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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:0000000001080318 В **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM C Interview the customer to obtain as much information as possible about the conditions and environment under which the malfunction occurred. D >> GO TO 2. 2. CHECK SYMPTOM Е • Check the symptom based on the information obtained from the customer. Check if any other malfunctions are present. F >> GO TO 3. 3.check consult-iii self-diagnosis results Connect CONSULT-III and perform self-diagnosis. Refer to WCS-9, "CONSULT-III Function (METER/M&A)" Are self-diagnosis results normal? YES >> GO TO 4. Н NO >> Repair or replace the malfunctioning parts and go to 5. f 4.NARROW DOWN THE MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS Perform symptom diagnosis and repair or replace the identified malfunctioning parts. >> GO TO 5. 5. FINAL CHECK Check that the warning buzzer in the combination meter operates normally. K Does it operate normally? YES >> INSPECTION END NO >> GO TO 1. M

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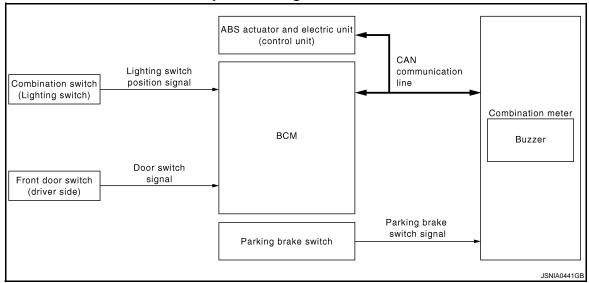
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FUNCTION DIAGNOSIS

WARNING CHIME SYSTEM WARNING CHIME SYSTEM

WARNING CHIME SYSTEM: System Diagram

INFOID:0000000001080319



WARNING CHIME SYSTEM: System Description

INFOID:0000000001080320

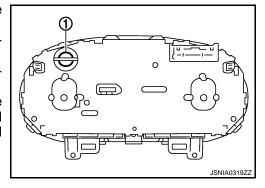
- Combination meter judges the necessity of parking brake warning according to vehicle speed signal and parking brake switch signal.
- BCM judges the necessity of buzzer output according to signals from each switch, and transmits signal to combination meter.

NOTE:

- Intelligent key warning is judged by intelligent key unit.
- Seat belt reminder warning is judged by front seat belt warning unit. Seat belt reminder warning buzzer is integrated in the front seat belt warning unit.

COMBINATION METER

- The buzzer (1) for the warning chime system is integrated in the combination meter.
- Combination meter sounds warning buzzer in the following conditions.
- When it receives buzzer output signal from BCM with CAN communication.
- When it judges the necessity of buzzer output according to vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication and parking brake switch signal received from parking brake switch.



BCM

BCM receives signals from various units and transmits a buzzer output signal to the combination meter via CAN communication if it judges that the warning buzzer should be activated.

BCM warning function list

Warning functions	Signal name
Light reminder warning chime	Ignition switch signal Lighting switch position signal Front door switch signal (driver side)

WARNING CHIME SYSTEM: Component Parts Location

INFOID:0000000001080321

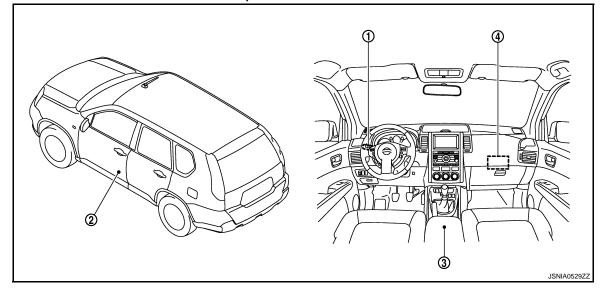
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- 1. Combination switch (Lighting switch)
- 2. Front door switch (driver side)
- 3. Parking brake switch

4. BCM

WARNING CHIME SYSTEM: Component Description

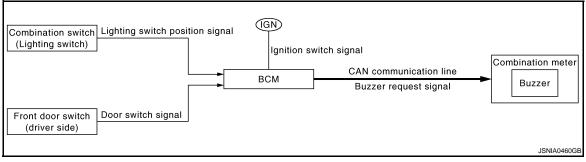
INFOID:0000000001080322

Unit	Description		
Combination meter	 Receives the buzzer output signal from BCM with the CAN communication line and sounds the buzzer. Judges the remaining parking brake according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from parking brake switch to sound the warning buzzer. 		
BCM	Transmits signals received from each unit to the combination meter with the CAN communication line.		
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to combination meter with the CAN communication line.		
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.		
Front door switch (driver side)	Transmits the door switch signal to BCM.		
Parking brake switch	Refer to WCS-17, "Description".		

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME : System Diagram

INFOID:0000000001080323



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LIGHT REMINDER WARNING CHIME: System Description

INFOID:0000000001080324

DESCRIPTION

With ignition switch in OFF or ACC position, driver door open, and lighting switch in 1ST or 2ND position, the light reminder warning chime will sound.

- BCM detects ignition switch in OFF or ACC position, front door switch (driver side) ON, and lighting switch in 1ST or 2ND position. And then transmits buzzer output signal (light reminder warning chime) to combination meter with CAN communication line.
- When combination meter receives buzzer output signal (light reminder warning chime), it sounds the buzzer.

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

- Lighting switch is at 1ST or 2ND position
- · Ignition switch is at OFF or ACC
- Front door switch (driver side) is ON

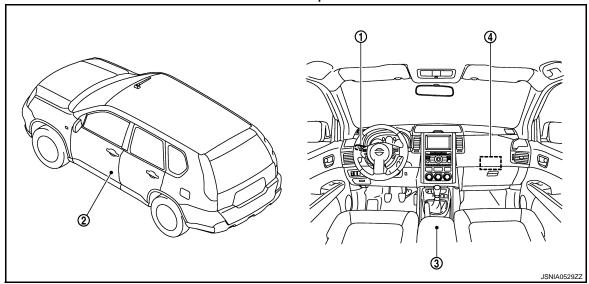
WARNING CANCEL CONDITIONS

Warning is canceled if any of the following conditions is fulfilled.

- Lighting switch OFF
- Ignition switch ON
- Front door switch (driver side) OFF

LIGHT REMINDER WARNING CHIME: Component Parts Location

INFOID:0000000001297236



- 1. Combination switch (Lighting switch)
- 2. Front door switch (driver side)
- 3. Parking brake switch

4. BCM

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:0000000001080326

Unit	Description
Combination meter	Receives a buzzer output signal from the BCM and sounds the buzzer.
ВСМ	Judges the light reminder warning conditions from the signals provided by various switches and transmits a buzzer output signal to the combination meter via CAN communication line if necessary.
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.
Front door switch (driver side)	Transmits the door switch signal to BCM.

PARKING BRAKE RELEASE WARNING CHIME

< FUNCTION DIAGNOSIS >

PARKING BRAKE RELEASE WARNING CHIME: System Diagram

INFOID:0000000001080331

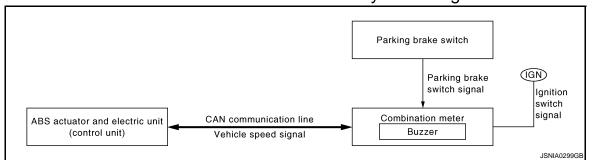
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PARKING BRAKE RELEASE WARNING CHIME: System Description

INFOID:0000000001080332

DESCRIPTION

Parking brake release warning chime judges the remaining parking brake according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from parking brake switch to sound the warning buzzer.

WARNING OPERATION CONDITIONS

If any of the following conditions are fulfilled.

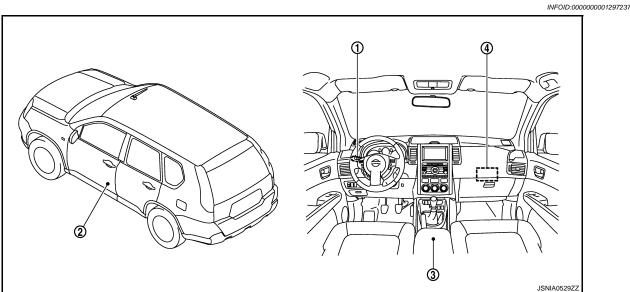
- Vehicle speed is 7 km/h (4.3 MPH) or higher
- Parking brake switch ON

WARNING CANCEL CONDITIONS

Warning is canceled if any of the following conditions is fulfilled.

- Vehicle speed is approximately 3 km/h (1.9 MPH) or less
- · Parking brake switch OFF

PARKING BRAKE RELEASE WARNING CHIME: Component Parts Location



- Combination switch (Lighting switch)
- 2. Front door switch (driver side)
- 3. Parking brake switch

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< FUNCTION DIAGNOSIS >

PARKING BRAKE RELEASE WARNING CHIME: Component Description INFOID.00000001080334

Unit	Description
Combination meter	Judges the remaining parking brake according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from parking brake switch and sounds the warning buzzer.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication.
Parking brake switch	Refer to WCS-17, "Description".

DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (METER)

CONSULT-III Function (METER/M&A)

INFOID:0000000001081148

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CONSULT-III FUNCTION (METER/M&A)

System	Diagnosis mode	Description
METER/M&A	Self Diagnostic Result	Combination meter checks the conditions and displays memorized error.
METER/MOA	Data Monitor	Displays combination meter input/output data in real time.

SELF DIAGNOSTIC RESULT

Refer to MWI-64, "DTC Index".

DATA MONITOR

Display Item List

Display item [Unit]	MAIN SIGNALS	X: Applicabl Description
SPEED METER [km/h]	X	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line. NOTE: 655.35 is displayed when the malfunction signal is received.
SPEED OUTPUT [km/h]	х	Vehicle speed signal value transmitted to other units with CAN communication line. NOTE: 655.35 is displayed when the malfunction signal is received.
ODO OUTPUT [km/h or mph]		Odometer signal value transmitted to other units with CAN communication line.
TACHO METER [rpm]	×	Value of the engine speed signal received from ECM with CAN communication line. NOTE: 8191.875 is displayed when the malfunction signal is received.
FUEL METER [lit.]	Х	Fuel level indicated on combination meter.
W TEMP METER [°C]	x	Value of engine coolant temperature signal received from ECM with CAN communication line. NOTE: 215 is displayed when the malfunction signal is input.
ABS W/L [On/Off]		Status of ABS warning lamp judged from ABS warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.
VDC/TCS IND [On/Off]		Status of ESP indicator lamp judged from ESP OFF indicator lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.
SLIP IND [On/Off]		Status of slip indicator lamp judged from slip indicator lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.
BRAKE W/L [On/Off]		Status of brake warning lamp judged from brake warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. NOTE: Displays "Off" if the brake warning lamp is illuminated when the valve check starts, the parking brake switch is turned ON or the brake fluid level switch is turned ON.
DOOR W/L [On/Off]		Status of door warning lamp judged from door switch signal received from BCM with CAN communication line.
HI -BEAM IND [On/Off]		Status of high beam indicator lamp judged from high beam request signal received from BCM with CAN communication line.
TURN IND [On/Off]		Status of turn indicator lamp judged from turn indicator signal received from BCM with CAN communication line.

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DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

Display item [Unit]	MAIN SIGNALS	Description
FR FOG IND [On/Off]		Status of front fog lamp indicator lamp judged from front fog light request signal received from BCM with CAN communication line.
RR FOG IND [On/Off]		Status of rear fog lamp indicator lamp judged from rear fog lamp status signal re ceived from BCM with CAN communication line.
OIL W/L [On/Off]		Status of oil pressure warning lamp judged from oil pressure switch signal received from IPDM E/R with CAN communication line.
MIL [On/Off]		Status of malfunction indicator lamp judged from malfunctioning indicator lamp signal received from ECM with CAN communication line.
GLOW IND [On/Off]		Status of glow indicator lamp judged from glow indicator lamp signal received from ECM with the CAN communication line.
CRUISE IND [On/Off]		Status of CRUISE indicator judged from ASCD CRUISE lamp signal received from ECM with CAN communication line.
SET IND [On/Off]		Status of set indicator judged from ASCD SET indicator signal received from ECM with CAN communication line.
ATC/T-AMT W/L [On/Off]		Status of A/T check warning lamp judged from A/T CHECK indicator lamp signal received from TCM with the CAN communication line.
4WD W/L [On/Off]		Status of 4WD warning lamp judged from 4WD warning lamp signal received from 4WD control unit with CAN communication line.
4WD LOCK IND [On/Off]		Status of 4WD lock indicator judged from 4WD signal received from 4WD control unit with the CAN communication line.
FUEL W/L [On/Off]	Х	Status of Low-fuel warning lamp judged from identified fuel level.
KEY G/Y W/L [On/Off]		Status of key warning lamp (G/Y) judged from key warning signal received from Intelligent Key unit with CAN communication line.
KEY R W/L [On/Off]		Status of key warning lamp (R) judged from key warning signal received from Intelligent Key unit with CAN communication line.
KEY KNOB W/L [On/Off]		Status of Key knob switch received from Intelligent Key unit with the CAN communication line.
EPS W/L [On/Off]		Status of EPS warning lamp judged from EPS warning lamp signal received from EPS control unit with the CAN communication line.
HDC W/L [On/Off]		Status of HDC warning lamp judged from HV system warning lamp signal received from ABS actuator and electric unit (control unit) with the CAN communication line.
SHIFT IND [P/ R/ N/ D/ M1/ M2/ M3/ M4/ M5/ M6]		Status of shift position indicator judged from shift position signal and manual mode indicator signal received from TCM with CAN communication line.
O/D OFF SW [On/Off]		Status of O/D OFF switch.
A/T S MODE SW		Status of snow mode switch.
M RANGE SW [On/Off]	Х	Status of mode select switch (manual).
NM RANGE SW [On/Off]	Х	Status of mode select switch (auto).
AT SFT UP SW [On/Off]	Х	Status of position select switch (up).
AT SFT DWN SW [On/Off]	Х	Status of position select switch (down).
COMP F/B SIG [On/Off]		A/C compressor activation condition that ECM judges according to the water temperature and the acceleration degree.
PKB SW [On/Off]		Status of parking brake switch.

DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

Display item [Unit]	MAIN SIGNALS	Description
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.
DISTANCE [km]	Х	Value of possible driving distance calculated by combination meter.
OUTSIDE TEMP [°C or °F]		Ambient temperature value converted from OAT sensor signal received from OAT sensor. NOTE: This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the OAT sensor input value.)
FUEL LOW SIG [On/Off]		Status of fuel level low warning signal to output to AV control unit with CAN communication line.
BUZZER [On/Off]	х	Buzzer status (in the combination meter) judged with the buzzer output signal received from BCM via CAN communication and the warning output condition of the combination meter.

NOTE:

Some items are not available according to vehicle specification.

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000001307327

APPLICATION ITEM

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

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Results	Displays the diagnosis results judged by BCM. Refer to BCS-65, "DTC Index".
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	CONSULT-III	Diagnosis mode		
System	sub system selection item	WORK SUPPORT	DATA MONITOR	ACTIVE TEST
_	BCM	×		
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER	×	×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
_	PTC HEATER*			

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

BUZZER

BUZZER: CONSULT-III Function (BCM - BUZZER)

INFOID:0000000001080344

CONSULT-III FUNCTION (BCM - BUZZER)

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

Test item	Diagnosis mode	Description
Data Monitor		Displays BCM input data in real time.
	Active Test	Operation of electrical loads can be checked by sending driving signal to them.

DATA MONITOR

Display item [Unit]	Description
IGN ON SW [On/Off]	Ignition switch (ON) status judged by ignition power supply input.
KEY ON SW [On/Off]	Key switch status.
DOOR SW -DR [On/Off]	Front door switch (driver side) status judged by BCM.
TAIL LAMP SW [On/Off]	Lighting switch status judged by the lighting switch signal read with combination switch reading function.

ACTIVE TEST

Display item	Description
LIGHT WARN ALM	The light reminder warning operation can be checked by operating the relevant function (On/Off).
ANTI KEY LOCK IN	The anti key lock in warning operation can be checked by operating the relevant function (On/Off).
KEY REMINDER WARN	The key reminder warning operation can be checked by operating the relevant function (On/Off).

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER: Diagnosis Procedure

INFOID:0000000001081149

1.CHECK FUSE

Check for blown fuses.

Terminal No.	Signal name	Fuses No.
1	Battery power supply	9
2	Ignition signal	3

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector terminals 1, 2 and ground.

	Terminals		Ignition switch position		
(+)			ignition switch position		
Combina	Connector Terminal		OFF	ON	
Connector	Terminal		011	ON	
M34	1	Ground	Battery voltage	Battery voltage	
10134	2	Giodila	Approx. 0 V	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between combination meter and fuse.

3. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter connector.
- 3. Check continuity between combination meter harness connector terminals 3, 23 and ground.

Combination meter			Continuity	
Connector Terminal		Ground	Continuity	
M34	3	Glound	Existed	
10134	23		LXISIEG	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000001367522

1. CHECK FUSES AND FUSIBLE LINK

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

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

Terminal No.	Signal name	Fuses and fusible link No.
41	Detter i revier currly	10
57	Battery power supply	J
4	ACC power supply	20
3	Ignition power supply	1

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

Terminals		Ignition switch position		neition	
(+)			ignition switch position		JSILIOIT
BCM		(–)	OFF	ACC	ON
Connector	Terminal		Orr	ACC	ON
M67	57		Battery	Battery	Battery
M66	41		voltage	voltage	voltage
M65	4	Ground	Approx. 0 V	Battery voltage	Battery voltage
WOJ	3		Approx. 0 V	Approx. 0 V	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	ВСМ		Continuity
Connector Terminal		Ground	Continuity
M67	55		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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METER BUZZER CIRCUIT

< COMPONENT DIAGNOSIS >

METER BUZZER CIRCUIT

Description INFOID:000000001080347

- The buzzer for warning chime system is installed in the combination meter.
- The combination meter sounds the alarm buzzer based on the signals transmitted from various units.

Component Function Check

INFOID:0000000001080348

1. CHECK OPERATION OF METER BUZZER

- 1. Select "BUZZER" of "BCM" on CONSULT-III.
- 2. Perform "LIGHT WARN ALM" of "ACTIVE TEST".

Does meter buzzer beep?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK COMBINATION METER INPUT SIGNAL

Select the "Data Monitor" for the "METER/M&A" and check the "BUZZER" monitor value.

BUZZER

Under the condition of buzzer input : On Except above : Off

Is the inspection result normal?

YES >> Replace combination meter.

NO >> Replace BCM. Refer to BCS-68, "Exploded View".

Diagnosis Procedure

INFOID:0000000001080349

1. CHECK POWER SUPPLY AND GROUND CIRCUIT OF COMBINATION METER

Check power supply and ground circuit of combination meter. Refer to <u>WCS-14</u>, "COMBINATION METER: <u>Diagnosis Procedure</u>".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

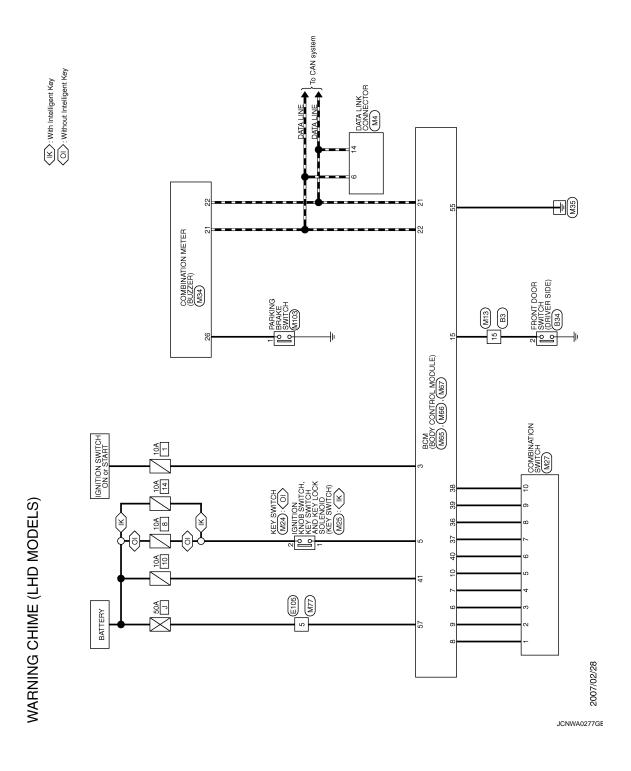
PARKING BRAKE SWITCH SIGNAL CIRCUIT Α Description INFOID:0000000001080355 Transmits the parking brake switch signal to the combination meter. В Diagnosis Procedure INFOID:0000000001080356 1. CHECK COMBINATION METER INPUT SIGNAL Turn ignition switch ON. 2. Check voltage between combination meter harness connector terminal 26 and ground. D 26 - Ground Parking brake ON : Approx. 0 V Е Parking brake OFF : Approx. 5 V Is the inspection result normal? YES >> INSPECTION END F NO >> GO TO 2. 2.check parking brake switch signal circuit Turn ignition switch OFF. Disconnect combination meter connector and parking brake switch connector. 2. Check continuity between combination meter harness connector terminal 26 and parking brake switch harness connector terminal 1. Н 26 - 1: Continuity should exist. Check continuity between combination meter harness connector terminal 26 and ground. 26 - Ground : Continuity should not exist. Is the inspection result normal? YES >> INSPECTION END NO >> Repair harness or connector. Component Inspection INFOID:0000000001080357 Refer to BRC-47, "Component Inspection". M

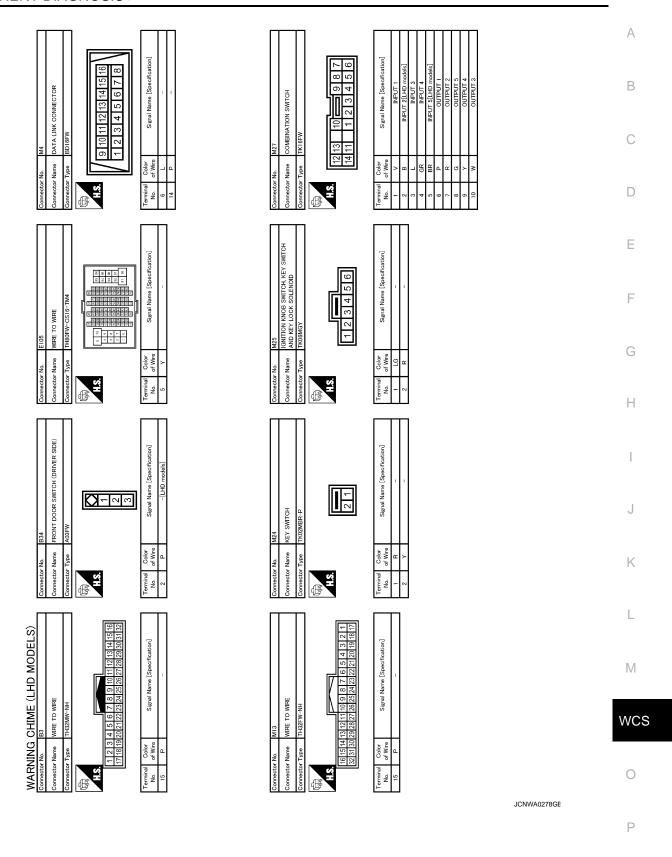
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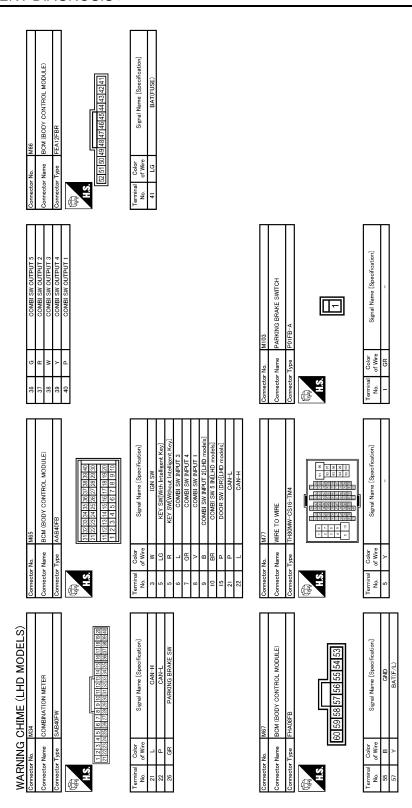
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Wiring Diagram - WARNING CHIME (LHD MODELS) -

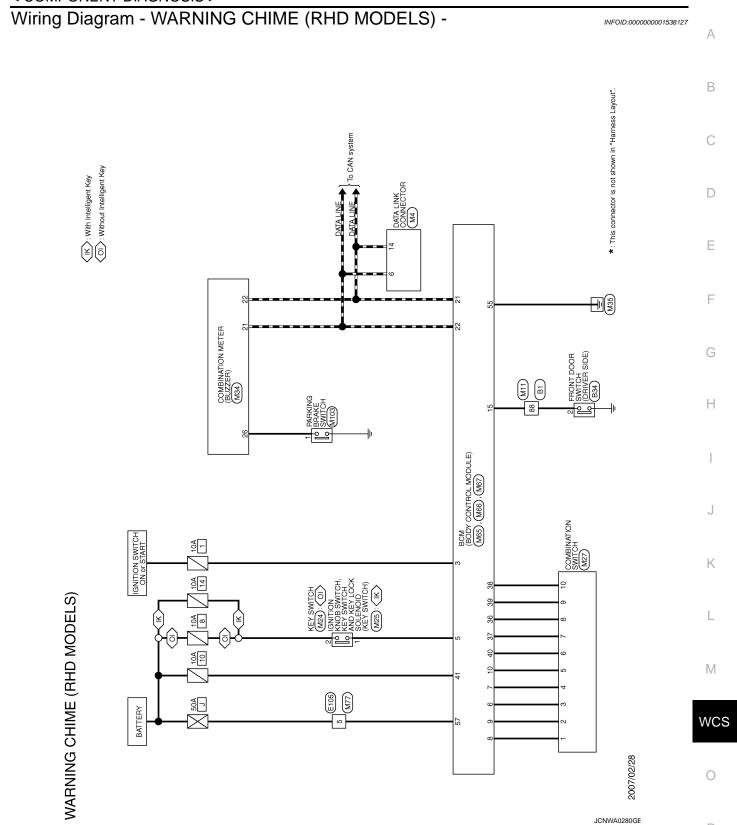
INFOID:0000000001538126



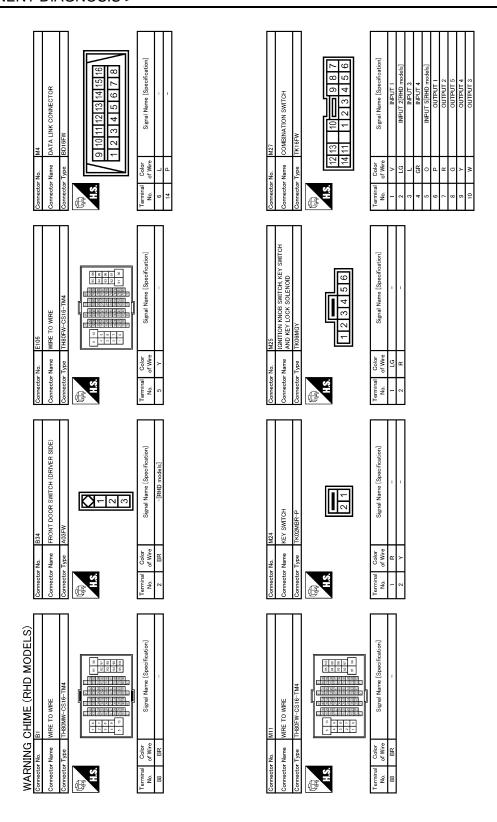




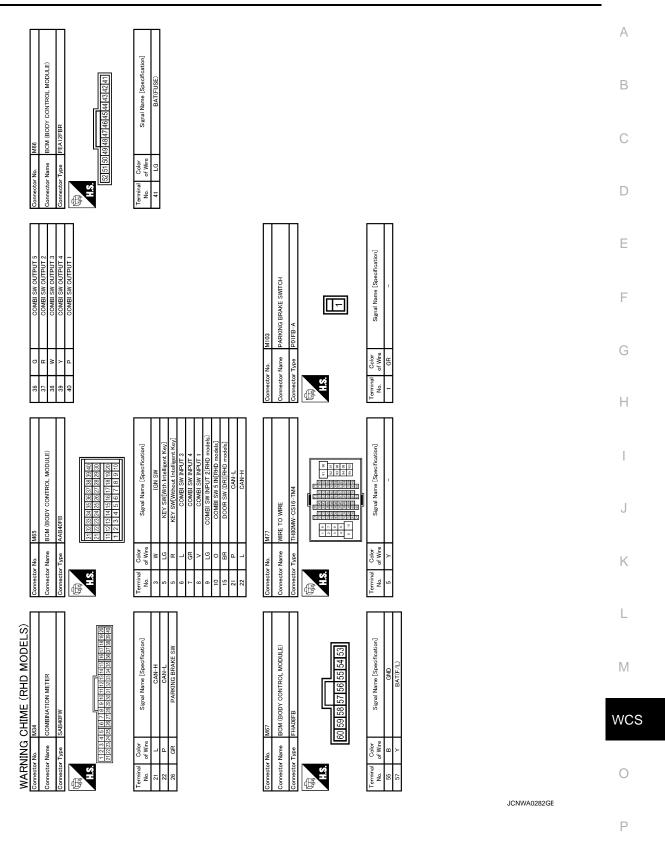
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ECU DIAGNOSIS

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status	
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received	
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received	
ODO OUTPUT	Ignition switch ON	_	Equivalent to odometer reading in combination meter	
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading NOTE: 8191.875 is displayed when the mal- function signal is received	
FUEL METER [lit]	Ignition switch ON	_	Values according to fuel level	
W TEMP METER [°C]	Ignition switch ON	_	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input	
A DO 14/1	Ignition switch	ABS warning lamp ON	On	
ABS W/L	ON	ABS warning lamp OFF	Off	
VDO/TOO IND	Ignition switch	ESP OFF indicator lamp ON	On	
VDC/TCS IND	ON	ESP OFF indicator lamp OFF	Off	
CLUD IND	Ignition switch	SLIP indicator lamp ON	On	
SLIP IND	ON	SLIP indicator lamp OFF	Off	
	Ignition switch	Brake warning lamp ON	On	
BRAKE W/L	ON	Brake warning lamp OFF	Off	
DOOD \\//	Ignition switch	Door warning lamp ON	On	
DOOR W/L	ON	Door warning lamp OFF	Off	
LUDEAMIND	Ignition switch	High beam indicator lamp ON	On	
HI-BEAM IND	ON	High beam indicator lamp OFF	Off	
TUDNUND	Ignition switch	Turn signal indicator lamp ON	On	
TURN IND	ON	Turn signal indicator lamp OFF	Off	
ED EGG IND	Ignition switch	Front fog lamp indicator lamp ON	On	
FR FOG IND	ON	Front fog lamp indicator lamp OFF	Off	
	Ignition switch	Rear fog lamp indicator lamp ON	On	
RR FOG IND	ON	Rear fog lamp indicator lamp OFF	Off	
OH W/	Ignition switch	Oil pressure warning lamp ON	On	
OIL W/L	ON	Oil pressure warning lamp OFF	Off	
	Ignition switch	Malfunction indicator lamp ON	On	
MIL	ON ON	Malfunction indicator lamp OFF	Off	

< ECU DIAGNOSIS >

Monitor Item		Condition	Value/Status	Λ.
CLOWIND	Ignition switch	Glow indicator lamp ON	On	_ A
GLOW IND	ON	Glow indicator lamp OFF	Off	_
CDUICE IND	Ignition switch	Cruise indicator lamp ON	On	В
CRUISE IND	ON	Cruise indicator lamp OFF	Off	_
CET IND	Ignition switch	SET indicator lamp ON	On	_
SET IND	ON	SET indicator lamp OFF	Off	С
ATC/T AMT M/I	Ignition switch	TCM electronic control system warning lamp ON	On	_
ATC/T-AMT W/L ON	ON	TCM electronic control system warning lamp OFF	Off	– D
ANAID NAIII	Ignition switch	4WD warning lamp ON	On	
4WD W/L	ŎN	4WD warning lamp OFF	Off	_ E
WALL COLVING	Ignition switch	4WD LOCK indicator lamp ON	On	_
4WD LOCK IND	ŎN	4WD LOCK indicator lamp OFF	Off	_
	Ignition switch	Low-fuel warning lamp ON	On	_
FUEL W/L	UEL W/L ON	Low-fuel warning lamp OFF	Off	_
	Ignition switch	KEY warning lamp (green/yellow) ON	On	G
KEY G/Y W/L Igrillori swill	•	KEY warning lamp (green/yellow) OFF	Off	_
	Ignition switch	KEY warning lamp (red) ON	On	— Н
KEY R W/L Ignit	•	KEY warning lamp (red) OFF	Off	_ ''
	Ignition switch	LOCK warning lamp ON	On	_
KEY KNOB W//I	ON SWITCH	LOCK warning lamp OFF	Off	-
	Ignition switch	EPS warning lamp ON	On	_
EPS W/L	ON	EPS warning lamp OFF	Off	_
	Ignition switch	HDC warning lamp ON	On	J
HDC W/L	ON	HDC warning lamp OFF	Off	_
		Shift position indicator P display	P	_ K
		Shift position indicator R display	R	_
		Shift position indicator N display	N	_
		Shift position indicator D display	D	_ L
		Shift position indicator M1 display	M1	_
SHIFT IND	Ignition switch ON	Shift position indicator M2 display	M2	
		Shift position indicator M3 display	M3	
				_
		Shift position indicator M4 display	M4	- WC
		Shift position indicator M5 display	M5	
		Shift position indicator M6 display	M6	_
O/D OFF SW	Ignition switch ON	O/D OFF indicator lamp ON	On On	0
	OIN	O/D OFF indicator lamp OFF	Off	_
AT S MODE SW	Ignition switch	Snow mode switch ON	On On	— _Р
	ON	Snow mode switch OFF	Off	_
M RANGE SW	Ignition switch	MANUAL MODE	On	_
	ON	Other than the above	Off	_
NM RANGE SW	Ignition switch	MANUAL MODE	Off	_
	ON	Other than the above	On	

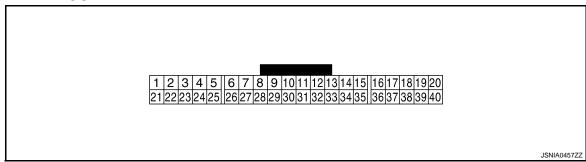
< ECU DIAGNOSIS >

Monitor Item		Condition	Value/Status	
AT SFT UP SW	Ignition switch	Selector lever (+) position	On	
	ON	Other than the above	Off	
AT SFT DWN SW	Ignition switch	Selector lever (–) position	On	
	ON	Other than the above	Off	
COMP F/B SIG	Ignition switch	A/C compressor activation condition	On	
	ON	A/C compressor deactivation condition	Off	
PKB SW	Ignition switch	Parking brake switch ON	On	
	ON	Parking brake switch OFF	Off	
BRAKE OIL SW	Ignition switch	Brake fluid level switch ON	On	
	ON	Brake fluid level switch OFF	Off	
DISTANCE [km]	Ignition switch ON	_	Possible driving distance calculated by combination meter	
OUTSIDE TEMP [°C or °F]	Ignition switch ON	_	Equivalent to ambient air temperature NOTE: This may not match the indicated value on the information display.	
FUEL LOW SIG	Ignition switch ON	Low-fuel warning displayed	On	
		Low-fuel warning not displayed	Off	
BUZZER	Ignition switch ON	Buzzer ON	On	
		Buzzer OFF	Off	

NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
1 (G)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
2 (P)	Ground	IGN signal	Input	Ignition switch ON	_	Battery voltage	
3 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	
8* Ground			Ignition	Fuel filter warning lamp ON	0 V		
	Ground	Ground Fuel filter sensor signal	Input	switch ON	Fuel filter warning lamp OFF	12 V	

< ECU DIAGNOSIS >

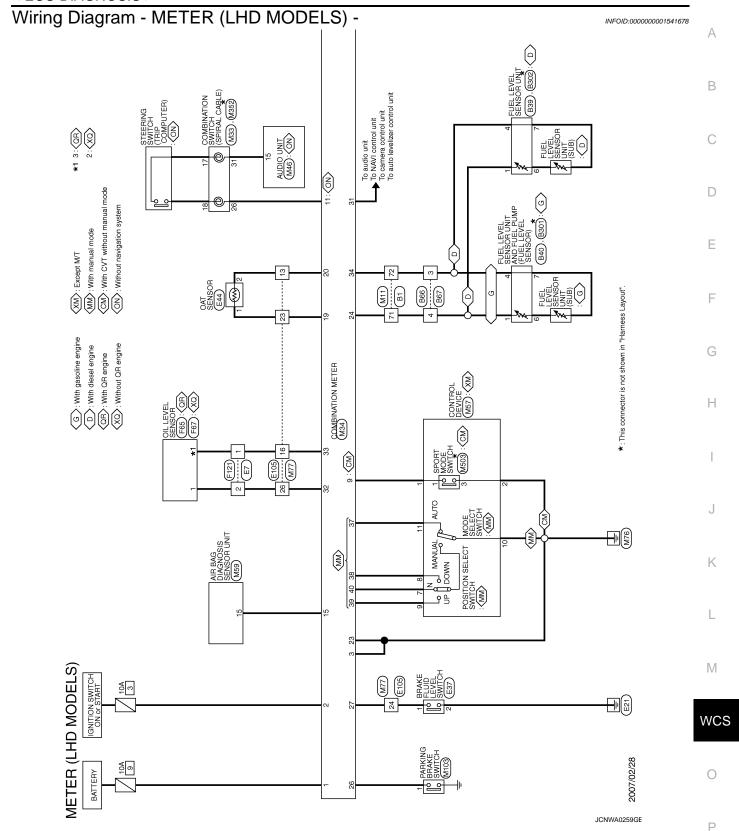
Terminal No. (Wire color) Description		Condition		Value			
+	_	Signal name	Input/ Output	Containon		(Approx.)	
0				Ignition	O/D OFF switch pressed	0 V	Е
9 (P)	Ground	O/D OFF switch signal	Input	switch ON	O/D OFF switch not pressed	12 V	
11 (W)	Ground	Steering switch (trip computer) signal			Press the steering switch (trip computer)	0 V	(
(**)		puter) signal		ON	Other than the above	5 V	
15	Ground	Air bara simal	la a cat	Ignition	Air bag warning lamp ON	4 V	- [
(GR)	Ground	Air bag signal	Input switch ON		Air bag warning lamp OFF	0 V	
19 (BR)	Ground	OAT sensor signal	Input	Ignition switch ON	_	(V) 3 2 1 0 -10 0 10 0 10 0 0 0 0 0 0 0 0	(
20 (R)	Ground	OAT sensor ground	_	Ignition switch ON	_	0 V	ŀ
21 (L)	_	CAN-H	_	_	_	_	
22 (P)	_	CAN-L	_	_	_	_	
23 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	
24 (B)	Ground	Fuel level sensor signal ground	_	Ignition switch ON	_	0 V	ŀ
25	_	Alternator signal		Ignition	Charge warning lamp ON	0 V	ı
(BR)	Ground		Input	switch ON	Charge warning lamp OFF	12 V	
26	_			Ignition	Parking brake ON	0 V	
(GR)	Ground	Parking brake switch signal	Input	switch ON	Parking brake OFF	5 V	11
27	Brake fluid level switch sig-		Ignition	Brake fluid level is normal	5 V	W	
(LG)	Ground	nal	Input	switch ON	Brake fluid level is less than low level	0 V	VV
28 (B) Ground	d Security signal	Input	Ignition switch ON	Security warning lamp ON	0 V	(
				Security warning lamp OFF	12 V		

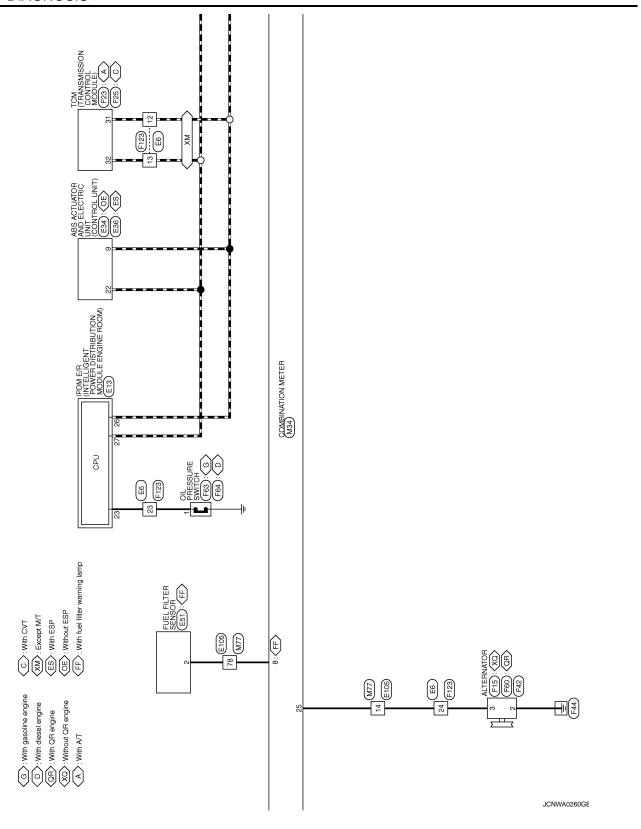
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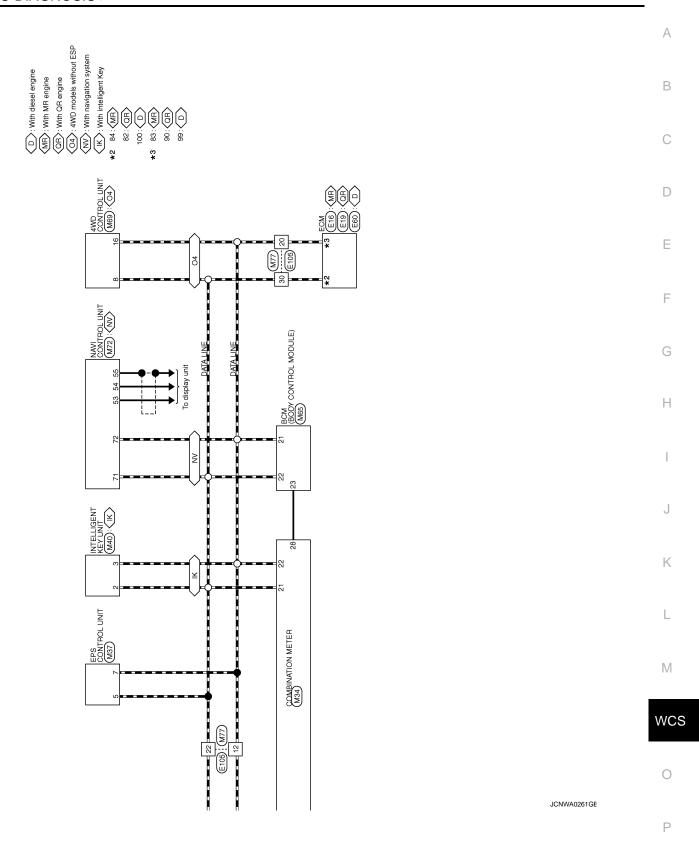
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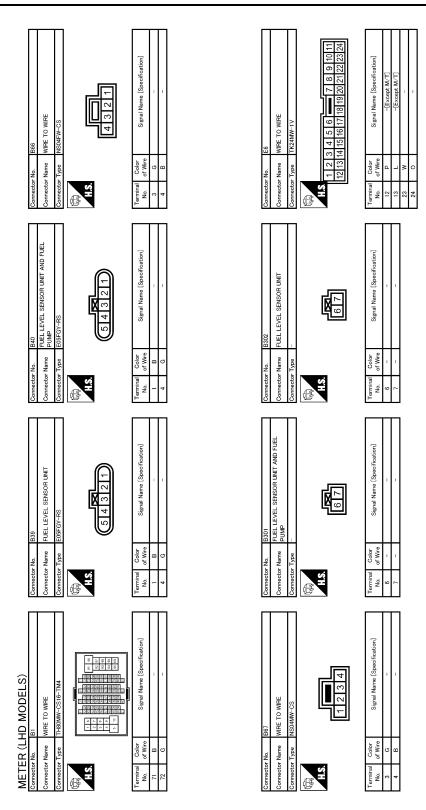
Terminal No. (Wire color)		Description		Condition		Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
31 (V)	Ground	Vehicle speed signal (8 pulse)	Output	Ignition switch ON	Vehicle speed is approximately 40 km/h (25 MPH)	NOTE: The maximum voltage varies depending on the specification (destination unit).	
32 (L)	Ground	Oil level sensor signal	Input	Ignition switch ON	<u></u> -	Refer to MWI-33, "Component Inspection (QR25DE Engine Models)" or MWI-34, "Component Inspection (Except QR25DE Engine Models)". NOTE: The measurement cannot be performed because the signal is input for a moment with the ignition switch ON.	
33 (O)	Ground	Oil level sensor signal ground	_	Ignition switch ON	_	0 V	
34 (G)	Ground	Fuel level sensor signal	Input	Ignition switch ON	_	(V) 4 3 2 1 0 0/13 4/13 7/13 11/13 13/13 JSNIA0423GB	
37	Ground	Not manual mode signal	Input	Ignition switch ON	Manual mode	12 V	
(Y)					Other than the above	0 V	
38 (O)	Ground	Manual mode shift down signal	Input	Ignition switch	Selector lever (–) position Other than the above	0 V	
-	Ground	Manual mode shift up signal	Input	ON Ignition switch ON	Selector lever (+) position	0 V	
39 (V)					Other than the above	12 V	
40	Or	Manual mode signal	Input	Ignition switch ON	Manual mode	0 V	
(LG)	(LG) Ground Mani				Other than the above	12 V	

^{*:} LHD models

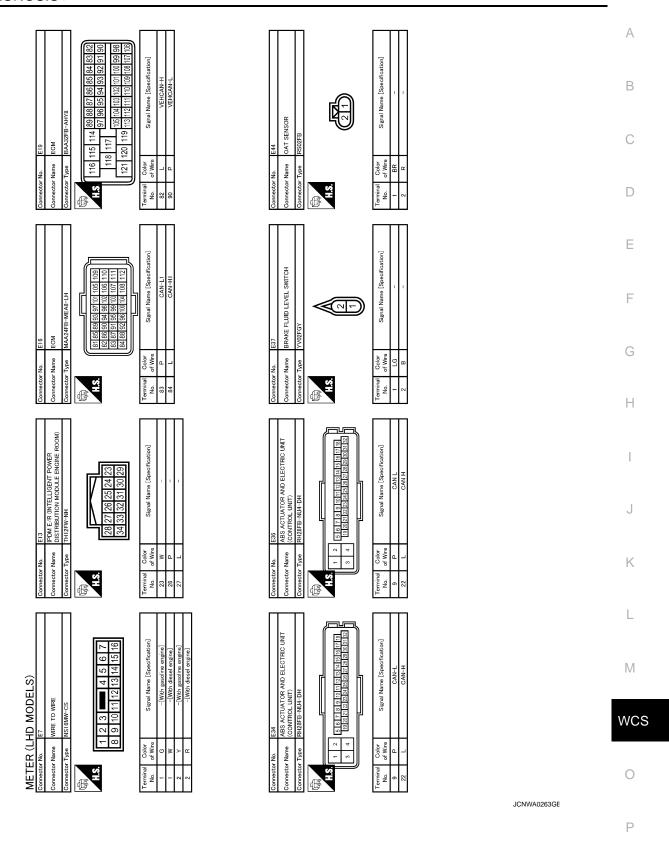


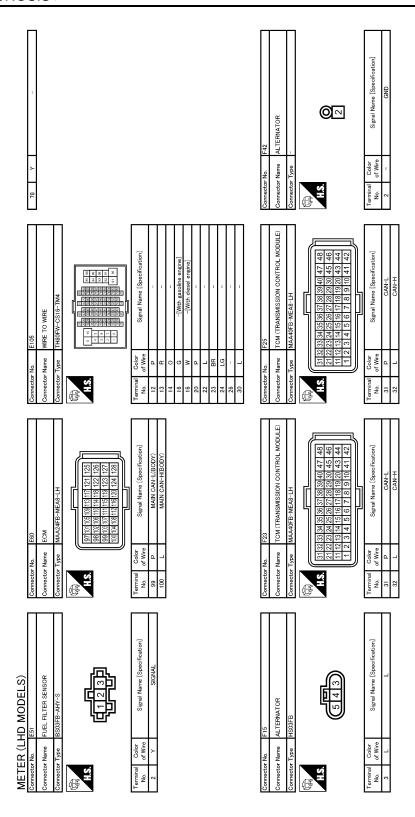




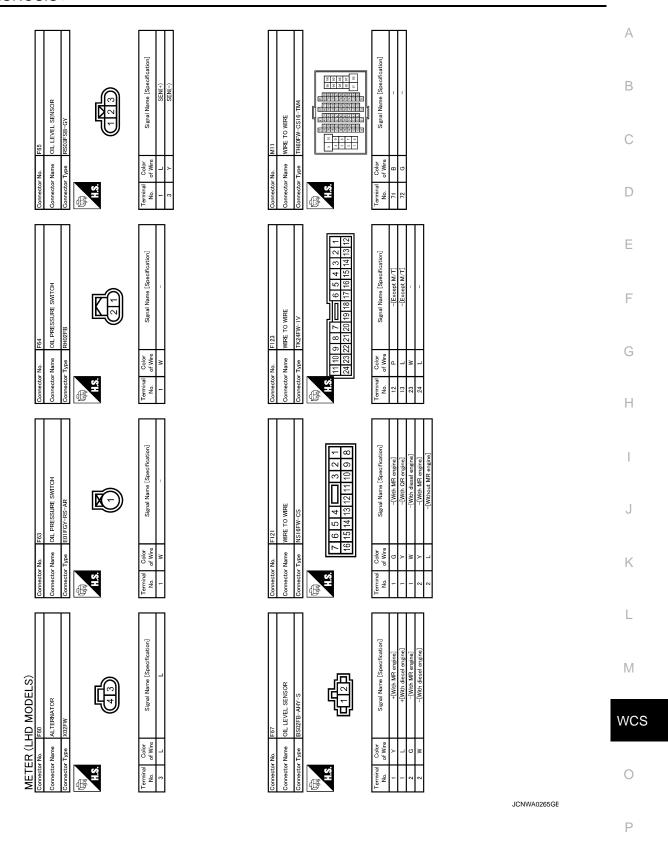


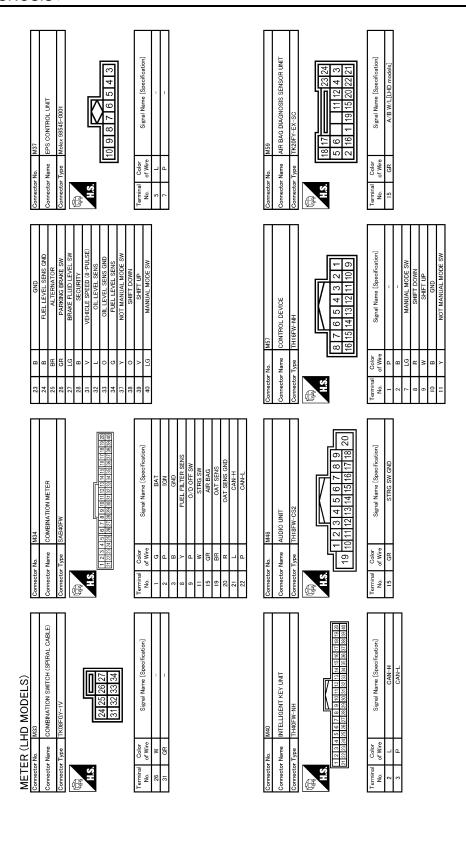
JCNWA0262GE



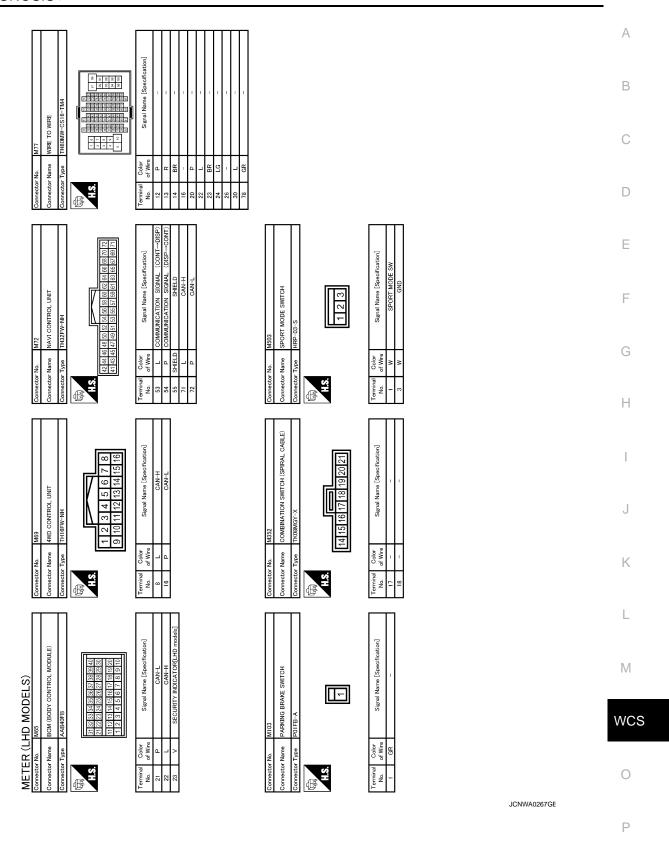


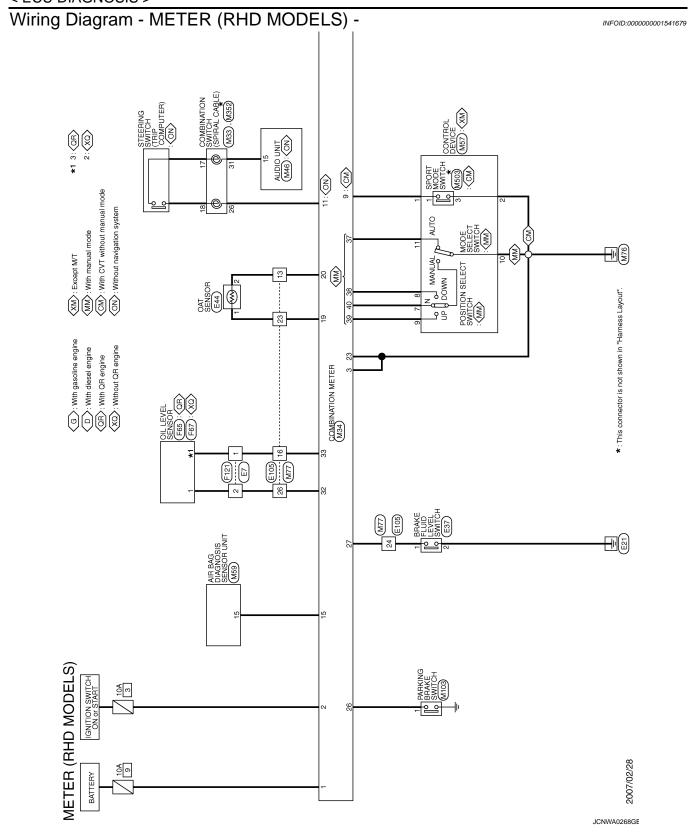
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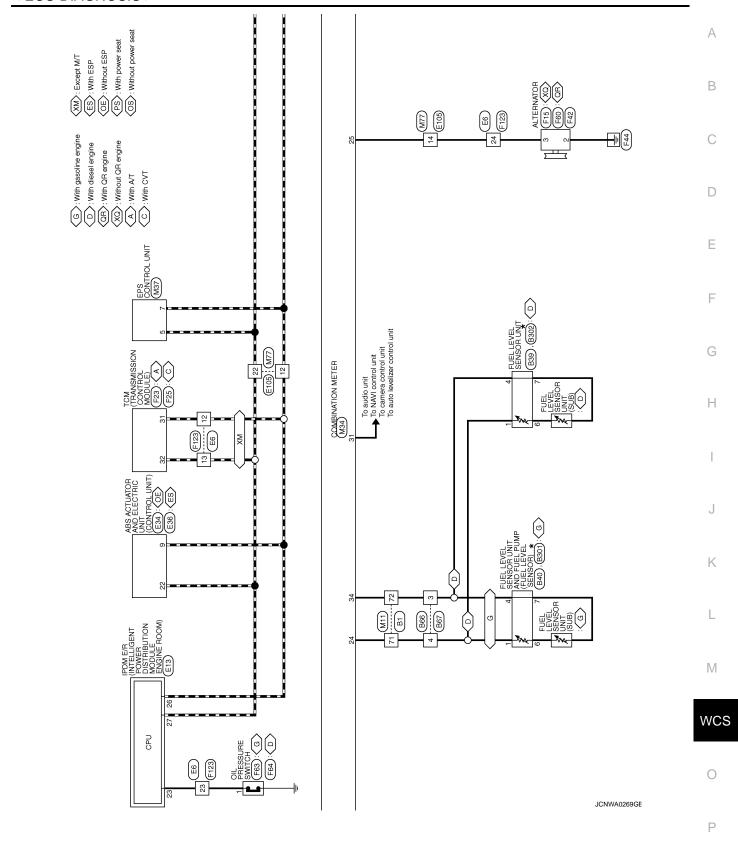


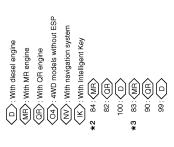


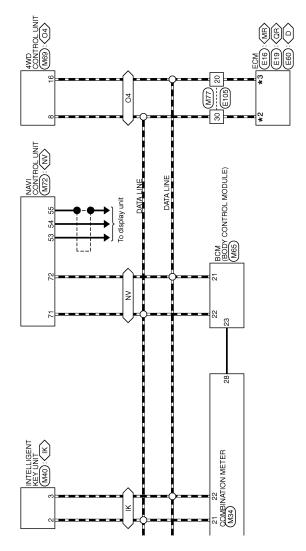
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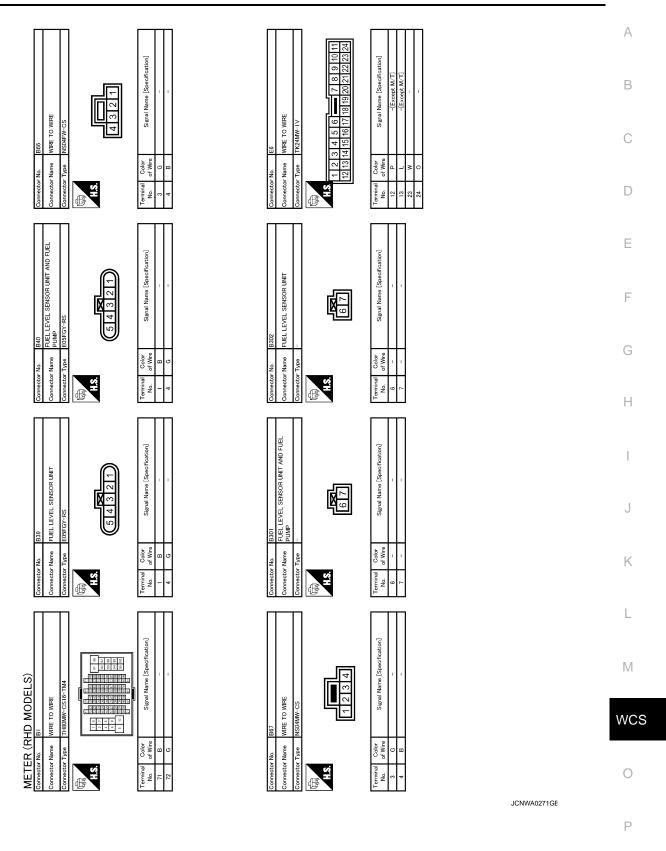


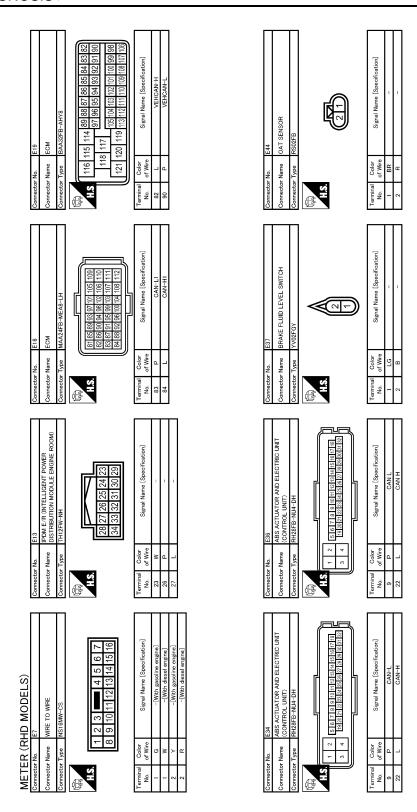




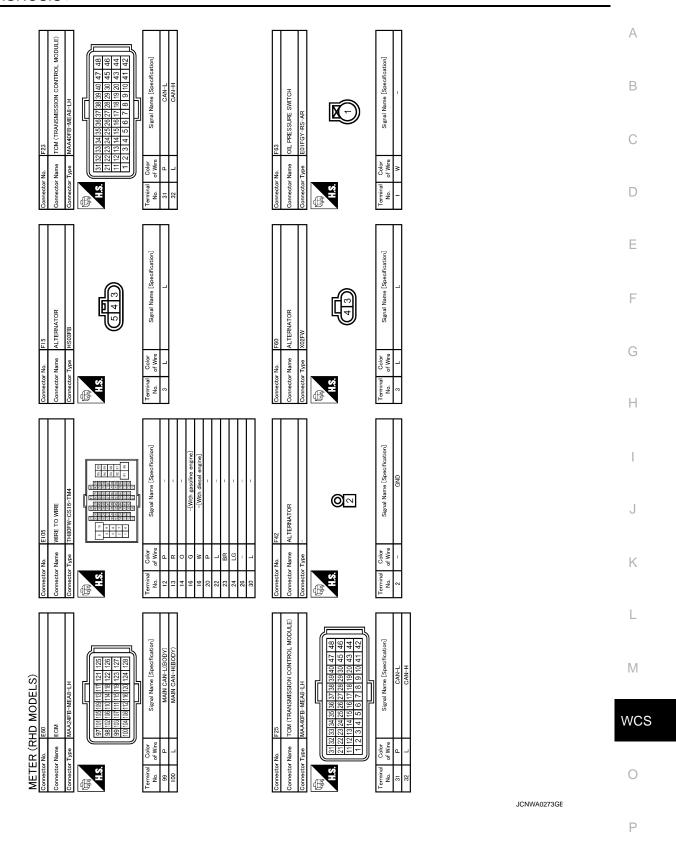


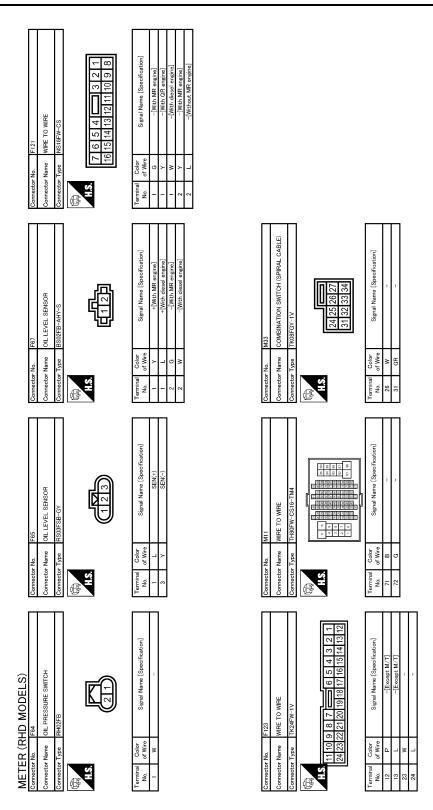
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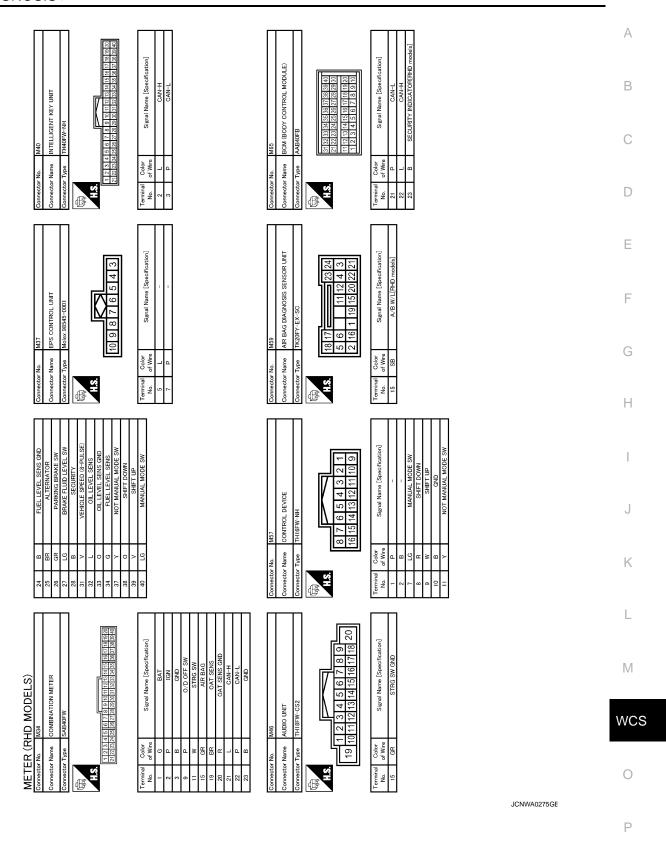


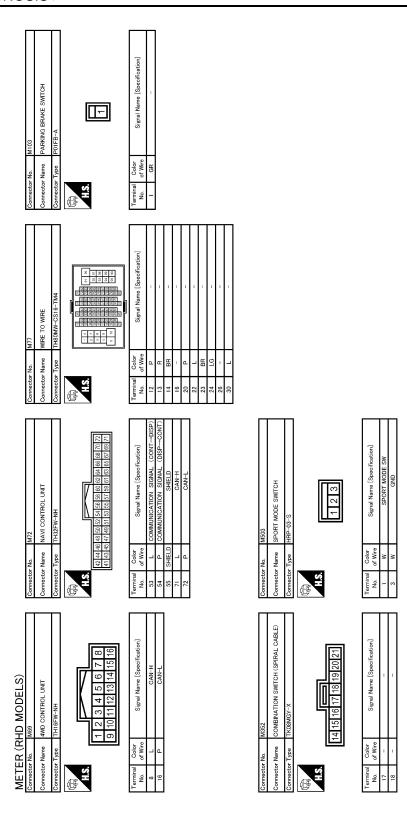
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JCNWA0274GE





JCNWA0276GE

Fail Safe

INFOID:0000000001081152

The combination meter activates the fail-safe control if the CAN communication lines between each unit are malfunctioning.

COMBINATION METER

< ECU DIAGNOSIS >

	Function	Specifications	_	
Speedometer		Reset to zero by suspending communication.		
Tachometer		Reset to zero by suspending communication.		
Meter illumination control		Change to nighttime mode.		
Buzzer		Turned off by suspending communication.		
	ABS warning lamp			
	Brake warning lamp			
	EPS OFF indicator lamp	Turned on by suspending communication.		
	ESP OFF indicator lamp			
	SLIP indicator lamp			
	4WD warning lamp			
	SPORT indicator lamp			
	4WD indicator lamp			
	4WD LOCK indicator lamp			
	Oil pressure warning lamp			
	Door warning lamp			
Warning lamp/indicator lamp	Malfunction indicator lamp			
iap	CRUISE indicator lamp			
	SET indicator lamp			
	Front fog lamp indicator lamp	Turned off by suspending communication.		
	Rear fog lamp indicator lamp			
	Glow indicator lamp			
	DPF warning lamp			
	HDC indicator lamp			
	KEY R/G warning lamp			
	KEY LOCK warning lamp			
	High beam indicator lamp			
	Turn signal indicator lamp			

DTC Index

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WCS

Display contents of CONSULT-III	Time	Diagnostic item is detected when	Refer to
CAN COMM CIRCUIT [U1000]	CRNT, 1 - 39	Combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	<u>MWI-28</u>
CONTROL UNIT (CAN) [U1010]	CRNT, 1 - 39	Detecting error during the initial diagnosis of CAN controller of combination meter.	<u>MWI-29</u>
VEHICLE SPEED [B2205]	CRNT, 1 - 39	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	<u>MWI-30</u>
ENGINE SPEED [B2267]	CRNT, 1 - 39	ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	<u>MWI-31</u>
WATER TEMP [B2268]	CRNT, 1 - 39	ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-32
OIL LEV SEN OPEN [B2321]	CRNT, 1 - 39	Combination meter judged that the oil level sensor signal circuit is open-circuited for 1 second or more.	• <u>MWI-33</u> (QR25DE)
OIL LEV SEN SHORT [B2322]	CRNT, 1 - 39	Combination meter judged that the oil level sensor signal circuit is short-circuited for 1 second or more.	•MWI-33 (Except QR25DE)

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

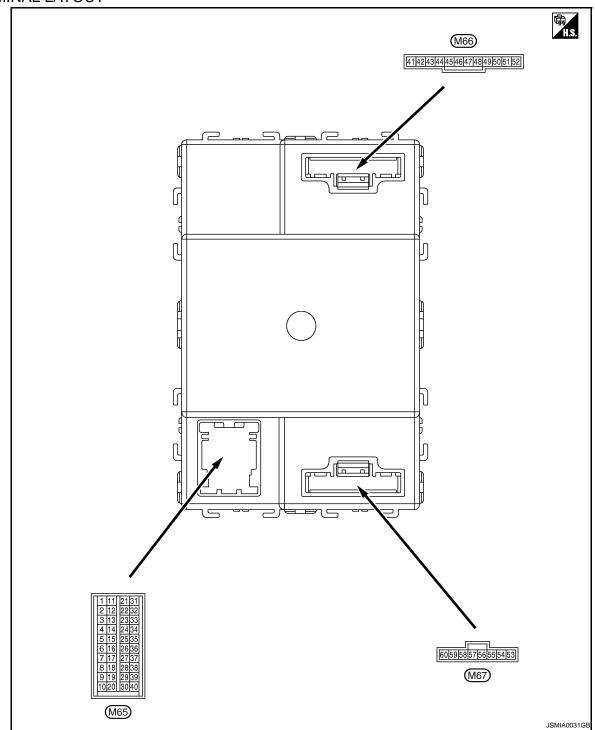
VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
VEHICLE SPEED	While driving	Equivalent to speedometer reading
ICNI ONI CIMI	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
KEY ON OW	Mechanical key is removed from key cylinder	Off
KEY ON SW	Mechanical key is inserted to key cylinder	On
001 1 001 011	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOD OW DD	Driver's door closed	Off
DOOR SW-DR	Driver's door opened	On
DOOD CW 40	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
D00D 0W DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
D00D 0W DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DAOK DOOD OW	Back door closed	Off
BACK DOOR SW	Back door opened	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
L KEV LINILOCK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
PUSH SW	Return to ignition switch to "LOCK" position	Off
PUSH 200	Press ignition switch	On
KEVI ESS LOCK	"LOCK" button of key fob is not pressed	Off
KEYLESS LOCK	"LOCK" button of key fob is pressed	On
KEALESS TIMEOSK	"UNLOCK" button of key fob is not pressed	Off
KEYLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
	Ignition switch ON	NOMAL
SHOCK SENSOR	After the reception of air bag deployment signal from air bag diagnosis sensor unit	Off
	During the reception of air bag deployment signal from air bag diagnosis sensor unit	On
LINILOCK CLICOK	Other than the following	Off
UNLOCK SHOCK	During the unlock operation interlocked with air bag	On
LINI OCK WITH DD	NOTE:	On
UNLOCK WITH DR	The item is indicated, but not monitored	Off

Monitor Item	Condition	Value/Status
OCK WITH SPEED	Vehicle speed sensing auto door lock function does not operate	Off
LOCK WITH SPEED	Vehicle speed sensing auto door lock function is operating	On
ACC ON CW	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE OM	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
TAIL LAMP SW	Lighting switch OFF	Off
TAIL LAWIP SVV	Lighting switch 1ST	On
TURN SIGNAL R	Turn signal switch OFF	Off
TORN SIGNAL R	Turn signal switch RH	On
TURN SIGNAL L	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
JI DEAM CW	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
HEAD LAMP SW 1	Lighting switch OFF	Off
ILAD FUNIL 200 I	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
HEAD LAIVIP SW 2	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
-ASSING SW	Lighting switch PASS	On
AUTO LIGHT SW	Lighting switch OFF	Off
	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
-K FOG SW	Front fog lamp switch ON	On
RR FOG SW	Rear fog lamp switch OFF	Off
N FOG SW	Rear fog lamp switch ON	On
ENGINE RUN	Engine stopped	Off
INGINE RON	Engine running	On
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK
III-OLIVI AIL	Light & rain sensor is with error	NOTOK
AUT LIGHT SYS	Outside of the room is dark	On
	Outside of the room is bright	Off
HD LIGHT TIME	_	Displays a setting time of the follow me home function set by the work support
CNI CIAI CANI	Ignition switch OFF or ACC	Off
GN SW CAN	Ignition switch ON	On
בם איוסבם ביי	Front wiper switch OFF	Off
R WIPER HI	Front wiper switch HI	On
	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On
	Front wiper switch OFF	Off
FR WIPER INT	Front wiper switch INT	On
	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On

Monitor Item	Condition	Value/Status
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
RR WIPER ON	Rear wiper switch OFF	Off
KK WIFEK ON	Rear wiper switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
KIX WIF LIX IINI	Rear wiper switch INT	On
RR WIPER STOP	Rear wiper stop position	Off
KK WIFEK STOP	Other than rear wiper stop position	On
RR WASHER SW	Rear washer switch OFF	Off
KK WASHEK SW	Rear washer switch ON	On
REVERSE SW CAN	NOTE:	Off
REVERSE SW CAN	The item is indicated, but not monitored	On
H/L WASH SW	When headlamp washer switch is not pressed	Off
H/L WASH SW	When headlamp washer switch is pressed	On
FAN ON SIG	Blower fan motor switch OFF	Off
TAN ON SIG	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
AIR COND 3W	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
HAZARD CW	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
BRAKE SW	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
TRNK OPNR SW	When back door opener switch is not pressed	Off
TRINK OF INIC SW	When back door opener switch is pressed	On
HOOD SW	Close the hood NOTE: Vehicles without theft warning system are OFF-fixed	Off
	Open the hood	On
ALITO DEL COM	Auto lock function does not operate	Off
AUTO RELOCK	Auto lock function is operating	On
OLO DDEAK OEN	The vehicle without glass break sensor	Off
GLS BREAK SEN	The vehicle with glass break sensor	On
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off
	Ignition switch ON	On

TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

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

- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-28, "COMB SW: CONSULT-III Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to <u>BCS-9</u>, "System <u>Description"</u>.

WCS-51

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	nal No.	Description			Value	
(Wire	color)	Signal name	Input/ Condition		(Approx.)	
+	_	Signal flame	Output		(41-2-11)	
1 (W)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move	
2 (G)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move	
3	Cround	Ignition power sup-	Innut	Ignition switch OFF or ACC	0 V	
(W)	Ground	ply	Input	Ignition switch ON or START	Battery voltage	
4	Cround	ACC nower aunaly	Innut	Ignition switch OFF	0 V	
(SB)	Ground	ACC power supply	Input	Ignition switch ON or ACC	Battery voltage	
5 (LG) ^{*1}	Ground			Insert mechanical key into ignition key cylinder	Battery voltage	
(R)*2	Giouria	d Key switch Inpu		Remove mechanical key from ignition key cylinder	0 V	

Terminal No. Description (Wire color)					Value	А	
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0165GB 1.4 V	B C D
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0166GB 1.3 V	E
6 (L)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0167GB 1.3 V	G H
					Rear washer switch ON	(V) 15 10 5 0 JPMIA0169GB 1.3 V	J K L
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 JPMIA0196GB	M

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0165GB 1.4 V
					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0166GB 1.3 V
7 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 → 1ms JPMIA0168GB 1.3 V
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 6	(V) 15 10 5 0 → 1ms JPMIA0169GB 1.3 V
					Rear wiper INT (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0196GB 1.3 V

	nal No. color)	Description				Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF	(V) 15 10 5 0 → ←1ms JPMIA0165GB	B C
					Turn signal switch RH	(V) 15 10 5 0 → 1 ms JPMIA0166GB 1.3 V	E
							G
8 (V)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch LH	(V) 15 10 5 0 → —1 ms	Н
						(V) 15 10 5 0	J
					Front wiper switch LO	5 0	K
							L
					Front washer switch ON	(V) ₁₅ 10 5 0	M
						→ 1 ms JPMIA0196GB	WC
						1.3 V	

	nal No. color)	Description			Operatition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 0 JPMIA0165GB 1.4 V
					Lighting switch 2ND	(V) 15 10 5 0 JPMIA0166GB 1.3 V
9 (G) ^{*3} (B) ^{*4}	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch PASS	(V) 15 10 5 0 JPMIA0167GB 1.3 V
					Front wiper switch INT	(V) 15 10 5 0 → 1ms JPMIA0168GB 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 JPMIA0196GB 1.3 V

< ECU DIAGNOSIS >

Terminal No. Description (Wire color)				Value			
+	- color)	Signal name	Input/ Output		Condition	(Approx.)	F
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0165GB	
					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0167GB	E
10 (BR) Grou	Ground	Combination switch INPUT 5	Input	Combination switch	Rear fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 → 1ms JPMIA0168GB 1.3 V	ŀ
				Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0169GB 1.3 V	ŀ	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	W
11 (B)	Ground	Audio link	Input/ Output	_	_	_	(

WCS-57

Terminal No. Description (Wire color)				Value		
+	–	Signal name	Input/ Output		Condition	(Approx.)
12 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) 15 10 5 0 10 ms PKID0924E 11.2 V
					ON (When rear door RH opened)	0 V
13 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) 15 10 5 0 10 ms PKID0924E 11.2 V
					ON (When back door opened)	0 V
14 (P)*3 (BR)*4	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) 15 10 5 0 10 ms PKID0924E 11.2 V
					ON (When passenger door opened)	0 V
15 (BR) ^{*3} (P) ^{*4}	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 10 ms 10 ms PKID0924E
					ON (When driver door opened)	0 V

	nal No. color)	Description			Condition	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	/ \
16 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) 15 10 5 0 10 ms 11.2 V	С
					ON (When rear door LH opened)	0 V	Е
17 (L)	Ground	Door lock status indi- cator	Output	Door lock status indicator	ON OFF	12 V 0 V	_
20 (SB)	Ground	Rear window defog- ger switch	Input	Rear window defogger switch	Not pressed	(V) 15 10 5 0 10ms JPMIA0154GB	F G
					While pressing	0 V	ı
21 (P)	_	CAN-L	Input/ Output		_	_	,
22 (L)	_	CAN-H	Input/ Output		_	_	J
23 (V)	Ground	Security indicator	Output	Security indicator	ON	(V) 15 10 5 0 JPMIA0014GB	K L
				Ignition quitab O	OFF FF or ACC	12 V	.v.a
24 (GR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch O		12 V (V) 15 10 5 0 JPMIA0156GB 8.7 V	O P
25 (G)	Ground	Alarm link	Output		_	_	

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
26 (GR) ^{*5} (LG) ^{*6}	Ground	Blower fan motor switch	Input	Blower fan mo- tor switch	OFF	(V) 15 10 5 0 10 ms 10 ms PKID0924E
					ON (other than OFF)	0 V
27 (P)*5 (Y)*6	Ground	A/C switch	Input	Ignition switch ON	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	(V) 15 10 5 0 10 ms 10 ms PKID0924E 11.2 V
					Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	0 V
				Ignition switch O	FF or ACC	0 V
28 (LG)* ⁷ (R)* ⁸	Ground	Shock detect sensor	Input	Ignition switch O	N	(V) 15 10 5 0 JPMIA0155GB
29 (LG) ^{*3} (O) ^{*4}	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 → 10ms JPMIA0154GB
					Pressed	0 V
32 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Door lock/un- lock switch	Not pressed	(V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10
					Pressed to the unlock side	1.2 V

	nal No.	Description		Condition Value		Value	А	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	^	
33 (W)*9 (Y)*10	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10ms JPMIA0154GB	B C	
					ON	0 V		
34 (SB)*3 (P)*4	Ground	Door lock/unlock switch (Lock)	Input	Door lock/un- lock switch	Not pressed	(V) 15 10 5 0 → ←10ms JPMIA0154GB	E F G	
					Pressed to the lock side	0 V		
35 (G)	Ground	Headlamp washer switch	Input	Headlamp washer switch	Not pressed	(V) 15 10 5 0 → ←10ms JPMIA0154GB	H	
					Pressed to the lock side	0 V		
					All switch OFF Turn signal switch RH	0 V	K	
36	Ground	Combination switch	Output	Combination switch	Lighting switch 2ND Lighting switch HI	(V) 15 10 5 0	L	
(G)	Giodila	OUTPUT 5	Output	(Wiper intermit- tent dial 4)	(Wiper intermit-	Lighting switch 1ST	0 → 2ms JPMIA0164GB	M
					All switch OFF (Wiper intermittent dial 4)	0 V	WC	
					Front washer switch ON (Wiper intermittent dial 4) Rear washer switch ON	(V)	0	
37 (R)	Ground	Combination switch OUTPUT 2 Outp	Output	Combination switch	(Wiper intermittent dial 4) Any of the condition below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	(V) 15 10 5 0 →2ms JPMIA0161GB	Ρ	
					Rear wiper switch ON (Wiper intermittent dial 4)	9.1 V		

+	color)	Signal name	Input/		Condition	Value
			Output			(Approx.)
38 (W)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Front wiper switch LO Front wiper switch MIST Front wiper switch INT Lighting switch AUTO Rear fog lamp switch ON	0 V (V) 15 10 2ms JPMIA0162GB 9.3 V
39 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Turn signal switch LH Lighting switch PASS Lighting switch 2ND Front fog lamp switch ON	0 V (V) 15 10 2ms JPMIA0163GB 9.3 V
40 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Any of the condition below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7 Rear wiper switch INT (Wiper intermittent dial 4)	0 V (V) 15 10 5 0 JPMIA0160GB 9.1 V
41 (LG)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage
42 (V)	Ground	Interior room lamp power supply	Output		p battery saver activation p battery saver no activation	0 V 12 V
43 (SB)	Ground	Rear wiper motor	Output	Rear wiper switch OFF Rear wiper switch ON		0 V 12 V
44 (B)	Ground	Rear wiper auto stop	Input	Ignition switch ON	Rear wiper stop position Any position other than	(V) 15 10 JPMIA0197GB

(vviie	nal No. color)	Description			0 100	Value	Д
+	- COIOT)	Signal name	Input/ Output		Condition	(Approx.)	
45 (V)	Ground	Back door lock actuator	Output	Back door opener switch	Pressed	(V) 15 10 5 0 ++0.1s SKIA9232E	С
					Not pressed Turn signal switch OFF	0 V 0 V	
47 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	F
					Turn signal switch OFF	0 V	
48 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	I
49	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V	L
(Y)					ON	12 V	K
				Driver's door			
50 (G)	Ground	Unlock sensor	Input	Driver's door	Unlock	5 V	•
(G)	Ground		Input		lock	0 V	L
	Ground	Unlock sensor Stop lamp switch	Input	Driver's door Depress the brake Release the brake	lock ke pedal		L
(G) 51 (R)	Ground	Stop lamp switch	Input	Depress the brak	lock ke pedal	0 V Battery voltage	L
(G) 51				Depress the brak	lock ke pedal ke pedal	0 V Battery voltage 0 V	L
(G) 51 (R) 52 (R) 53	Ground	Stop lamp switch Room lamp timer control Power window pow-	Input	Depress the brak Release the brak Interior room lamp	lock ke pedal ke pedal	0 V Battery voltage 0 V 12 V	-
(G) 51 (R) 52 (R)	Ground	Stop lamp switch Room lamp timer control	Input	Depress the brake Release the brake Interior room	lock ke pedal ke pedal OFF ON	0 V Battery voltage 0 V 12 V 0 V	-
(G) 51 (R) 52 (R) 53	Ground	Stop lamp switch Room lamp timer control Power window pow-	Input	Depress the brak Release the brak Interior room lamp	lock ke pedal ke pedal OFF ON OFF or ACC	0 V Battery voltage 0 V 12 V 0 V	W
(G) 51 (R) 52 (R) 53 (L)	Ground Ground	Stop lamp switch Room lamp timer control Power window power supply (IGN) Door unlock (All other than driv-	Input Output Output	Depress the brak Release the brak Interior room lamp Ignition switch	lock ke pedal ke pedal OFF ON OFF or ACC ON	0 V Battery voltage 0 V 12 V 0 V 12 V (V) 15 10 5 0 ++0.1s	W C

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
56 (V)	Ground	Door lock (All) and fuel lid lock	Output	Door lock/un- lock switch	Not pressed Pressed to the lock side	(V) 15 10 5 0
57 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage
58 (P)	Ground	Power window pow- er supply (BAT)	Output	Ignition switch OFF		12 V
59	Crownd	Cuparlask	Outenut	When lock button of key fob or Intelligent Key is not pressed		0 V
(R)	Ground	Super lock	Output	When lock button of key fob or Intelligent Key is pressed		12 V
60 (G)	Ground	Driver's door unlock and fuel lid unlock	Output	Door lock/un- lock switch	Pressed to the unlock side	(V) 15 10 5 0 ++0.1s SKIA9232E
					Not pressed	0 V

^{*1:} With Intelligent Key

^{*2:} Without Intelligent Key

^{*3:} RHD models

^{*4:} LHD models

^{*5:} With gasoline engine

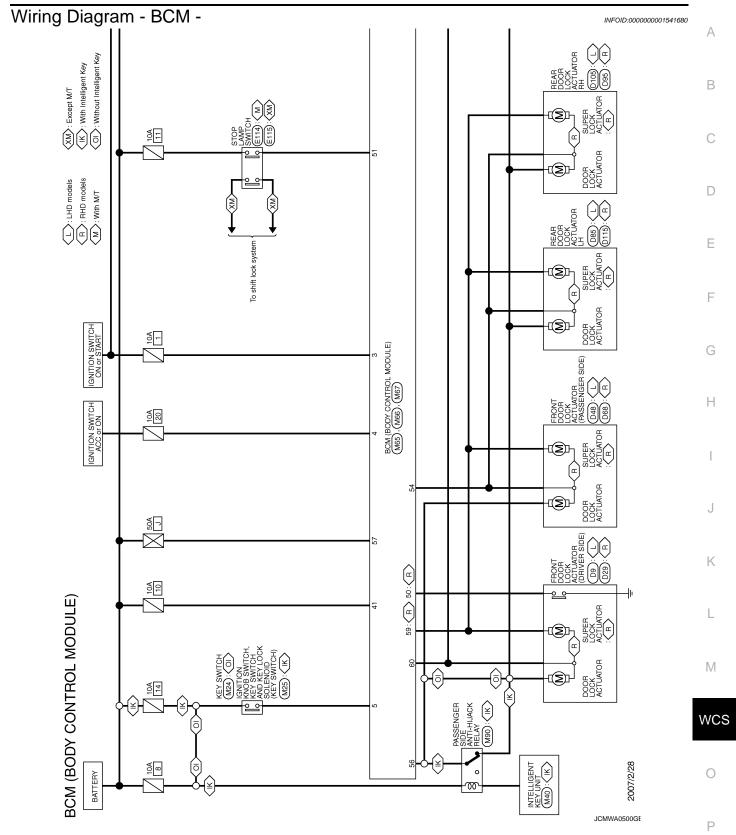
^{*6:} With diesel engine

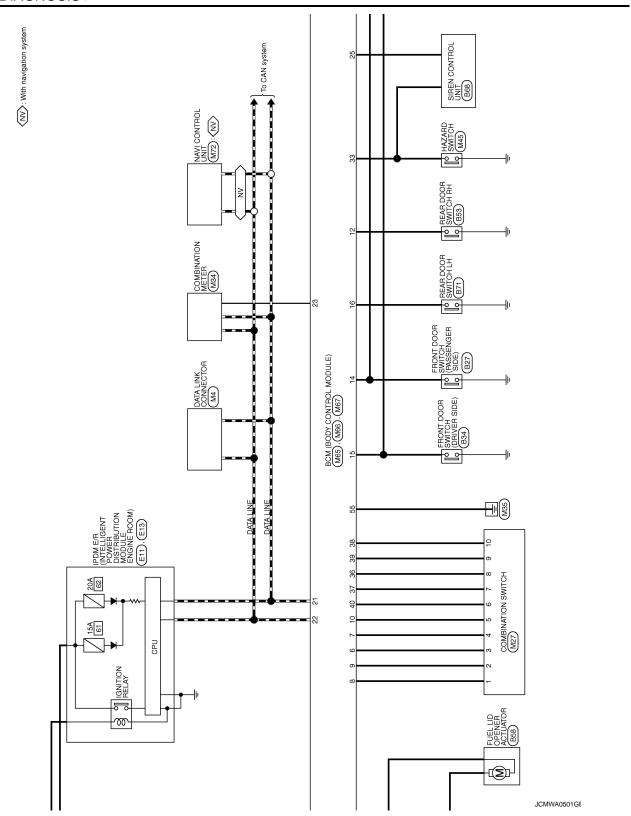
^{*7:} RHD models with side air bag

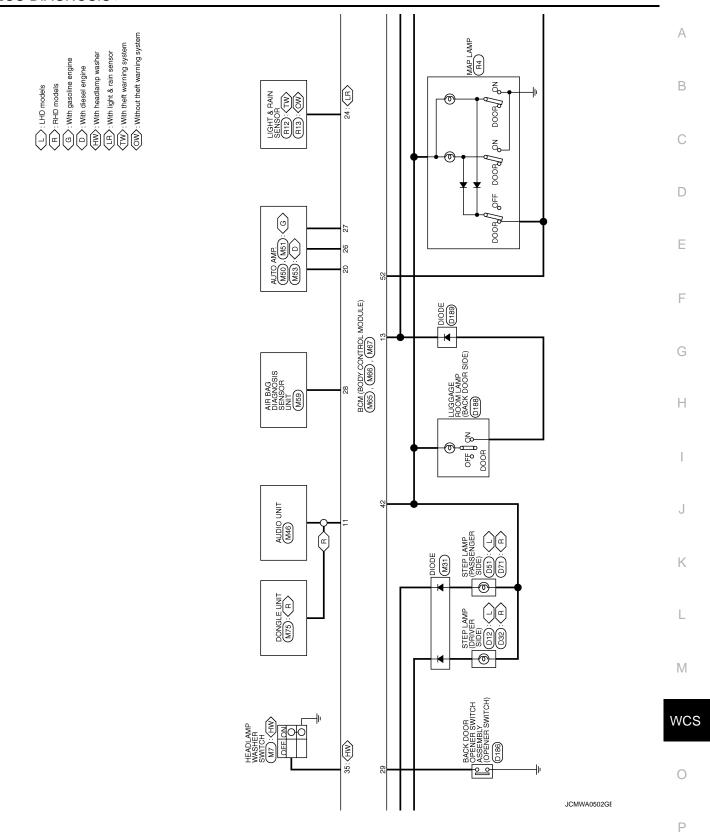
^{*8:} LHD models with side air bag

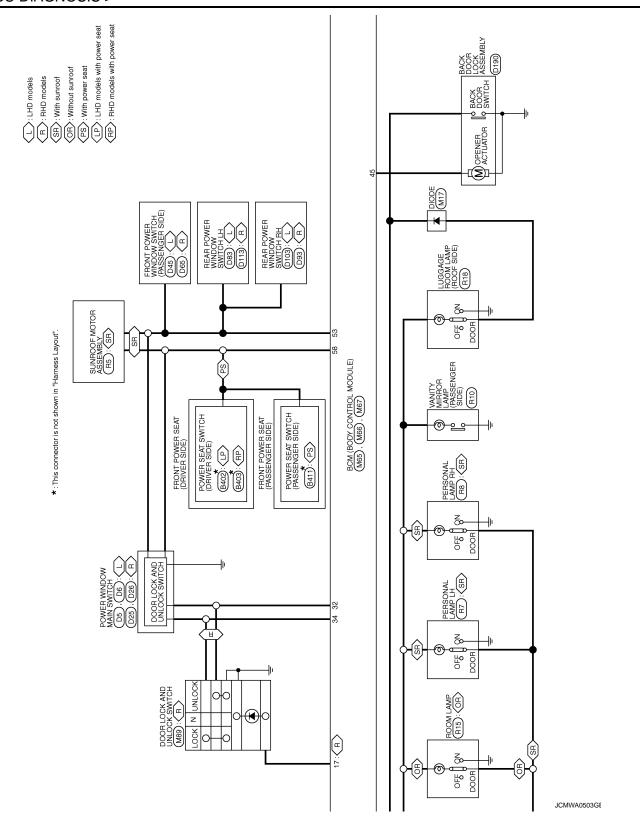
^{*9:} With xenon headlamp and daytime light system

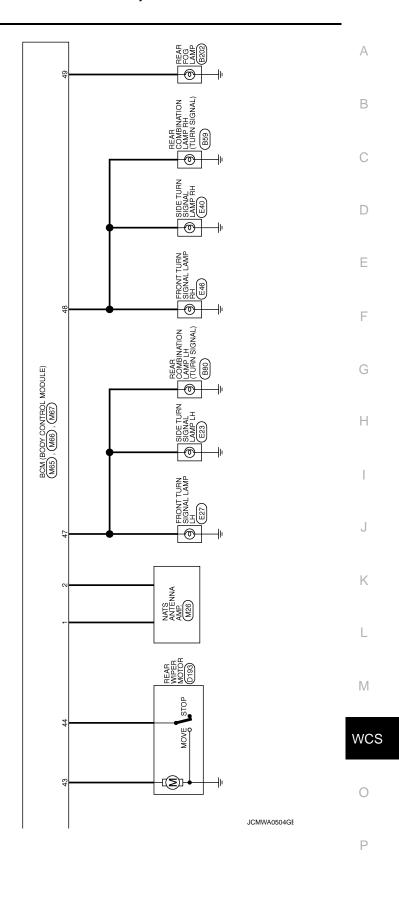
^{*10:} Except with xenon headlamp and daytime light system





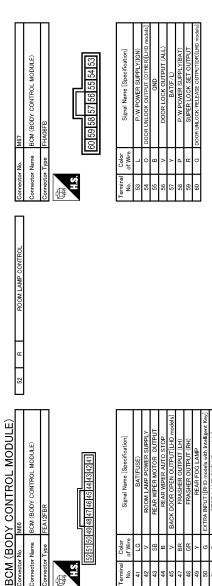






BCM (B	/ (BO § №	BCM (BODY CONTROL MODULE) Connector No. M27	01	×	OUTPUT 3			
Connect	Connector Name	COMBINATION SWITCH						
Connec	Connector Type	TK16FW						
Œ								
H.S.		0 8 7						
	15	1 2 3 4						
ļ	_ L							
Terminal No.	al Color of Wire	Signal Name [Specification]						
-	>	INPUT 1						
2	ΡΠ	INPUT 2[RHD models]						
က	-	INPUT 3						
4 1	g (INPUT 4						
n «	٥	INPUT 3 KHD models						
,	۵.	OITPIT 2						
- α	2 0	2 10 1100 2 10 1100						
0	>	OUTPUT 4						
Connector No.	or No.	M65	Ξ	В	AUDIO DONGLE LINK(SIGNAL)	F	<u></u>	COMBI SW OUTP
Ċ	N sedenano	(SILINGO CONTENT MODILIE)	12	57	DOOR SW (RR)	40	а	COMBI SW OUTPI
Connec	cor Name	BOM (BODT CONTROL MODULE)	13	>	DOOR SW (BACK)[LHD models]			
Connec	Connector Type	AAB40FB	14	d	DOOR SW (AS)[RHD models]			
ą			12	BR	DOOR SW (DR)[RHD models]			
厚			16	æ	DOOR SW (RL)[LHD models]			
S.	7	31 32 33 34 35 36 37 38 39 40	- 1	-	DOOR LOCK INDICATOR			
	1		3 5	g a	CAN-I			
		13 14 15 16 17	52		CAN-H			
		1 2 3 4 5 6 7 8 9 10	23	>	SECURITY INDICATOR[LHD models]			
	- 1		24	GR	LIGHT & RAIN SEN			
Terminal		Signal Name [Specification]	22	g	ALARM LINK			
Š.	of Wire		56	æ	BLOWER FAN SW			
-	>	NATS ANTENNA AMP.	27	۵	AIRCON SW[With gasoline engine]			
.7	9 3	NATS ANTENNA AMP.	87 88	5 (SHOCK DETECT SIGIRHD models with side air bag			
l	≥ 5	IGN SW	67 S	0 5	BACK DOOR OPEN SW			
4 "	9 5	ACC SW	35	Y 3	LOCK UNLOCK SW (UNLOCK)			
n «	3 -	NET SWLWITH INTERIIGENT NEY]	25 %	≥ 0	HAZARD SW[With xenon headdamp and daytime light system]			
-	- le	COMBI SW INPUT 3	* *	9 6	HEAD I AMP WASSHER SW			
- α	<u></u>	COMBI SW INFOLL	8 8	9 6	COMBI SW OLITPLIT 5			
6	. º	COMBI SW INPUT 2[RHD models]	37	2	COMBI SW OUTPUT 2			
01	0	COMBI SW 5 IN[RHD models]	38	М	COMBI SW OUTPUT 3			

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FAIL-SAFE CONTROL BY DTC

Fail Safe

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

< ECU DIAGNOSIS >

DTC	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM)	Erase DTC
B2191: DIFFERENCE OF KEY	 Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2192: ID DISCORD BCM-ECM	Fuel cut (ECM)	Erase DTC
B2193: CHAIN OF BCM-ECM	Fuel cut (ECM)	Erase DTC
B2194: DISCORD BCM-I-KEY	Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM)	Erase DTC
B2195: ANTI SCANNING	Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM)	Erase DTC
B2196: DONGLE NG	Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM)	Erase DTC

REAR WIPER MOTOR PROTECTION

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

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

Condition of cancellation

- 1. Turn ignition switch OFF.
- 2. Pass more than 1 minute after the rear wiper stop.
- 3. Turn ignition switch ON.
- 4. Operate the rear wiper switch.

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status from the terminal voltage.

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

NOTE:

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

FAIL-SAFE CONTROL BY LIGHT & RAIN SENSOR MALFUNCTION

BCM detects the light & rain sensor serial link error and the light & rain sensor malfunction.

BCM controls the following fail-safe when light & rain sensor has a malfunction.

Fail-safe Control

- Auto light control: Headlamp is turned ON.
- Front wiper control: The condition just before the activation of fail-safe is maintained until the front wiper switch is turned OFF.

DTC Inspection Priority Chart

INFOID:0000000001367526

Priority	DTC
1	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
2	 B2190: NATS ANTENNA AMP B2191: DIFFERNCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2194: DISCORD BCM-I-KEY B2195: ANTI SCANNING B2196: DONGLE NG

< ECU DIAGNOSIS >

DTC Index

NOTE:

Details of time display

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

DTC	TI	ME	Fail-safe	Reference
U1000: CAN COMM CIRCUIT	0	1 - 39	_	BCS-33
U1010: CONTROL UNIT (CAN)	0	1 - 39	_	BCS-34
B2190: NATS ANTENNA AMP	CRNT	PAST	×	With Intelligent Key system: <u>SEC-41</u> Without Intelligent Key system: <u>SEC-254</u>
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	With Intelligent Key system: <u>SEC-43</u> Without Intelligent Key system: <u>SEC-256</u>
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	With Intelligent Key system: <u>SEC-38</u> Without Intelligent Key system: <u>SEC-251</u>
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	With Intelligent Key system: <u>SEC-40</u> Without Intelligent Key system: <u>SEC-253</u>
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	SEC-53
B2195: ANTI SCANNING	CRNT	PAST	×	With Intelligent Key system: <u>SEC-54</u> Without Intelligent Key system: <u>SEC-264</u>
B2196: DONGLE NG	CRNT	PAST	×	With Intelligent Key system: <u>SEC-55</u> Without Intelligent Key system: <u>SEC-265</u>

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THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description INFOID.000000001080363

The light reminder warning does not sound under the following conditions.

- Lighting switch 1ST or 2ND position
- Driver door open
- Ignition switch OFF or ACC

Diagnosis Procedure

INFOID:0000000001080364

1. CHECK COMBINATION SWITCH (LIGHTING SWITCH) OPERATION

Check that the headlamps operate normally by operating the combination switch (lighting switch).

Do they operate normally?

YES >> GO TO 2.

NO >> Refer to EXL-193. "WITHOUT DAYTIME RUNNING LIGHT SYSTEM: Symptom Table".

2.check front door switch (driver side) signal circuit

Perform the inspection for the front door switch (driver side) signal circuit. Refer to <u>DLK-83, "DRIVER SIDE : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.check front door switch (driver side) unit

Perform a unit inspection for the front door switch (driver side). Refer to <u>DLK-84, "DRIVER SIDE : Component Inspection".</u>

Is the inspection result normal?

YES >> Replace the BCM. Refer to BCS-68, "Removal and Installation".

NO >> Replace the front door switch (driver side). Refer to DLK-292, "Removal and Installation".

THE PARKING BRAKE RELEASE WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE PARKING BRAKE RELEASE WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description NNF0ID:000000001080367

- The parking brake warning buzzer sounds continuously during vehicle travel even though the parking brake is released.
- The parking brake warning buzzer does not sound at all even though driving the vehicle with the parking brake applied.

Diagnosis Procedure

1. CHECK PARKING BRAKE WARNING LAMP OPERATION

- 1. Start engine.
- 2. Check the operation of the parking brake warning lamp when operating the parking brake.

Condition	Warning lamp status
Parking brake ON	ON
Parking brake OFF	OFF

Is the inspection result normal?

YES >> Replace combination meter.

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Perform an inspection for the parking brake switch signal circuit. Refer to <u>WCS-17, "Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK PARKING BRAKE SWITCH UNIT

Perform a unit inspection for the parking brake switch. Refer to BRC-47, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter.

NO >> Replace parking brake switch.

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.