88, "Symptom Table".
Front wiper does not operate.		IPDM E/R Harness between IPDM E/R and front wiper motor Front wiper motor	Front wiper motor (LO) circuit Refer to <u>WW-20</u> , "Compo- nent Function Check".
		Front wiper request signal BCM IPDM E/R	IPDM E/R DATA MONITOR "FR WIP REQ"
	INT only	Combination switch Harness between combination switch and BCM BCM	Combination switch Refer to BCS-88, "Symptom Table".
	INT only	Front wiper request signal BCM IPDM E/R	IPDM E/R DATA MONITOR "FR WIP REQ"
	HI, LO and INT	SYMPTOM DIAGNOSIS "FRONT WIPER DOES NOT OPERATE" Refer to <u>WW-86</u> , " <u>Diagnosis Procedure</u> ".	

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WIPER AND WASHER SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

Syr	nptom	Probable malfunction location	Inspection item
		Combination switch BCM	Combination switch Refer to BCS-88, "Symptom Table".
	HI only	Front wiper request signal BCM IPDM E/R	IPDM E/R DATA MONITOR "FR WIP REQ"
		IPDM E/R	_
Front wiper does not		Combination switch BCM	Combination switch Refer to BCS-88, "Symptom Table".
stop.	LO only	Front wiper request signal BCM IPDM E/R	IPDM E/R DATA MONITOR "FR WIP REQ"
		IPDM E/R	_
	INT only	Combination switch BCM	Combination switch Refer to BCS-88, "Symptom Table".
		Front wiper request signal BCM IPDM E/R	IPDM E/R DATA MONITOR "FR WIP REQ"
	Intermittent adjustment cannot be performed.	Combination switch Harness between combination switch and BCM BCM	Combination switch Refer to BCS-88, "Symptom Table".
		BCM	
	Intermittent control linked with vehicle speed cannot be performed.	Check the vehicle speed detection wiper setting. Refer to WW-10 , "WIPER: CONSULT-III Function NOTE: Factory setting of the front wiper intermitted operat hicle speed.	-
Front wiper does not operate normally.	Wiper is not linked to the washer operation.	Combination switch Harness between combination switch and BCM BCM	Combination switch Refer to BCS-88, "Symptom Table".
		BCM	_
	Does not return to stop position. [Repeatedly operates for 10 sec- onds and then stops for 20 seconds. After that, it stops the opera- tion. (Fail-safe)]	IPDM E/R Harness between IPDM E/R and front wiper motor Front wiper motor	Front wiper auto stop signal circuit Refer to <a a="" beck"="" beck<="" href="https://www.24." www.24."="" www.auto.com="">.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description A

FRONT WIPER MOTOR PROTECTION FUNCTION

- IPDM E/R may stop the front wiper to protect the front wiper motor if any obstruction (operation resistance) such as a large amount of snow is detected during the front wiper operation.
- At that time turn OFF the front wiper and remove the foreign object. Then wait for approximately 20 seconds or more and reactivate the front wiper. The wiper will operate normally.

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FRONT WIPER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

FRONT WIPER DOES NOT OPERATE

Description

The front wiper does not operate under any operation conditions.

Diagnosis Procedure

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1. CHECK WIPER RELAY OPERATION

PIPDM E/R AUTO ACTIVE TEST

- 1. Start IPDM E/R auto active test. Refer to PCS-11, "Diagnosis Description".
- 2. Check that the front wiper operates at the LO/HI operation.

(P)CONSULT-III ACTIVE TEST

- 1. Select "FRONT WIPER" of IPDM E/R active test item.
- 2. With operating the test item, check front wiper operation.

Lo : Front wiper LO operation

Hi : Front wiper HI operation

Off : Stop the front wiper.

Is front wiper operation normally?

YES >> GO TO 5. NO >> GO TO 2.

2. CHECK FRONT WIPER MOTOR FUSE

- 1. Turn the ignition switch OFF.
- 2. Check that the front wiper motor 30 A fuse (#60) is not fusing.

Is the fuse fusing?

YES >> Replace the fuse after repairing the applicable circuit.

NO >> GO TO 3.

3.CHECK FRONT WIPER MOTOR GROUND OPEN CIRCUIT

- 1. Disconnect front wiper motor connector.
- Check continuity between front wiper motor harness connector and ground.

Front wip	per motor		Continuity
Connector	Terminal	Ground	Continuity
E42	2		Existed

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harness or connector.

4. CHECK FRONT WIPER MOTOR OUTPUT VOLTAGE

(P)CONSULT-III ACTIVE TEST

- 1. Turn the ignition switch ON.
- 2. Select "FRONT WIPER" of IPDM E/R active test item.
- 3. With operating the test item, check voltage between IPDM E/R harness connector and ground.

FRONT WIPER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Terminals			Test item		
(+)		(-)	rest item	Voltage (Approx.)	
IPDM E/R			FRONT WIPER		
Connector	Terminal		TRONT WILE		
E5	4	Ground	Lo	Battery voltage	
	4	Giodila	Off	0 V	
	5		Hi	Battery voltage	
			Off	0 V	

Is the measurement value normal?

YES >> Replace front wiper motor.

NO >> Replace IPDM E/R.

5. CHECK FRONT WIPER REQUEST SIGNAL INPUT

(P)CONSULT-III DATA MONITOR

- 1. Select "FR WIP REQ" of IPDM E/R data monitor item.
- Switch the front wiper switch to HI and LO.
- 3. With operating the front wiper switch, check the status of "FR WIP REQ".

Monitor item	Condition	Monitor status	
	Front wiper switch HI	On	Hi
FR WIP REQ	Tront wiper switch th	Off	Stop
	Front wiper switch LO	On	Low
		Off	Stop

Is the status of item normal?

YES >> Replace IPDM E/R.

NO >> GO TO 6.

6. CHECK COMBINATION SWITCH

Perform the inspection of the combination switch. Refer to BCS-88, "Symptom Table".

Is combination switch normal?

YES >> Replace BCM. Refer to BCS-92, "Exploded View".

NO >> Repair or replace the applicable parts.

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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:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

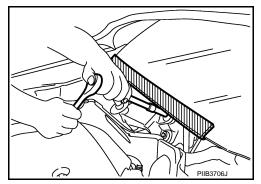
Always observe the following items for preventing accidental activation.

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

FOR USA AND CANADA: Precaution for Procedure without Cowl Top Cover

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



FOR USA AND CANADA: Precaution for Battery Service

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Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

FOR MEXICO

PRECAUTIONS

< PRECAUTION >

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.

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- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

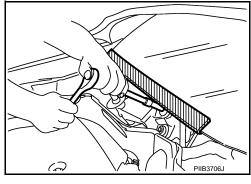
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Always observe the following items for preventing accidental activation.

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FOR MEXICO: Precaution for Procedure without Cowl Top Cover

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FOR MEXICO: Precaution for Battery Service

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PREPARATION

PREPARATION

Commercial Service Tool

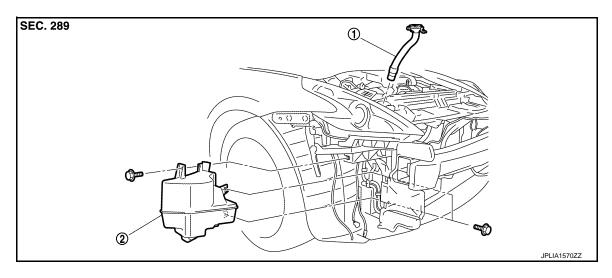
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Washer nozzle adjuster Adjusting washer nozzle. (Available in SEC. 289 of PARTS CATALOG: Part No. 28949 1EA0A) NOTE: Washer nozzle adjuster is included with shipment of nozzle.	Tool name		Description		
	Washer nozzle adjuster	JSLIA0149ZZ	(Available in SEC. 289 of PARTS CATALOG: Part No. 28949 1EA0A) NOTE: Washer nozzle adjuster is included with shipment		

REMOVAL AND INSTALLATION

WASHER TANK

Exploded View



1. Washer tank inlet

2. Washer tank

Removal and Installation

REMOVAL

Remove the clip (A).

: Vehicle front

- Pull out the washer tank inlet (1) from the washer tank.
- 3. Remove the fender protector RH (front). Refer to <u>EXT-25</u>, <u>"FENDER PROTECTOR: Exploded View"</u>.
- 4. Disconnect the washer pump connector.
- 5. Disconnect the washer level switch connector.
- 6. Disconnect the front washer tube.
- 7. Remove the washer tank mounting bolts.
- 8. Remove the washer tank from the vehicle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Add water up to the top of the washer tank inlet after installing. Check that there is no leakage.

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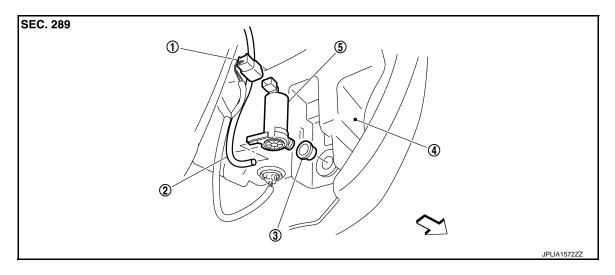
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WASHER PUMP

Exploded View



- 1. Washer pump connector
- 4. Washer tank

- 2. Front washer tube
- 5. Washer pump

3. Packing

Removal and Installation

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REMOVAL

- 1. Remove the fender protector RH (front). Refer to EXT-25, "FENDER PROTECTOR: Exploded View".
- 2. Disconnect the washer pump connector.
- 3. Disconnect the front washer tube.
- 4. Remove the washer pump from the washer tank.
- 5. Remove the packing from the washer tank.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Never twist the packing when installing the washer pump.

WASHER LEVEL SWITCH

< REMOVAL AND INSTALLATION >

WASHER LEVEL SWITCH

Removal and Installation

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The washer level switch must be replaced together with the washer tank as an assembly. Refer to <u>WW-91</u>, <u>"Removal and Installation"</u>.

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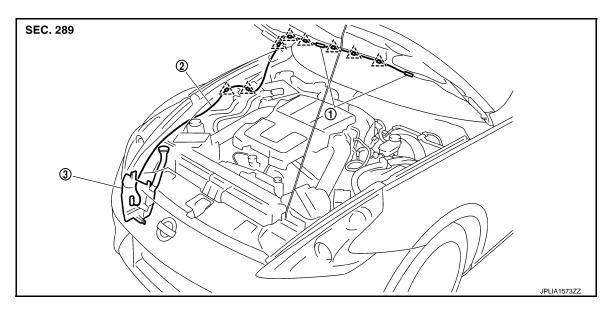
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FRONT WASHER NOZZLE AND TUBE

Hydraulic Layout



1. Front washer nozzle

2. Front washer tube

3. Washer tank

^ : Clip

Removal and Installation

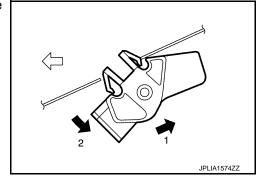
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REMOVAL

- 1. Open the hood.
- Remove the front washer nozzle in numerical order shown in the figure.

: Vehicle front

3. Disconnect the front washer tube from the front washer nozzle.



INSTALLATION

- 1. Connect the front washer tube into the front washer nozzle.
- 2. Install the front washer nozzle to the hood.
- Adjust the front washer nozzle spray position. Refer to <u>WW-94, "Inspection and Adjustment"</u>.

The spray positions differ. Check that left and right nozzles are installed correctly.

Inspection and Adjustment

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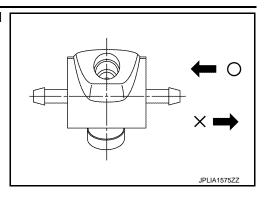
INSPECTION

Washer Nozzle Inspection

FRONT WASHER NOZZLE AND TUBE

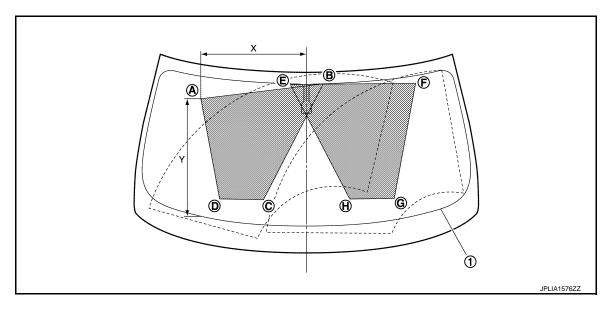
< REMOVAL AND INSTALLATION >

Check that air can pass through the hose by blowing forward (toward the nozzle), and check that air cannot pass through by sucking.



ADJUSTMENT

Washer Nozzle Spray Position Adjustment



1. Black printed frame line

: Spray area

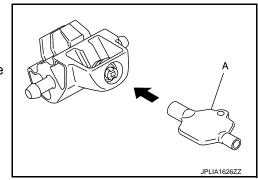
								Unit: mm (ir
	Passenger side			Driver side				
	А	В	С	D	E	F	G	Н
Х	445 (17.52)	69 (2.72)	181 (7.13)	366 (14.41)	68 (2.68)	458 (18.03)	367 (14.45)	180 (7.09)
Υ	493 (19.41)	594 (23.39)	104 (4.09)	87 (3.43)	594 (23.39)	555 (21.85)	90 (3.54)	108 (4.25)

Check that washer fluid is splayed on 80% or more the splay area () when spraying washer fluid. If the spray area deviates from the specification, adjust the washer nozzle.

CAUTION:

- Use washer nozzle adjuster* (A) for nozzle adjustment.
- · Never use needle or small pin.
- *: Washer nozzle adjuster is included with shipment of nozzle. NOTE:

If wax or dust gets into the nozzle, remove wax or dust with a needle or small pin.



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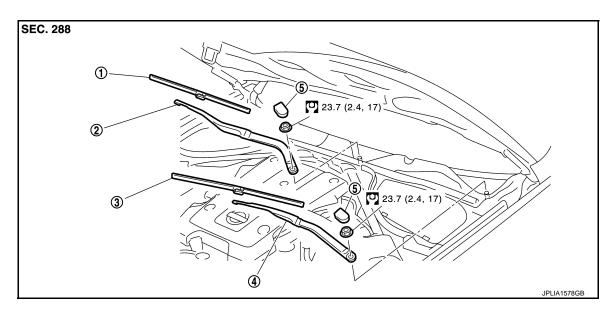
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FRONT WIPER ARM

Exploded View



- 1. Front wiper blade (RH)
- 2. Front wiper arm (RH)
- 4. Front wiper arm (LH) 5. Front wiper arm cap

Refer to GI-4, "Components" for symbols in the figure.

3. Front wiper blade (LH)

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Removal and Installation

REMOVAL

- 1. Operate the front wiper to move it to the auto stop position.
- 2. Open the hood.
- 3. Remove the front wiper arm caps.
- 4. Remove the front wiper arm mounting nuts.
- 5. Raise front wiper arm, and remove front wiper arm from the vehicle.

INSTALLATION

- 1. Clean front wiper arm mount as shown in the figure to prevent nuts from being loosened.
- 2. Operate the front wiper motor to move the front wiper to the auto stop position.
- 3. Adjust the front wiper blade position. Refer to <a href="https://www.96, "Adjust-ment"/www.96, "Adjust-ment
- 4. Install the front wiper arm by tightening the mounting nuts.
- 5. Inject the washer fluid.
- 6. Operate the front wiper to move it to the auto stop position.
- 7. Check that the front wiper blades stop at the specified position.
- Install the front wiper arm caps.



Adjustment

WIPER BLADE POSITION ADJUSTMENT

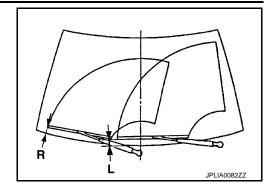
Clearance between the end of cowl top cover and the top of wiper blade center

FRONT WIPER ARM

< REMOVAL AND INSTALLATION >

Standard clearance

R : 33.9 \pm 7.5 mm (1.335 \pm 0.295 in) L : 61.4 \pm 7.5 mm (2.417 \pm 0.295 in)



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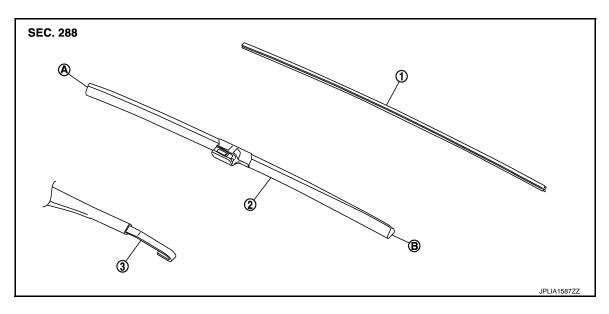
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WIPER BLADE

Exploded View



1. Wiper refill

A. Wiper blade end

- 2. Wiper blade
- B. Wiper blade tip

3. Wiper arm

Removal and Installation

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REMOVAL

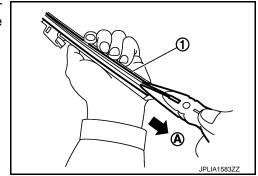
Remove the wiper blade from the wiper arm.

INSTALLATION

Install the front wiper blade to the wiper arm.

Replacement

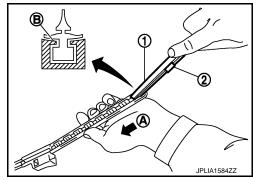
1. Hold the rip of old wiper refill (1) at the rear end of the wiper blade with long-nose pliers, and pull out the wiper refill to the direction (A).



2. Insert the tip of new wiper refill (1) into the rear end of wiper blade. Slide the wiper refill to the direction (A) while pressing the wiper refill onto the wiper blade rear end.

NOTE:

- Insert the wiper refill to be held securely by tab (B) of wiper blade.
- After the wiper refill is fully inserted, remove the holder* (2).
- *: Attached to service parts.



WIPER BLADE

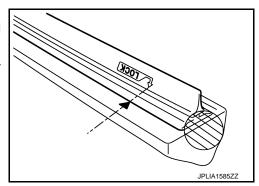
< REMOVAL AND INSTALLATION >

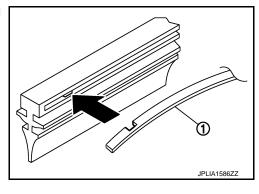
- 3. Inert the wiper refill until the stopper at the rear end of wiper refill fits in the tab. Check that "LOCK" mark on wiper refill is aligned with "▼" mark on wiper blade.
- 4. Untwist the twisted wiper refill (SSSS) at the rear end of wiper blade, if any.
- 5. Check the following items after replacing wiper refill.
 - Wiper refill is not twisted at all.
 - Wiper refill thoroughly fits in the tab on wiper blade.
 - Wiper refill is inserted from the proper direction.

NOTE:

When the vertebra is detached.

- Insert the vertebra (1) into the wiper blade to the same bending direction.
- If a vertebra has a notch, fit it to a protrusion inside the wiper refill.





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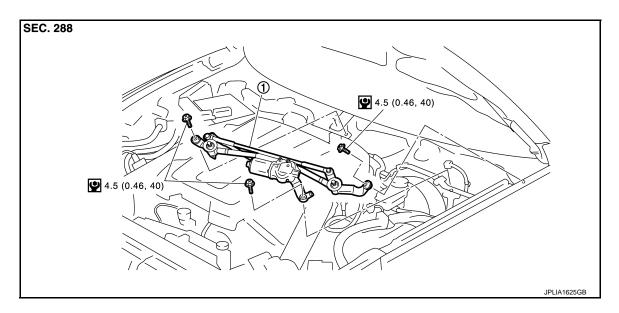
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FRONT WIPER DRIVE ASSEMBLY

Exploded View

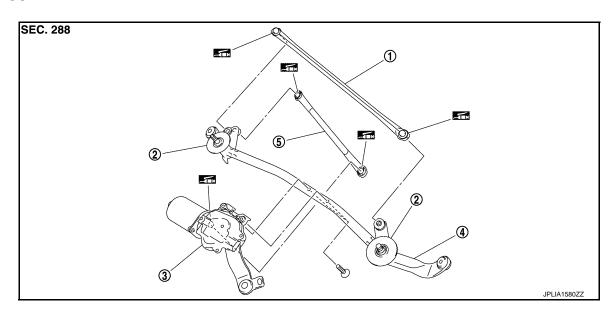
REMOVAL



1. Front wiper drive assembly

Refer to GI-4, "Components" for symbols in the figure.

DISASSEMBLY



- Front wiper linkage 1
- 2. Shaft seal

Front wiper motor

4. Front wiper frame

Front wiper linkage 2

: Multi-purpose grease or an equivalent.

Removal and Installation

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REMOVAL

- Remove the front wiper arm. Refer to <u>WW-96, "Exploded View"</u>.
- 2. Remove the front tower bar and cowl top cover. Refer to EXT-22. "Exploded View".

FRONT WIPER DRIVE ASSEMBLY

< REMOVAL AND INSTALLATION >

- Remove the bolts from the front wiper drive assembly.
- Disconnect the front wiper motor connector.
- Remove the front wiper drive assembly from the vehicle.

INSTALLATION

- 1. Install the front wiper drive assembly to the vehicle.
- Connect the front wiper motor connector.
- 3. Operate the front wiper to move it to the auto stop position.
- 4. Install the front tower bar and cowl top cover. Refer to EXT-22, "Exploded View".
- 5. Install the front wiper arms. Refer to WW-96, "Exploded View".

Disassembly and Assembly

DISASSEMBLY

Remove the front wiper linkage 1 and 2 from the front wiper drive assembly.

CAUTION:

Never bend the linkage or damage the plastic part of the ball joint when removing the front wiper linkage.

2. Remove the front wiper motor mounting screws, and then remove the front wiper motor from the front wiper frame.

ASSEMBLY

- 1. Connect the front wiper motor connector.
- 2. Operate the front wiper to move it to the auto stop position.
- Disconnect the front wiper motor connector.
- 4. Install the front wiper motor to the front wiper frame.
- 5. Install the front wiper linkage 2 to the front wiper motor and the front wiper frame.
- 6. Install the front wiper linkage 1 to the front wiper frame.

CAUTION:

- Never drop front wiper motor or cause it to come into contact with other parts.
- · Be careful for the grease condition at the front wiper motor and front wiper linkage joint (retainer). Apply Multi-purpose grease or an equivalent if necessary.

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WIPER AND WASHER SWITCH

< REMOVAL AND INSTALLATION >

WIPER AND WASHER SWITCH

Exploded View

Refer to BCS-93, "Exploded View".