

WCS

SECTION

WARNING CHIME SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

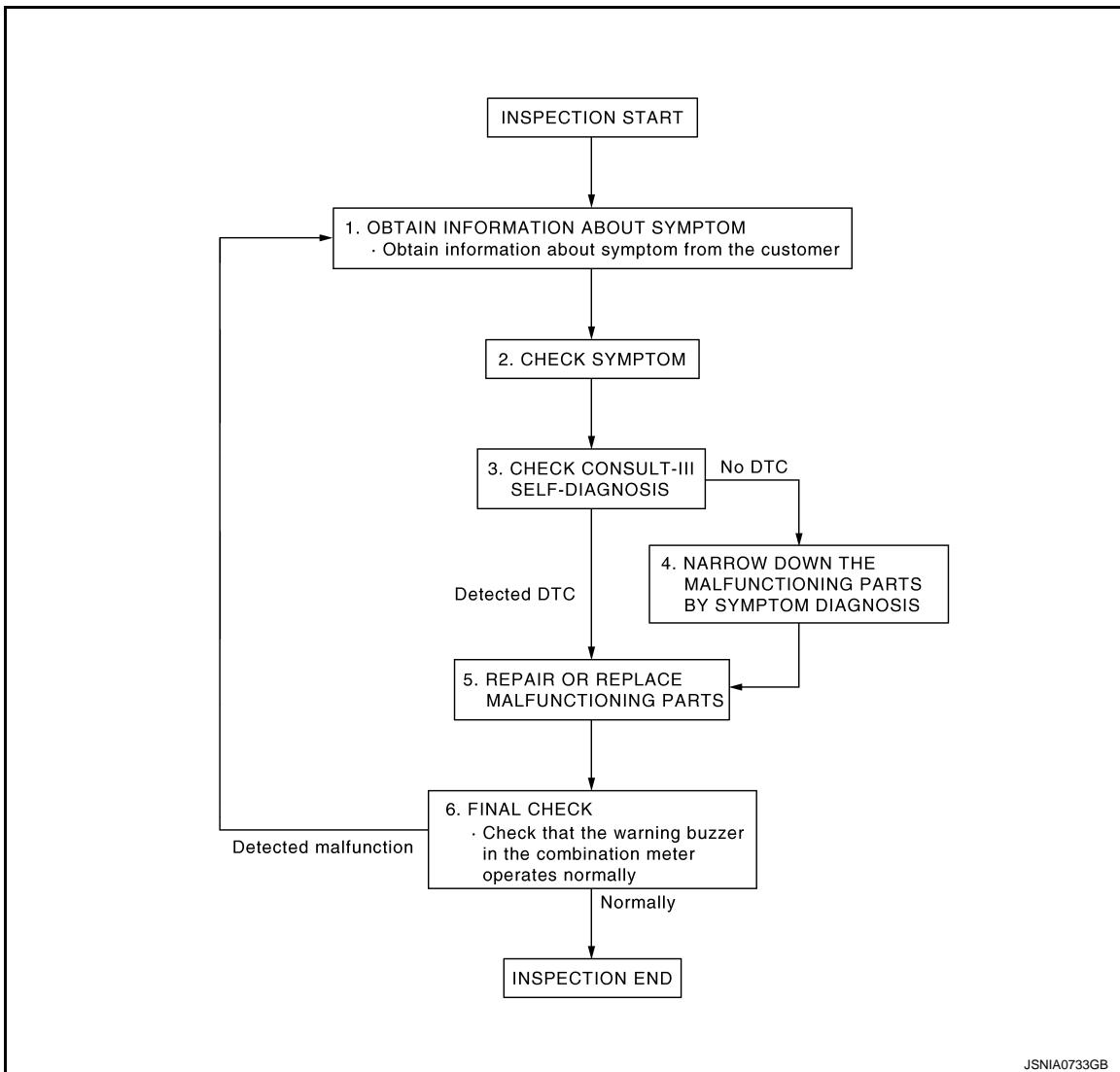
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000004348711

OVERALL SEQUENCE



JSNIA0733GB

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

WCS

Interview the customer to obtain as much information as possible about the conditions and environment under which the malfunction occurred.

>> GO TO 2.

2. CHECK SYMPTOM

- Check the symptom based on the information obtained from the customer.
- Check that any other malfunctions are present.

>> GO TO 3.

3. CHECK CONSULT-III SELF-DIAGNOSIS RESULTS

Connect CONSULT-III and perform self-diagnosis. Refer to [MWI-40, "CONSULT-III Function \(METER/M&A\)"](#).

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Are self-diagnosis results normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

>> GO TO 5.

5. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

NOTE:

If DTC is displayed, erase DTC after repair or replace malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

Check that the warning buzzer in the combination meter operates normally.

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 1.

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

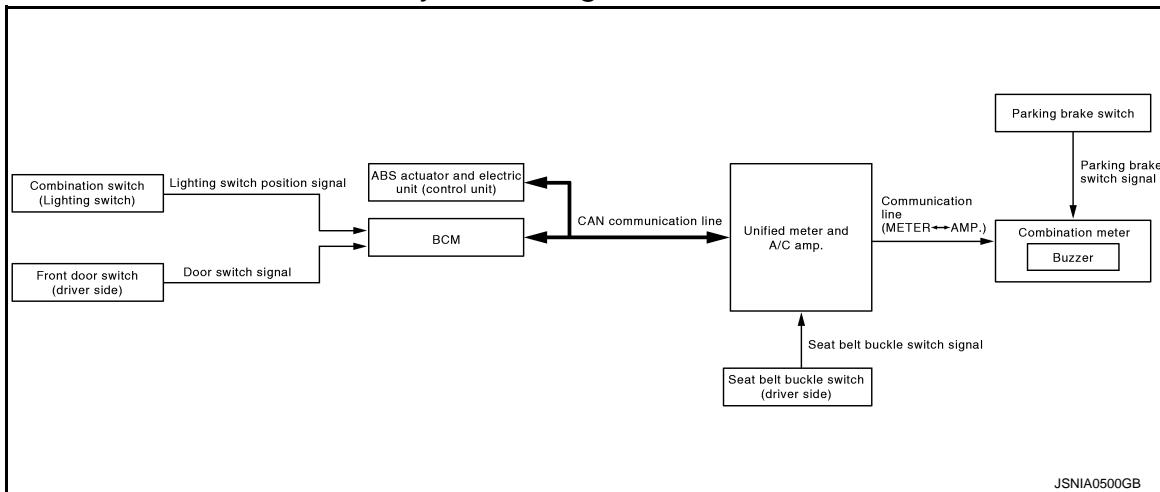
SYSTEM DESCRIPTION

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM : System Diagram

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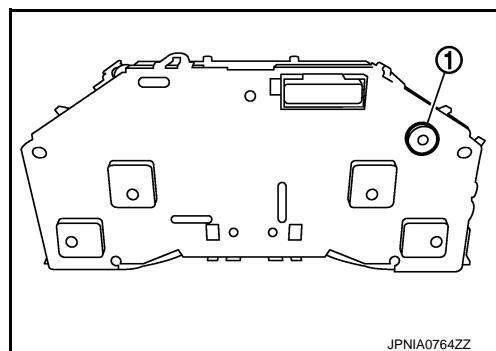


WARNING CHIME SYSTEM : System Description

INFOID:0000000004348713

COMBINATION METER

- The buzzer (1) for warning chime system is installed in the combination meter.
- The buzzer sounds when the combination meter receives buzzer output signal from each unit through unified meter and A/C amp.



UNIFIED METER AND A/C AMP.

The unified meter and A/C amp. transmits the buzzer output signal received from BCM with CAN communication line to the combination meter.

BCM

BCM receives signals from various units and transmits a buzzer output signal to the unified meter and A/C amp. with CAN communication line if it judges that the warning buzzer should be activated.

BCM warning function list

Warning functions	Signal name
Light reminder warning chime	<ul style="list-style-type: none">Lighting switch position signalDoor switch signal
Seat belt warning chime	Seat belt buckle switch signal

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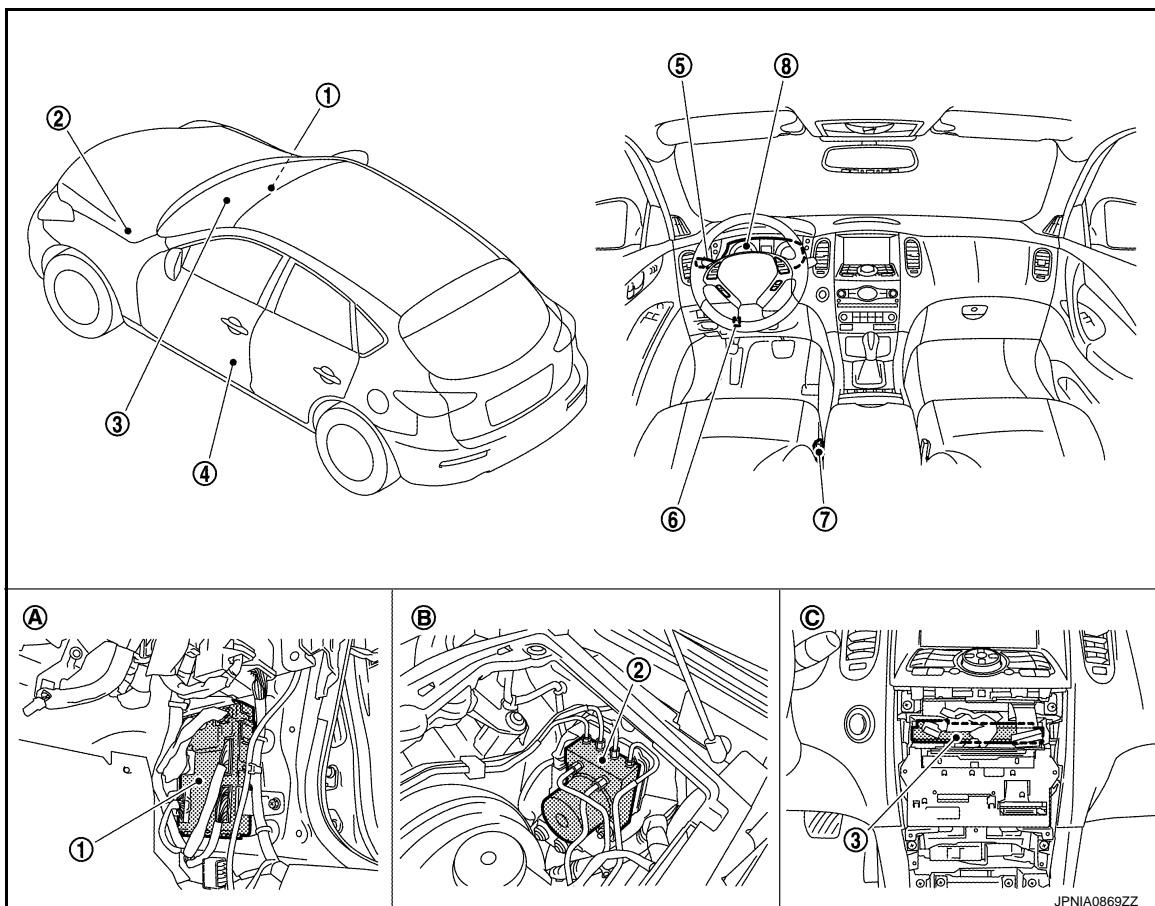
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

WARNING CHIME SYSTEM : Component Parts Location

INFOID:000000004348714



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| 1. BCM | 2. ABS actuator and electric unit (control unit) | 3. Unified meter and A/C amp. |
| 4. Front door switch (driver side) | 5. Combination switch (lighting switch) | 6. Parking brake switch |
| 7. Seat belt buckle switch (driver side) | 8. Combination meter | C. Behind cluster lid C |
| A. Dash side lower (passenger side) | B. Hoodlodge cover (LH) | |

WARNING CHIME SYSTEM : Component Description

INFOID:000000004348715

Unit	Description
Combination meter	<ul style="list-style-type: none"> • Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer. • Judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. with CAN communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary.
Unified meter and A/C amp.	<ul style="list-style-type: none"> • Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM with CAN communication line. • Receives a buzzer output signal from BCM with CAN communication line and transmits it to the combination meter by means of communication line.
BCM	Transmits signals provided by various units to the unified meter and A/C amp. with CAN communication line.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to unified meter and A/C amp. with CAN communication line.
Seat belt buckle switch (driver side)	Transmits a seat belt buckle switch signal to the unified meter and A/C amp.

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

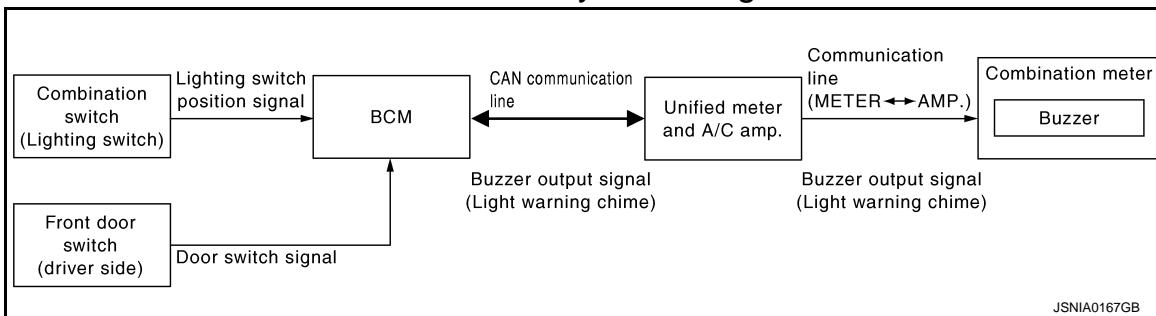
Unit	Description
Combination switch (lighting switch)	Transmits the lighting switch position signal to BCM.
Front door switch (driver side)	Transmits the door switch signal to BCM.
Parking brake switch	Refer to MWI-64, "Description" .

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LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME : System Diagram

INFOID:000000004348716



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LIGHT REMINDER WARNING CHIME : System Description

INFOID:000000004348717

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 unified meter and A/C amp. with CAN communication line.
- Unified meter and A/C amp. transmits buzzer output signal (light reminder warning chime) to combination meter with 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) is OFF

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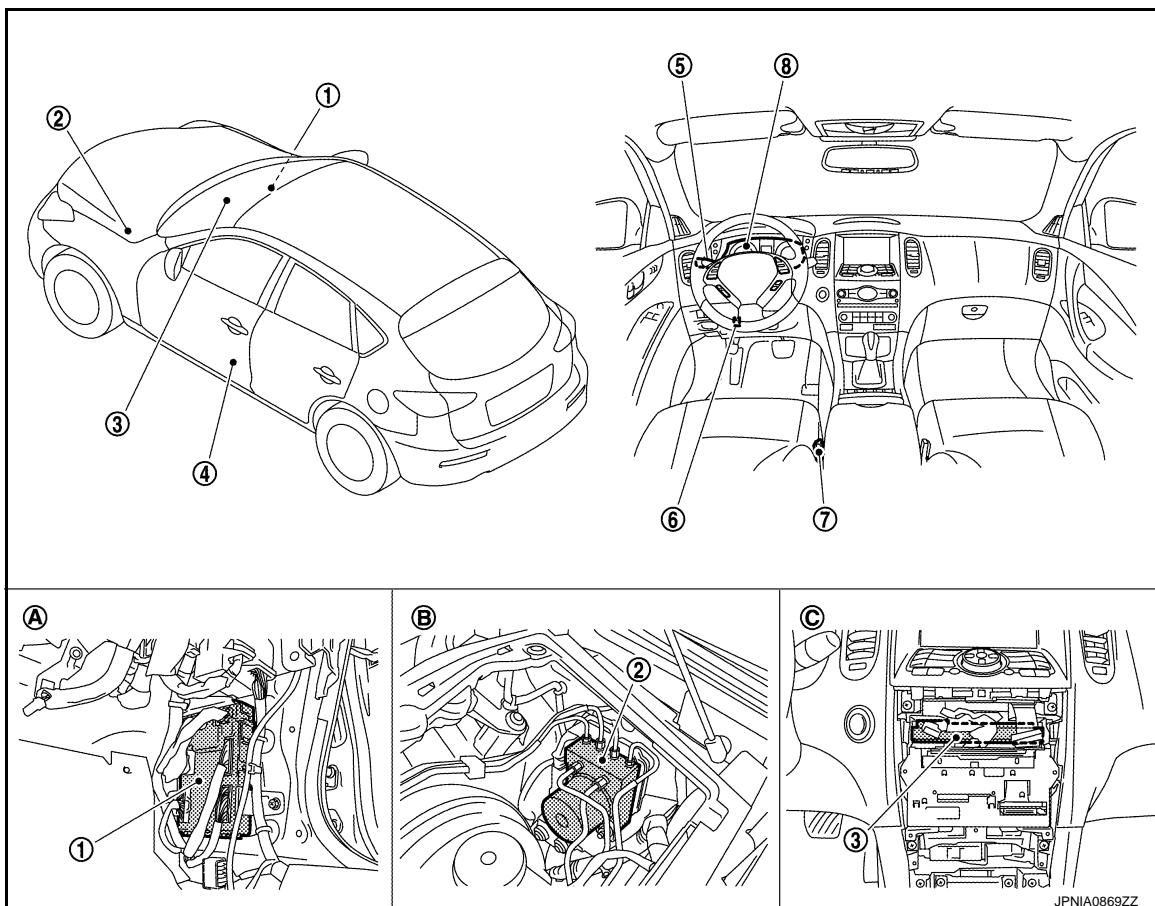
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

LIGHT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000004348718



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| 1. BCM | 2. ABS actuator and electric unit (control unit) | 3. Unified meter and A/C amp. |
| 4. Front door switch (driver side) | 5. Combination switch (lighting switch) | 6. Parking brake switch |
| 7. Seat belt buckle switch (driver side) | 8. Combination meter | C. Behind cluster lid C |
| A. Dash side lower (passenger side) | B. Hoodledge cover (LH) | |

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:000000004348719

Unit	Description
Combination meter	Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer.
Unified meter and A/C amp.	Receives a buzzer output signal from BCM via CAN communication line and transmits it to the combination meter by means of communication line.
BCM	Judges the light warning conditions from the signals provided by various switches and transmits a buzzer output signal to the unified meter and A/C amp. 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.

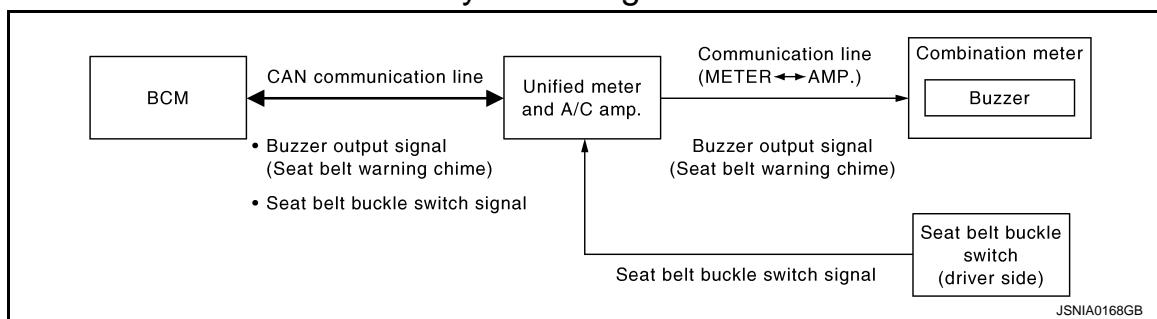
SEAT BELT WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : System Diagram

INFOID:000000004348720



SEAT BELT WARNING CHIME : System Description

INFOID:000000004348721

DESCRIPTION

With ignition switch turned ON and driver seat belt unfastened, seat belt warning chime will sound for approximately 6 seconds.

- BCM receives seat belt buckle switch signal from unified meter and A/C amp. with CAN communication line.
- BCM detects ignition switch turned ON and seat belt buckle switch (driver side) ON. And then transmits buzzer output signal (seat belt warning chime) to unified meter and A/C amp. with CAN communication line.
- Unified meter and A/C amp. transmits buzzer output signal (seat belt warning chime) to combination meter with communication line.
- When combination meter receives buzzer output signal (seat belt warning chime), it sounds the buzzer.

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

- Ignition switch OFF→ON
- Seat belt buckle switch (driver side) is ON (driver seat belt not fastened)

WARNING CANCEL CONDITIONS

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

- Ignition switch OFF
- Seat belt buckle switch (driver side) is OFF (driver seat belt fastened)

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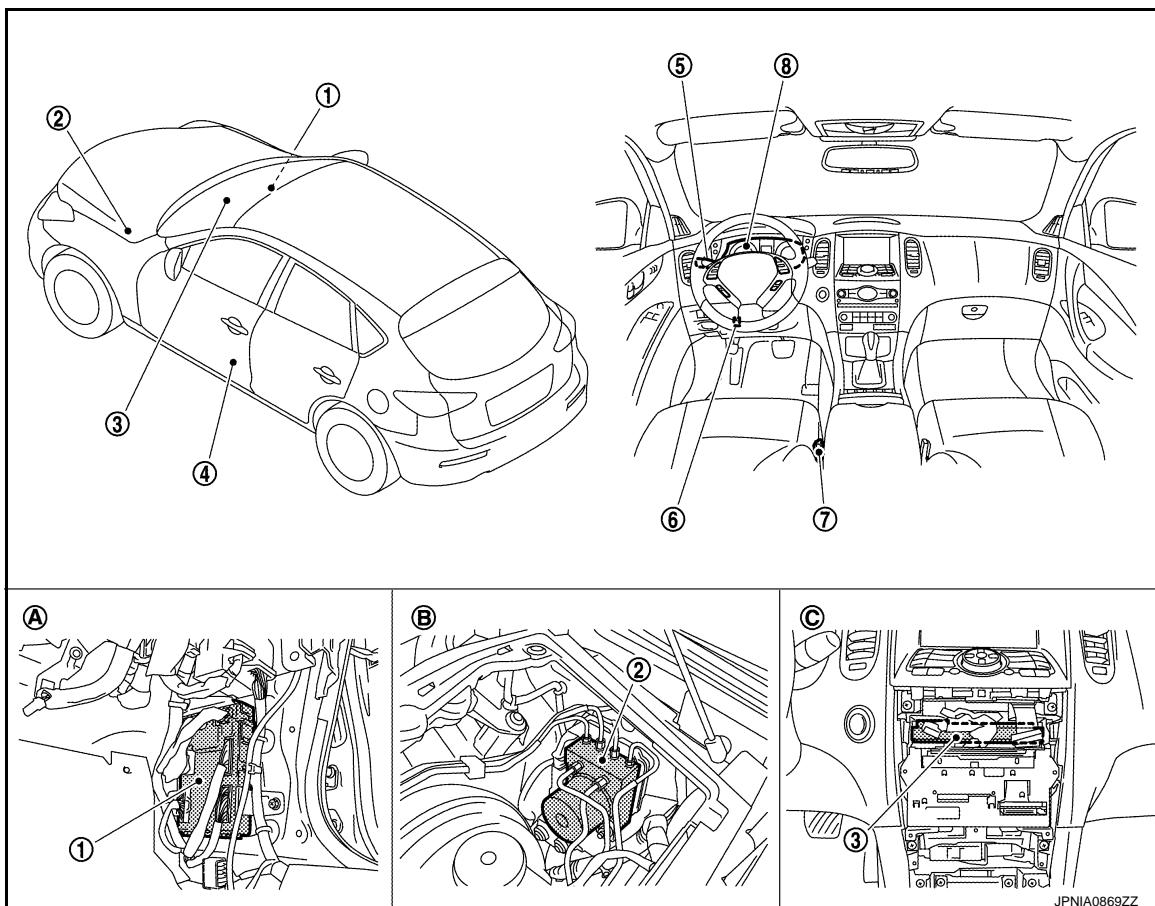
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : Component Parts Location

INFOID:000000004348722



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| 1. BCM | 2. ABS actuator and electric unit (control unit) | 3. Unified meter and A/C amp. |
| 4. Front door switch (driver side) | 5. Combination switch (lighting switch) | 6. Parking brake switch |
| 7. Seat belt buckle switch (driver side) | 8. Combination meter | C. Behind cluster lid C |
| A. Dash side lower (passenger side) | B. Hoodledge cover (LH) | |

SEAT BELT WARNING CHIME : Component Description

INFOID:000000004348723

Unit	Description
Combination meter	Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer.
Unified meter and A/C amp.	<ul style="list-style-type: none">• Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM via CAN communication line.• Receives a buzzer output signal from BCM via CAN communication line and transmits it to the combination meter by means of communication line.
BCM	Judges the seat belt warning condition from the seat belt buckle switch signal received from the unified meter and A/C amp. and transmits a buzzer output signal to the unified meter and A/C amp. via CAN communication line if necessary.
Seat belt buckle switch (driver side)	Refer to WCS-24, "Description" .

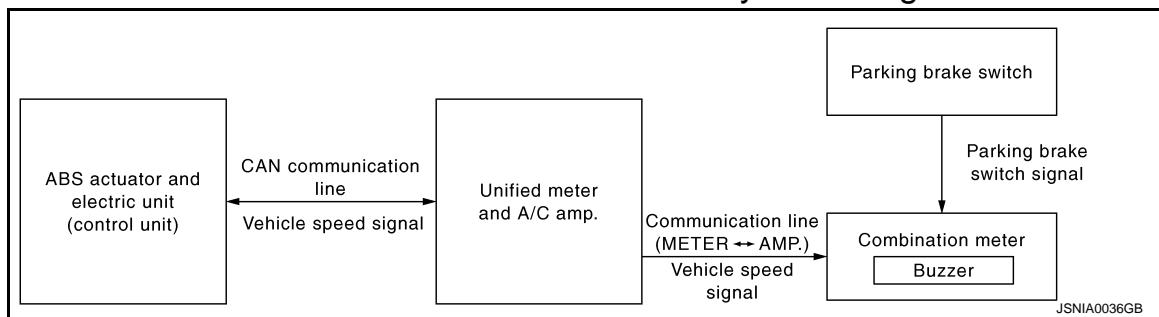
PARKING BRAKE RELEASE WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:000000004348724



PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:000000004348725

DESCRIPTION

- The unified meter and A/C amp. receives the vehicle speed signal from the ABS actuator and electric unit (control unit) via CAN communication line and transmits it to the combination meter by means of communication line.
- The combination meter judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. and the parking brake switch signal from the parking brake switch, and sounds the warning buzzer if necessary.

WARNING OPERATION CONDITIONS

If all 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

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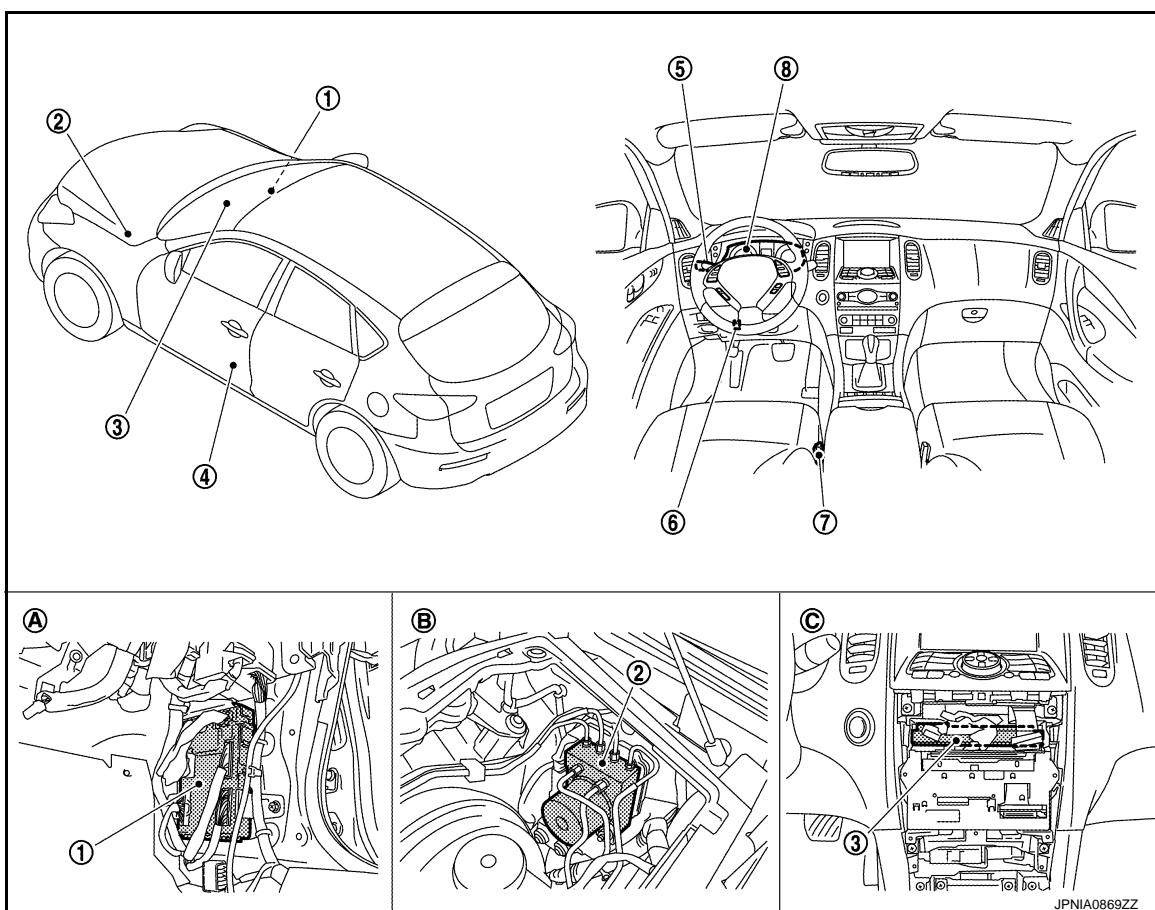
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : Component Parts Location

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| 1. BCM | 2. ABS actuator and electric unit (control unit) | 3. Unified meter and A/C amp. |
| 4. Front door switch (driver side) | 5. Combination switch (lighting switch) | 6. Parking brake switch |
| 7. Seat belt buckle switch (driver side) | 8. Combination meter | C. Behind cluster lid C |
| A. Dash side lower (passenger side) | B. Hoodledge cover (LH) | |

PARKING BRAKE RELEASE WARNING CHIME : Component Description

INFOID:000000004348727

Unit	Description
Combination meter	Judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. via communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary.
Unified meter and A/C amp.	Receives a vehicle speed signal from ABS actuator and electric unit (control unit) via CAN communication line and transmits it to the combination meter by means of communication line.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to unified meter and A/C amp. via CAN communication line.
Parking brake switch	Refer to MWI-64, "Description" .

DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

CONSULT-III Function (METER/M&A)

INFOID:0000000004684379

CONSULT-III APPLICATION ITEMS

CONSULT-III can perform the following diagnosis modes with CAN communication with the unified meter and A/C amp.

System	Diagnosis mode	Description
METER/M&A	Self Diagnostic Result	Unified meter and A/C amp. checks the conditions and displays memorized error.
	Data Monitor	Displays unified meter and A/C amp. input/output data in real time.
	Ecu Identification	The unified meter and A/C amp. part number is displayed.

SELF DIAG RESULT

Refer to [WCS-59, "DTC Index".](#)

DATA MONITOR

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER [km/h] or [mph]	X	<p>Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.</p> <p>NOTE: 655.35 is displayed when the malfunction signal is received.</p>
SPEED OUTPUT [km/h] or [mph]	X	<p>Vehicle speed signal value transmitted to other units with CAN communication line.</p> <p>NOTE: 655.35 is displayed when the malfunction signal is received.</p>
ODO OUTPUT [km/h] or [mph]		Odometer signal value transmitted to other units with CAN communication line.
TACHO METER [rpm]	X	<p>Value of the engine speed signal received from ECM with CAN communication line.</p> <p>NOTE: 8191.875 is displayed when the malfunction signal is received.</p>
FUEL METER [L]	X	Fuel level indicated on combination meter.
W TEMP METER [°C] or [°F]	X	<p>Value of engine coolant temperature signal received from ECM with CAN communication line.</p> <p>NOTE: 215 is displayed when the malfunction signal is input.</p>
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 VDC OFF indicator lamp judged from VDC 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]		<p>Status of brake warning lamp judged from brake warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.</p> <p>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.</p>
DOOR W/L [On/Off]		Status of door warning 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.

DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
TURN IND [On/Off]		Status of turn indicator lamp judged from turn indicator signal received from BCM with CAN communication line.
FR FOG IND [Off]		This item is displayed, but cannot be monitored.
RR FOG IND [Off]		This item is displayed, but cannot be monitored.
LIGHT IND [On/Off]		Status of tail lamp indicator lamp judged from position light request signal received 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 [Off]		This item is displayed, but cannot be monitored.
C-ENG2 W/L [Off]		This item is displayed, but cannot be monitored.
CRUISE IND [On/Off]		Status of CRUISE indicator judged from ASCD status signal received from ECM with CAN communication line.
SET IND [On/Off]		<ul style="list-style-type: none"> • Status of SET indicator judged from ASCD status signal received from ECM with CAN communication line. • Status of SET indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
CRUISE W/L [On/Off]		Status of CRUISE warning lamp judged from ICC warning lamp signal received from ICC sensor integrated unit with CAN communication line.
BA W/L [Off]		Status of IBA OFF indicator lamp judged from IBA OFF indicator lamp signal received from ICC sensor integrated unit with CAN communication line.
ATC/T-AMT W/L [On/Off]		Status of A/T check warning lamp judged from A/T check indicator signal received from TCM with CAN communication line.
4WD W/L [On/Off]		Status of AWD warning lamp judged from AWD warning lamp signal received from AWD control unit with CAN communication line.
4WD LOCK IND [Off]		This item is displayed, but cannot be monitored.
FUEL W/L [On/Off]		Low-fuel warning status judged by the identified fuel level.
WASHER W/L [On/Off]		Status of washer warning judged from washer level switch input to combination meter.
AIR PRES W/L [On/Off]		Status of low tire pressure warning lamp judged from tire pressure signal received from BCM with CAN communication line.
KEY G/Y W/L [On/Off]		Status of key warning lamp (G/Y) judged from key warning signal received from BCM with CAN communication line.
AFS OFF IND [On/Off]		Status of AFS OFF indicator lamp judged from AFS OFF indicator lamp signal received from AFS control unit with CAN communication line.
4WAS/RAS W/L [Off]		This item is displayed, but cannot be monitored.
DDS W/L [Off]		This item is displayed, but cannot be monitored.
LANE W/L [On/Off]		Status of lane departure warning lamp judged from lane departure warning lamp signal received from lane camera unit with CAN communication line.
LDP IND [On/Off]		Status of LDP ON indicator lamp judged from LDP ON indicator lamp signal received from lane camera unit with CAN communication line.
DCA IND [On/Off]		Status of DCA switch indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.

DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
LCD [B&P N, B&P I, ID NG, ROTAT, SFT P, INSRT, BATT, NO KY, OUTKY, LK WN]		Displays status of Intelligent Key system warning judged from meter display signal received from BCM with CAN communication line.
ACC TARGET [On/Off]		Status of vehicle ahead detection indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC DISTANCE [Off, SHORT, MID, LONG]		Status of set distance indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC OWN VHL [On/Off]		Status of own vehicle indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC SET SPEED		Status of set vehicle speed indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC UNIT [On/Off]		Status of display unit judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
SHIFT IND [P, R, N, D, L, M1, M2, M3, M4, M5]		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 [Off]		This item is displayed, but cannot be monitored.
AT S MODE SW [On/Off]		Status of snow mode switch.
AT P MODE SW [Off]		This item is displayed, but cannot be monitored.
M RANGE SW [On/Off]		Status of manual mode switch.
NM RANGE SW [On/Off]		Status of not manual mode switch.
AT SFT UP SW [On/Off]		Status of manual mode shift up switch.
AT SFT DWN SW [On/Off]		Status of manual mode shift down switch.
ST SFT UP SW [Off]		This item is displayed, but cannot be monitored.
ST SFT DWN SW [Off]		This item is displayed, but cannot be monitored.
COMP F/B SIG [On/Off]		A/C compressor activation condition that ECM judges according to the water temperature and the acceleration degree.
4WD LOCK SW [Off]		This item is displayed, but cannot be monitored.
PKB SW [On/Off]		Status of parking brake switch.
BUCKLE SW [On/Off]		Status of seat belt buckle switch (driver side).
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.
DISTANCE [km]		Value of possible driving distance calculated by unified meter and A/C amp.
OUTSIDE TEMP [°C] or [°F]		<p>Ambient air temperature value converted from ambient sensor signal received from ambient sensor.</p> <p>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 ambient sensor input value.)</p>

DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
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]	X	Buzzer status (in the combination meter) is judged with the buzzer output signal received from each unit with CAN communication line and the warning output condition of the combination meter.

NOTE:

Some items are not available according to vehicle specification.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000004684391

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	<ul style="list-style-type: none"> • 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.

x: Applicable item

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

NOTE:

*: This item is displayed, but is not used.

FREEZE FRAME DATA (FFD)

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

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
Vehicle Condition	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"
	OFF>ACC	While turning power supply position from "OFF" to "ACC"
	ON>CRANK	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	<p>The number of times that ignition switch is turned ON after DTC is detected</p> <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 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.

BUZZER

BUZZER : CONSULT-III Function (BCM - BUZZER)

INFOID:000000004348730

CONSULT-III APPLICATION ITEMS

Test item	Diagnosis mode	Description
BUZZER	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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Display item [Unit]	Description	A
VEH SPEED 1 [Km/h]	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.	B
PUSH SW [On/Off]	Status of push button ignition switch judged by BCM.	C
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.	D
KEY SW-SLOT [On/Off]	Status of key slot judged by BCM.	E
TAIL LAMP SW [On/Off]	Status of each switch judged by BCM using the combination switch readout function.	F
FR FOG SW [On/Off]	Status of front fog lamp switch judged by BCM.	G
DOOR SW-DR [On/Off]	Status of driver side door switch judged by BCM.	H

ACTIVE TEST

Display item [Unit]	Description	I
IGN KEY WARN ALM	The key warning chime operation can be checked by operating the relevant function (On/Off).	J
SEAT BELT WARN TEST	The seat belt warning chime operation can be checked by operating the relevant function (On/Off).	K
ID REGIST WARNING	The ID regist warning chime operation can be checked by operating the relevant function (On/Off).	L
LIGHT WARN ALM	The light warning chime operation can be checked by operating the relevant function (On/Off).	M

WCS

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000004684380

1. CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	11
Ignition switch ON or START	4

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 and ground.

Terminals			Ignition switch position	Value (Approx.)
(+) (-)				
Combination meter	Terminal	Signal name		
M53	1	Battery power supply	Ground	OFF
	21	Ignition signal		ON

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 and ground.

Combination meter	Terminal	Ground	Continuity
Connector			Existed
M53	5		
	15		
	22		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

UNIFIED METER AND A/C AMP.

UNIFIED METER AND A/C AMP. : Diagnosis Procedure

INFOID:000000004684381

1. CHECK FUSE

Check for blown fuses.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Power source	Fuse No.
Battery	11
Ignition switch ACC or ON	19
Ignition switch ON or START	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 unified meter and A/C amp. harness connector and ground.

Terminals			Ignition switch position	Value (Approx.)
(+) Terminal		(-)		
Unified meter and A/C amp. M67	Terminal	Signal name	Ground	Battery voltage
	54	Battery power supply		OFF
	41	ACC power supply		ACC
	53	Ignition signal		ON

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between unified meter and A/C amp. and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect unified meter and A/C amp. connector.
3. Check continuity between unified meter and A/C amp. harness connector and ground.

Unified meter and A/C amp.		Ground	Continuity
Connector	Terminal		
M67	55		
	71		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:000000004684392

1.CHECK FUSE AND FUSIBLE LINK

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

WCS

Signal name	Fuse and fusible link No.
Battery power supply	K
	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

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

3. Check voltage between BCM harness connector and ground.

Terminals		Ground	Voltage (Approx.)	
(+)	(-)			
BCM				
Connector	Terminal			
M118	1			
M119	11	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.

BCM		Ground	Continuity
Connector	Terminal		
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Description

INFOID:0000000004348734

- 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:0000000004348735

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 UNIFIED METER AND A/C AMP. 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-85, "Removal and Installation"](#).

Diagnosis Procedure

INFOID:0000000004348736

1.CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to [MWI-53, "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair power supply circuit of combination meter.

2.CHECK POWER SUPPLY OF UNIFIED METER AND A/C AMP.

Check power supply of unified meter and A/C amp. Refer to [MWI-53, "UNIFIED METER AND A/C AMP. : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair power supply circuit of unified meter and A/C amp.

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SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Description

INFOID:0000000004348737

Transmits a seat belt buckle switch signal to the unified meter and A/C amp.

Component Function Check

INFOID:0000000004348738

1.CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL

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

BUCKLE SW

- | | |
|------------------------------|-------|
| When seat belt is fastened | : Off |
| When seat belt is unfastened | : On |

>> INSPECTION END

Diagnosis Procedure

INFOID:0000000004348739

1.CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between unified meter and A/C amp. harness connector and ground.

Terminals		Condition	Voltage (Approx.)
(+)	(-)		
Unified meter and A/C amp.	Connector	When driver seat belt is fastened	12 V
M66	Terminal 9	When driver seat belt is unfastened	0 V

Is the inspection result normal?

YES >> Replace unified meter and A/C amp.

NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect unified meter and A/C amp. connector and seat belt buckle switch (driver side) connector.
3. Check continuity between unified meter and A/C amp. harness connector and seat belt buckle switch (driver side) harness connector.

Unified meter and A/C amp.	Seat belt buckle switch (driver side)		Continuity	
Connector	Terminal	Connector	Terminal	
M66	9	B13	1	Existed

4. Check harness continuity between unified meter and A/C amp. harness connector and ground.

Unified meter and A/C amp.		Ground	Continuity
Connector	Terminal		
M66	9		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check harness continuity between seat belt buckle switch (driver side) harness connector and ground.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Seat belt buckle switch (driver side)		Ground	Continuity
Connector	Terminal		Existed
B13	2		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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Component Inspection

INFOID:000000004348740

1. CHECK SEAT BELT BUCKLE SWITCH UNIT

1. Turn ignition switch OFF.
2. Disconnect the seat belt buckle switch connector.
3. Check continuity between terminals.

Terminal		Condition	Continuity
1	2	When seat belt is fastened	Not existed
		When seat belt is unfastened	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle. Refer to [SB-8, "SEAT BELT BUCKLE : Removal and Installation".](#)

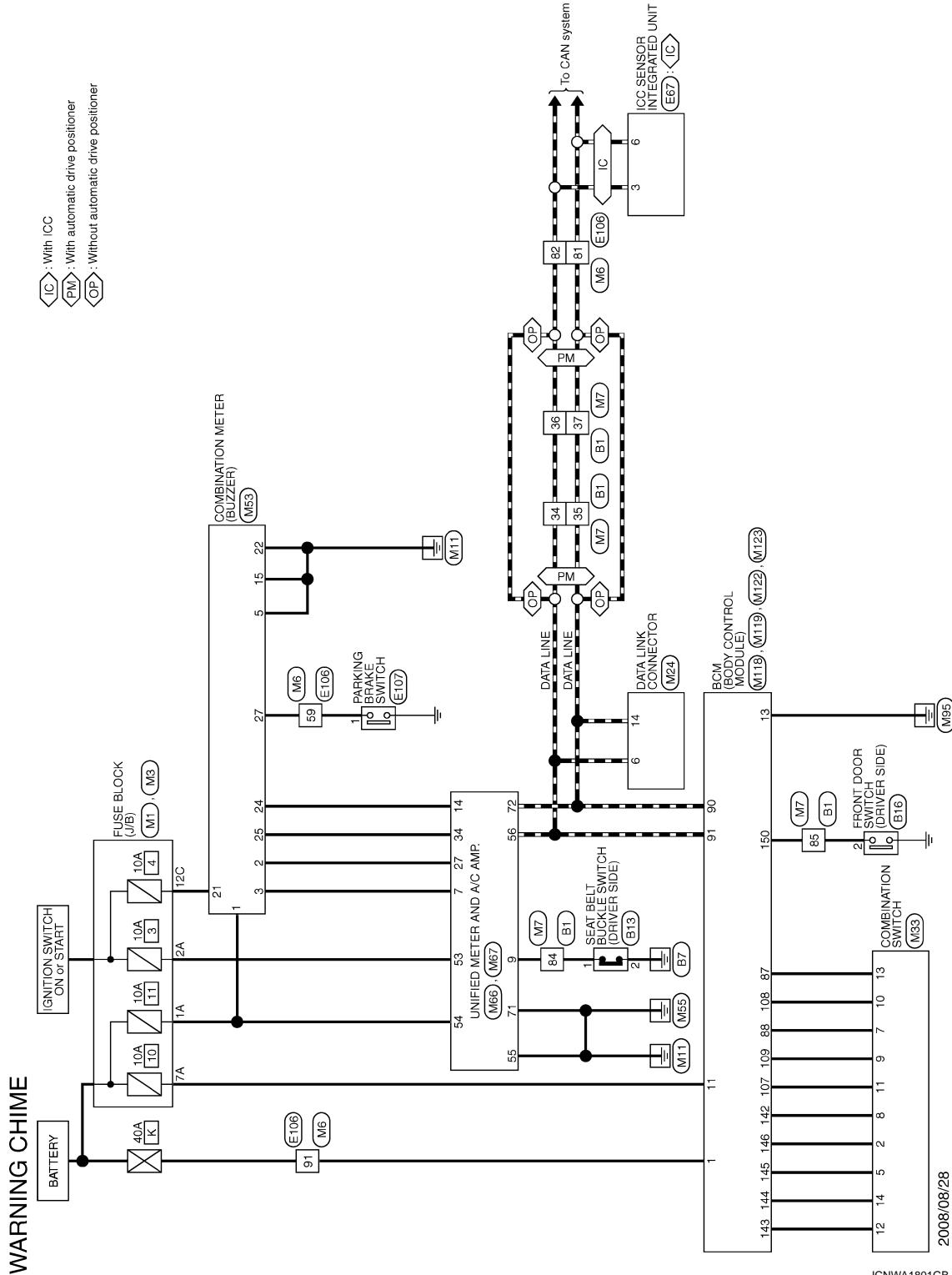
WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME SYSTEM

Wiring Diagram - WARNING CHIME -

INFOID:0000000004348741



WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME		B13		B16		E61	
Connector No.	Connector Name	Connector No.	Connector Name	Connector No.	Connector Name	Connector No.	Connector Name
Connector Name WIRE TO WIRE	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	Connector No. A03FW	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)	Connector No. A03FW	Connector Name ICC SENSOR INTEGRATED UNIT	Connector No. RS06FB-PR	Connector Type RS06FB-PR
Connector Type TH80FW-CS16-TM4							
							
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire
34	L	-	1	S.B	-	2	V
35	P	-	2	B	-	3	L
36	L	-				6	P
37	P	-					
84	SB	-					
85	V	-					
							
B106		E107		M1		N3	
Connector No.	Connector Name	Connector No.	Connector Name	Connector No.	Connector Name	Connector No.	Connector Name
Connector Name WIRE TO WIRE	PARKING BRAKE SWITCH	Connector No. TB01FW	Connector Name FUSE BLOCK (J/B)	Connector No. NS06FW-M2	Connector Name FUSE BLOCK (J/B)	Connector No. NS12FW-CS	Connector Type NS12FW-CS
Connector Type TH80FW-CS16-TM4							
							
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire
59	O	-	1	O	-	12C	O
81	P	-					
92	L	-					
91	W	-					

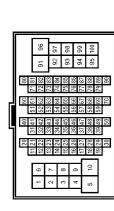
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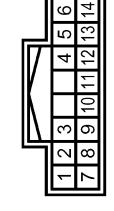
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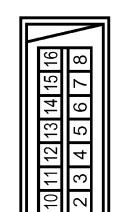
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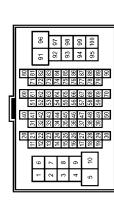
< DTC/CIRCUIT DIAGNOSIS >

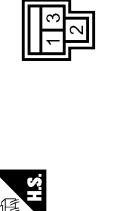
WARNING CHIME

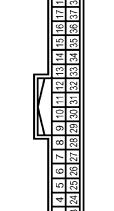
Connector No.	M6	Signal Name [Specification]
Connector Name	WIRE TO WIRE	-
Connector Type	THB0MW-CS16-TM4	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
81	P	-
82	L	-
91	W	-

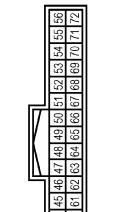
Connector No.	M33	Signal Name [Specification]
Connector Name	COMBINATION SWITCH	-
Connector Type	TH16FW-NH	-
		

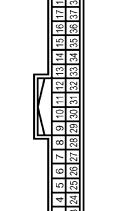
Connector No.	M24	Signal Name [Specification]
Connector Name	DATA LINK CONNECTOR	-
Connector Type	BD16FW	-
		

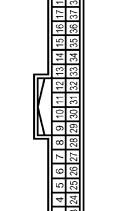
Connector No.	M67	Signal Name [Specification]
Connector Name	UNIFIED METER AND A/C AMP.	-
Connector Type	TH32FW-NH	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
34	L	-
35	P	-
36	L	-
37	-	-
38	SB	-
85	LG	-
86	-	-
87	-	-
88	-	-
89	-	-
90	-	-
91	-	-
92	-	-
93	-	-
94	-	-
95	-	-
96	-	-
97	-	-
98	-	-

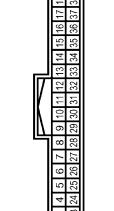
Connector No.	M18	Signal Name [Specification]
Connector Name	BCM (BODY CONTROL MODULE)	-
Connector Type	M05FB-LC	-
		

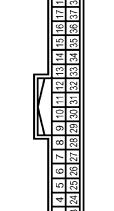
Connector No.	M67	Signal Name [Specification]
Connector Name	UNIFIED METER AND A/C AMP.	-
Connector Type	TH32FW-NH	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
34	L	-
35	P	-
36	L	-
37	-	-
38	SB	-
85	LG	-
86	-	-
87	-	-
88	-	-
89	-	-
90	-	-
91	-	-
92	-	-
93	-	-
94	-	-
95	-	-
96	-	-
97	-	-
98	-	-

Connector No.	M66	Signal Name [Specification]
Connector Name	UNIFIED METER AND A/C AMP.	-
Connector Type	TH40FW-NH	-
		

Connector No.	M67	Signal Name [Specification]
Connector Name	UNIFIED METER AND A/C AMP.	-
Connector Type	TH32FW-NH	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
34	L	-
35	P	-
36	L	-
37	-	-
38	SB	-
85	LG	-
86	-	-
87	-	-
88	-	-
89	-	-
90	-	-
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94	-	-
95	-	-
96	-	-
97	-	-
98	-	-

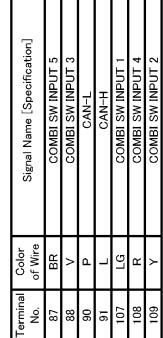
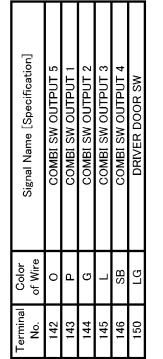
Connector No.	M67	Signal Name [Specification]
Connector Name	UNIFIED METER AND A/C AMP.	-
Connector Type	TH32FW-NH	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
34	L	-
35	P	-
36	L	-
37	-	-
38	SB	-
85	LG	-
86	-	-
87	-	-
88	-	-
89	-	-
90	-	-
91	-	-
92	-	-
93	-	-
94	-	-
95	-	-
96	-	-
97	-	-
98	-	-

Connector No.	M67	Signal Name [Specification]
Connector Name	UNIFIED METER AND A/C AMP.	-
Connector Type	TH32FW-NH	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
34	L	-
35	P	-
36	L	-
37	-	-
38	SB	-
85	LG	-
86	-	-
87	-	-
88	-	-
89	-	-
90	-	-
91	-	-
92	-	-
93	-	-
94	-	-
95	-	-
96	-	-
97	-	-
98	-	-

Connector No.	M67	Signal Name [Specification]
Connector Name	UNIFIED METER AND A/C AMP.	-
Connector Type	TH32FW-NH	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
34	L	-
35	P	-
36	L	-
37	-	-
38	SB	-
85	LG	-
86	-	-
87	-	-
88	-	-
89	-	-
90	-	-
91	-	-
92	-	-
93	-	-
94	-	-
95	-	-
96	-	-
97	-	-
98	-	-

WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME			
Connector No.	M119	Connector No.	M122
Connector Name	BCM(BODY CONTROL MODULE)	Connector Name	BCM(BODY CONTROL MODULE)
Connector Type	NS16FVY-CS	Connector Type	TH40FB-NH
			
			
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
11	R	BAT (FUSE)	COMBI SW INPUT 5
13	B	GND	COMBI SW INPUT 3
			CAN-L
			CAN-H
107	LG	COMBI SW INPUT 1	COMBI SW OUTPUT 1
108	R	COMBI SW INPUT 4	COMBI SW OUTPUT 4
109	Y	COMBI SW INPUT 2	DRIVER DOOR SW

JCNWA1804GB

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WCS

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION COMBINATION METER

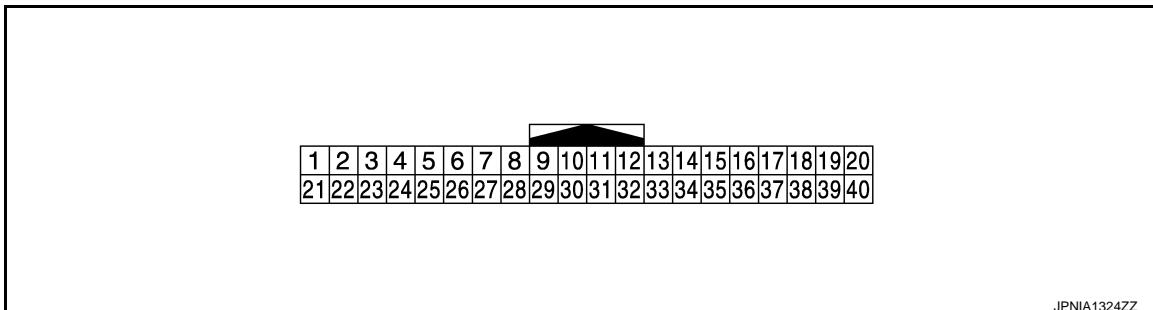
Reference Value

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VALUES ON THE DIAGNOSIS TOOL

Refer to [WCS-43, "Reference Value".](#)

TERMINAL LAYOUT

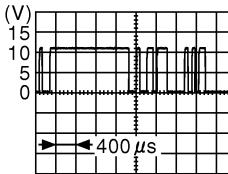
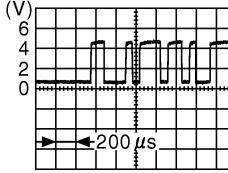
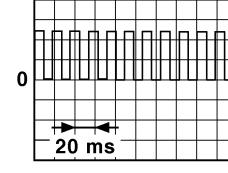
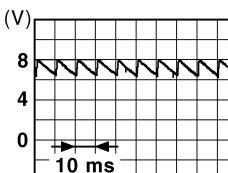


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
1 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	—
2 (LG)	Ground	Communication signal (METER→AMP.)	Output	Ignition switch ON	<p>(V)</p> <p>JSNIA0027GB</p>
3 (GR)	Ground	Communication signal (AMP.→ METER)	Input	Ignition switch ON	<p>(V)</p> <p>JSNIA0027GB</p>
5 (B)	Ground	Ground	—	Ignition switch ON	0 V
6 (P)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON
					Battery voltage
7 (LG)	Ground	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON
					0 V
10 (G)	Ground	Security signal	Input	Ignition switch OFF	Security warning lamp ON
					12 V

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
15 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
16 (B)	Ground	Meter control switch ground	—	Ignition switch ON	—	0 V
21 (O)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
22 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
24 (BR)	Ground	Communication signal (LCD→AMP.)	Output	Ignition switch ON	—	 JSNIA0028GB
25 (Y)	Ground	Communication signal (AMP.→LCD)	Input	Ignition switch ON	—	 JSNIA0027GB
26 (R)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).  JSNIA0012GB
27 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake is applied	0 V
					Parking brake is released	 JSNIA0007GB
28 (W)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal.	5 V
					The brake fluid level is lower than the low level	0 V

A

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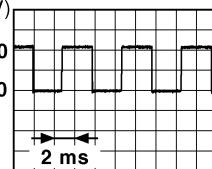
WCS

O

P

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

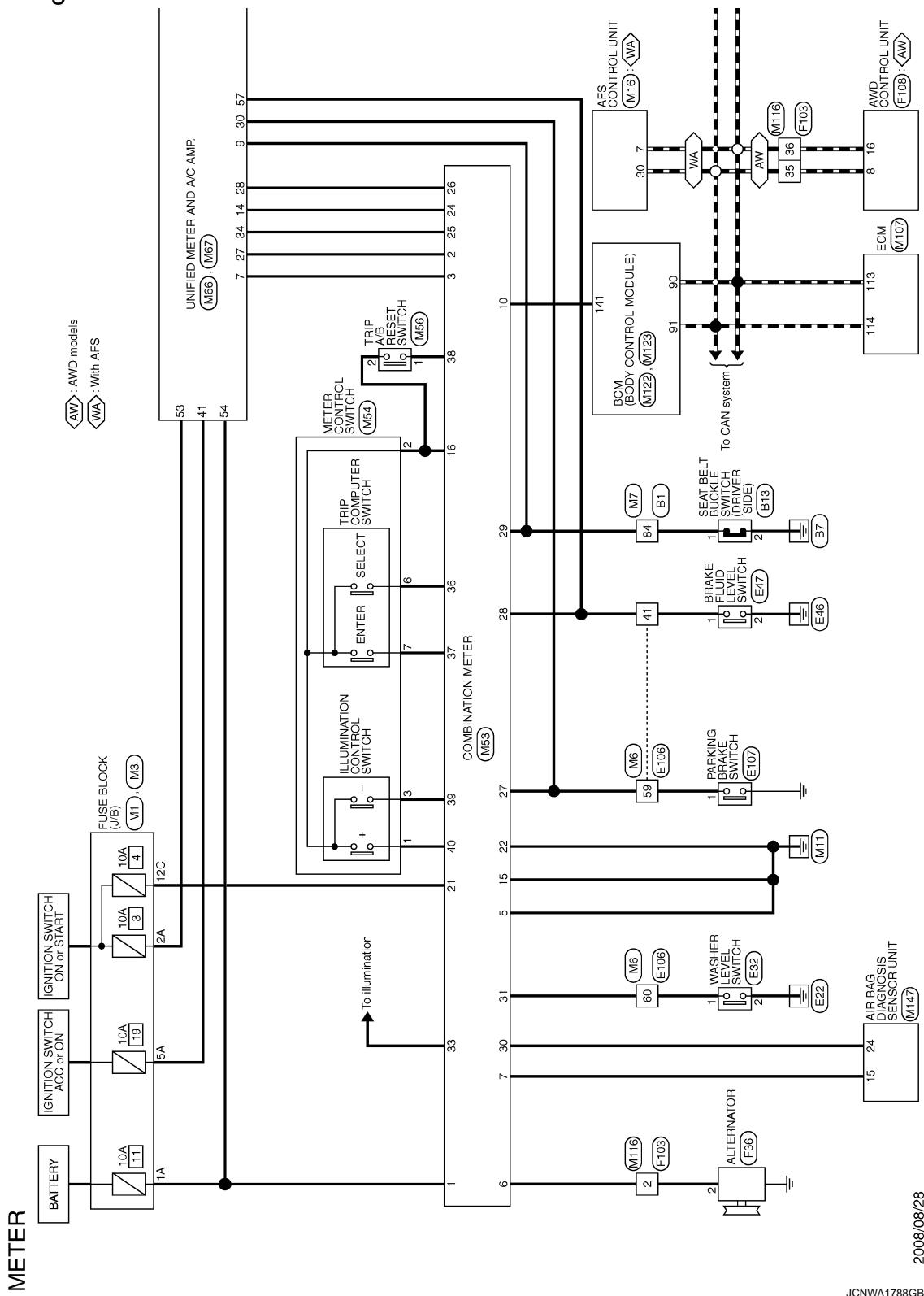
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
29 (SB)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When driver seat belt is fastened	12 V
					When driver seat belt is unfastened	0 V
30 (G)	Ground	Seat belt buckle switch signal (passenger side)	Input	Ignition switch ON	• When getting in the passenger seat • When passenger seat belt is fastened	12 V
					• When getting in the passenger seat • When passenger seat belt is unfastened	0 V
31 (L)	Ground	Washer level switch signal	Input	Ignition switch ON	Washer level switch ON	0 V
					Washer level switch OFF	5 V
33 (B)	Ground	Illumination control signal	Output	Ignition switch ON	Lighting switch ON, then operate the illumination control switch.	NOTE: When brightness level is midway  JSNIA0010GB
36 (LG)	16 (B)	Select switch signal	Input	Ignition switch ON	When  is pressed	0 V
					Other than the above	5 V
37 (SB)	16 (B)	Enter switch signal	Input	Ignition switch ON	When  is pressed	0 V
					Other than the above	5 V
38 (L)	16 (B)	Trip A/B reset switch signal	Input	Ignition switch ON	When trip A/B reset switch is pressed	0 V
					Other than the above	5 V
39 (P)	16 (B)	Illumination control switch signal (-)	Input	Ignition switch ON	When  switch is pressed	0 V
					Other than the above	5 V
40 (O)	16 (B)	Illumination control switch signal (+)	Input	Ignition switch ON	When  switch is pressed	0 V
					Other than the above	5 V

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - METER -

INFOID:000000004684383

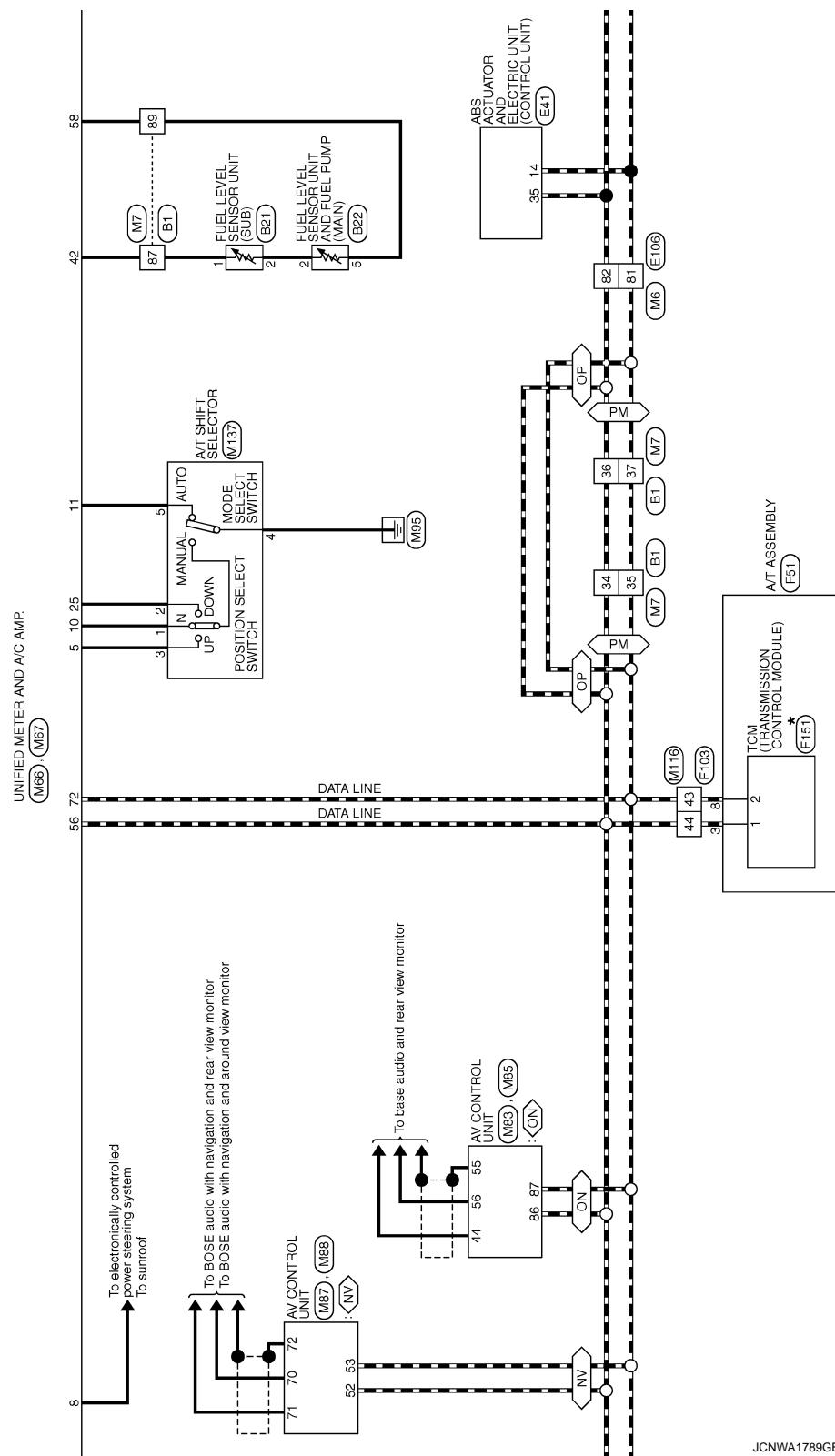


COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

NV : With NAVI
PM : With automatic drive positioner
ON : Without NAVI
OP : Without automatic drive positioner

* : This connector is not shown in "Harness Layout".

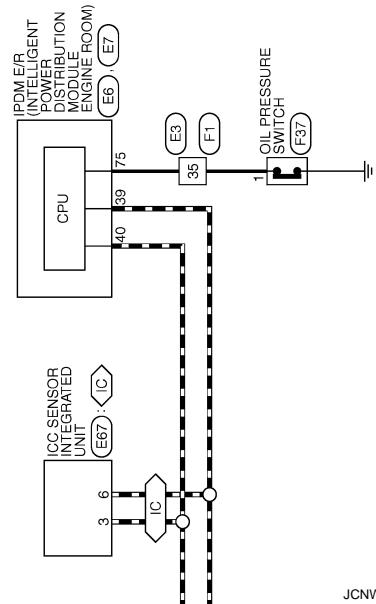
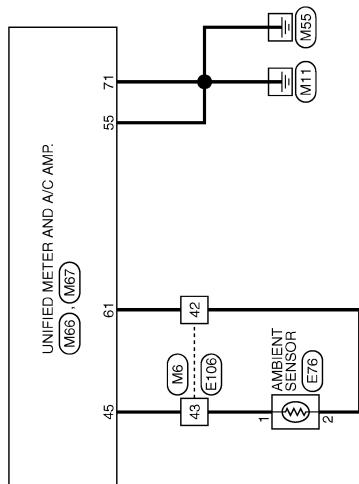


JCNWA1789GB

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

<IC> With ICC



JCNWA1790GB

O

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER			
Connector No.	B1	Connector No.	B13
Connector Name	WIRE TO WIRE	Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TH08FW-CS16-TM4	Connector Type	A08FW
Terminal No.	Color of Wire	Signal Name [Specification]	
34	L	—	
35	P	—	
36	L	—	
37	P	—	
84	SB	—	
87	Y	—	
89	B	—	
Connector No.	E1	Connector No.	B21
Connector Name	WIRE TO WIRE	Connector Name	FUEL LEVEL SENSOR UNIT (SUB)
Connector Type	SA36WB-RS10-SJ22	Connector Type	E02FGT-RS
Terminal No.	Color of Wire	Signal Name [Specification]	
1	SB	—	
2	B	—	
Connector No.	E6	Connector No.	E1
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH08FW-NH	Connector Type	TH02FW-CS12-M4
Terminal No.	Color of Wire	Signal Name [Specification]	
19	—	—	
20	21	22	
21	22	23	
22	23	24	
23	24	25	
24	25	—	
25	—	—	
39	—	—	
40	—	—	
Connector No.	E32	Connector No.	Z02FBR
Connector Name	WASHER LEVEL SWITCH	Connector Name	WASHER LEVEL SWITCH
Connector Type		Connector Type	
Terminal No.	Color of Wire	Signal Name [Specification]	
1	LG	—	
2	B	—	

JCNWA1791GB

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	Color of Wire	Signal Name [Specification]
E41	P	CAN-I_L
35	L	CAN-I_H

Connector No.	Color of Wire	Signal Name [Specification]
E47	W	CAN-I_L
2	B	CAN-I_H

Connector No.	Color of Wire	Signal Name [Specification]
E47	Y	BRAKE FLUID LEVEL SWITCH
YV02FGY		

Connector No.	Color of Wire	Signal Name [Specification]
E67		ICC SENSOR INTEGRATED UNIT
RS05FB-FR		

Connector No.	Color of Wire	Signal Name [Specification]
E67	L	CAN-H
6	P	CAN-L

Connector No.	Color of Wire	Signal Name [Specification]
E107		PARKING BRAKE SWITCH
TBD1TW		

Connector No.	Color of Wire	Signal Name [Specification]
E107		WIRE TO WIRE
TH80FW-CS16-TH4		

Connector No.	Color of Wire	Signal Name [Specification]
E107		WIRE TO WIRE
SAA36FB-RS10-SJ22		

Connector No.	Color of Wire	Signal Name [Specification]
E107		WIRE TO WIRE
434146434463242446		

Connector No.	Color of Wire	Signal Name [Specification]
E107		WIRE TO WIRE
35	Y	

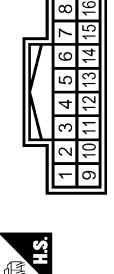
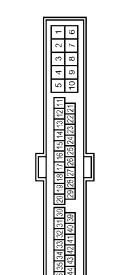
Connector No.	Color of Wire	Signal Name [Specification]
E107		WIRE TO WIRE
434146434463242446		

Connector No.	Color of Wire	Signal Name [Specification]
E107		WIRE TO WIRE
35	Y	

Connector No.	Color of Wire	Signal Name [Specification]
E107		WIRE TO WIRE
35	Y	

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER <table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td>Connector No.</td> <td>F57</td> </tr> <tr> <td>Connector Name</td> <td>A/T PRESSURE SWITCH</td> </tr> <tr> <td>Connector Type</td> <td>EDIF/GV-RS-AR</td> </tr> </table>  	Connector No.	F57	Connector Name	A/T PRESSURE SWITCH	Connector Type	EDIF/GV-RS-AR	<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td>Connector No.</td> <td>F51</td> </tr> <tr> <td>Connector Name</td> <td>A/T ASSEMBLY</td> </tr> <tr> <td>Connector Type</td> <td>RK10FG-DGY</td> </tr> </table>  	Connector No.	F51	Connector Name	A/T ASSEMBLY	Connector Type	RK10FG-DGY	<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td>Connector No.</td> <td>F103</td> </tr> <tr> <td>Connector Name</td> <td>WIRE TO WIRE</td> </tr> <tr> <td>Connector Type</td> <td>TK38FW-HS10</td> </tr> </table>  	Connector No.	F103	Connector Name	WIRE TO WIRE	Connector Type	TK38FW-HS10																																																																																																																																							
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER			
Connector No.	M7	Connector No.	M16
Connector Name	WIRE TO WIRE	Connector Name	AFS CONTROL UNIT
Connector Type	TH80MW-CS16-TM4	Connector Name	COMBINATION METER
			
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
34	L	-	CAN-L
35	P	-	CAN-H
36	L	-	
37	P	-	
84	SB	-	
87	Y	-	
89	BR	-	
24	BR	COMM (LCD->AMP)	COMM (LCD->AMP)
25	Y	COMM (AMP->LCD)	COMM (AMP->LCD)
26	R	VEHICLE SPEED (8-PULSE)	VEHICLE SPEED (8-PULSE)
27	V	PARKING BRAKE SW	PARKING BRAKE SW
28	W	BRAKE FLUID LEVEL SW	BRAKE FLUID LEVEL SW
29	SB	SEAT BELT BUCKLE SW(DRIVER SIDE)	SEAT BELT BUCKLE SW(DRIVER SIDE)
30	G	SEAT BELT	SEAT BELT
31	L	WASHER LEVEL SW	WASHER LEVEL SW
33	B	ILLUMINATION CONTROL	ILLUMINATION CONTROL
36	LG	SELECT SW	SELECT SW
37	SB	ENTER SW	ENTER SW
38	L	TRIP A/B RESET SW	TRIP A/B RESET SW
39	P	ILLUMINATION CONTROL SW (-)	ILLUMINATION CONTROL SW (+)
40	O	ILLUMINATION CONTROL SW (+)	ILLUMINATION CONTROL SW (-)
Connector No.	M56	Connector No.	M16
Connector Name	TRIP A/B RESET SWITCH	Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TK02MW	Connector Type	TH40FW-NH
			
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
1	L	-	CAN-L
2	B	-	CAN-H
7	LG	AIR BAG	AIR BAG
10	G	SECURITY	SECURITY
15	B	GND	GND
16	B	METER CONTROL SW GND	METER CONTROL SW GND
21	O	IGN	IGN
22	B	GND	GND
24	BR	COMM (METER->AMP)	COMM (METER->AMP)
25	Y	COMM (AMP-METER)	COMM (AMP-METER)
26	R	GR	GR
27	V	MANUAL MODE	MANUAL MODE
28	W	NOT MANUAL MODE	NOT MANUAL MODE
30	V	PARKING BRAKE SWITCH	PARKING BRAKE SWITCH
34	Y	COMMUNICATION SIGNAL (AMP->LCD)	COMMUNICATION SIGNAL (AMP->LCD)
35	O	ILLUMINATION SIGNAL (AMP->LCD)	ILLUMINATION SIGNAL (AMP->LCD)
36	B	VEHICLE SPEED (8-PULSE)	VEHICLE SPEED (8-PULSE)
37	G	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
38	LG	MANUAL MODE	MANUAL MODE
39	SB	NOT MANUAL MODE	NOT MANUAL MODE
40	GR	COMMUNICATION SIGNAL (LCD->AMP)	COMMUNICATION SIGNAL (LCD->AMP)
41	BR	COMMUNICATION SIGNAL (AMP->LCD)	COMMUNICATION SIGNAL (AMP->LCD)
42	V	SHIFT DOWN	SHIFT DOWN
43	Y	SHIFT UP	SHIFT UP
44	W	COMMUNICATION SIGNAL (METER->AMP)	COMMUNICATION SIGNAL (METER->AMP)
45	LG	VEHICLE SPEED (8-PULSE)	VEHICLE SPEED (8-PULSE)
46	SB	PARKING BRAKE SWITCH	PARKING BRAKE SWITCH

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WCS

COMBINATION METER

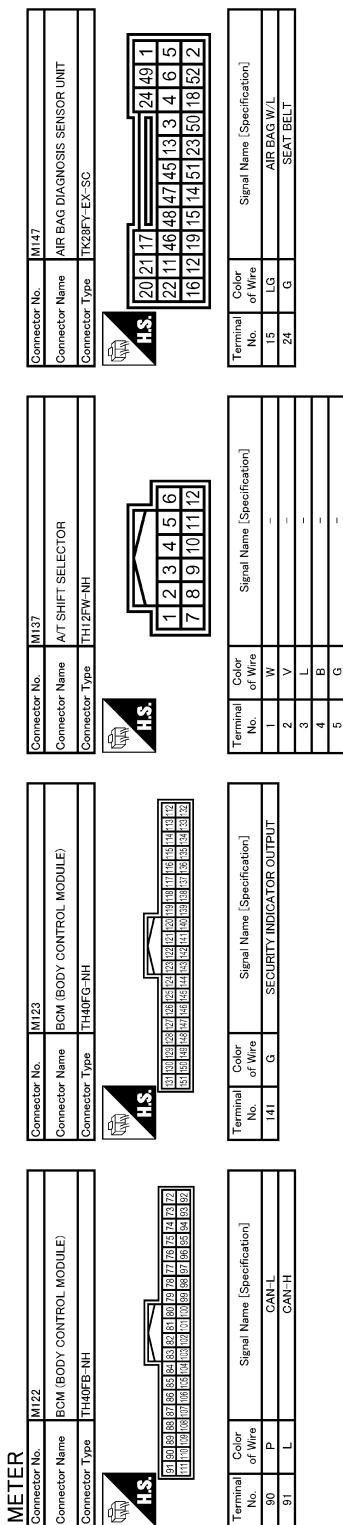
< ECU DIAGNOSIS INFORMATION >

METER		CAN-L	
Connector No.	M87	72	P
Connector Name	UNIFIED METER AND A/C AMP.		CAN-L
Connector Type	TH32FW-NH		
Signal Name [Specification]		CAN-H	
Terminal No.	Color of Wire	Signal Name [Specification]	
41	V	ACC POWER SUPPLY	
42	Y	FUEL LEVEL SENSOR SIGNAL	
45	P	AMBIENT SENSOR SIGNAL	
53	G	IGNITION POWER SUPPLY	
54	Y	BATTERY POWER SUPPLY	
55	B	GROUND	
56	L	CAN-H	
57	W	BRAKE FLUID LEVEL SWITCH	
58	BR	FUEL LEVEL SENSOR GROUND	
61	BR	AMBIENT SENSOR GROUND	
71	B	GROUND	
Signal Name [Specification]		CAN-H	
Terminal No.	Color of Wire	Signal Name [Specification]	
41	V	ACC POWER SUPPLY	
42	Y	FUEL LEVEL SENSOR SIGNAL	
45	P	AMBIENT SENSOR SIGNAL	
53	G	IGNITION POWER SUPPLY	
54	Y	BATTERY POWER SUPPLY	
55	B	GROUND	
56	L	CAN-H	
57	W	BRAKE FLUID LEVEL SWITCH	
58	BR	FUEL LEVEL SENSOR GROUND	
61	BR	AMBIENT SENSOR GROUND	
71	B	GROUND	
Signal Name [Specification]		CAN-L	
Terminal No.	Color of Wire	Signal Name [Specification]	
52	L	CAN-H	
53	P	CAN-L	
Signal Name [Specification]		CAN-L	
Terminal No.	Color of Wire	Signal Name [Specification]	
70	BR	COMM (CONT->DISP)	
71	Y	COMM (DISP->CONT)	
72	SHIELD	SHIELD	
Signal Name [Specification]		CAN-H	
Terminal No.	Color of Wire	Signal Name [Specification]	
113	P	VEHCAN-L1	
114	L	VEHCAN-H1	
43	P	-	
44	L	-	

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >



JCNWA1796GB

INFOID:0000000004684384

Fail-Safe

FAIL-SAFE

Combination meter performs fail-safe operation when unified meter and A/C amp. communication is malfunction.

Solution for communication error between the unified meter and A/C amp. and combination meter.

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Function	Specifications
Speedometer	
Tachometer	
Fuel gauge	Reset to zero by suspending communication.
Water temperature gauge	
Illumination control	When suspending communication, change to nighttime mode.
Information display	The display turns off by suspending communication.
Buzzer	The buzzer turns off by suspending communication.
Warning lamp/indicator lamp	<p>ABS warning lamp VDC OFF indicator lamp SLIP indicator lamp Brake warning lamp CRUISE warning lamp IBA OFF indicator lamp High beam indicator Turn signal indicator lamp Tail lamp indicator lamp Oil pressure warning lamp Malfunction indicator lamp A/T CHECK warning lamp AWD warning lamp Low tire pressure warning lamp Key warning lamp AFS OFF indicator lamp Lane departure warning lamp LDP ON indicator lamp Master warning lamp</p> <p>The lamp turns on by suspending communication.</p> <p>The lamp turns off by suspending communication.</p>

DTC Index

INFOID:000000004684385

Refer to [WCS-59, "DTC Index".](#)

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

UNIFIED METER AND A/C AMP.

Reference Value

INFOID:0000000004684386

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition		Value/Status
SPEED METER [km/h] or [mph]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h] or [mph]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT [km/h] or [mph]	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 malfunction signal is received
FUEL METER [L]	Ignition switch ON	—	Values according to fuel level
W TEMP METER [°C] or [°F]	Ignition switch ON	—	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input
ABS W/L	Ignition switch ON	ABS warning lamp ON	On
		ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch ON	VDC OFF indicator lamp ON	On
		VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch ON	SLIP indicator lamp ON	On
		SLIP indicator lamp OFF	Off
BRAKE W/L	Ignition switch ON	Brake warning lamp ON	On
		Brake warning lamp OFF	Off
DOOR W/L	Ignition switch ON	Door warning displayed	On
		Door warning not displayed	Off
HI-BEAM IND	Ignition switch ON	Hi-beam indicator lamp ON	On
		Hi-beam indicator lamp OFF	Off
TURN IND	Ignition switch ON	Turn indicator lamp ON	On
		Turn indicator lamp OFF	Off
FR FOG IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
RR FOG IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
LIGHT IND	Ignition switch ON	Tail lamp indicator lamp ON	On
		Tail lamp indicator lamp OFF	Off
OIL W/L	Ignition switch ON	Oil pressure warning lamp ON	On
		Oil pressure warning lamp OFF	Off

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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
MIL	Ignition switch ON	Malfunction warning lamp ON	On
		Malfunction warning lamp OFF	Off
GLOW IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
C-ENG2 W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
CRUISE IND	Ignition switch ON	CRUISE indicator displayed	On
		CRUISE indicator not displayed	Off
SET IND	Ignition switch ON	SET indicator lamp ON	On
		SET indicator lamp OFF	Off
CRUISE W/L	Ignition switch ON	CRUISE warning lamp ON	On
		CRUISE warning lamp OFF	Off
BA W/L	Ignition switch ON	IBA OFF indicator lamp ON	On
		IBA OFF indicator lamp ON	Off
ATC/T-AMT W/L	Ignition switch ON	A/T check warning lamp ON	On
		A/T check warning lamp OFF	Off
4WD W/L	Ignition switch ON	AWD warning lamp ON	On
		AWD warning lamp OFF	Off
4WD LOCK IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
FUEL W/L	Ignition switch ON	Low-fuel warning lamp displayed	On
		Low-fuel warning lamp not displayed	Off
WASHER W/L	Ignition switch ON	Washer warning displayed	On
		Washer warning not displayed	Off
AIR PRES W/L	Ignition switch ON	Low tire pressure warning lamp ON	On
		Low tire pressure warning lamp OFF	Off
KEY G/Y W/L	Ignition switch ON	Key warning lamp ON	On
		Key warning lamp OFF	Off
AFS OFF IND	Ignition switch ON	AFS OFF indicator lamp ON	On
		AFS OFF indicator lamp OFF	Off
4WAS/RAS W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
DDS W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
LANE W/L	Ignition switch ON	Lane departure warning lamp ON	On
		Lane departure warning lamp OFF	Off
LDP IND	Ignition switch ON	LDP ON indicator lamp ON	On
		LDP ON indicator lamp OFF	Off
DCA IND	Ignition switch ON	DCA switch indicator displayed	On
		DCA switch indicator not displayed	Off

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
LCD	Ignition switch ON	Engine start information display	B&P I
	Ignition switch ACC	Engine start information display	B&P N
	Ignition switch LOCK	Key ID warning display	ID NG
	Ignition switch LOCK	Steering lock information display	ROTAT
	Ignition switch LOCK	P position warning display	SFT P
	Ignition switch LOCK	Intelligent Key insert information display	INSRT
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT
	Ignition switch ON	Take away warning display	NO KY
	Ignition switch LOCK	Key warning display	OUTKY
ACC TARGET	Ignition switch ON	ACC warning display	LK WN
	Ignition switch ON	Vehicle ahead detection indicator displayed	On
ACC DISTANCE	Ignition switch ON	Vehicle ahead detection indicator not displayed	Off
		When following distance set to "LONG"	LONG
		When following distance set to "MIDDLE"	MID
		When following distance set to "SHORT"	SHORT
ACC OWN VHL	Ignition switch ON	Set distance indicator not displayed	Off
		Own vehicle indicator displayed	On
ACC SET SPEED	Ignition switch ON	Own vehicle indicator not displayed	Off
		Set vehicle speed indicator not displayed	Off
ACC UNIT	Ignition switch ON	Set vehicle speed indicator displayed	Indicates the set vehicle speed
		Set vehicle speed indicator unit display ON	On
SHIFT IND	Ignition switch ON	Set vehicle speed indicator unit display OFF	Off
		Shift position indicator P display	P
		Shift position indicator R display	R
		Shift position indicator N display	N
		Shift position indicator D display	D
		Shift position indicator DS display	L
		Shift position indicator M1 display	M1
		Shift position indicator M2 display	M2
		Shift position indicator M3 display	M3
		Shift position indicator M4 display	M4
O/D OFF SW	Ignition switch ON	Shift position indicator M5 display	M5
		NOTE: This item is displayed, but cannot be monitored.	Off
AT S MODE SW	Ignition switch ON	Snow mode switch ON	On
		Snow mode switch OFF	Off

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UNIFIED METER AND A/C AMP.

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Monitor Item	Condition		Value/Status
AT P MODE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
M RANGE SW	Ignition switch ON	Selector lever manual mode position	On
		Other than the above	Off
NM RANGE SW	Ignition switch ON	Selector lever manual mode position	Off
		Other than the above	On
AT SFT UP SW	Ignition switch ON	Selector lever + position	On
		Other than the above	Off
AT SFT DWN SW	Ignition switch ON	Selector lever – position	On
		Other than the above	Off
ST SFT UP SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ST SFT DWN SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
COMP F/B SIG	Ignition switch ON	A/C compressor activation condition	On
		A/C compressor deactivation condition	Off
4WD LOCK SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
PKB SW	Ignition switch ON	Parking brake switch ON	On
		Parking brake switch OFF	Off
BUCKLE SW	Ignition switch ON	Driver seat belt not fastened	On
		Driver seat belt fastened	Off
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON	On
		Brake fluid level switch OFF	Off
DISTANCE [km]	Ignition switch ON	—	Possible driving distance calculated by unified meter and A/C amp.
OUTSIDE TEMP [°C] or [°F]	Ignition switch ON	—	Equivalent to ambient temperature NOTE: This may not match the indicated value on the information display.
FUEL LOW SIG	Ignition switch ON	Low-fuel warning signal output	On
		Low-fuel warning signal not output	Off
BUZZER	Ignition switch ON	Buzzer ON	On
		Buzzer OFF	Off

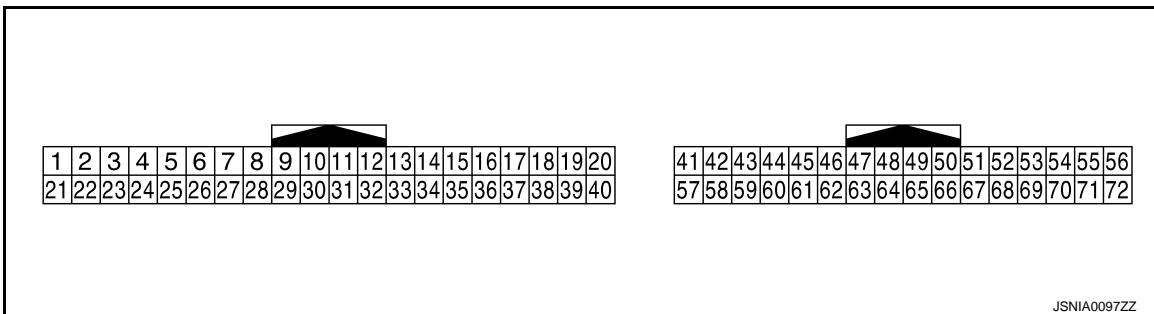
NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT

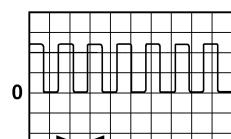
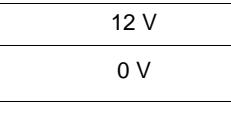
UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >



JSNIA0097ZZ

PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
5 (L)	Ground	Manual mode shift up signal	Input	Ignition switch ON	Selector lever UP operation	0 V
					Other than the above	12 V
7 (GR)	Ground	Communication signal (AMP. → METER)	Output	Ignition switch ON	—	 SKIA3362E
8 (L)	Ground	Vehicle speed signal (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).  JSNIA0015GB
9 (SB)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When seat belt is fastened	12 V
					When seat belt is not fastened	0 V
10 (W)	Ground	Manual mode signal	Input	Ignition switch ON	Selector lever DS position	0 V
					Other than the above	12 V
11 (G)	Ground	Not manual mode signal	Input	Ignition switch ON	Selector lever DS position	12 V
					Other than the above	0 V
14 (BR)	Ground	Communication signal (LCD → AMP.)	Input	Ignition switch ON	—	 JSNIA0028GB

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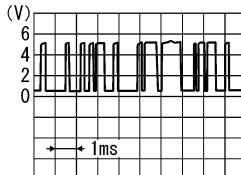
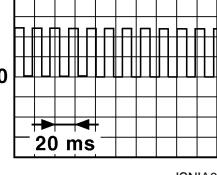
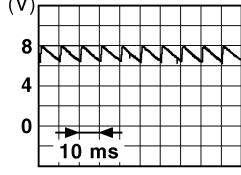
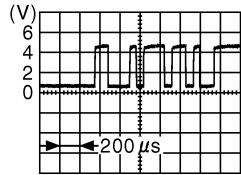
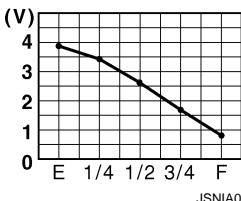
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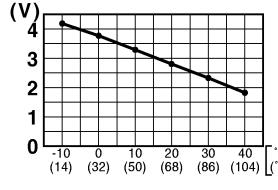
UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
25 (V)	Ground	Manual mode shift down signal	Input	Ignition switch ON	Selector lever down operation	0 V
					Other than the above	12 V
27 (LG)	Ground	Communication signal (METER → AMP.)	Input	Ignition switch ON	—	 SKIA3361E
28 (R)	Ground	Vehicle speed signal (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	 JSNIA0012GB
30 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake is applied Parking brake is released	 JSNIA0007GB
34 (Y)	Ground	Communication signal (AMP. → LCD)	Output	Ignition switch ON	—	 JSNIA0027GB
41 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
42 (Y)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	 JSNIA0013GB

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
45 (P)	Ground	Ambient sensor signal	Input	—	—	 JSNIA0014GB
53 (G)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
54 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
55 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
56 (L)	Ground	CAN-H	—	—	—	—
57 (W)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal.	5 V
				Ignition switch ON	The brake fluid level is lower than the low level	0 V
58 (BR)	Ground	Fuel level sensor signal ground	—	Ignition switch ON	—	0 V
61 (BR)	Ground	Ambient sensor signal ground	—	Ignition switch ON	—	0 V
71 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
72 (P)	Ground	CAN-L	—	—	—	—

A

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K

L

M

WCS

O

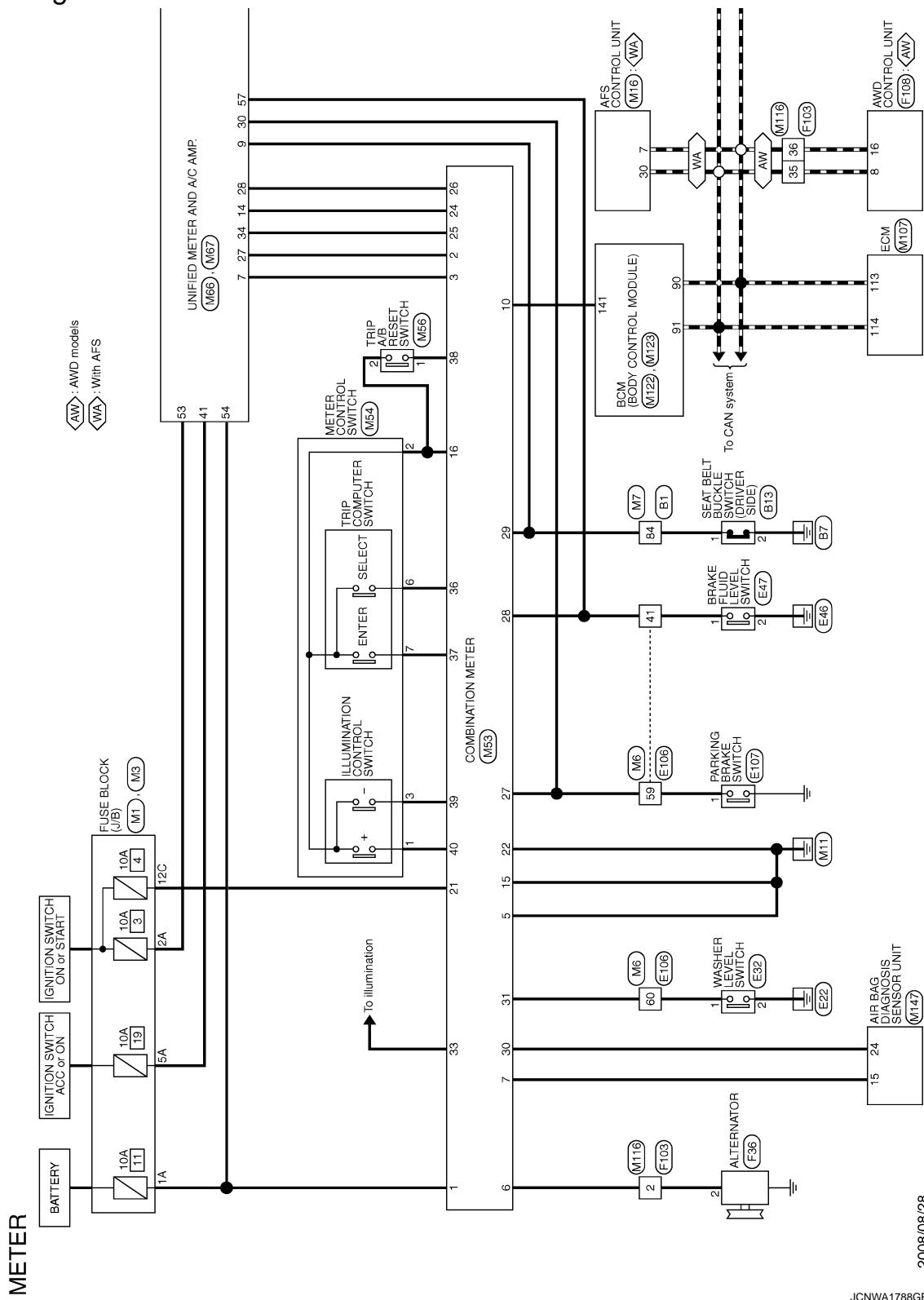
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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - METER -

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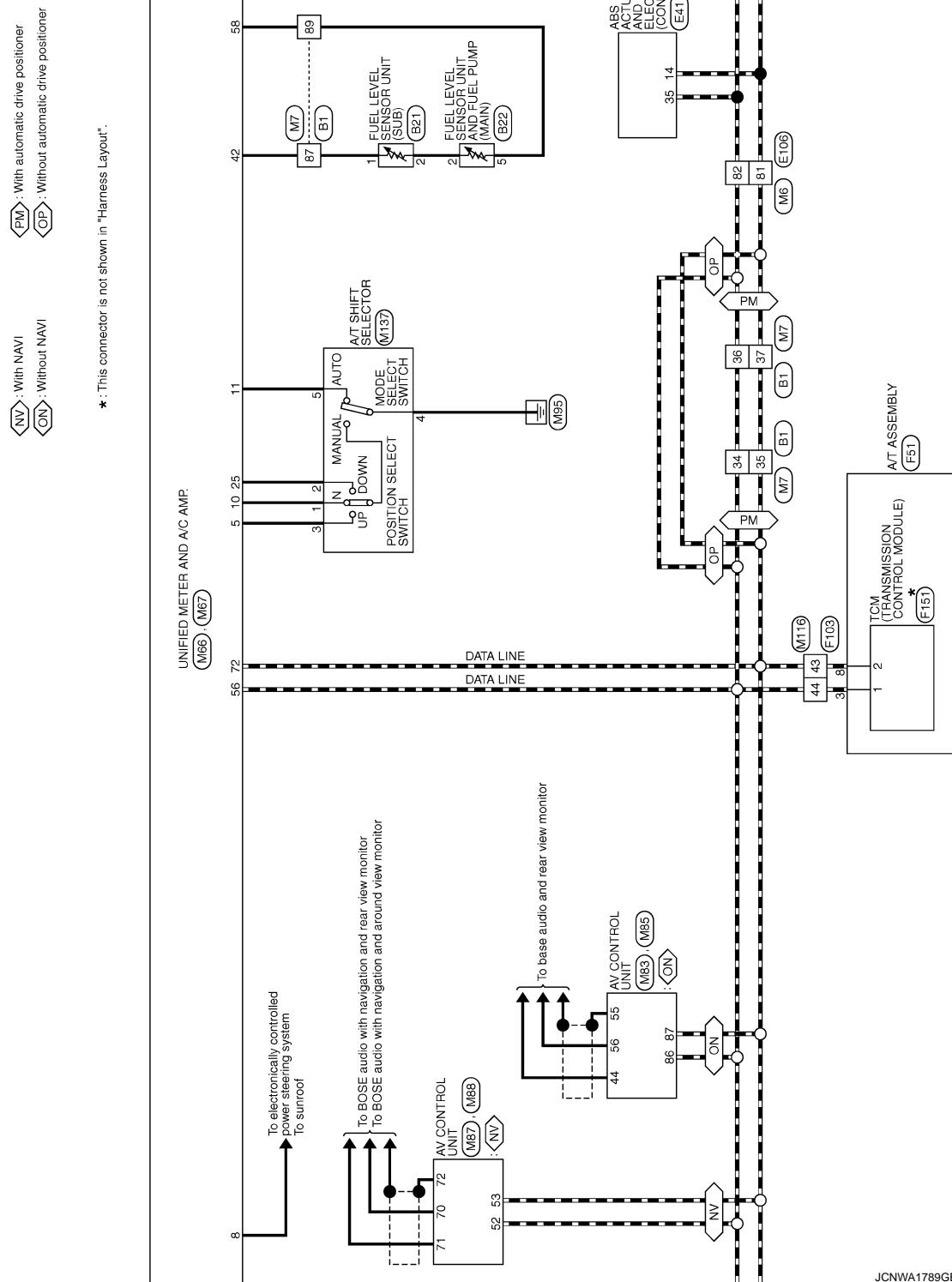


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2008/08/28

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >



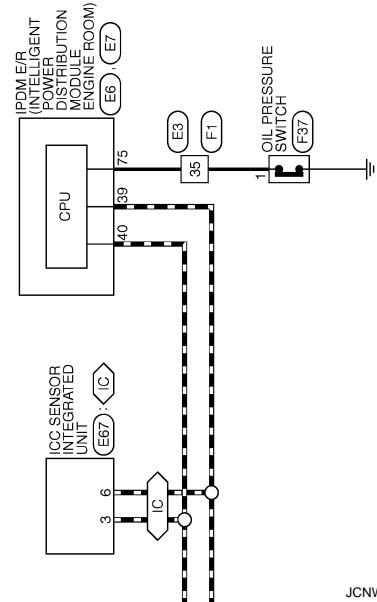
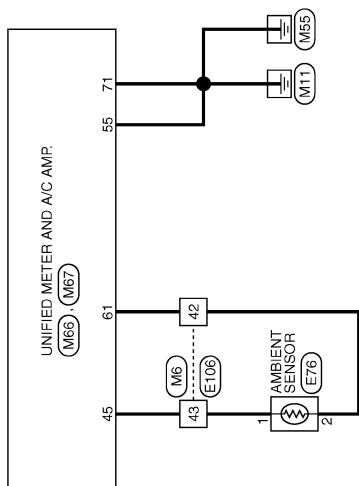
JCNWA1789GB

WCS

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

<IC> With ICC



JCNWA1790GB

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER							
Connector No.	B1	Connector No.	B13	Connector No.	B21	Connector No.	B22
Connector Name	WIRE TO WIRE	Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	Connector Name	FUEL LEVEL SENSOR UNIT (SUB)	Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN)
Connector Type	TH80FW-CS16-TM4	Connector Type	A03FW	Connector Type	EU2FGR-RS	Connector Type	ED0FGY-RS
							
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire
34	L	-	1	SB	-	1	Y
35	P	-	2	B	-	2	W
36	L	-				5	B
37	P	-					-
84	SB	-					
87	Y	-					
89	B	-					

WIRE TO WIRE							
Connector No.	E9	Connector No.	E6	Connector No.	E7	Connector No.	E23
Connector Name	WIRE TO WIRE	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Name	WASHER LEVEL SWITCH
Connector Type	SAA36WB-RS10-SJ22	Connector Type	TH08BW-NH	Connector Type	TH20FW-CS12-M4	Connector Type	Z02FBR
							
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire
19	1 2 3 4 5 6 7 8 9	-	42	41 40 39	-	53	54 55 56 57 58
20	10 11 12 13 14 15 16 17 18	-	43	45 46 47 48	-	59	55 56 57 58
21	22 23 24 25	-	44	48 49 50 51 52	-	60	55 56 57 58
22	26 27 28 29 30	-	45	53 54 55 56 57	-	61	55 56 57 58
23	31 32 33 34 35 36 37 38	-	46	45 44 43	-	62	55 56 57 58
24	41 42 43 44 45 46 47 48	-				79	80
25	49 50 51 52 53 54 55 56	-				81	82

SAA36WB-RS10-SJ22							
Connector No.	E9	Connector No.	E6	Connector No.	E7	Connector No.	E23
Connector Name	WIRE TO WIRE	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Name	WASHER LEVEL SWITCH
Connector Type	SAA36WB-RS10-SJ22	Connector Type	TH08BW-NH	Connector Type	TH20FW-CS12-M4	Connector Type	Z02FBR
							
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire
39	P	-	75	Y	-	1	LG
40	L	-	2	B	-	2	B

JCNWA1791GB

WCS

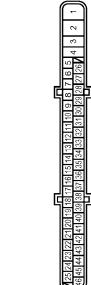
A
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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	E47	Connector No.	E67
Connector Name	BRAKE FLUID LEVEL SWITCH	Connector Name	ICC SENSOR INTEGRATED UNIT
Connector Type	YV02FGY	Connector Type	R50BFB-FR



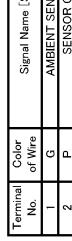
Terminal No.	Color of Wire	Signal Name [Specification]
14	P	CAN-H
35	L	CAN-L

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



Connector No.	E67
Connector Name	ICC SENSOR INTEGRATED UNIT
Connector Type	R50BFB-FR



Connector No.	E47
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Connector No.	E67
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Connector No.	E107
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



Connector No.	E47
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



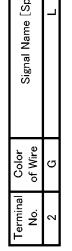
Connector No.	E67
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



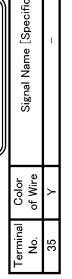
Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



Connector No.	E47
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



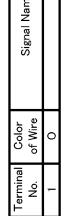
Connector No.	E67
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



Connector No.	E107
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Connector No.	E107
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

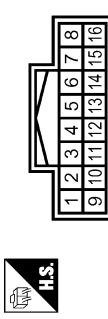


UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	F57	Connector No.	F103
Connector Name	A/T ASSEMBLY	Connector Name	WIRE TO WIRE
Connector Type	RK10FG-DGY	Connector Type	TK38FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-
8	P	-
9	G	-
10	Y	-
11	GR	-
12	BR	-
13	W	-
14	GR	-
15	BR	-
16	W	-
17	GR	-
18	BR	-
19	W	-
20	GR	-
21	BR	-
22	W	-
23	GR	-
24	BR	-
25	W	-
26	GR	-
27	BR	-
28	W	-
29	GR	-
30	BR	-
31	W	-
32	GR	-
33	BR	-
34	W	-
35	GR	-
36	BR	-
37	W	-
38	GR	-
39	BR	-
40	W	-
41	GR	-
42	BR	-
43	W	-
44	GR	-
45	BR	-
46	W	-
47	GR	-
48	BR	-
49	W	-
50	GR	-
51	BR	-
52	W	-
53	GR	-
54	BR	-
55	W	-
56	GR	-
57	BR	-
58	W	-
59	GR	-
60	BR	-
61	W	-
62	GR	-
63	BR	-
64	W	-
65	GR	-
66	BR	-
67	W	-
68	GR	-
69	BR	-
70	W	-
71	GR	-
72	BR	-
73	W	-
74	GR	-
75	BR	-
76	W	-
77	GR	-
78	BR	-
79	W	-
80	GR	-
81	BR	-
82	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	CAN-H
2	L-Y	CAN-L

Terminal No.	Color of Wire	Signal Name [Specification]
1	2	3
2	1	4
3	3	5
4	4	6
5	5	7
6	6	8
7	7	9
8	8	10
9	9	11
10	10	12
11	11	13
12	12	14
13	13	15
14	14	16

Terminal No.	Color of Wire	Signal Name [Specification]
8	L	CAN-H
16	P	CAN-L

Terminal No.	Color of Wire	Signal Name [Specification]
2	G	-
35	L	-
36	P	-
43	P	-
44	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
5C4C	3C2C	C
12C	11C	9C8C
10C	10C	7C6C

Terminal No.	Color of Wire	Signal Name [Specification]
1A	1A	-
2A	2A	-
3A	3A	-
8A	7A	6A
9A	5A	4A

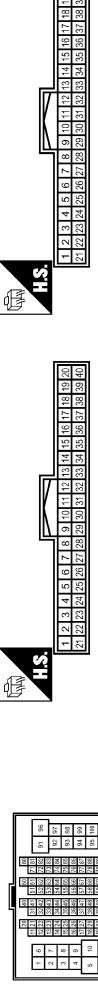
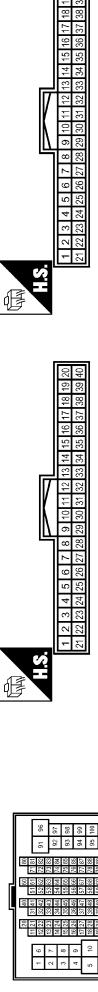
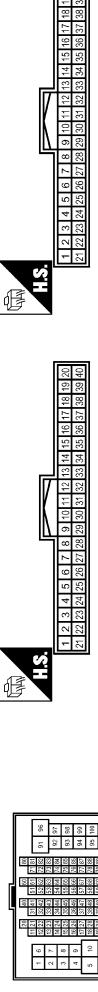
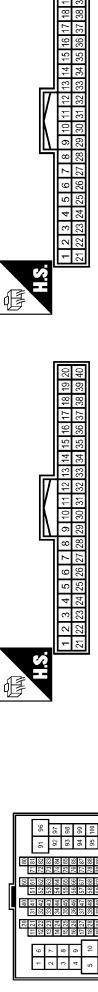
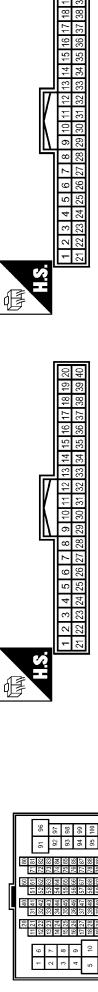
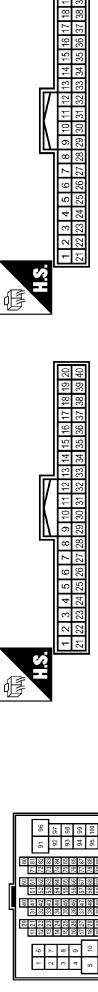
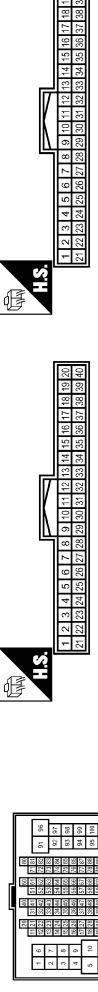
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	CAN-H
2	L-Y	CAN-L

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 I
 J
 K
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 T
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 WCS

JCNWA1793GB

UNIFIED METER AND A/C AMP.

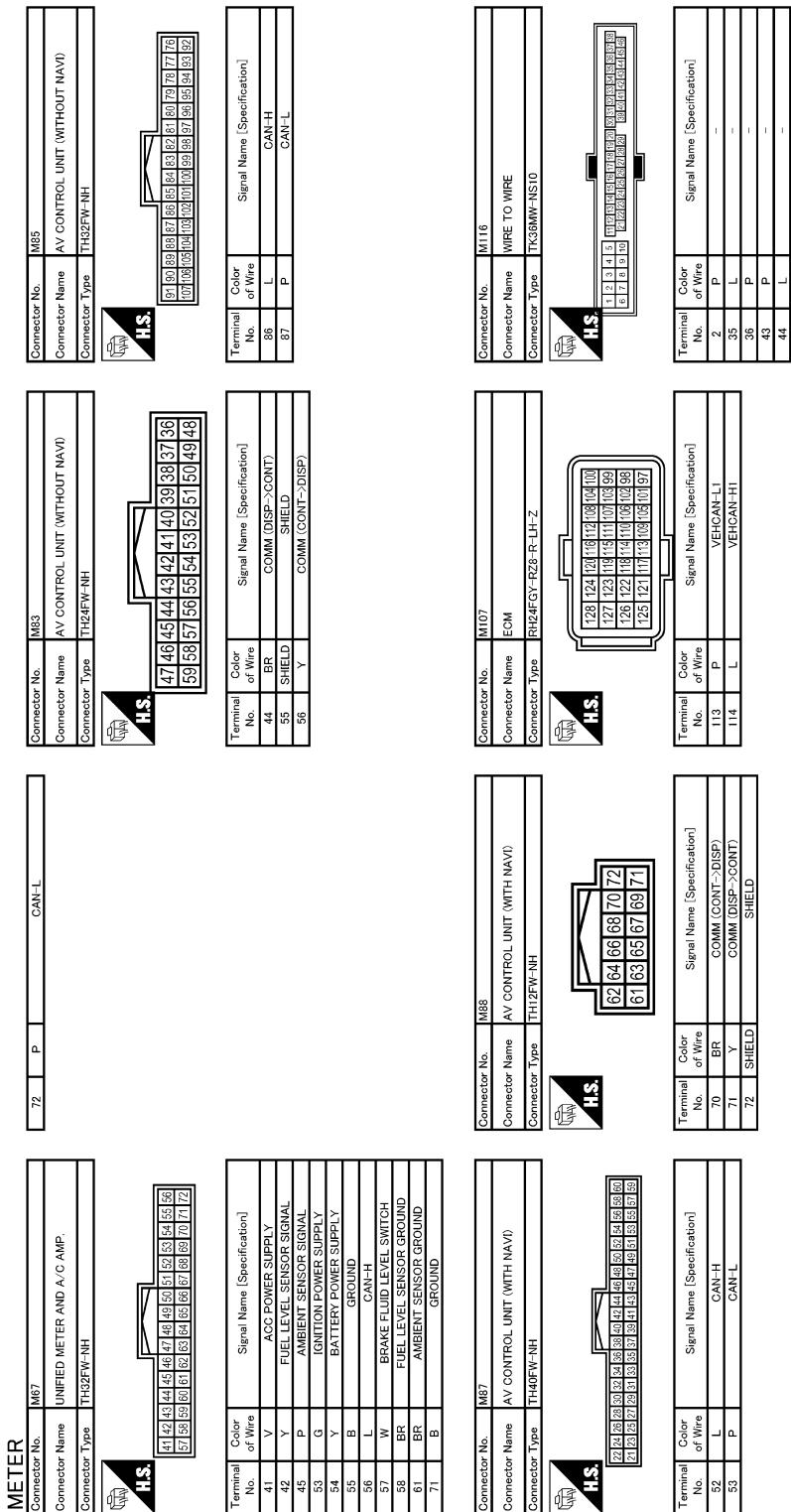
< ECU DIAGNOSIS INFORMATION >

METER		
Connector No.	M7	
Connector Name	WIRE TO WIRE	
Connector Type	THB0MW-CST16-TM4	
		
Terminal No.	Color of Wire	Signal Name [Specification]
34	L	-
35	P	-
36	L	-
37	P	-
84	SB	-
87	Y	-
89	BR	-
AFS CONTROL UNIT		
Connector No.	M16	
Connector Name	AFS CONTROL UNIT	
Connector Type	TH40FW-NH	
		
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	CAN-L
30	L	CAN-H
COMBINATION METER		
Connector No.	M53	
Connector Name	COMBINATION METER	
Connector Type	TH40FW-NH	
		
Terminal No.	Color of Wire	Signal Name [Specification]
24	BR	COMM (LCD->AMP)
25	Y	COMM (AMP->LCD)
26	R	VEHICLE SPEED (8-PULSE)
27	V	PARKING BRAKE SW
28	W	BRAKE FLUID LEVEL SW
29	SB	SEAT BELT BUCKLE SW (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SW (PASSENGER SIDE)
31	L	WASHER LEVEL SW
33	B	ILLUMINATION CONTROL
36	LG	SELECT SW
37	SB	ENTER SW
38	L	TRIP A/B RESET SW
39	P	ILLUMINATION CONTROL SW (-)
40	O	ILLUMINATION CONTROL SW (+)
UNIFIED METER AND A/C AMP.		
Connector No.	M56	
Connector Name	UNIFIED METER AND A/C AMP.	
Connector Type	TH40FW-NH	
		
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BAT
2	LG	COMM (METER->AMP)
3	GR	COMM (AMP->METER)
5	B	GND
6	P	ALTERNATOR
7	LG	AIR BAG
10	G	SECURITY
15	B	GND
16	B	METER CONTROL SW GND
21	O	IGN
22	B	GND
TRIP A/B RESET SWITCH		
Connector No.	M55	
Connector Name	TRIP A/B RESET SWITCH	
Connector Type	TK02MW	
		
Terminal No.	Color of Wire	Signal Name [Specification]
1	2	3
2	3	4
3	4	5
4	5	6
5	6	7
6	7	8
7	8	9
8	9	10
9	10	11
10	11	12
METER CONTROL SWITCH		
Connector No.	M54	
Connector Name	METER CONTROL SWITCH	
Connector Type	TH12MW-NH	
		
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	B	-
3	P	-
6	LG	-
7	SB	-
NOT MANUAL MODE		
Connector No.	M57	
Connector Name	NOT MANUAL MODE	
Connector Type	TH40FW-NH	
		
Terminal No.	Color of Wire	Signal Name [Specification]
5	L	SHIFT UP
7	GR	COMMUNICATION SIGNAL (LCD->AMP)
8	L	VEHICLE SPEED (2-PULSE)
9	SB	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
10	W	MANUAL MODE
11	G	COMMUNICATION SIGNAL (LCD->AMP)
25	V	SHIFT DOWN
27	LG	COMMUNICATION SIGNAL (METER->AMP)
28	R	VEHICLE SPEED (8-PULSE)
30	V	PARKING BRAKE SWITCH

JCNWA1794GB

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >



JCNWA1795GB

A B C D E F G H I J K L M N P O

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER											
Connector No.	BCM(BODY CONTROL MODULE)	Connector No.									
MI122		MI123									
Connector Name	BCM(BODY CONTROL MODULE)	Connector Name									
Connector Type	TH40FB-NH	Connector Type									
											
											
		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>141</td> <td>G</td> <td>SECURITY INDICATOR OUTPUT</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	141	G	SECURITY INDICATOR OUTPUT			
Terminal No.	Color of Wire	Signal Name [Specification]									
141	G	SECURITY INDICATOR OUTPUT									
		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>90</td> <td>P</td> <td>CAN-H</td> </tr> <tr> <td>91</td> <td>L</td> <td>CAN-L</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	90	P	CAN-H	91	L	CAN-L
Terminal No.	Color of Wire	Signal Name [Specification]									
90	P	CAN-H									
91	L	CAN-L									

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
141	G	SECURITY INDICATOR OUTPUT	1	W	-
			2	V	-
			3	L	-
			4	B	-
			5	G	-

JCNWA1796GB

INFOID:0000000004684388

Fail-Safe

FAIL-SAFE

The unified meter and A/C amp. activates the fail-safe control if CAN communication with each unit is malfunctioning.

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

	Function	Specifications	
Speedometer		Reset to zero by suspending communication.	A
Tachometer			B
Fuel gauge			C
Water temperature gauge			D
Illumination control		When suspending communication, change to nighttime mode.	E
Information display		The display turns off by suspending communication.	F
Buzzer		The buzzer turns off by suspending communication.	G
Warning lamp/indicator lamp	ABS warning lamp	The lamp turns on by suspending communication.	H
	VDC OFF indicator lamp		I
	SLIP indicator lamp		J
	Brake warning lamp		K
	CRUISE warning lamp		L
	IBA OFF indicator lamp		M
	AWD warning lamp		N
	Low tire pressure warning lamp		O
	Master warning lamp		P
	AFS OFF indicator lamp	The lamp blinking caused by communication malfunction	Q
	High beam indicator	The lamp turns off by suspending communication.	R
	Turn signal indicator lamp		S
	Tail lamp indicator lamp		T
	Oil pressure warning lamp		U
	Malfunction indicator lamp		V
	A/T CHECK warning lamp		W
	Key warning lamp		X
	Lane departure warning lamp		Y
	LDP ON indicator lamp		Z

DTC Index

INFOID:000000004684389

Display contents of CONSULT-III	Time	Diagnostic item is detected when ...	Refer to
CAN COMM CIRCUIT [U1000]	CRNT, 1 - 39	When unified meter and A/C amp. is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-44
CONTROL UNIT (CAN) [U1010]	CRNT, 1 - 39	When detecting error during the initial diagnosis of CAN controller of unified meter and A/C amp.	MWI-45
COMM ERROR 1 [B2201]	CRNT, 1 - 39	If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more.	MWI-46
COMM ERROR 2 [B2202]	CRNT, 1 - 39	If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more.	MWI-48
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.	MWI-50
ENGINE SPEED [B2267]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-51
WATER TEMP [B2268]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-52

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000004684393

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
DOOR SW-DR	Driver door closed	Off	A
	Driver door opened	On	
DOOR SW-AS	Passenger door closed	Off	B
	Passenger door opened	On	
DOOR SW-RR	Rear RH door closed	Off	C
	Rear RH door opened	On	
DOOR SW-RL	Rear LH door closed	Off	D
	Rear LH door opened	On	
DOOR SW-BK	Back door closed	Off	E
	Back door opened	On	
CDL LOCK SW	Other than power door lock switch LOCK	Off	
	Power door lock switch LOCK	On	
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off	F
	Power door lock switch UNLOCK	On	
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off	G
	Driver door key cylinder LOCK position	On	
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off	H
	Driver door key cylinder UNLOCK position	On	
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	
HAZARD SW	Hazard switch is OFF	Off	I
	Hazard switch is ON	On	
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off	J
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off	
TR/BD OPEN SW	Back door opener switch OFF	Off	K
	While the back door opener switch is turned ON	On	
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off	L
RKE-LOCK	LOCK button of the key is not pressed	Off	
	LOCK button of the key is pressed	On	
RKE-UNLOCK	UNLOCK button of the key is not pressed	Off	M
	UNLOCK button of the key is pressed	On	
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off	
RKE-PANIC	PANIC button of the key is not pressed	Off	O
	PANIC button of the key is pressed	On	
RKE-P/W OPEN	UNLOCK button of the key is not pressed	Off	
	UNLOCK button of the key is pressed and held	On	P
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off	
	LOCK/UNLOCK button of the key is pressed and held simultaneously	On	
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V	
	Dark outside of the vehicle	Close to 0 V	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	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	Off
	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
S/L -LOCK	Steering is unlocked	Off
	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
	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	Off
	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
SFT N -MET	Selector lever in any position other than N	Off	A
	Selector lever in N position	On	
ENGINE STATE	Engine stopped	Stop	B
	While the engine stalls	Stall	
	At engine cranking	Crank	C
	Engine running	Run	
S/L LOCK-IPDM	Steering is unlocked	Off	D
	Steering is locked	On	
S/L UNLK-IPDM	Steering is locked	Off	E
	Steering is unlocked	On	
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK.	Off	F
	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK.	On	
VEH SPEED 1	While driving	Equivalent to speedometer reading	G
VEH SPEED 2	While driving	Equivalent to speedometer reading	
DOOR STAT-DR	Driver door is locked	LOCK	H
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	I
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door is unlocked	UNLOCK	
ID OK FLAG	Steering is locked	Reset	J
	Steering is unlocked	Set	
PRMT ENG STRT	The engine start is prohibited	Reset	K
	The engine start is permitted	Set	
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset	L
KEY SW -SLOT	The key is not inserted into key slot	Off	M
	The key is inserted into key slot	On	
RKE OPE COUN1	During the operation of the key	Operation frequency of the key	
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—	
CONFIRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet	WCS
	The key ID that the key slot receives accords with any key ID registered to BCM.	Done	
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet	O
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done	P
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet	
	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done	

BCM (BODY CONTROL MODULE)

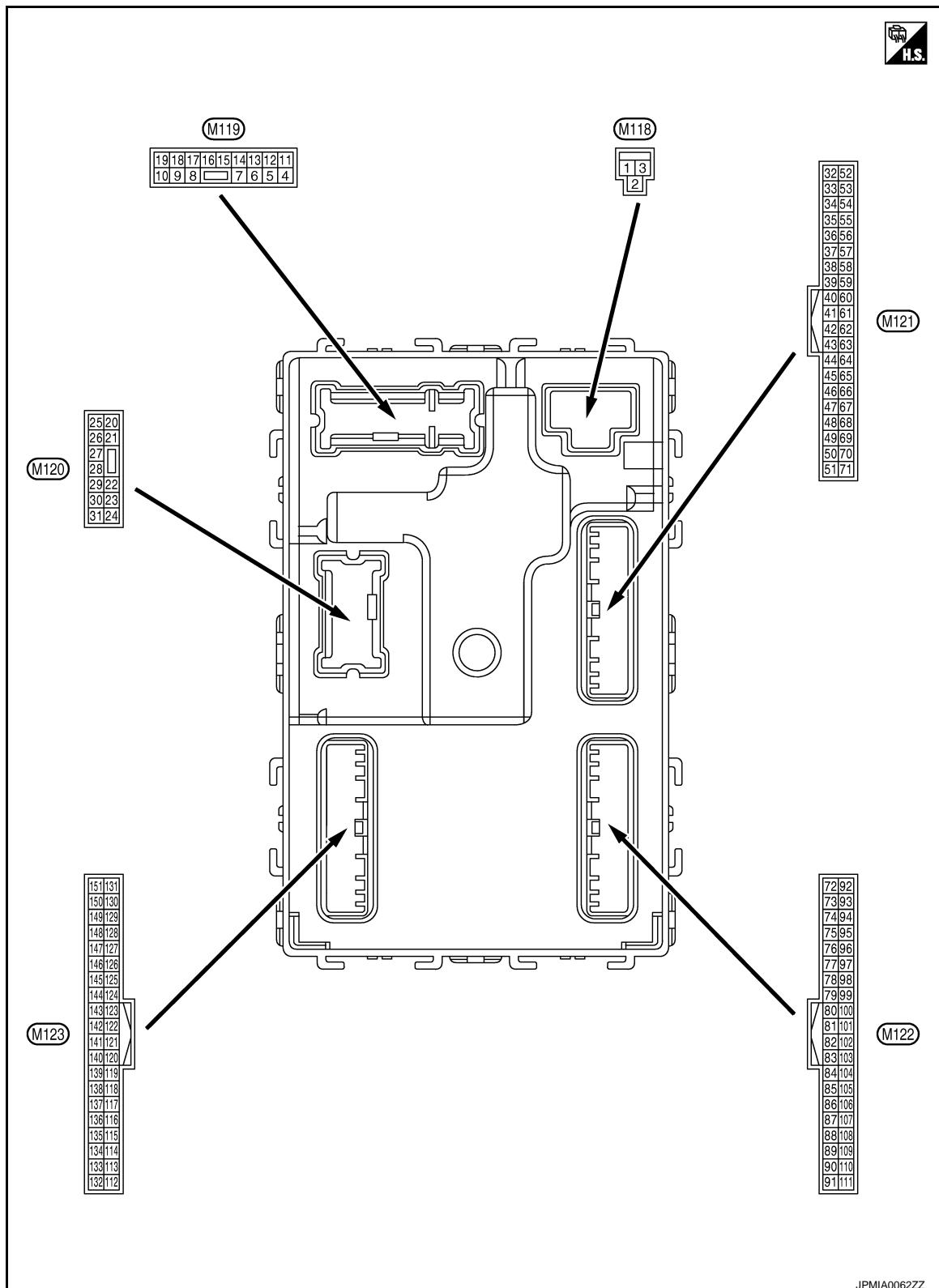
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done
TP 4	The ID of fourth key is not registered to BCM	Yet
	The ID of fourth key is registered to BCM	Done
TP 3	The ID of third key is not registered to BCM	Yet
	The ID of third key is registered to BCM	Done
TP 2	The ID of second key is not registered to BCM	Yet
	The ID of second key is registered to BCM	Done
TP 1	The ID of first key is not registered to BCM	Yet
	The ID of first 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 REGST FL1	ID of front LH tire transmitter is registered	Done
	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT

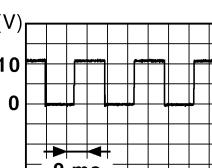


PHYSICAL VALUES

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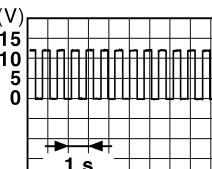
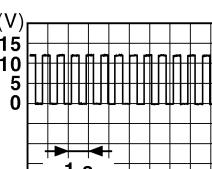
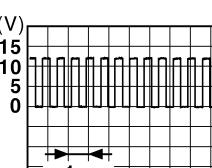
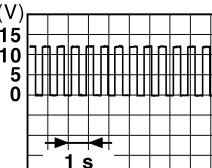
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4 (LG)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		Battery voltage
5 (L)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
7 (Y)	Ground	Step lamp	Output	Step lamp	ON	0 V
					OFF	Battery voltage
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
10 (BR)	Ground	Rear RH door and rear LH door UN- LOCK	Output	Rear RH door and rear LH door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right;">JSNIA0010GB</p>
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF or ON	Battery voltage
					ACC	0 V

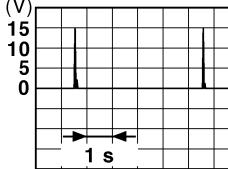
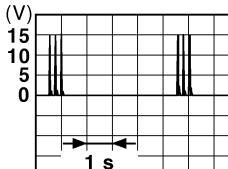
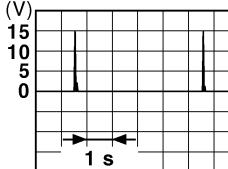
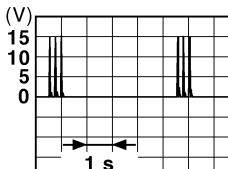
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)	A B C D E F G H I J K L M WCS O P	
	Signal name	Input/ Output				
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
23 (G)	Ground	Back door open	Output	Back door	OPEN (Back door opener actuator is activated)	Battery voltage
					Other than OPEN (Back door opener actuator is not activated)	0 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
26 (G)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
					ON (Operated)	Battery voltage

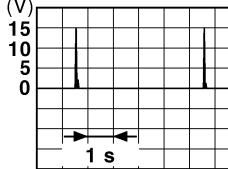
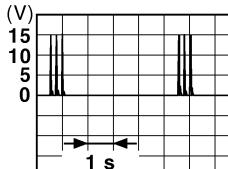
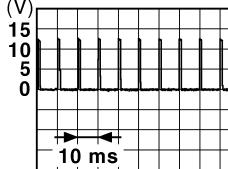
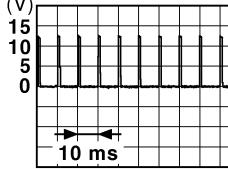
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)			
	Signal name	Input/ Output					
+	-						
34 (SB)	Ground	Luggage room antenna (-)	Output Ignition switch OFF	When Intelligent Key is in the passenger compartment			
				 (V) 15 10 5 0 JMKA0062GB			
35 (V)	Ground	Luggage room antenna (+)	Output Ignition switch OFF	When Intelligent Key is not in the passenger compartment			
				 (V) 15 10 5 0 1 s JMKA0063GB			
38 (B)	Ground	Back door antenna (-)	Output When the back door opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area			
				 (V) 15 10 5 0 1 s JMKA0062GB			
				When Intelligent Key is not in the antenna detection area			
				 (V) 15 10 5 0 1 s JMKA0063GB			

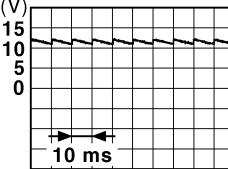
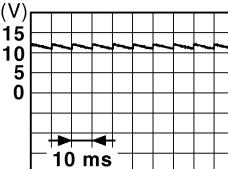
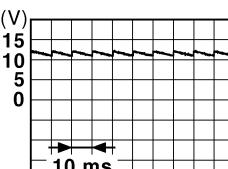
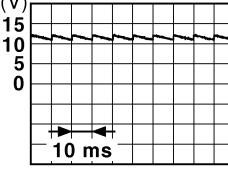
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
39 (W)	Ground	Back door antenna (+)	Output	When the back door opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
52 (SB)	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position	Battery voltage
					When selector lever is not in P or N position	0 V
61 (W)	Ground	Back door opener request switch	Input	Back door opener request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
64 (V)	Ground	Intelligent Key warning buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding	0 V
					Not sounding	Battery voltage
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	 JPMIA0016GB 1.0 V
					Not in stop position	0 V

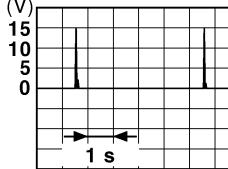
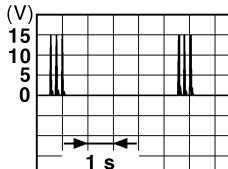
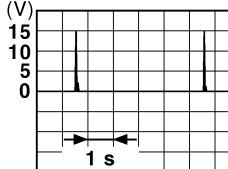
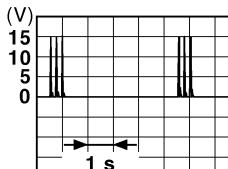
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
66 (R)	Ground	Back door switch	Input	Back door switch
				OFF (Door close)
				 JPMIA0011GB 11.8 V
				ON (Door open)
				0 V
67 (G)	Ground	Back door opener switch	Input	Back door opener switch
				Pressed
				 JPMIA0011GB 11.8 V
				Not pressed
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch
				OFF (Door close)
				 JPMIA0011GB 11.8 V
				ON (Door open)
				0 V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch
				OFF (Door close)
				 JPMIA0011GB 11.8 V
				ON (Door open)
				0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

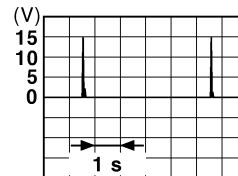
Terminal No. (Wire color)	Description		Condition	Value (Approx.)	
	+	-			
72 (R)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment
					 (V) 15 10 5 0 JMKA0062GB
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compart- ment
					 (V) 15 10 5 0 JMKA0063GB
74 (SB)	Ground	Passenger door an- tenna (-)	Output	When the pas- senger door re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area
					 (V) 15 10 5 0 JMKA0062GB
					When Intelligent Key is not in the antenna detection area
					 (V) 15 10 5 0 JMKA0063GB

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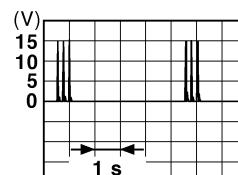
BCM (BODY CONTROL MODULE)

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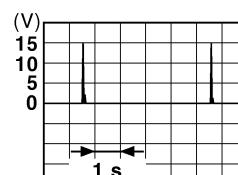
Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
75 (GR)	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF
				When Intelligent Key is not in the antenna detection area
76 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operated with ignition switch OFF
				When Intelligent Key is not in the antenna detection area
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch OFF
				When Intelligent Key is not in the antenna detection area



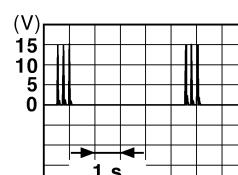
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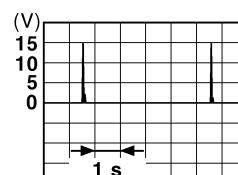
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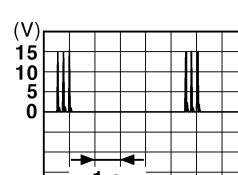
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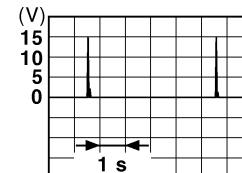


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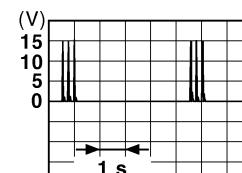
BCM (BODY CONTROL MODULE)

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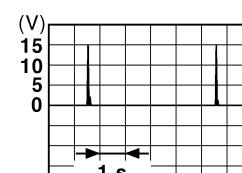
Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output Ignition switch OFF	When Intelligent Key is in the passenger compart- ment
				When Intelligent Key is not in the passenger compart- ment
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output Ignition switch OFF	When Intelligent Key is in the passenger compart- ment
				When Intelligent Key is not in the passenger compart- ment
80 (GR)	Ground	NATS antenna amp (Built in key slot)	Input/ Output During waiting	Ignition switch is pressed while inserting the key into the key slot. Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp (Built in key slot)	Input/ Output During waiting	Ignition switch is pressed while inserting the 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 ON
				0 V Battery voltage



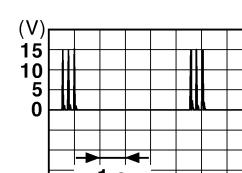
JMKIA0062GB



JMKIA0063GB



JMKIA0062GB



JMKIA0063GB

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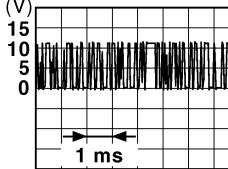
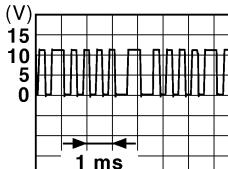
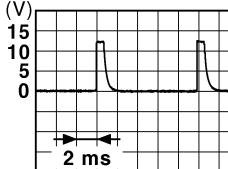
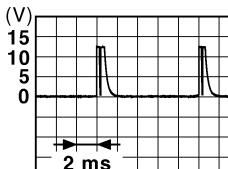
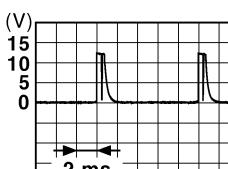
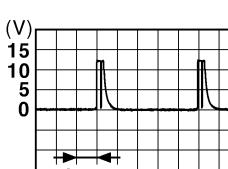
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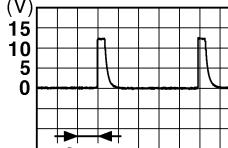
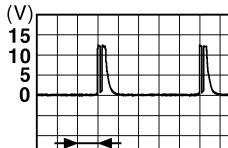
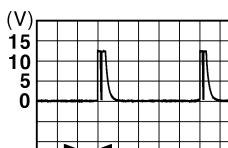
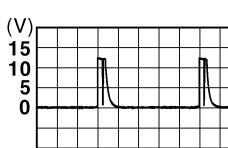
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
83 (Y)	Ground	Remote keyless entry receiver communication	Input/ Output	<p>During waiting</p>  <p>JMKIA0064GB</p>
				<p>When operating either button on the key</p>  <p>JMKIA0065GB</p>
87 (BR)	Ground	Combination switch INPUT 5	Input	<p>All switches OFF (Wiper intermittent dial 4)</p>  <p>JPMIA0041GB 1.4 V</p>
				<p>Front fog lamp switch ON (Wiper intermittent dial 4)</p>  <p>JPMIA0037GB 1.3 V</p>
				<p>Rear wiper switch ON (Wiper intermittent dial 4)</p>  <p>JPMIA0039GB 1.3 V</p>
				<p>Any of the conditions below with all switches OFF</p> <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7  <p>JPMIA0040GB 1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)	
	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
				Lighting switch HI (Wiper intermittent dial 4)	 JPMIA0036GB 1.3 V
				Lighting switch 2ND (Wiper intermittent dial 4)	 JPMIA0037GB 1.3 V
				Rear washer switch ON (Wiper intermittent dial 4)	 JPMIA0039GB 1.3 V
				Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 	 JPMIA0040GB 1.3 V
89 (BR)	Ground	Push-button ignition switch (Push switch)	Input	Push-button igni-tion switch (push switch)	0 V
				Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output	—	—
91 (L)	Ground	CAN-H	Input/ Output	—	—

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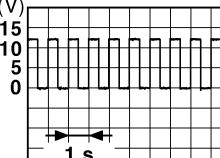
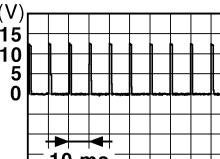
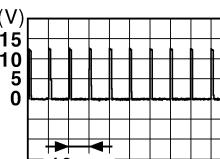
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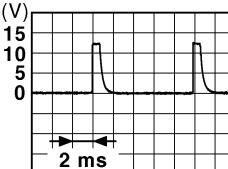
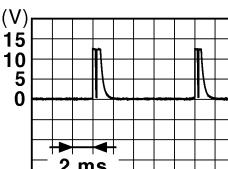
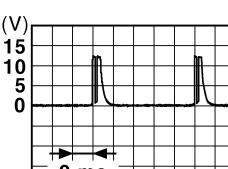
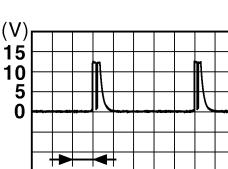
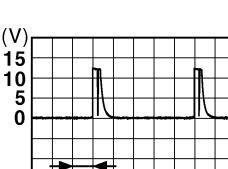
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
92 (LG)	Ground	Key slot illumination	Output	Key slot illumination	OFF	0 V
					Blinking	 (V) 15 10 5 0 1 s
					ON	6.5 V JPMIA0015GB
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
94 (Y)	Ground	Puddle lamp control	Output	Puddle lamp	OFF	Battery voltage
					ON	0 V
95 (O)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	—		Battery voltage
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	Battery voltage
98 (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	Battery voltage
					UNLOCK status	0 V
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
					Any position other than P	Battery voltage
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 (V) 15 10 5 0 10 ms
						1.0 V JPMIA0016GB
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 (V) 15 10 5 0 10 ms
						1.0 V JPMIA0016GB
102 (O)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage

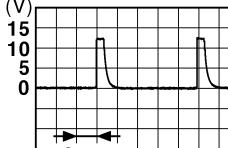
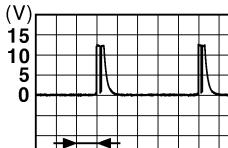
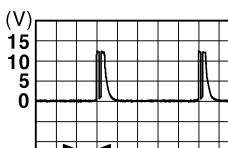
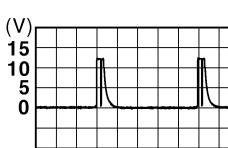
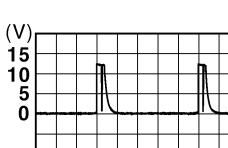
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)	A B C D E F G H I J K L M WCS O P	
	+	-				
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF	Battery voltage	A B C
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch OFF or ACC	Battery voltage	D E
107 (LG)	Ground	Combination switch INPUT 1	Input	All switches OFF	 1.4 V <small>JPMIA0041GB</small>	F G H
				Turn signal switch LH	 1.3 V <small>JPMIA0037GB</small>	I J K
				Turn signal switch RH	 1.3 V <small>JPMIA0036GB</small>	L M
				Front wiper switch LO	 1.3 V <small>JPMIA0038GB</small>	O P
				Front washer switch ON	 1.3 V <small>JPMIA0039GB</small>	WCS

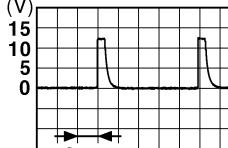
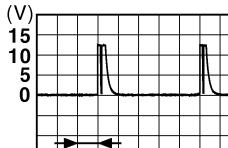
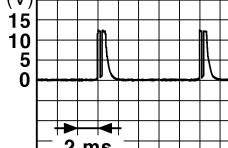
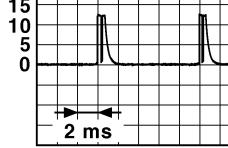
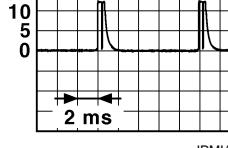
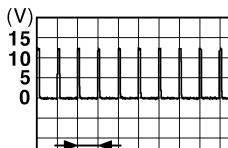
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
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108 (R)	Ground	Combination switch INPUT 4	Input	 All switches OFF (Wiper intermittent dial 4)  Lighting switch AUTO (Wiper intermittent dial 4)  Lighting switch 1ST (Wiper intermittent dial 4)  Rear wiper switch INT (Wiper intermittent dial 4)  Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6
				JPMIA0041GB 1.4 V
				JPMIA0038GB 1.3 V
				JPMIA0036GB 1.3 V
				JPMIA0040GB 1.3 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)		
	Signal name	Input/ Output				
109 (Y)	Ground	Combination switch INPUT 2	Input Combination switch (Wiper intermittent dial 4)	All switches OFF	 JPMIA0041GB 1.4 V	A
				Lighting switch PASS	 JPMIA0037GB 1.3 V	B
				Lighting switch 2ND	 JPMIA0036GB 1.3 V	C
				Front wiper switch INT	 JPMIA0038GB 1.3 V	D
				Front wiper switch HI	 JPMIA0040GB 1.3 V	E
110 (G)	Ground	Hazard switch	Input Hazard switch	ON	0 V	F
				OFF	 JPMIA0012GB 1.1 V	G

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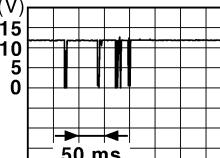
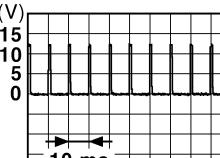
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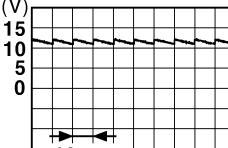
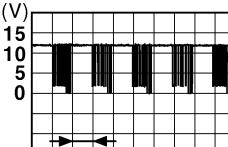
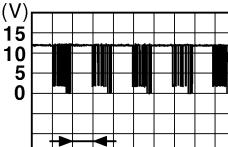
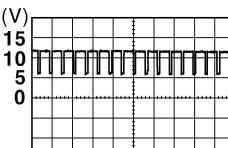
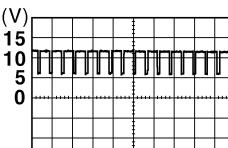
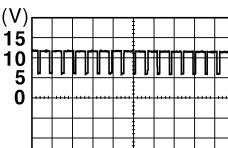
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)	
+	-	Signal name	Input/ Output				
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	Battery voltage	
					LOCK or UNLOCK	 (V) 15 10 5 0 50 ms	
					For 15 seconds after UN-LOCK	Battery voltage	
					15 seconds or later after UNLOCK	0 V	
113 (P)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V	
					When dark outside of the vehicle	Close to 0 V	
116 (SB)	Ground	Stop lamp switch 1	Input	—		Battery voltage	
118 (P)	Ground	Stop lamp switch 2 (Without ICC)	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V	
					ON (Brake pedal is depressed)	Battery voltage	
		Stop lamp switch 2 (With ICC)		Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF		0 V	
				Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON		Battery voltage	
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 (V) 15 10 5 0 10 ms	
					UNLOCK status (Unlock switch sensor ON)	1.1 V 0 V	
121 (BR)	Ground	Key slot switch	Input	When the key is inserted into key slot		Battery voltage	
				When the key is not inserted into key slot		0 V	
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V	
					ON	Battery voltage	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	+	-		
124 (LG)	Ground	Passenger door switch	Input	 OFF (Door close)  ON (Door open)
132 (V)	Ground	Power window switch communication	Input/ Output	 Ignition switch ON
133 (W)	Ground	Push-button ignition switch illumination	Output	 ON (Tail lamps OFF)
134 (GR)	Ground	LOCK indicator lamp	Output	 OFF ON
137 (O)	Ground	Receiver and sensor ground	Input	Ignition switch ON
138 (Y)	Ground	Receiver and sensor power supply	Output	 OFF ACC or ON

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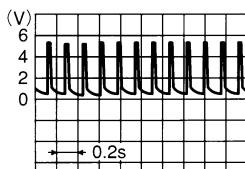
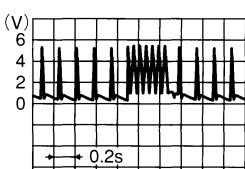
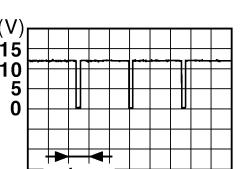
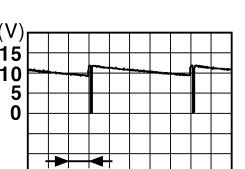
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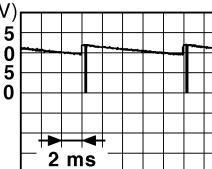
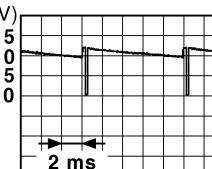
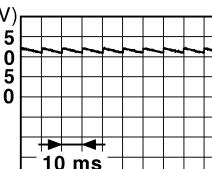
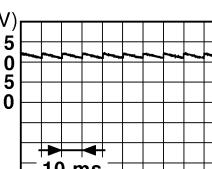
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	Standby state	 OCC3881D
					When receiving the signal from the transmitter	 OCC3880D
140 (GR)	Ground	Selector lever P/N position	Input	Selector lever	P or N position	Battery voltage
					Except P and N positions	0 V
141 (G)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 JPMIA0014GB 11.3 V
					OFF	Battery voltage
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Lighting switch 1ST	
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	 JPMIA0031GB 10.7 V
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
					Rear wiper switch INT (Wiper intermittent dial 4)	
					Any of the conditions below with all switches OFF	
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	 JPMIA0032GB 10.7 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

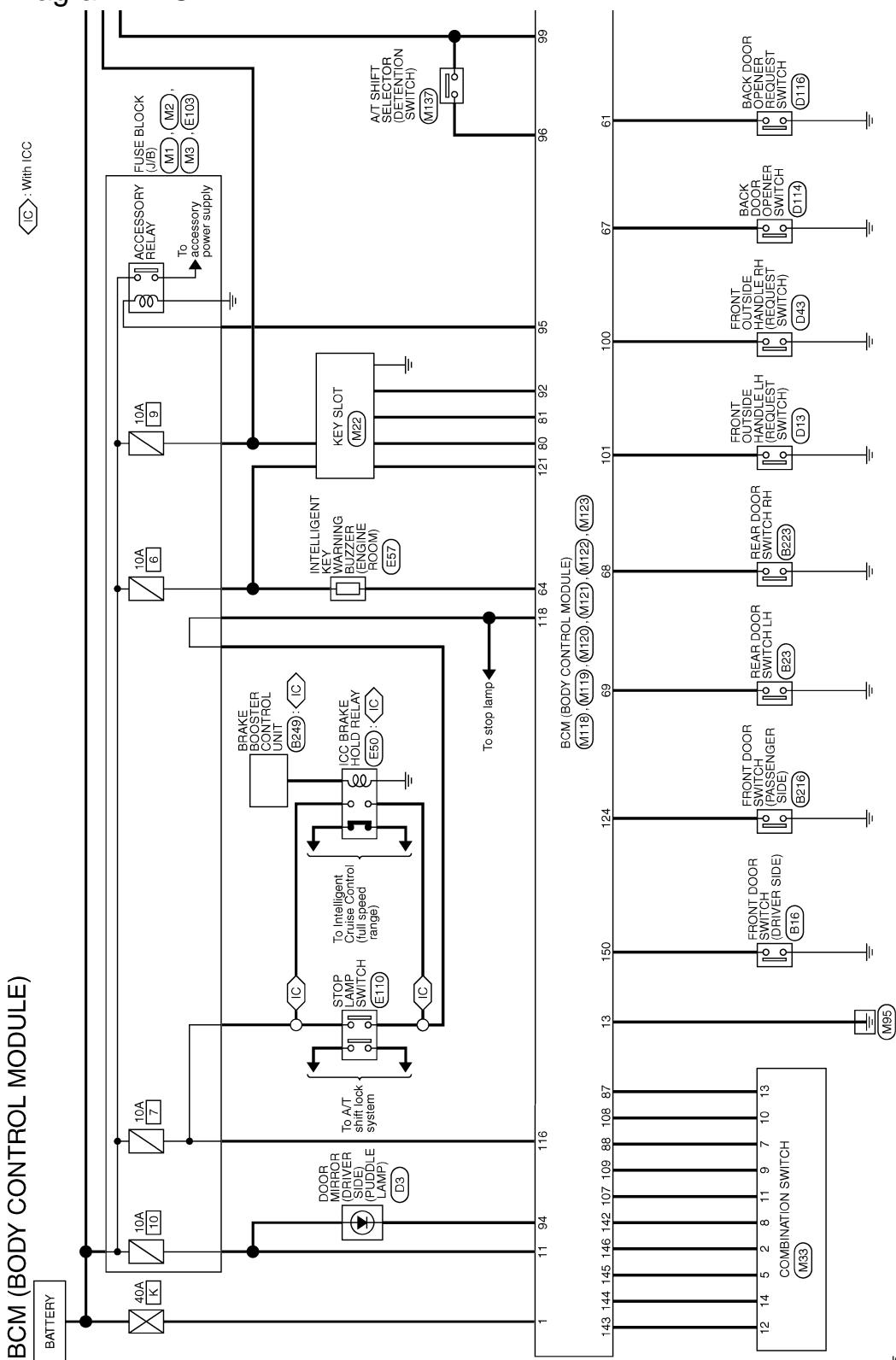
Terminal No. (Wire color)		Description		Condition		Value (Approx.)	
+	-	Signal name	Input/ Output				
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V	
					Front washer switch ON (Wiper intermittent dial 4)	(V)  JPMIA0033GB	
					Rear wiper switch ON (Wiper intermittent dial 4)		
					Rear 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	10.7 V	
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V	
					Front wiper switch INT	(V)  JPMIA0034GB	
					Front wiper switch LO		
					Lighting switch AUTO		
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V	
					Front fog lamp switch ON	(V)  JPMIA0035GB	
					Lighting switch 2ND		
					Lighting switch PASS		
					Turn signal switch LH	10.7 V	
149 (W)	Ground	Tire pressure warning check switch	Input	Ignition switch ON	(V)  JPMIA0011GB	11.8 V	
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V)  JPMIA0011GB	11.8 V
					ON (Door open)		
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active	0 V	
					Not activated	Battery voltage	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

INFOID:0000000004684394

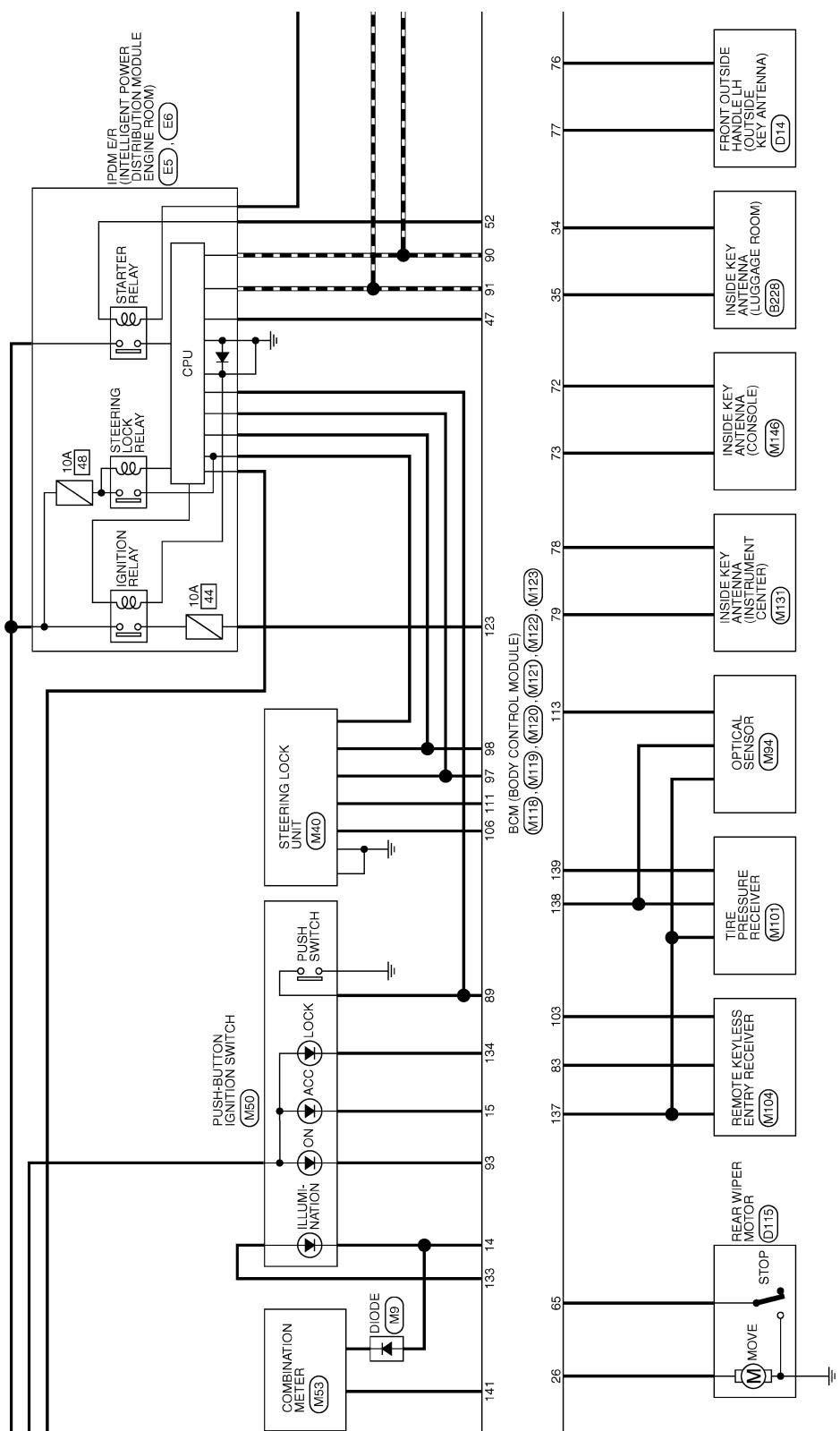


2008/08/28

JCMWA3119GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



* : This connector is not shown in "Harness Layout".

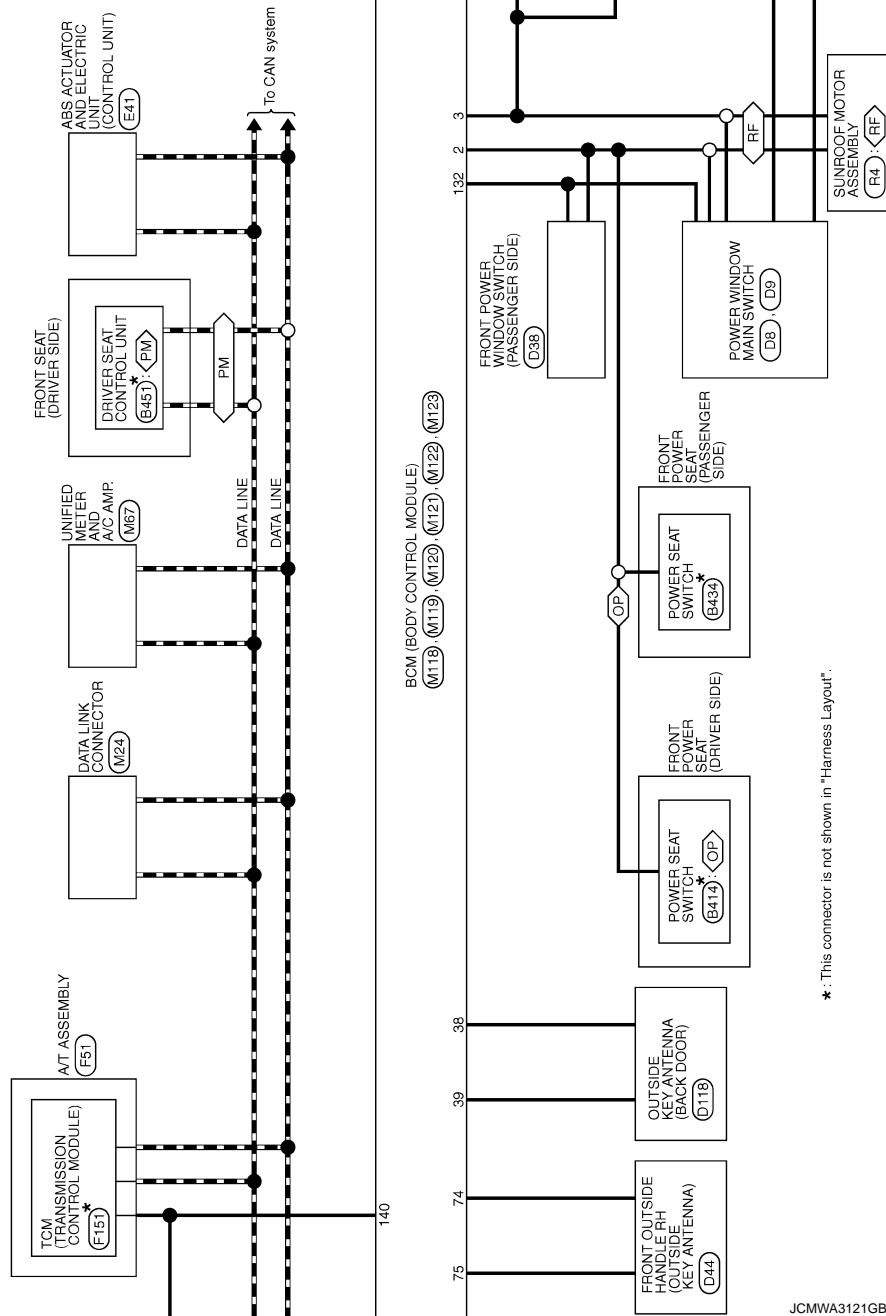
JCMWA3120GB

WCS

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

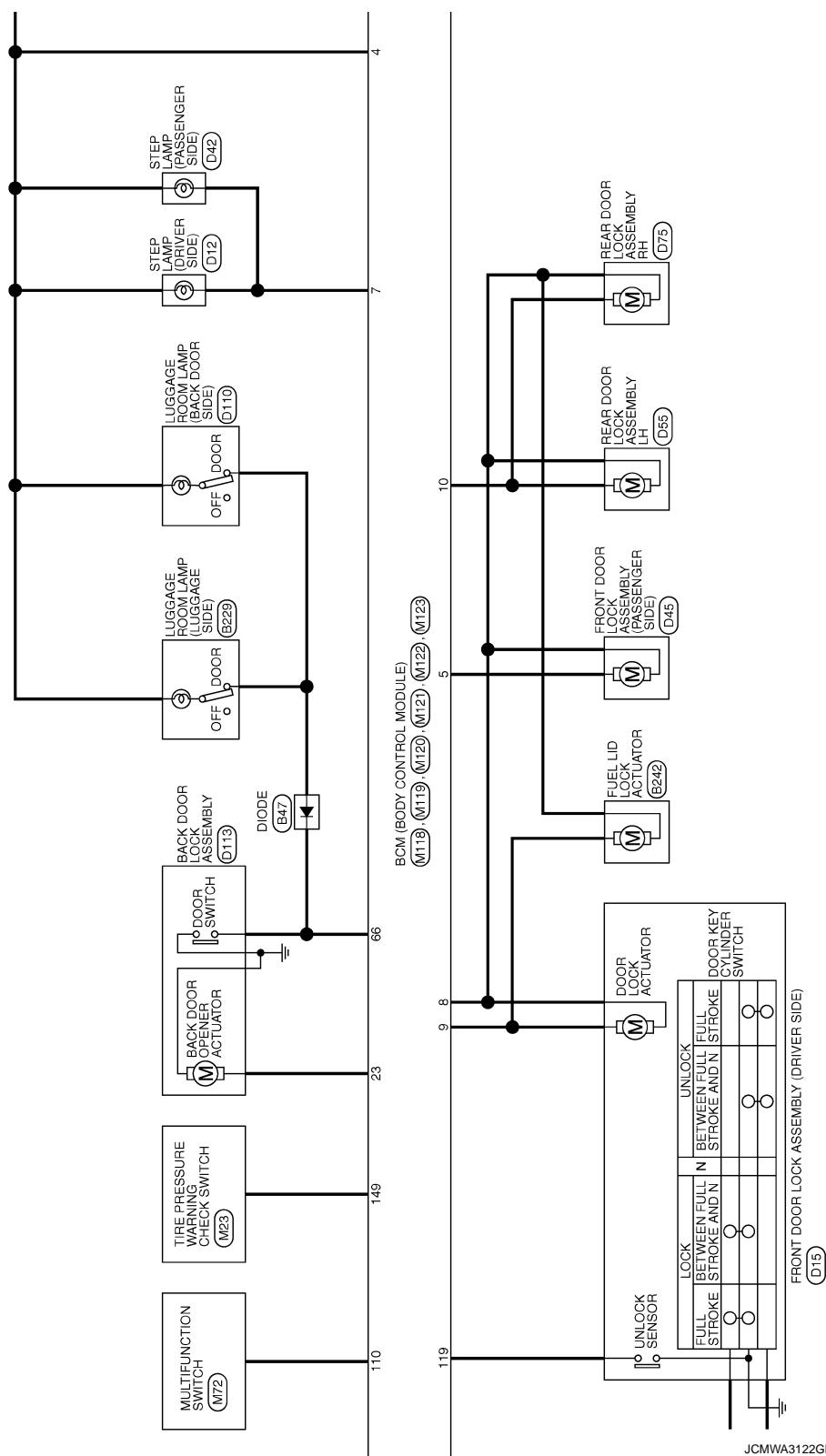
- ⟨RF⟩ With sunroof
- ⟨PM⟩ With automatic drive positioner
- ⟨OP⟩ Without automatic drive positioner



JCMWA3121GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

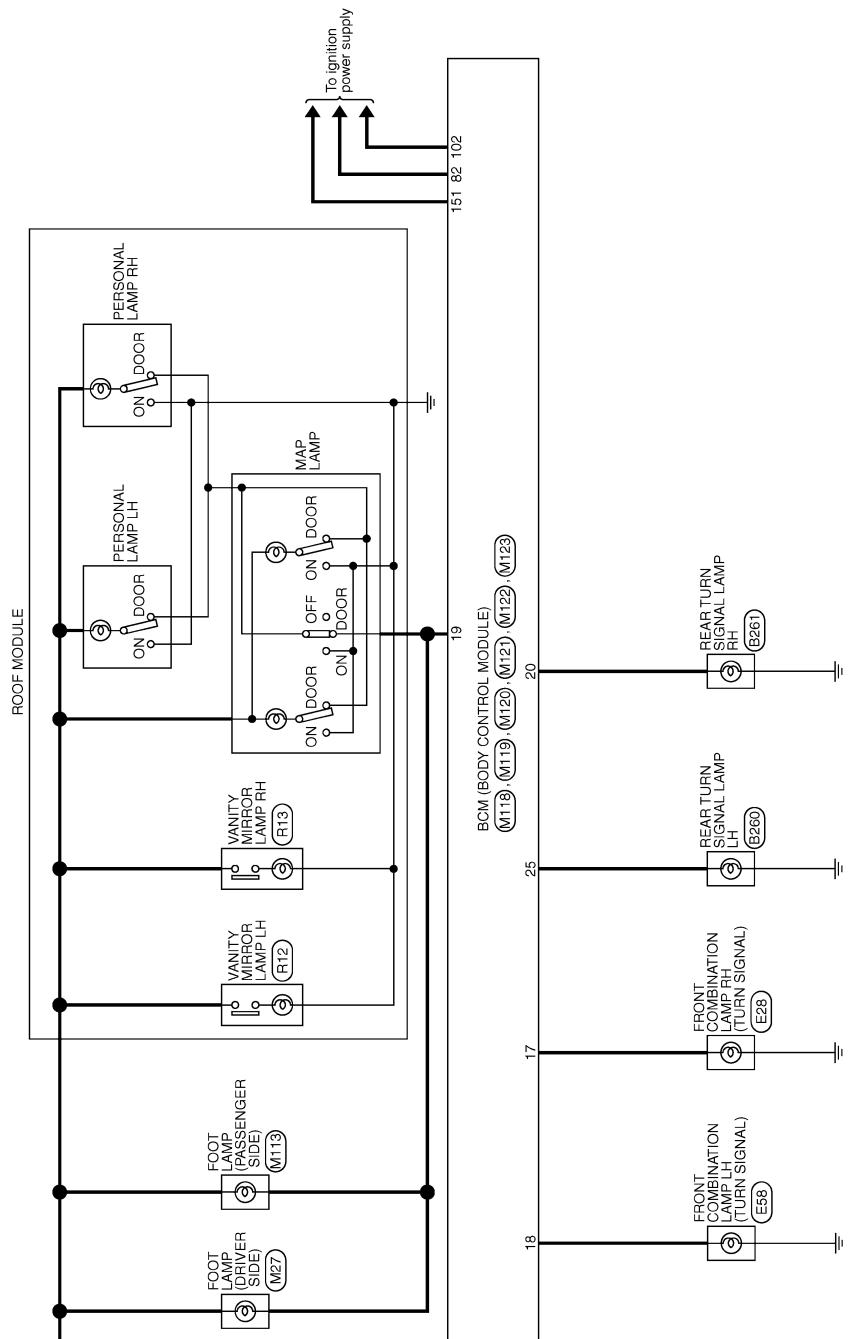


JCMWA3122GB

WCS

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JCMWA3123GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MOSFB-LC



Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	OUTPUT 4
5	L	OUTPUT 3
7	Y	INPUT 3
8	O	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)	4	LG	INTERIOR ROOM LAMP POWER SUPPLY
2	Y	POWER WINDOW POWER SUPPLY(BAT)	5	L	PASSANGER DOOR UNLOCK OUTPUT
3	O	POWER WINDOW POWER SUPPLY(RAP)	7	Y	STEP LAMP OUTPUT
8			8	V	ALL DOOR FUEL ID LOCK OUTPUT
9			9	G	DRIVER DOOR FUEL ID UNLOCK OUTPUT
10			10	BR	REAR DOOR UNLOCK OUTPUT
11			11	R	BAT (FUSE)
12			13	B	GND
13			14	W	PUSH-BUTTON IGNITION SWILL GND
14			15	Y	ACCO IND
15			17	W	TURN SIGNAL RH (FRONT)

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)	4	LG	INTERIOR ROOM LAMP POWER SUPPLY
2	Y	POWER WINDOW POWER SUPPLY(BAT)	5	L	PASSANGER DOOR UNLOCK OUTPUT
3	O	POWER WINDOW POWER SUPPLY(RAP)	7	Y	STEP LAMP OUTPUT
8			8	V	ALL DOOR FUEL ID LOCK OUTPUT
9			9	G	DRIVER DOOR FUEL ID UNLOCK OUTPUT
10			10	BR	REAR DOOR UNLOCK OUTPUT
11			11	R	BAT (FUSE)
12			13	B	GND
13			14	W	PUSH-BUTTON IGNITION SWILL GND
14			15	Y	ACCO IND
15			17	W	TURN SIGNAL RH (FRONT)

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
20	W	TURN SIGNAL RH (REAR)	21	SB	LUGGAGE ROOM ANT-
23	V	BACK DOOR OPEN OUTPUT	22	Y	LUGGAGE ROOM ANT-
25	G	TURN SIGNAL LH (REAR)	23	B	BACK DOOR ANT-
26	G	REAR WIPER OUTPUT	24	W	BACK DOOR ANT-
			39		IGN RELAY (IPDM E/R) CONT
			47	Y	STARTER RELAY CONT
			52	SB	BACK DOOR OPENER REQUEST SW
			61	W	I-KEY WARM BUZZER (ENG ROOM)
			64	V	REAR WIPER STOP POSITION
			65	O	BACK DOOR OPENER SW
			66	R	
			67	GR	

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
20	W	TURN SIGNAL RH (REAR)	21	SB	LUGGAGE ROOM ANT-
23	V	BACK DOOR OPEN OUTPUT	22	Y	LUGGAGE ROOM ANT-
25	G	TURN SIGNAL LH (REAR)	23	B	BACK DOOR ANT-
26	G	REAR WIPER OUTPUT	24	W	BACK DOOR ANT-
			39		IGN RELAY (IPDM E/R) CONT
			47	Y	STARTER RELAY CONT
			52	SB	BACK DOOR OPENER REQUEST SW
			61	W	I-KEY WARM BUZZER (ENG ROOM)
			64	V	REAR WIPER STOP POSITION
			65	O	BACK DOOR OPENER SW
			66	R	
			67	GR	

JCMWA3124GB



A B C D M T G I K P

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)		BCM (BODY CONTROL MODULE)			
Connector No.	Terminal No.	Signal Name [Specification]	Terminal No.		
MI122	83	KEYLESS ENTRY RECEIVER COMM	138	Y	RECEIVER/SENSOR POWER SUPPLY
BCM(BODY CONTROL MODULE)	87	COMBI SW INPUT 5	139	L	TIRE PRESSURE RECEIVER COMM
Connector Name	88	COMBI SW INPUT 3	140	GR	SHIFT N/P
Connector Type	89	PUSH SW	141	G	SECURITY INDICATOR OUTPUT
TH40F-E-NH	90	CAN-L	142	O	COMBI SW OUTPUT 5
	91	CAN-H	143	P	COMBI SW OUTPUT 1
	92	KEY SLOT TILT	144	G	COMBI SW OUTPUT 2
	93	ON/IND	145	L	COMBI SW OUTPUT 3
	94	Y	146	SB	COMBI SW OUTPUT 4
	95	O	149	W	TIRE PRESS. WARNING CHECK SW
	96	GR	150	LG	DRIVER DOOR SW
	97	L	151	G	REAR WINDOW DEFOGGER RELAY CONT
	98	S/L CONDITION 1			
	99	S/L CONDITION 2			
	100	SHIFT P			
	101	PASSENGER DOOR REQUEST SW	113	P	OPTICAL SENSOR
	102	DRIVER DOOR REQUEST SW	116	SB	STOP LAMP SW 1
	103	BLOWER FAN MOTOR RELAY CONT	118	P	STOP LAMP SW 2
	104	KETLESS ENTRY RECEIVER POWER SUPPLY	119	SB	DR DOOR UNLOCK SENSOR
	105	DRIVER DOOR ANT-	121	BR	KEY SLOTT SW
	106	DRIVER DOOR ANT-	123	W	IGN F/B
	107	DRIVER DOOR ANT-	124	LG	PASSENGER DOOR SW
	108	ROOM ANTI-	132	V	POWER WINDOW SW COMM
	109	ROOM ANTI+	133	W	PUSH BUTTON IGNITION SW/TLL POWER
	110	IMMOB ANTENNA CONTROL	134	GR	LOCK IND
	111	IMMOB ANTENNA SIGNAL	137	O	RECEIVER/SENSOR GRID
	112	IGN RELAY (F/B) CONT			
	113	ROOM ANTI-			
	114	ROOM ANTI+			
	115	IMMOB ANTENNA SIGNAL			
	116	IGN RELAY (F/B) CONT			

JCMWA3125GB

INFOID:0000000004684395

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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 <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> • Ignition switch is in the ON position • Power position: IGN • Selector lever P/N position signal: Except P and N positions (0 V) • Interlock/PNP switch signal (CAN): OFF • Status 2 <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

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BCM (BODY CONTROL MODULE)

< 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 becomes consistent <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When the following steering lock conditions agree <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When any of the following conditions are fulfilled <ul style="list-style-type: none"> • 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
B26E9: S/L STATUS	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

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

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

NOTE:

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

REAR WIPER MOTOR PROTECTION

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

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

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stops.
2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:000000004684396

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
1	B2562: LOW VOLTAGE	A
2	<ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN) 	B
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING 	C
	<ul style="list-style-type: none"> • B2013: ID DISCORD BCM-S/L • B2014: CHAIN OF S/L-BCM • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-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 • 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 • B26E9: S/L STATUS • B26EA: KEY REGISTRATION • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG 	D
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BCM (BODY CONTROL MODULE)

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Priority	DTC
5	<ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1734: CONTROL UNIT
6	<ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA

DTC Index

INFOID:000000004684397

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 [WCS-17. "COMMON 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 warning lamp ON	Reference page
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM CIRCUIT	—	—	—	—	BCS-37
U1010: CONTROL UNIT (CAN)	—	—	—	—	BCS-38
U0415: VEHICLE SPEED SIG	—	—	—	—	BCS-39
B2013: ID DISCORD BCM-S/L	×	×	—	—	SEC-48
B2014: CHAIN OF S/L-BCM	×	×	—	—	SEC-49
B2190: NATS ANTENNA AMP	×	—	—	—	SEC-41
B2191: DIFFERENCE OF KEY	×	—	—	—	SEC-44
B2192: ID DISCORD BCM-ECM	×	—	—	—	SEC-45
B2193: CHAIN OF BCM-ECM	×	—	—	—	SEC-46
B2195: ANTI SCANNING	×	—	—	—	SEC-47
B2553: IGNITION RELAY	—	×	—	—	PCS-49

BCM (BODY CONTROL MODULE)

< 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 warning lamp ON	Reference page
B2555: STOP LAMP	—	×	—	—	SEC-52
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-54
B2557: VEHICLE SPEED	×	×	×	—	SEC-56
B2560: STARTER CONT RELAY	×	×	×	—	SEC-57
B2562: LOW VOLTAGE	—	×	—	—	BCS-40
B2601: SHIFT POSITION	×	×	×	—	SEC-58
B2602: SHIFT POSITION	×	×	×	—	SEC-61
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-63
B2604: PNP SW	×	×	×	—	SEC-66
B2605: PNP SW	×	×	×	—	SEC-68
B2606: S/L RELAY	×	×	×	—	SEC-70
B2607: S/L RELAY	×	×	×	—	SEC-71
B2608: STARTER RELAY	×	×	×	—	SEC-73
B2609: S/L STATUS	×	×	×	—	SEC-75
B260A: IGNITION RELAY	×	×	×	—	PCS-51
B260B: STEERING LOCK UNIT	—	×	×	—	SEC-79
B260C: STEERING LOCK UNIT	—	×	×	—	SEC-80
B260D: STEERING LOCK UNIT	—	×	×	—	SEC-81
B260F: ENG STATE SIG LOST	×	×	×	—	SEC-82
B2612: S/L STATUS	×	×	×	—	SEC-86
B2614: ACC RELAY CIRC	—	×	×	—	PCS-53
B2615: BLOWER RELAY CIRC	—	×	×	—	PCS-56
B2616: IGN RELAY CIRC	—	×	×	—	PCS-59
B2617: STARTER RELAY CIRC	×	×	×	—	SEC-90
B2618: BCM	×	×	×	—	PCS-62
B2619: BCM	×	×	×	—	SEC-92
B261A: PUSH-BTN IGN SW	—	×	×	—	SEC-93
B261E: VEHICLE TYPE	×	×	×	(Turn ON for 15 seconds)	SEC-96
B2621: INSIDE ANTENNA	—	×	—	—	DLK-59
B2622: INSIDE ANTENNA	—	×	—	—	DLK-61
B2623: INSIDE ANTENNA	—	×	—	—	DLK-63
B26E1: ENG STATE NO RES	×	×	×	—	SEC-83
B26E9: S/L STATUS	×	×	×	(Turn ON for 15 seconds)	SEC-84
B26EA: KEY REGISTRATION	—	×	×	(Turn ON for 15 seconds)	SEC-85
C1704: LOW PRESSURE FL	—	—	—	×	WT-17
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	

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BCM (BODY CONTROL MODULE)

< 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 warning lamp ON	Reference page
C1708: [NO DATA] FL	—	—	—	×	WT-19
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	
C1712: [CHECKSUM ERR] FL	—	—	—	×	WT-22
C1713: [CHECKSUM ERR] FR	—	—	—	×	
C1714: [CHECKSUM ERR] RR	—	—	—	×	
C1715: [CHECKSUM ERR] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-25
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1720: [CODE ERR] FL	—	—	—	×	WT-27
C1721: [CODE ERR] FR	—	—	—	×	
C1722: [CODE ERR] RR	—	—	—	×	
C1723: [CODE ERR] RL	—	—	—	×	
C1724: [BATT VOLT LOW] FL	—	—	—	×	WT-30
C1725: [BATT VOLT LOW] FR	—	—	—	×	
C1726: [BATT VOLT LOW] RR	—	—	—	×	
C1727: [BATT VOLT LOW] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-33
C1734: CONTROL UNIT	—	—	—	×	WT-34

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

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

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

Description

INFOID:000000004348755

- The parking brake warning buzzer sounds continuously during vehicle travel 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 is applied.

Diagnosis Procedure

INFOID:000000004348756

1.CHECK PARKING BRAKE WARNING LAMP

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

Parking brake is applied : ON
Parking brake is released : OFF

Is the inspection result normal?

YES >> Replace combination meter.
NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Perform a check for the parking brake switch signal circuit. Refer to [MWI-64, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair harness or connector.

3.CHECK PARKING BRAKE SWITCH UNIT

Perform a unit check for the parking brake switch. Refer to [BRC-78, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace combination meter.
NO >> Replace parking brake switch. Refer to [PB-5, "Removal and Installation"](#).

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THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description

INFOID:0000000004348757

Light reminder warning chime does not sound even though headlamp is illuminated.

Diagnosis Procedure

INFOID:0000000004348758

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-183, "Diagnosis Procedure"](#).

2.CHECK FRONT DOOR SWITCH (DRIVER SIDE) SIGNAL CIRCUIT

Perform the check for the front door switch (driver side) signal circuit. Refer to [DLK-66, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-85, "Removal and Installation"](#).

NO >> Repair or replace malfunctioning parts.

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

INFOID:000000004348759

- Seat belt warning does not sound even though driver seat belt is not fastened.
- Seat belt warning sounds even though driver seat belt is fastened.

Diagnosis Procedure

INFOID:000000004348760

1. CHECK SEAT BELT WARNING LAMP

1. Turn ignition switch ON.
2. Check the operation of the seat belt warning lamp in the combination meter.

Seat belt fastened	: OFF
Seat belt not fastened	: ON

Is the inspection result normal?

- YES >> GO TO 2.
NO >> GO TO 4.

2. CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL

Check the buckle switch input signal with the "Data Monitor". Refer to [WCS-24, "Component Function Check"](#).

Is the inspection result normal?

- YES >> Replace unified meter and A/C amp.
NO >> GO TO 3.

3. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

Perform the check for the seat belt buckle switch circuit. Refer to [WCS-24, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> Replace unified meter and A/C amp.
NO >> Repair harness or connector.

4. CHECK SEAT BELT BUCKLE SWITCH UNIT

Perform a unit check for the seat belt buckle switch. Refer to [WCS-25, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace combination meter.
NO >> Replace seat belt buckle. Refer to [SB-8, "SEAT BELT BUCKLE : Removal and Installation"](#).

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:0000000004684398

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

WARNING:

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

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

WARNING:

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