

SECTION **WCS**

WARNING CHIME SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

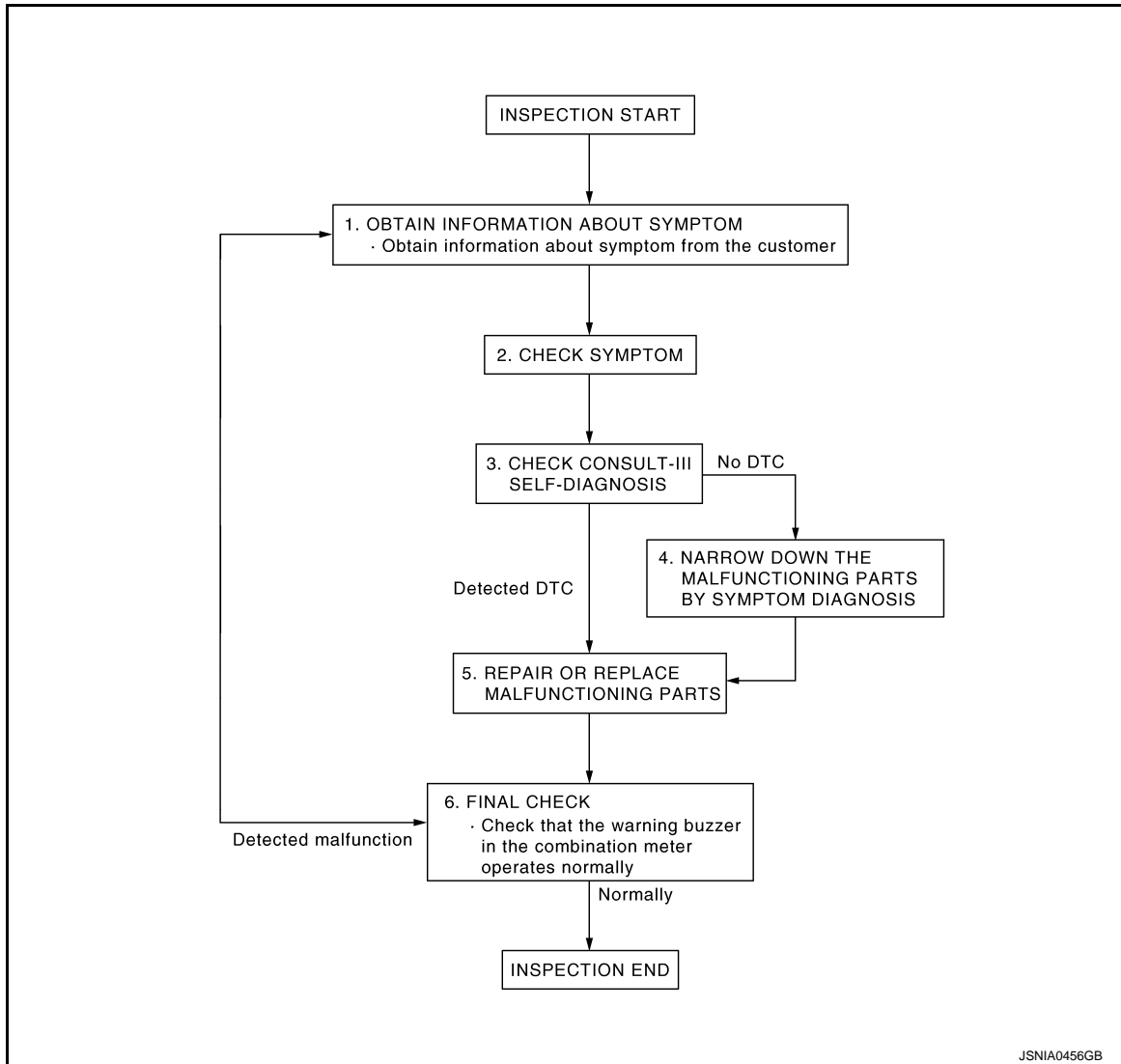
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003887252

OVERALL SEQUENCE



DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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 [WCS-13, "CONSULT-III Function \(METER/M&A\)"](#).

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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 >

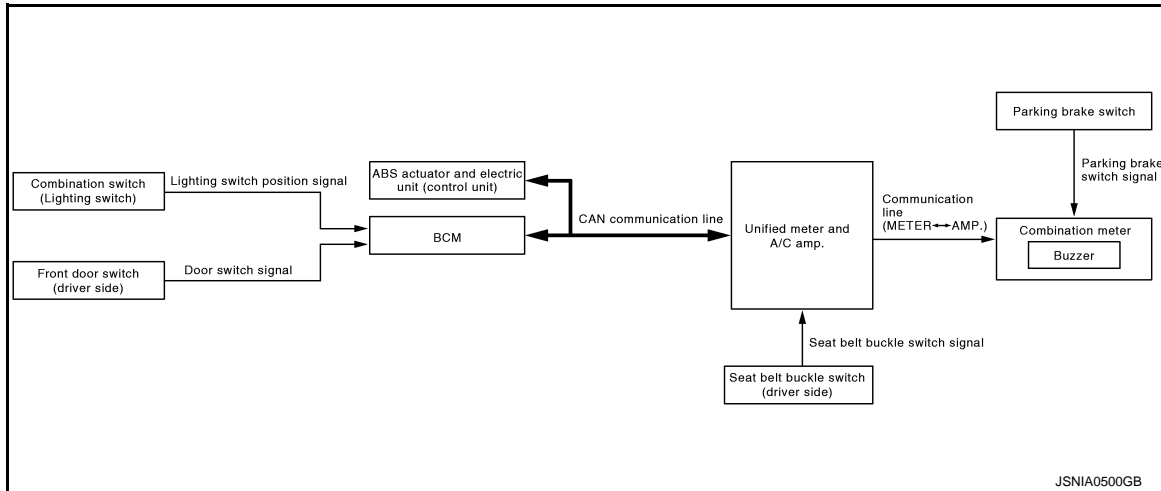
SYSTEM DESCRIPTION

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM : System Diagram

INFOID:000000003887253

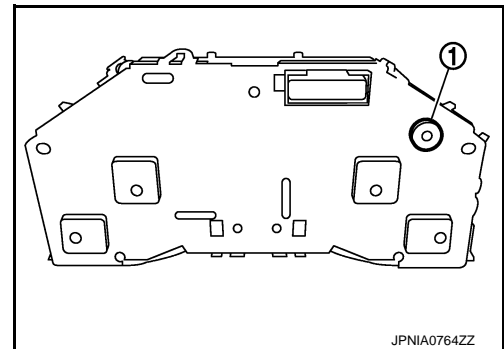


WARNING CHIME SYSTEM : System Description

INFOID:000000003887254

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 signal • Door switch signal
Seat belt warning chime	Seat belt buckle switch signal

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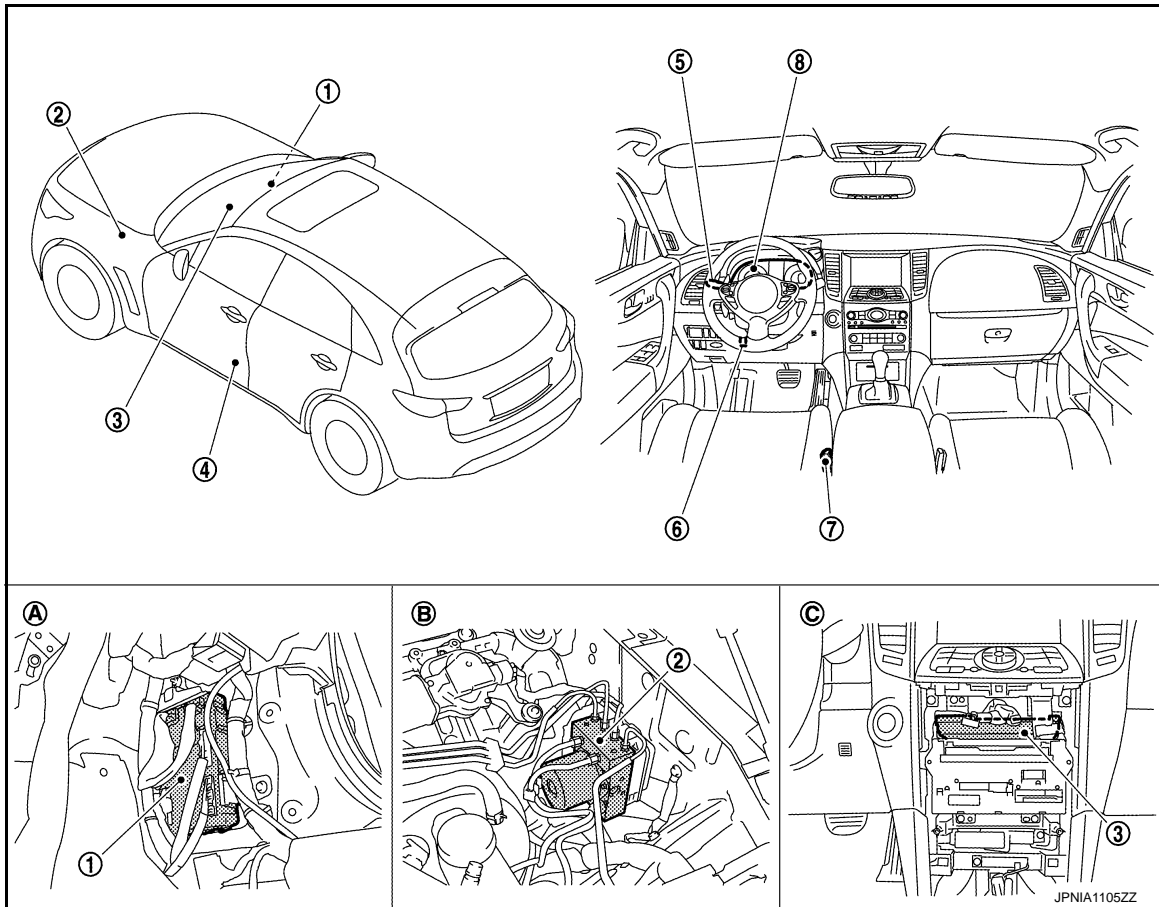
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

WARNING CHIME SYSTEM : Component Parts Location

INFOID:000000003887255



- | | | |
|--|--|-------------------------------|
| 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 | |
| A. Dash side lower (passenger side) | B. Hoodledge cover (LH) | C. Behind cluster lid C |

WARNING CHIME SYSTEM : Component Description

INFOID:000000003887256

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 and switches 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

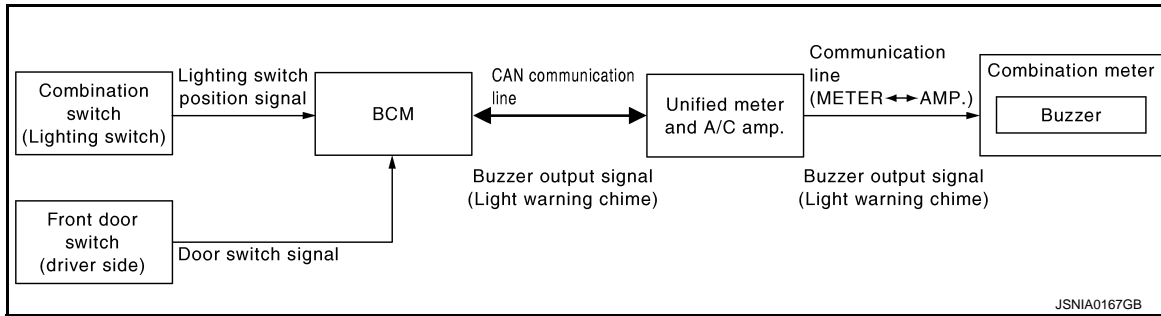
< SYSTEM DESCRIPTION >

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-70. "Description".

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME : System Diagram

INFOID:000000003887257



LIGHT REMINDER WARNING CHIME : System Description

INFOID:000000003887258

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

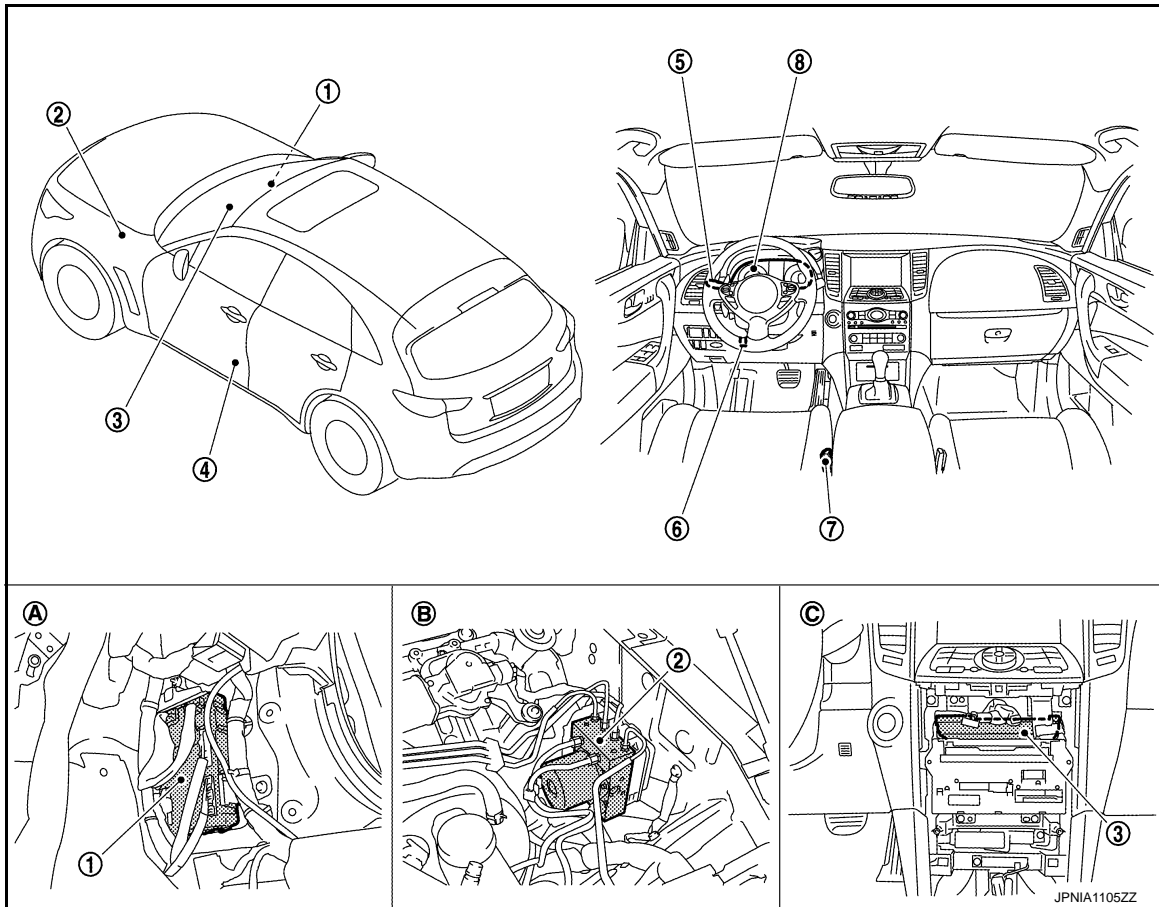
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

LIGHT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000003887259



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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 | |
| A. Dash side lower (passenger side) | B. Hoodledge cover (LH) | C. Behind cluster lid C |

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:000000003887260

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.

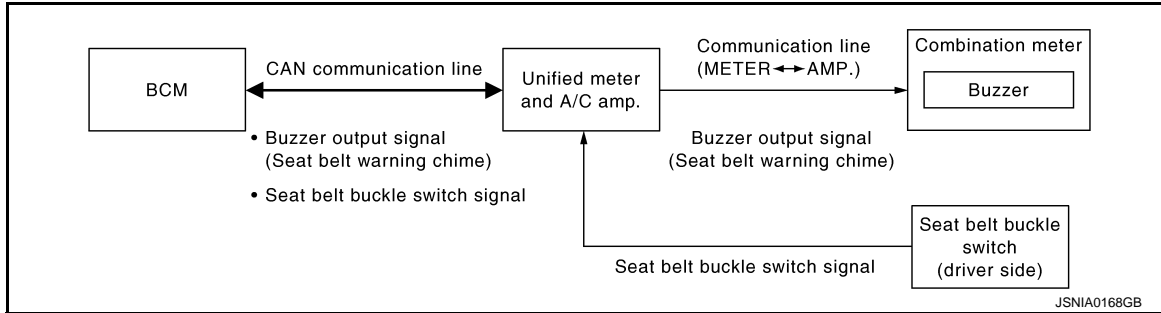
SEAT BELT WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : System Diagram

INFOID:000000003887261



SEAT BELT WARNING CHIME : System Description

INFOID:000000003887261

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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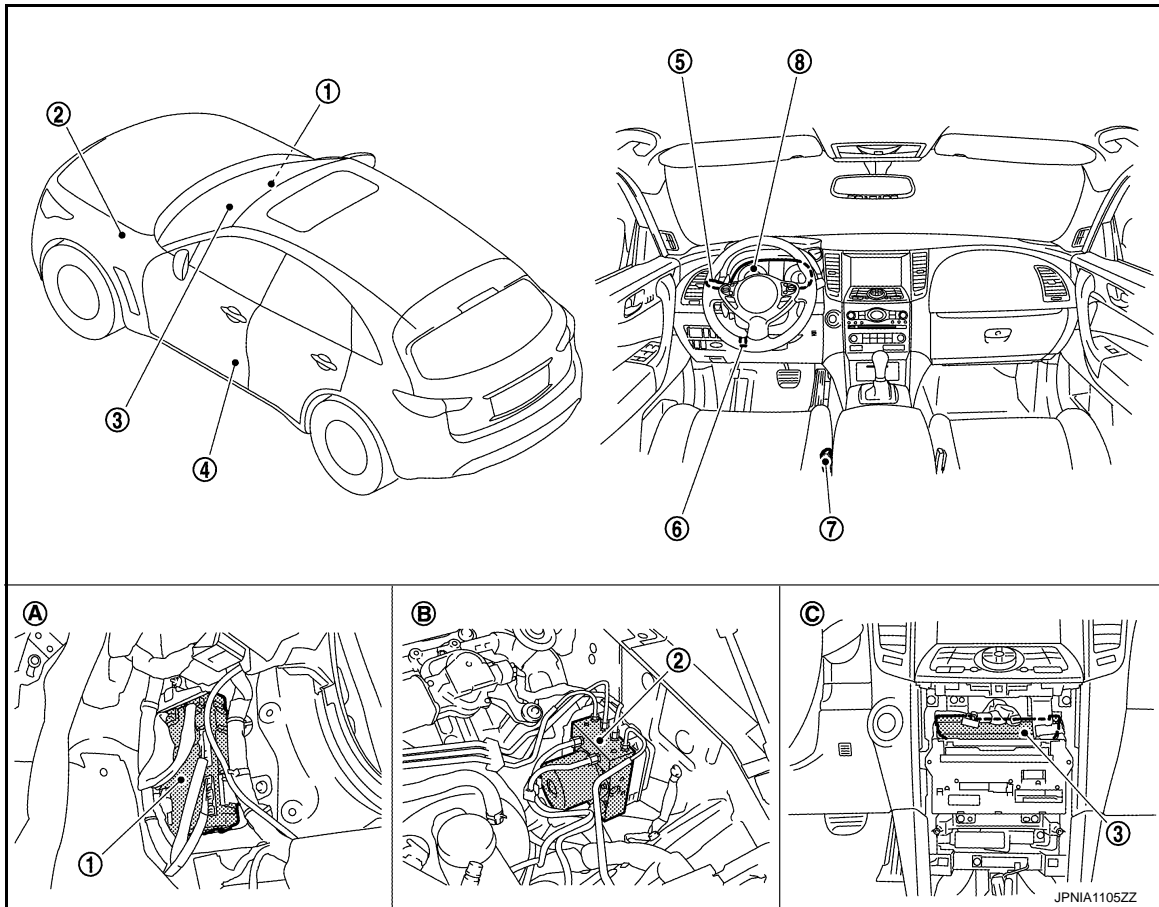
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WARNING CHIME SYSTEM

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SEAT BELT 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 | |
| A. Dash side lower (passenger side) | B. Hoodledge cover (LH) | C. Behind cluster lid C |

SEAT BELT WARNING CHIME : Component Description

INFOID:000000003887264

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" .

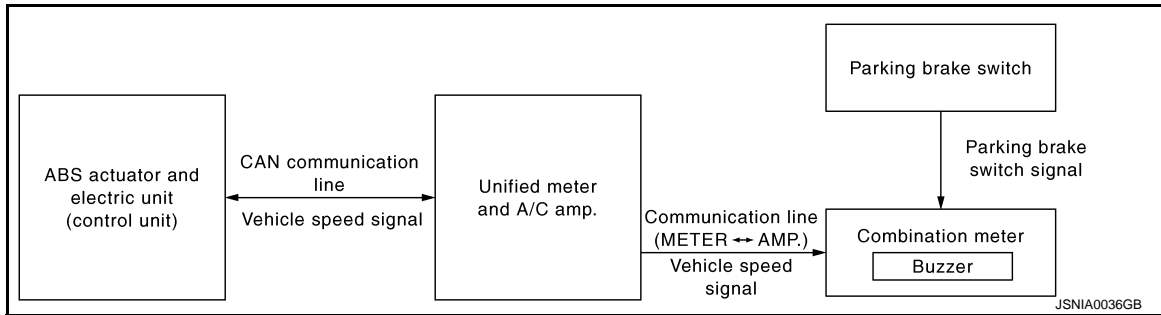
PARKING BRAKE RELEASE WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:000000003887265



PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:000000003887265

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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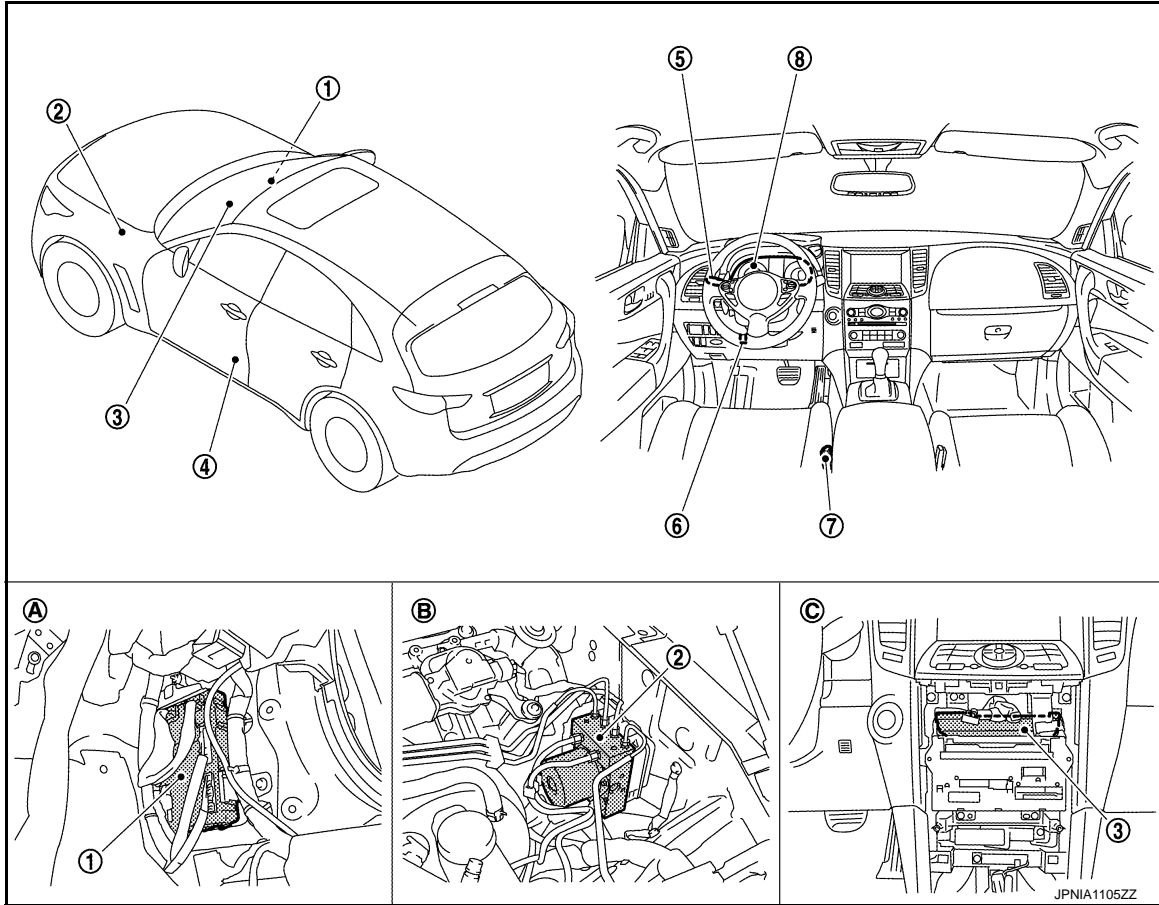
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WARNING CHIME SYSTEM

< 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 | |
| A. Dash side lower (passenger side) | B. Hoodledge cover (LH) | C. Behind cluster lid C |

PARKING BRAKE RELEASE WARNING CHIME : Component Description

INFOID:000000003887268

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 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.	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-70, "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:000000003940915

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 [MWI-112, "DTC Index"](#).

DATA MONITOR

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER [km/h] or [mph]	X	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line. NOTE: 655.35 is displayed when the malfunction signal is received.
SPEED OUTPUT [km/h] or [mph]	X	Vehicle speed signal value transmitted to other units with CAN communication line. NOTE: 655.35 is displayed when the malfunction signal is received.
ODO OUTPUT [km/h]		Odometer signal value transmitted to other units with CAN communication line.
TACHO METER [rpm]	X	Value of the engine speed signal received from ECM with CAN communication line. NOTE: 8191.875 is displayed when the malfunction signal is received.
FUEL METER [L]	X	Fuel level indicated on combination meter.
W TEMP METER [°C] or [°F]	X	Value of engine coolant temperature signal received from ECM with CAN communication line. NOTE: 215 is displayed when the malfunction signal is input.
ABS W/L [On/Off]		Status of ABS warning lamp judged from ABS warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.
VDC/TCS IND [On/Off]		Status of 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]		Status of brake warning lamp judged from brake warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. NOTE: Displays "Off" if the brake warning lamp is illuminated when the valve check starts, the parking brake switch is turned ON or the brake fluid level switch is turned ON.
DOOR W/L [On/Off]		Status of door warning 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 [On/Off]		This item is displayed, but cannot be monitored.
RR FOG IND [On/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 [On/Off]		This item is displayed, but cannot be monitored.
C-ENG2 W/L [On/Off]		This item is displayed, but cannot be monitored.
CRUISE IND [On/Off]		<ul style="list-style-type: none"> • Status of CRUISE indicator judged from ASCD status signal received from ECM with CAN communication line. • Status of CRUISE indicator judged from meter display signal received from ICC sensor integrated unit 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 [On/Off]		Status of IBA OFF indicator lamp judged from IBA OFF indicator 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 lamp 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 [On/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 [On/Off]		Status of RAS warning lamp judged from RAS warning lamp signal received from RAS control unit with CAN communication line.
DDS W/L [On/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.

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

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description	A
E-SUS IND [On/Off]		Status of sports mode indicator lamp judged from sports mode indicator lamp signal received from E-SUS control unit with CAN communication line.	A
DCA IND [On/Off]		Status of DCA switch indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.	B
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.	C
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.	D
ACC DISTANCE [Off, SHOR, MID, LONG]		Status of set distance indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.	E
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.	F
ACC SET SPEED		Status of set vehicle speed indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.	G
ACC UNIT [On/Off]		Status of display unit judged from meter display signal received from ICC sensor integrated unit with CAN communication line.	H
SHIFT IND [P, R, N, D, L, M1, M2, M3, M4, M5, M6, M7]		Status of shift position indicator judged from shift position signal and manual mode indicator signal received from TCM with CAN communication line.	I
O/D OFF SW [On/Off]		This item is displayed, but cannot be monitored.	J
AT S MODE SW [On/Off]		Status of snow mode switch.	K
AT P MODE SW [On/Off]		This item is displayed, but cannot be monitored.	L
M RANGE SW [On/Off]		Status of manual mode switch.	M
NM RANGE SW [On/Off]		Status of not manual mode switch.	WCS
AT SFT UP SW [On/Off]		Status of A/T shift up switch.	O
AT SFT DWN SW [On/Off]		Status of A/T shift down switch.	P
ST SFT UP SW [On/Off]		Status of paddle shifter up switch.	
ST SFT DWN SW [On/Off]		Status of paddle shifter down switch.	
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 [On/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.	
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.	
DISTANCE [km/h]		Value of possible driving distance calculated by unified meter and A/C amp.	

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

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
OUTSIDE TEMP [°C] or [°F]		Ambient air temperature value converted from ambient sensor signal received from ambient sensor. NOTE: This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the ambient sensor input value.)
FUEL LOW SIG [On/Off]		Status of fuel level low warning signal to output to AV control unit with CAN communication line.
BUZZER [On/Off]	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:000000003940916

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 CONDITONER*			
<ul style="list-style-type: none"> • 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	TRUNK		x	x
Vehicle security system	THEFT ALM	x	x	x
RAP system	RETAINED PWR		x	
Signal buffer system	SIGNAL BUFFER		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	Power position status of the moment a particular DTC is detected	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:000000003887271

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
PUSH SW [On/Off]	Status of push button ignition switch judged by BCM.	B
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.	C
VEH SPEED 1 [Km/h or mph]	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.	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.	F
DOOR SW-DR [On/Off]	Status of driver side door switch judged by BCM.	F

ACTIVE TEST

Display item [Unit]	Description	G
IGN KEY WARN ALM	The key warning chime operation can be checked by operating the relevant function (On/Off).	H
SEAT BELT WARN TEST	The seat belt warning chime operation can be checked by operating the relevant function (On/Off).	H
LIGHT WARN ALM	The light warning chime operation can be checked by operating the relevant function (On/Off).	H

WCS

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000003940356

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	OFF	Battery voltage
	21	Ignition signal	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between combination meter and fuse.

3.CHECK GROUND CIRCUIT

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

Combination meter		Ground	Continuity
Connector	Terminal		
M53	5		Existed
	15		Existed
	22		Existed

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:000000003940510

1.CHECK FUSE

Check for blown fuses.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Power source	Fuse No.
Battery	6
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.)
(+)		(-)		
Unified meter A/C amp.	Terminal	Signal name		
M67	54	Battery power supply	OFF	Battery voltage
	41	ACC power supply	ACC	Battery voltage
	53	Ignition signal	ON	Battery voltage

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 A/C amp.		Ground	Continuity
Connector	Terminal		
M67	55		Existed
	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:000000003940371

1.CHECK FUSE AND FUSIBLE LINK

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

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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

3. Check voltage between BCM harness connector and ground.

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

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:000000003887275

- 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:000000003887276

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-82, "Removal and Installation"](#).

Diagnosis Procedure

INFOID:000000003887277

1.CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to [WCS-20, "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 [WCS-20, "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:000000003887278

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

Component Function Check

INFOID:000000003887279

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:000000003887280

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.		When driver seat belt is fastened	12 V
Connector	Terminal		
M66	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}	1	Existed
		B503 ^{*2}	61	Existed

*1: Without climate controlled seat

*2: With climate controlled seat

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.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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 (driver side)		Ground	Continuity
Connector	Terminal		
B13*1	2		Existed
B503*2	60		Existed

*1: Without climate controlled seat

*2: With climate controlled seat

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:000000003887281

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.

Connector	Terminal		Condition	Continuity
B13*1	1	2	When seat belt is fastened	Not existed
			When seat belt is unfastened	Existed
B503*2	61	60	When seat belt is fastened	Not existed
			When seat belt is unfastened	Existed

*1: Without climate controlled seat

*2: With climate controlled seat

Is the inspection result normal?

YES >> INSPECTION END

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

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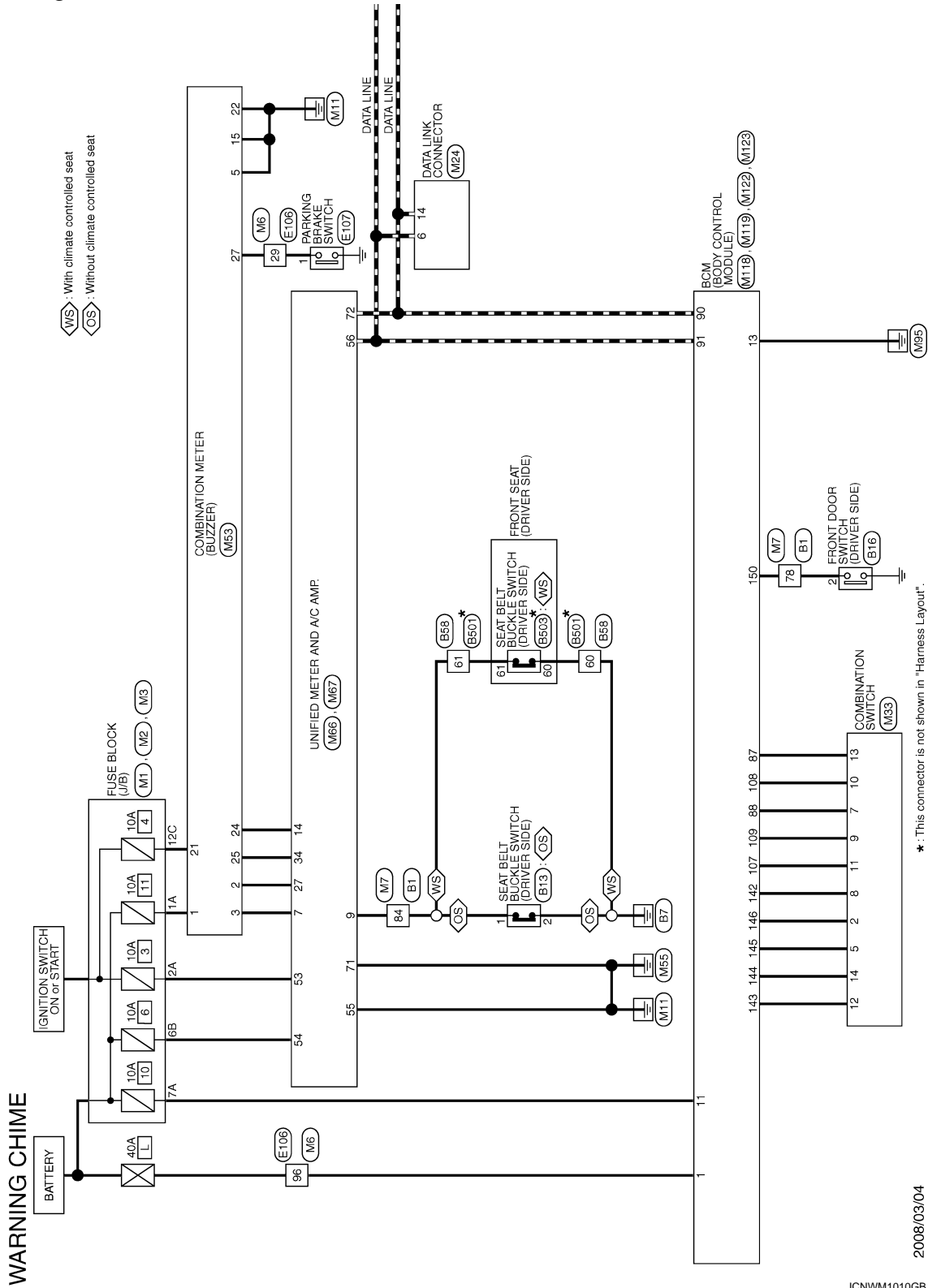
WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME SYSTEM

Wiring Diagram - WARNING CHIME -

INFOID:000000003887282



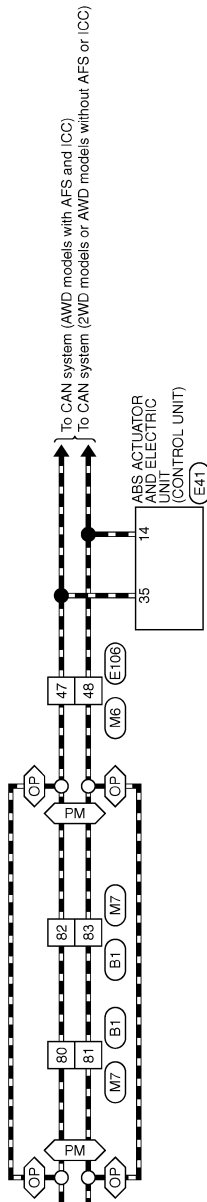
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WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

EM : With automatic drive positioner
OP : Without automatic drive positioner



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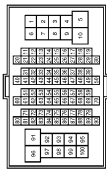



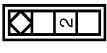

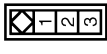

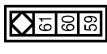



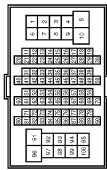



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WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME







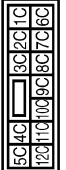

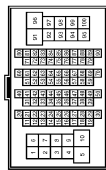

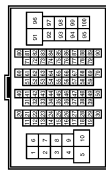

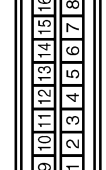

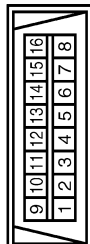

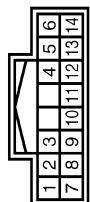
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Connector Name	WIRE TO WIRE																											
Connector Type	NS10MW-CS																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
60	R/Y	-																										
61	B/Y	-																										
<table border="1"> <tr><td>Connector No.</td><td>E106</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80FW-CS16-TM4</td></tr> </table>  	Connector No.	E106	Connector Name	WIRE TO WIRE	Connector Type	TH80FW-CS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>29</td><td>LG</td><td>-</td></tr> <tr><td>47</td><td>L</td><td>-</td></tr> <tr><td>48</td><td>P</td><td>-</td></tr> <tr><td>96</td><td>W</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	29	LG	-	47	L	-	48	P	-	96	W	-						
Connector No.	E106																											
Connector Name	WIRE TO WIRE																											
Connector Type	TH80FW-CS16-TM4																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
29	LG	-																										
47	L	-																										
48	P	-																										
96	W	-																										
<table border="1"> <tr><td>Connector No.</td><td>E41</td></tr> <tr><td>Connector Name</td><td>ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)</td></tr> <tr><td>Connector Type</td><td>BAA4ZFB-AH24-LH</td></tr> </table>  	Connector No.	E41	Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	Connector Type	BAA4ZFB-AH24-LH	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>14</td><td>P</td><td>CAN-L</td></tr> <tr><td>35</td><td>L</td><td>CAN-H</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	14	P	CAN-L	35	L	CAN-H												
Connector No.	E41																											
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)																											
Connector Type	BAA4ZFB-AH24-LH																											
Terminal No.	Color of Wire	Signal Name [Specification]																										
14	P	CAN-L																										
35	L	CAN-H																										

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WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

Connector No. E107	Connector Name PARKING BRAKE SWITCH	Connector Type TBD1FW		Terminal No. T	Color of Wire LG	Signal Name [Specification]	Terminal No. 1	Color of Wire LG	Signal Name [Specification]	
Connector No. M1	Connector Name FUSE BLOCK (J/B)	Connector Type NSG6FW-M2		Terminal No. 1A 2A 7A	Color of Wire O G R	Signal Name [Specification]		Terminal No. 1A 2A 7A	Color of Wire O G R	Signal Name [Specification]
Connector No. M2	Connector Name FUSE BLOCK (J/B)	Connector Type NS18FW-CS		Terminal No. 8B	Color of Wire Y	Signal Name [Specification]		Terminal No. 8B	Color of Wire Y	Signal Name [Specification]
Connector No. M3	Connector Name FUSE BLOCK (J/B)	Connector Type NS12FW-CS		Terminal No. 12C	Color of Wire R	Signal Name [Specification]		Terminal No. 12C	Color of Wire R	Signal Name [Specification]
Connector No. M6	Connector Name WIRE TO WIRE	Connector Type TH80MW-CS18F-TM4		Terminal No. 1	Color of Wire V	Signal Name [Specification]		Terminal No. 28 47 96	Color of Wire V L W	Signal Name [Specification]
Connector No. M7	Connector Name WIRE TO WIRE	Connector Type TH80MW-CS16-TM4		Terminal No. 1 2 3 4 5 6 7 8	Color of Wire L P L P L P L P	Signal Name [Specification]		Terminal No. 78 80 81 82 83 84	Color of Wire GR L P L P S5	Signal Name [Specification]
Connector No. M8	Connector Name WIRE TO WIRE	Connector Type TH80MW-CS18F-TM4		Terminal No. 1 2 3 4 5 6 7 8	Color of Wire L P L P L P L P	Signal Name [Specification]		Terminal No. 6 14	Color of Wire L P	Signal Name [Specification]
Connector No. M24	Connector Name DATA LINK CONNECTOR	Connector Type BD18FW		Terminal No. 9 10 11 12 13 14 15 16	Color of Wire L P L P L P L P	Signal Name [Specification]		Terminal No. 6 14	Color of Wire L P	Signal Name [Specification]
Connector No. M33	Connector Name COMBINATION SWITCH	Connector Type TH18FW-NH		Terminal No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Color of Wire L P L P L P L P L P L P L P	Signal Name [Specification]		Terminal No. 2 5 7 8 9 10 11 12 13 14	Color of Wire S5 L V O Y R LG P BR G	Signal Name [Specification] OUTPUT 4 OUTPUT 3 INPUT 3 OUTPUT 5 INPUT 2 INPUT 4 INPUT 1 OUTPUT 1 INPUT 5 OUTPUT 2

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WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

Connector No. M53	Connector Name COMBINATION METER	Connector Type TH407V-NH	Terminal No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Signal Name [Specification] BAT COMM (METER->AMP) COMM (AMP->METER) GND GND IGN GND COMM (LCD->AMP) COMM (AMP->LCD) PARKING BRAKE SW	Color of Wire O LG GR B B R B BR Y V	Terminal No. 1	Color of Wire W	Signal Name [Specification] BAT (F/L)
Connector No. M55	Connector Name COMBINATION METER	Connector Type TH407V-NH	Terminal No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Signal Name [Specification] BAT COMM (METER->AMP) COMM (AMP->METER) GND GND IGN GND COMM (LCD->AMP) COMM (AMP->LCD) PARKING BRAKE SW	Color of Wire O LG GR B B R B BR Y V	Terminal No. 1	Color of Wire W	Signal Name [Specification] BAT (F/L)
Connector No. M56	Connector Name UNIFIED METER AND A/C AMP.	Connector Type TH407V-NH	Terminal No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Signal Name [Specification] COMM (AMP->METER) SEAT BELT BUCKLE SW (DRIVER SIDE) COMM (LCD->AMP) COMM (METER->AMP) COMM (AMP->LCD)	Color of Wire GR SB BR LG Y	Terminal No. 7	Color of Wire GR	Signal Name [Specification] COMM (AMP->METER) SEAT BELT BUCKLE SW (DRIVER SIDE) COMM (LCD->AMP) COMM (METER->AMP) COMM (AMP->LCD)
Connector No. M67	Connector Name UNIFIED METER AND A/C AMP.	Connector Type TH427V-NH	Terminal No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Signal Name [Specification] IGN BAT GND CAN-H GND CAN-L	Color of Wire G Y B L B P	Terminal No. 53	Color of Wire G	Signal Name [Specification] IGN BAT GND CAN-H GND CAN-L
Connector No. M118	Connector Name BCM (BODY CONTROL MODULE)	Connector Type M03FB-LC	Terminal No. 1 2 3	Signal Name [Specification] BAT (F/L)	Color of Wire W	Terminal No. 1	Color of Wire W	Signal Name [Specification] BAT (F/L)
Connector No. M122	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH407E-NH	Terminal No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Signal Name [Specification] COMBI SW INPUT 5 COMBI SW INPUT 3 CAN-L CAN-H COMBI SW INPUT 1 COMBI SW INPUT 4 COMBI SW INPUT 2	Color of Wire BR V P L LG R Y	Terminal No. 87	Color of Wire BR	Signal Name [Specification] COMBI SW INPUT 5 COMBI SW INPUT 3 CAN-L CAN-H COMBI SW INPUT 1 COMBI SW INPUT 4 COMBI SW INPUT 2
Connector No. M123	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH407G-NH	Terminal No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Signal Name [Specification] COMBI SW OUTPUT 5 COMBI SW OUTPUT 2 COMBI SW OUTPUT 3 COMBI SW OUTPUT 4 DRIVER DOOR SW	Color of Wire O P G L SB GR	Terminal No. 142	Color of Wire O	Signal Name [Specification] COMBI SW OUTPUT 5 COMBI SW OUTPUT 2 COMBI SW OUTPUT 3 COMBI SW OUTPUT 4 DRIVER DOOR SW
Connector No. M119	Connector Name BCM (BODY CONTROL MODULE)	Connector Type NS167V-CS	Terminal No. 1 2 3 4 5 6 7 8 9 10	Signal Name [Specification] BAT (FUSE) GND	Color of Wire R B GND	Terminal No. 11	Color of Wire R	Signal Name [Specification] BAT (FUSE) GND

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

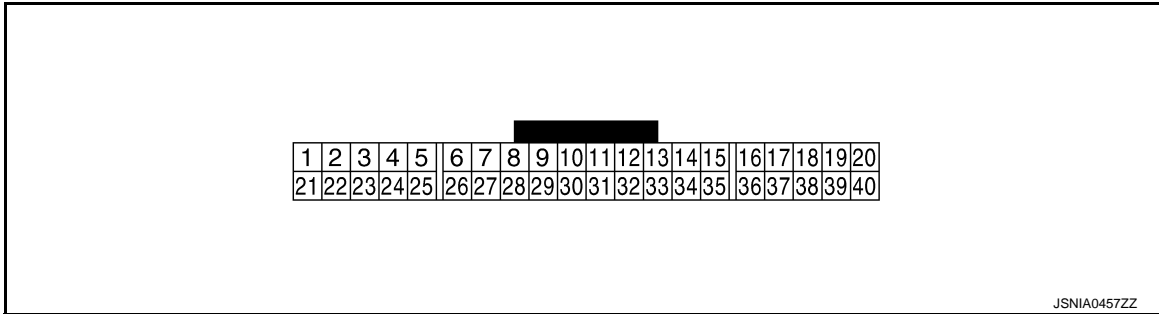
Reference Value

INFOID:000000003940346

VALUES ON THE DIAGNOSIS TOOL

Refer to [WCS-47. "Reference Value"](#).

TERMINAL LAYOUT



PHYSICAL VALUES

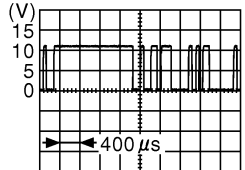
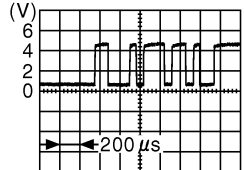
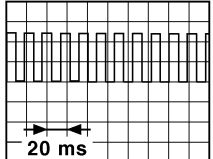
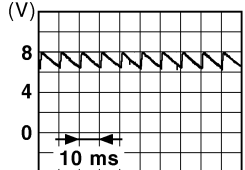
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (LG)	Ground	Communication signal (METER→ AMP.)	Output	Ignition switch ON	—	
3 (GR)	Ground	Communication signal (AMP.→ METER)	Input	Ignition switch ON	—	
5 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
6 (W)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON	0 V
					Charge warning lamp OFF	Battery voltage
7 (LG)	Ground	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON	4 V
					Air bag warning lamp OFF	0 V
10 (G)	Ground	Security signal	Input	Ignition switch OFF	Security warning lamp ON	0 V
					Security warning lamp OFF	12 V

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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 (R)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
22 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
23 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
24 (BR)	Ground	Communication signal (LCD→AMP.)	Output	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">JSNIA0028GB</p>
25 (Y)	Ground	Communication signal (AMP.→LCD)	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">JSNIA0027GB</p>
26 (R)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0012GB</p>
27 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	 <p style="text-align: right; font-size: small;">JSNIA0007GB</p>
28 (W)	Ground	Brake fluid level switch sig- nal	Input	Ignition switch ON	Brake fluid level is normal.	5 V
					The brake fluid level is low- er than the low level	0 V

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	Passenger seat belt warning signal	Input	Ignition switch ON	<ul style="list-style-type: none"> When getting in the passenger seat When passenger seat belt is fastened 	12 V
					<ul style="list-style-type: none"> 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
34 (O)	Ground	Illumination control signal	Output	Ignition switch ON	Lighting switch ON, then operate the illumination control switch.	<p>NOTE: When brightness level is midway</p> <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
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

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COMBINATION METER

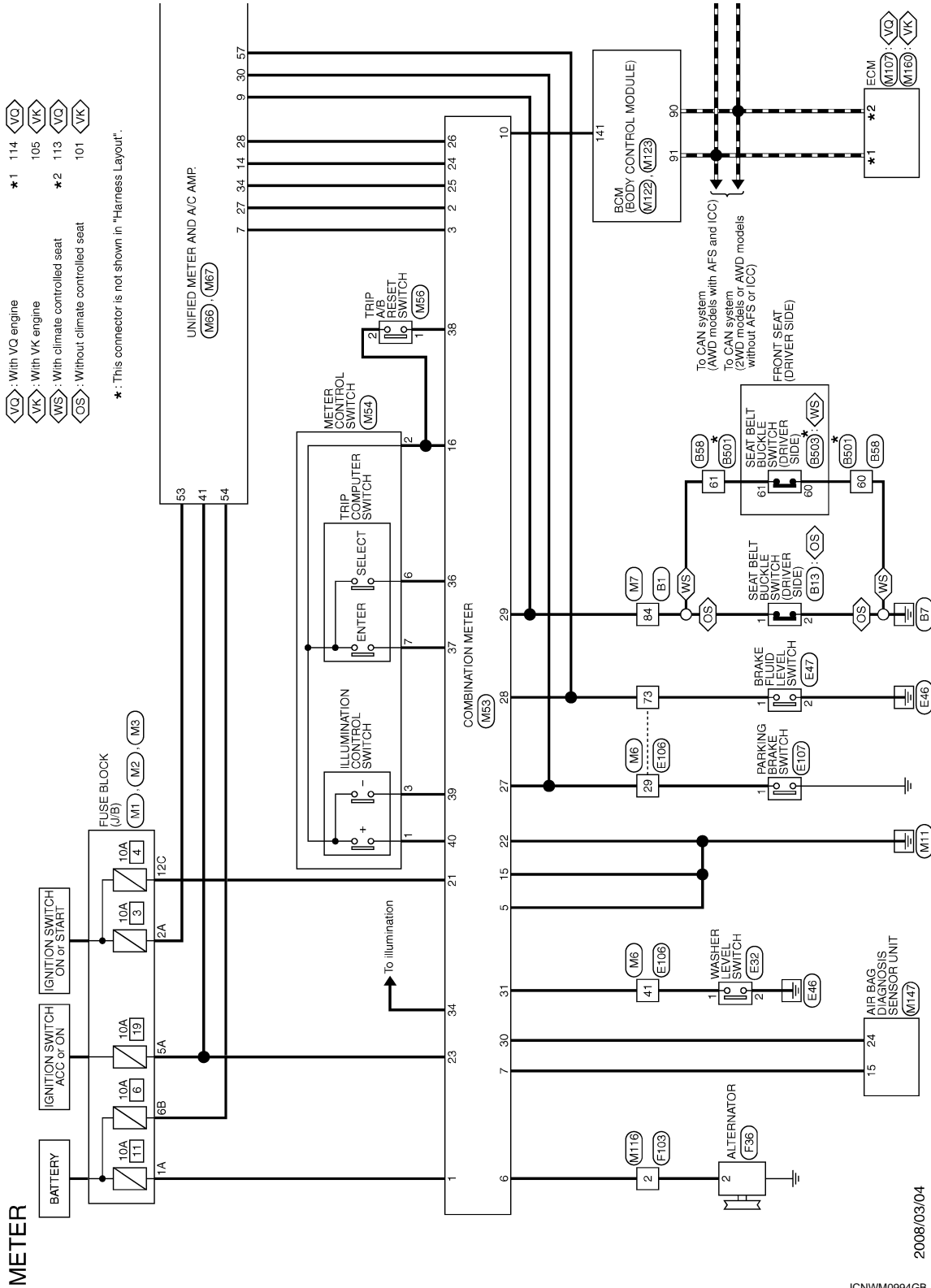
< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - METER -

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- ☆ 1 114
- 105
- ☆ 2 113
- 101
- With VQ engine
- With VK engine
- With climate controlled seat
- Without climate controlled seat

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

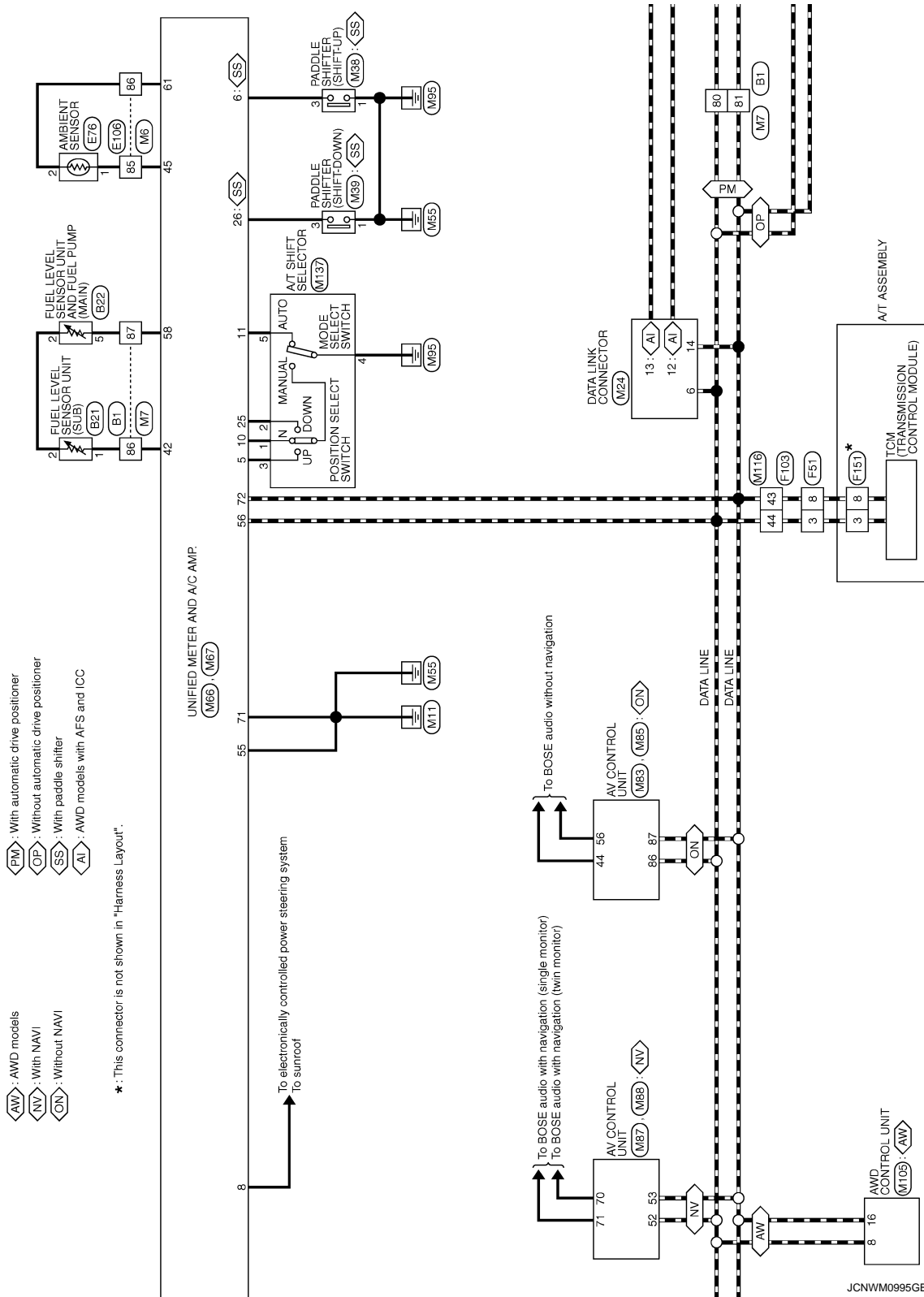


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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >






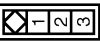
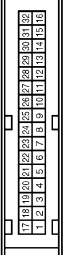

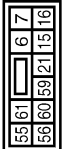

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No. Connector Name Connector Type	B1 WIRE TO WIRE TH8DFW-CS16-TM4		Terminal No. Color of Wire Signal Name [Specification]	80 L 81 P 82 L 83 P 84 SB 86 Y 87 B	
Connector No. Connector Name Connector Type	B21 FUEL LEVEL SENSOR UNIT (SUB) E32FCGY-RS		Terminal No. Color of Wire Signal Name [Specification]	1 Y 2 W	
Connector No. Connector Name Connector Type	B22 FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN) E32FCGY-RS		Terminal No. Color of Wire Signal Name [Specification]	2 W 5 B	
Connector No. Connector Name Connector Type	B31 SEAT BELT BUCKLE SWITCH (DRIVER SIDE) (WITHOUT CLIMATE CONTROLLED SEAT) A43FW		Terminal No. Color of Wire Signal Name [Specification]	1 SB 2 B	
Connector No. Connector Name Connector Type	B38 E-SUS CONTROL UNIT AAB32FL		Terminal No. Color of Wire Signal Name [Specification]	29 P 32 L	CAN-L CAN-H
Connector No. Connector Name Connector Type	B37 RAS CONTROL UNIT A38FW-M4		Terminal No. Color of Wire Signal Name [Specification]	8 P	CAN-H CAN-L
Connector No. Connector Name Connector Type	B58 WIRE TO WIRE NS10FW-CS		Terminal No. Color of Wire Signal Name [Specification]	60 B 61 SB	
Connector No. Connector Name Connector Type	B201 WIRE TO WIRE TH8DFW-CS16-TM4		Terminal No. Color of Wire Signal Name [Specification]	47 L 48 P	- [With ICC] - [With ICC]

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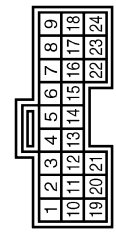
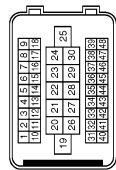
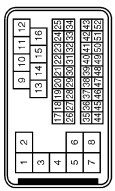
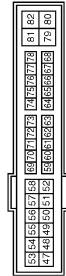

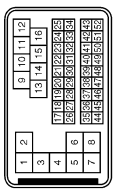
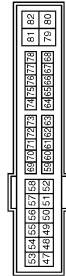
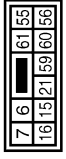
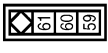

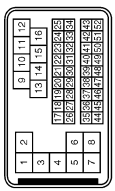
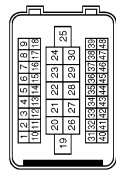
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WCS

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No. B250	Connector Name BRAKE BOOSTER CONTROL UNIT	Connector Type TK24FW		Terminal No. 5	Color of Wire P	Signal Name [Specification] ITS COMM-L	
14	L			ITS COMM-H			
Connector No. E3	Connector Name WIRE TO WIRE	Connector Type SAA38MB-RS10-SZZ		Terminal No. 35	Color of Wire Y	Signal Name [Specification]	
Connector No. E10	Connector Name WIRE TO WIRE	Connector Type SAA38MF-RS8-SHZ8		Terminal No. 24	Color of Wire Y	Signal Name [Specification]	
Connector No. E7	Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Type TH20FW-CS12-M4		Terminal No. 75	Color of Wire Y	Signal Name [Specification]	
Connector No. E8	Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Type TH08FW-NH		Terminal No. 40	Color of Wire P	Signal Name [Specification]	
Connector No. E10	Connector Name WIRE TO WIRE	Connector Type SAA38MF-RS8-SHZ8		Terminal No. 61	Color of Wire R/Y	Signal Name [Specification]	
61	B/Y						
Connector No. E7	Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Type TH20FW-CS12-M4		Terminal No. 61	Color of Wire B/Y	Signal Name [Specification]	
61	B/Y						
Connector No. E301	Connector Name WIRE TO WIRE	Connector Type NS10MF-CS		Terminal No. 60	Color of Wire R/Y	Signal Name [Specification]	
61	B/Y						
Connector No. E503	Connector Name SEAT BELT BUCKLE SWITCH (DRIVER SIDE) (WITH CLIMATE CONTROLLED SEAT)	Connector Type A03FW		Terminal No. 61	Color of Wire R/Y	Signal Name [Specification]	
61	B/Y						
Connector No. E32	Connector Name WASHER LEVEL SWITCH	Connector Type Z02FBR		Terminal No. 35	Color of Wire Y	Signal Name [Specification]	
Connector No. E10	Connector Name WIRE TO WIRE	Connector Type SAA38MF-RS8-SHZ8		Terminal No. 75	Color of Wire Y	Signal Name [Specification]	
Connector No. E3	Connector Name WIRE TO WIRE	Connector Type SAA38MB-RS10-SZZ		Terminal No. 40	Color of Wire L	Signal Name [Specification]	
40	L						

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No. E41	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	Connector No. E67	ICC SENSOR INTEGRATED UNIT	Connector No. E76	AMBIENT SENSOR	Connector No. E106	WIRE TO WIRE
Connector Name BAK42PE-AH24-LH		Connector Name RS08FB-FR		Connector Name RS02FB		Connector Name TH00FW-CS16-TM4	
Connector Type H.S.		Connector Type H.S.		Connector Type H.S.		Connector Type H.S.	
Terminal No. 14 35	Color of Wire P L	Terminal No. 2 3 5 6	Color of Wire L G P BR	Terminal No. 1 2	Color of Wire G P	Terminal No. 17 18 28 41 47 48 85 86 73 85 86	Color of Wire L P LG LG L P G BR R G P
Signal Name [Specification] CAN-L CAN-H	Signal Name [Specification] ITS COMM-H CAN-H ITS COMM-L CAN-L	Signal Name [Specification] ITS COMM-L	Signal Name [Specification] ITS COMM-L ITS COMM-H	Signal Name [Specification]	Signal Name [Specification]	Signal Name [Specification]	Signal Name [Specification]

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

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Connector No. M3	FUSE BLOCK (J/B)	MS2FW-CS		Terminal No. 1ZC	Color of Wire R	Signal Name [Specification]	
Connector No. M6	WIRE TO WIRE	TH8GMW-CS16-TM4		Terminal No. 17	Color of Wire L	Signal Name [Specification]	
Connector No. M7	WIRE TO WIRE	TH8GMW-CS16-TM4		Terminal No. 80	Color of Wire L	Signal Name [Specification]	
Connector No. M8	DATA LINK CONNECTOR	BD16FW		Terminal No. 9	Color of Wire L	Signal Name [Specification]	
Connector No. M16	AFS CONTROL UNIT	TH40FW-NH		Terminal No. 7	Color of Wire P	Signal Name [Specification]	CAN-L
				Terminal No. 30	Color of Wire L	Signal Name [Specification]	CAN-H
Connector No. M38	PADDLE SHIFTER(SHIFT-UP)	A04FW		Terminal No. 3	Color of Wire O	Signal Name [Specification]	
Connector No. M38	PADDLE SHIFTER(SHIFT-DOWN)	A03FW		Terminal No. 1	Color of Wire B	Signal Name [Specification]	
				Terminal No. 3	Color of Wire G	Signal Name [Specification]	

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH407V-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	BAT
2	LG	COMM (METER->AMP)
3	GR	COMM (AMP->METER)
5	B	GND
6	W	ALTERNATOR
7	P	AIR BAG
10	G	SECURITY
13	B	GND
16	B	METER CONTROL SW GND
21	R	IGN
22	B	GND

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH407V-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
5	L	SHIFT UP
6	O	PADDLE UP
7	GR	COMM (AMP->METER)
8	L	VEHICLE SPEED (2-PULSE)
9	SB	SEAT BELT BUCKLE SW (DRIVER SIDE)
10	W	MANUAL MODE
11	G	NOT MANUAL MODE
14	BR	COMM (LCD->AMP)
25	V	SHIFT DOWN
26	G	PADDLE DOWN
27	LG	COMM (METER->AMP)

23	V	ACC
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	PASSENGER SEAT BELT WARNING SIGNAL
31	L	WASHER LEVEL SW
34	O	ILL COON OUT
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 (+)

28	R	VEHICLE SPEED (8-PULSE)
30	V	PARKING BRAKE SW
34	Y	COMM (AMP->LCD)

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12MW-NH



1	2	3	4	5	6
7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	B	-
3	P	-
6	LG	-
7	SB	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72

Terminal No.	Color of Wire	Signal Name [Specification]
41	V	ACC
42	Y	FUEL LEVEL SENS
45	P	AMB SENS
53	G	IGN
54	Y	BAT
55	B	GND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SW
58	B	FUEL LEVEL SENS GND
61	BR	AMB SENS GND
71	B	GND

Connector No.	M66
Connector Name	TRIP A/B RESET SWITCH
Connector Type	TH04MM-NH



1	2	3	4
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Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	B	-

72	P	CAN-L
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

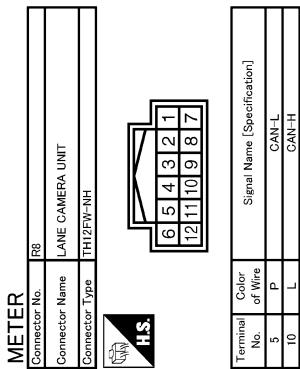
Connector No. M117	WIRE TO WIRE	TH80WV-CS1(F-TM4)		Terminal No. 47	Color of Wire L	Signal Name [Specification] - [With ICC]
Connector No. M125	CAN GATEWAY	TH12FW-NH		Terminal No. 4	Color of Wire L	Signal Name [Specification] CAN-H
Connector No. M122	BCM (BODY CONTROL MODULE)	TH40FB-NH		Terminal No. 90	Color of Wire P	Signal Name [Specification] CAN-L
Connector No. M123	BCM (BODY CONTROL MODULE)	TH40FG-NH		Terminal No. 141	Color of Wire G	Signal Name [Specification] SECURITY INDICATOR OUTPUT
Connector No. M137	A/T SHIFT SELECTOR	TH12FW-NH		Terminal No. 48	Color of Wire P	Signal Name [Specification] - [With ICC]
Connector No. M147	AIR BAG DIAGNOSIS SENSOR UNIT	TK2BFY-EX-SC		Terminal No. 15	Color of Wire P	Signal Name [Specification] AIR BAG W/L
Connector No. M160	ECM (WITH YK ENGINE)	RH24FY-R28-R-LH-Z		Terminal No. 101	Color of Wire P	Signal Name [Specification] VEHCAN-L
Connector No. M177	WIRE TO WIRE	TH12FW-NH		Terminal No. 24	Color of Wire G	Signal Name [Specification] SEAT BELT
Connector No. M187	A/T SHIFT SELECTOR	TH12FW-NH		Terminal No. 1	Color of Wire W	Signal Name [Specification]
Connector No. M187	A/T SHIFT SELECTOR	TH12FW-NH		Terminal No. 2	Color of Wire V	Signal Name [Specification]
Connector No. M187	A/T SHIFT SELECTOR	TH12FW-NH		Terminal No. 3	Color of Wire L	Signal Name [Specification]
Connector No. M187	A/T SHIFT SELECTOR	TH12FW-NH		Terminal No. 4	Color of Wire B	Signal Name [Specification]
Connector No. M187	A/T SHIFT SELECTOR	TH12FW-NH		Terminal No. 5	Color of Wire G	Signal Name [Specification]
Connector No. M187	A/T SHIFT SELECTOR	TH12FW-NH		Terminal No. 1	Color of Wire L	Signal Name [Specification]
Connector No. M187	A/T SHIFT SELECTOR	TH12FW-NH		Terminal No. 2	Color of Wire P	Signal Name [Specification]

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COMBINATION METER

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Fail-Safe

INFOID:000000003940348

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.

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Function		Specifications
Speedometer		Reset to zero by suspending communication.
Tachometer		
Fuel gauge		
Engine coolant 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	ABS warning lamp	The lamp turns on by suspending communication.
	VDC OFF indicator lamp	
	SLIP indicator lamp	
	Brake warning lamp	
	RAS warning lamp	
	CRUISE warning lamp	
	IBA OFF indicator lamp	
	High beam indicator	The lamp turns off by suspending communication.
	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	
	Sports mode indicator lamp	
Master warning lamp		

DTC Index

INFOID:000000003940349

Refer to [WCS-66. "DTC Index"](#).

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

UNIFIED METER AND A/C AMP.

Reference Value

INFOID:000000003940350

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]	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.

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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 displayed ON	On
		SET indicator not displayed 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 OFF	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 displayed	On
		Low-fuel warning 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 lamp ON	On
		Low tire pressure 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	RAS warning lamp ON	On
		RAS warning lamp OFF	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
E-SUS IND	Ignition switch ON	Sports mode indicator lamp ON	On
		Sports mode 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	A
	Ignition switch ACC	Engine start information display	B&P N	B
	Ignition switch LOCK	Key ID warning display	ID NG	
	Ignition switch LOCK	Steering lock information display	ROTAT	C
	Ignition switch LOCK	P position warning display	SFT P	D
	Ignition switch LOCK	Intelligent Key insert information display	INSRT	
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT	E
	Ignition switch ON	Take away warning display	NO KY	F
	Ignition switch LOCK	Key warning display	OUTKY	
	Ignition switch ON	ACC warning display	LK WN	G
ACC TARGET	Ignition switch ON	Vehicle ahead detection indicator displayed	On	
		Vehicle ahead detection indicator not displayed	Off	H
ACC DISTANCE	Ignition switch ON	When following distance set to "LONG"	Long	
		When following distance set to "MIDDLE"	Middle	I
		When following distance set to "SHORT"	Short	
		Set distance indicator not displayed	Off	J
ACC OWN VHL	Ignition switch ON	Own vehicle indicator displayed	On	
		Own vehicle indicator not displayed	Off	
ACC SET SPEED	Ignition switch ON	Set vehicle speed indicator not displayed	Off	K
		Set vehicle speed indicator displayed	Indicates the set vehicle speed	
ACC UNIT	Ignition switch ON	Set vehicle speed indicator unit display ON	On	L
		Set vehicle speed indicator unit display OFF	Off	
SHIFT IND	Ignition switch ON	Shift position indicator P display	P	
		Shift position indicator R display	R	M
		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	O
		Shift position indicator M3 display	M3	
		Shift position indicator M4 display	M4	
		Shift position indicator M5 display	M5	P
		Shift position indicator M6 display	M6	
Shift position indicator M7 display	M7			
O/D OFF SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	

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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
AT S MODE SW	Ignition switch ON	Snow mode switch pressed	On
		Snow mode switch not pressed	Off
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	Paddle shifter switch up operation	On
		Other than the above	Off
ST SFT DWN SW	Ignition switch ON	Paddle shifter switch down operation	On
		Other than the above	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	Seat belt not fastened	On
		Seat belt fastened	Off
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON	On
		Brake fluid level switch OFF	Off
DISTANCE [km/h]	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

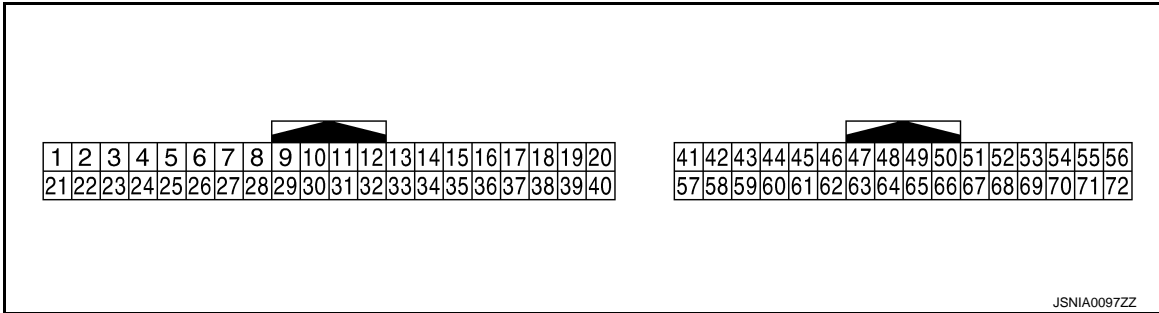
NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >



PHYSICAL VALUES

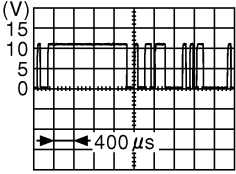
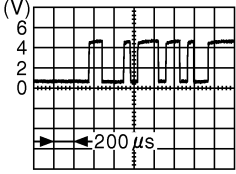
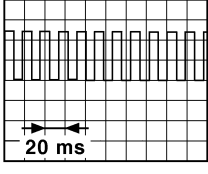
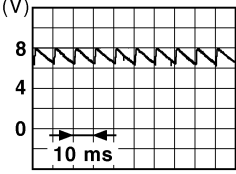
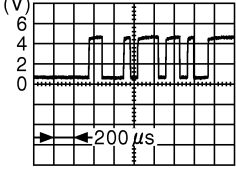
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
5 (L)	Ground	Manual mode shift up signal	Input	Ignition switch ON	Selector lever UP operation	0 V
					Other than the above	12 V
6 (O)	Ground	Paddle shifter up signal	Input	Ignition switch ON	Paddle shifter up operation	0 V
					Other than the above	12 V
7 (GR)	Ground	Communication signal (AMP. → METER)	Output	Ignition switch ON	—	<p style="text-align: right; font-size: small;">JSNIA0027GB</p>
8 (L)	Ground	Vehicle speed signal output (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	<p>NOTE: The maximum voltage varies depending on the specification (destination unit).</p> <p style="text-align: right; font-size: small;">JSNIA0015GB</p>
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

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UNIFIED METER AND A/C AMP.

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Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
14 (BR)	Ground	Communication signal (LCD → AMP.)	Input	Ignition switch ON	—	 JSNIA0028GB
25 (V)	Ground	Manual mode shift down signal	Input	Ignition switch ON	Selector lever down opera- tion	0 V
					Other than the above	12 V
26 (G)	Ground	Paddle shifter down signal	Input	Ignition switch ON	Paddle shifter down opera- tion	0 V
					Other than the above	12 V
27 (LG)	Ground	Communication signal (METER → AMP.)	Input	Ignition switch ON	—	 JSNIA0027GB
28 (R)	Ground	Vehicle speed signal output (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p>  JSNIA0012GB
30 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	 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

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

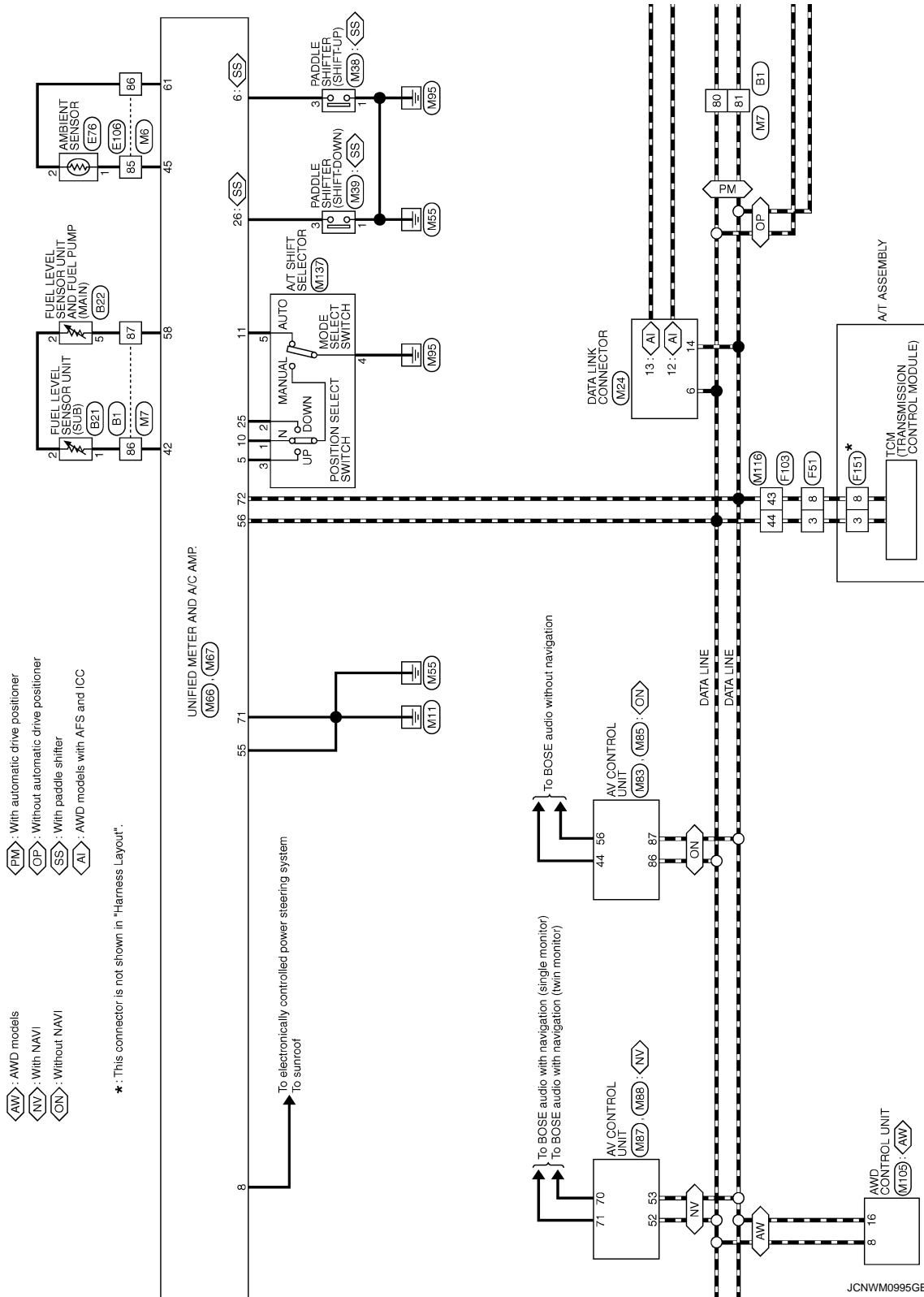
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
42 (Y)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	<p style="text-align: center;">SKIB8867E</p>
45 (P)	Ground	Ambient sensor signal	Input	—	—	<p style="text-align: center;">JSNIA0014GB</p>
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
					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	—	—	—	—

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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >



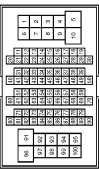


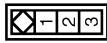
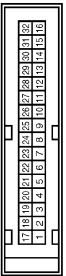

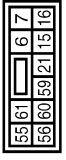

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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

Connector No. Connector Name Connector Type	B1 WIRE TO WIRE TH8DFW-CS16-TM4		Terminal No. Color of Wire Signal Name [Specification]	80 L 81 P 82 L 83 P 84 SB 86 Y 87 B	
Connector No. Connector Name Connector Type	B21 FUEL LEVEL SENSOR UNIT (SUB) E32FCY-RS		Terminal No. Color of Wire Signal Name [Specification]	1 Y 2 W	
Connector No. Connector Name Connector Type	B22 FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN) E32FCY-RS		Terminal No. Color of Wire Signal Name [Specification]	2 W 5 B	
Connector No. Connector Name Connector Type	B31 SEAT BELT BUCKLE SWITCH (DRIVER SIDE) (WITHOUT CLIMATE CONTROLLED SEAT) A43FW		Terminal No. Color of Wire Signal Name [Specification]	1 SB 2 B	
Connector No. Connector Name Connector Type	B33 E-SUS CONTROL UNIT AAB32FL		Terminal No. Color of Wire Signal Name [Specification]	17 B 18 L 19 P 20 L 21 L 22 L 23 L 24 L 25 L 26 L 27 L 28 L 29 L 30 L 31 L 32 L	
Connector No. Connector Name Connector Type	B37 RAS CONTROL UNIT A38FW-M4		Terminal No. Color of Wire Signal Name [Specification]	1 L 2 L 3 L 4 L 5 L 6 L 7 L 8 L 9 L 10 L 11 L 12 L 13 L 14 L 15 L 16 L	
Connector No. Connector Name Connector Type	B58 WIRE TO WIRE NS10FW-CS		Terminal No. Color of Wire Signal Name [Specification]	55 B 61 B 67 SB 56 B 60 B 59 SB 21 L 15 L 16 L	
Connector No. Connector Name Connector Type	E201 WIRE TO WIRE TH8DFW-CS16-TM4		Terminal No. Color of Wire Signal Name [Specification]	47 L 48 P	
Terminal No. Color of Wire Signal Name [Specification]	1 L 2 L 3 L 4 L 5 L 6 L 7 L 8 L 9 L 10 L 11 L 12 L 13 L 14 L 15 L 16 L	CAN-L CAN-L CAN-H CAN-H			
Terminal No. Color of Wire Signal Name [Specification]	29 P 32 L	CAN-L CAN-H			
Terminal No. Color of Wire Signal Name [Specification]	60 B 61 SB	- -			
Terminal No. Color of Wire Signal Name [Specification]	47 L 48 P	- [With ICC] - [With ICC]			

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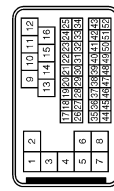
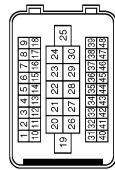
WCS

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	B250	Connector No.	B501	Connector No.	B503	Connector No.	E3	Connector No.	E10	Connector No.	E7	Connector No.	E8	Connector No.	E32	Terminal No.	40	Terminal No.	38	Terminal No.	1	Terminal No.	2		
Connector Name	BRAKE BOOSTER CONTROL UNIT	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE) (WITH CLIMATE CONTROLLED SEAT)	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Name	WASHER LEVEL SWITCH	Color of Wire	P	Color of Wire	Y	Color of Wire	LG	Signal Name [Specification]	Signal Name [Specification]	Signal Name [Specification]	
Connector Type	TK24FW	Connector Type	NS10MHP-CS	Connector Type	A03FW	Connector Type	A03FW	Connector Type	SAA38MB-RS10-SZZ	Connector Type	SAA38MP-RSB-SHZ8	Connector Type	TH20FW-CS12-M4	Connector Type	Z02FBR										
Terminal No.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Terminal No.	7 6 15 21 59 60 56	Terminal No.	61	Terminal No.	60 61	Terminal No.	35	Terminal No.	24	Terminal No.	75	Terminal No.	40	Terminal No.	35	Terminal No.	60 61	Terminal No.	75	Terminal No.	1 2	Terminal No.	40
Color of Wire	P	Color of Wire	B/Y	Color of Wire	R/Y	Color of Wire	B/Y	Color of Wire	Y	Color of Wire	Y	Color of Wire	Y	Color of Wire	Y	Color of Wire	P	Color of Wire	P	Color of Wire	LG	Signal Name [Specification]	Signal Name [Specification]	Signal Name [Specification]	
Signal Name [Specification]	ITS COMM-L ITS COMM-H	Signal Name [Specification]	ITS COMM-L ITS COMM-H	Signal Name [Specification]	—	Signal Name [Specification]	—	Signal Name [Specification]	—	Signal Name [Specification]	—	Signal Name [Specification]	—	Signal Name [Specification]	—	Signal Name [Specification]	—	Signal Name [Specification]	—	Signal Name [Specification]	—	Signal Name [Specification]	—	Signal Name [Specification]	



JCNWM0998GB

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH407V-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	BAT
2	LG	COMM (METER->AMP)
3	GR	COMM (AMP->METER)
5	B	GND
6	W	ALTERNATOR
7	P	AIR BAG
10	G	SECURITY
13	B	GND
16	B	METER CONTROL SW GND
21	R	IGN
22	B	GND

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH407V-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
5	L	SHIFT UP
6	O	PADDLE UP
7	GR	COMM (AMP->METER)
8	L	VEHICLE SPEED (2-PULSE)
9	SB	SEAT BELT BUCKLE SW (DRIVER SIDE)
10	W	MANUAL MODE
11	G	NOT MANUAL MODE
14	BR	COMM (LCD->AMP)
25	V	SHIFT DOWN
26	G	PADDLE DOWN
27	LG	COMM (METER->AMP)

23	V	ACC
24	BR	COMM (LCD->AMP)
25	Y	COMM (AMP->LCD)
26	R	VEHICLE SPEED (2-PULSE)
27	V	PARKING BRAKE SW
28	W	BRAKE FLUID LEVEL SW
29	SB	SEAT BELT BUCKLE SW (DRIVER SIDE)
30	G	PASSENGER SEAT BELT WARNING SIGNAL
31	L	WASHER LEVEL SW
34	O	ILL COON OUT
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 (+)

28	R	VEHICLE SPEED (2-PULSE)
30	V	PARKING BRAKE SW
34	Y	COMM (AMP->LCD)

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12MW-NH



1	2	3	4	5	6
7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	B	-
3	P	-
6	LG	-
7	SB	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72

Terminal No.	Color of Wire	Signal Name [Specification]
41	V	ACC
42	Y	FUEL LEVEL SENS
45	P	AMB SENS
53	G	IGN
54	Y	BAT
55	B	GND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SW
58	B	FUEL LEVEL SENS GND
61	BR	AMB SENS GND
71	B	GND

Connector No.	M56
Connector Name	TRIP A/B RESET SWITCH
Connector Type	TH04MM-NH



1	2	3	4
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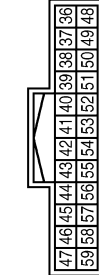

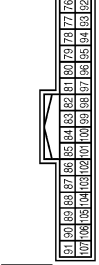

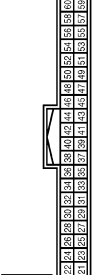

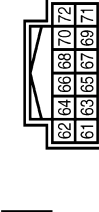
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	B	-


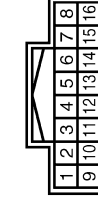





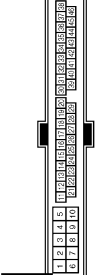
72	P	CAN-L
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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	M83	Connector No.	M85	Connector No.	M87	Connector No.	M88
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)	Connector Name	AV CONTROL UNIT (WITHOUT NAVI)	Connector Name	AV CONTROL UNIT (WITH NAVI)	Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH24FW-NH	Connector Type	TH32FW-NH	Connector Type	TH46FW-NH	Connector Type	TH12FW-NH
							
Terminal No.	44	Terminal No.	86	Terminal No.	52	Terminal No.	70
Color of Wire	BR	Color of Wire	L	Color of Wire	L	Color of Wire	BR
Signal Name [Specification]	COMM (DISP->CONT)	Signal Name [Specification]	CAN-H	Signal Name [Specification]	CAN-H	Signal Name [Specification]	Signal Name [Specification]
	COMM (CONT->DISP)		CAN-L		CAN-L		COMM (DISP->CONT)
	COMM (CONT->DISP)		CAN-L		CAN-L		COMM (DISP->CONT)

Connector No.	M105	Connector No.	M107	Connector No.	M110	Connector No.	M116
Connector Name	AVD CONTROL UNIT	Connector Name	ECM (WITH VQ ENGINE)	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH	Connector Type	RH24FGY-RZ6-R-LH-Z	Connector Type	TH16MW-NH	Connector Type	TK3BMW-NS10
							
Terminal No.	8	Terminal No.	113	Terminal No.	1	Terminal No.	2
Color of Wire	L	Color of Wire	P	Color of Wire	L	Color of Wire	W
Signal Name [Specification]	CAN-H	Signal Name [Specification]	VEHCAN-L1	Signal Name [Specification]	-	Signal Name [Specification]	Signal Name [Specification]
	CAN-L		VEHCAN-H1		-		-
	CAN-L		VEHCAN-H1		-		-


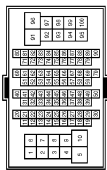


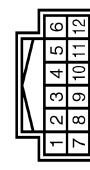

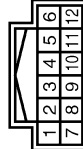


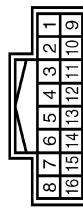
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WCS

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

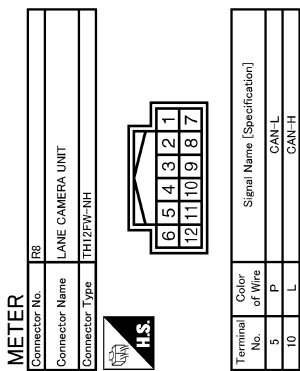
Connector No.	M117	Connector No.	M122	Connector No.	M123	Connector No.	M125
Connector Name	WIRE TO WIRE	BCM (BODY CONTROL MODULE)	BCM (BODY CONTROL MODULE)	BCM (BODY CONTROL MODULE)	CAN GATEWAY		
Connector Type	TH80WV-CS1(F-TM4)	TH4GF-B-NH	TH4GF-G-NH	TH12FW-NH			
							
Terminal No.	47	90	141	1			
Color of Wire	L	P	G	L			
Signal Name [Specification]	- [With ICC] - [With ICC]	CAN-L CAN-H	SECURITY INDICATOR OUTPUT	Signal Name [Specification]			
Terminal No.	48	91		4			
Color of Wire	P	L		L			
Signal Name [Specification]				CAN-H			
Terminal No.				6			
Color of Wire				L			
Signal Name [Specification]				CAN-H			
Terminal No.				7			
Color of Wire				P			
Signal Name [Specification]				CAN-L			
Terminal No.				10			
Color of Wire				P			
Signal Name [Specification]				CAN-L			
Terminal No.				12			
Color of Wire				P			
Signal Name [Specification]				CAN-L			
Connector No.	M137	Connector No.	M147	Connector No.	M160		
Connector Name	A/T SHIFT SELECTOR	AIR BAG DIAGNOSIS SENSOR UNIT	ECM (WITH YK ENGINE)	WIRE TO WIRE			
Connector Type	TH12FW-NH	TK2BFY-EX-SC	RH24FY-R28-R-LH-Z	TH16FW-NH			
							
Terminal No.	1	20	128	8			
Color of Wire	W	17	124	7			
Signal Name [Specification]	-	49	120	6			
Terminal No.	2	22	123	5			
Color of Wire	V	11	119	4			
Signal Name [Specification]	-	3	115	3			
Terminal No.	3	16	122	2			
Color of Wire	L	12	118	1			
Signal Name [Specification]	-	5	114				
Terminal No.	4	19	121				
Color of Wire	B	15	117				
Signal Name [Specification]	-	14	113				
Terminal No.	5	24	106				
Color of Wire	G	G	L				
Signal Name [Specification]	-	AIR BAG W/L SEAT BELT	VEHCAN-L VEHCAN-H				

JCNWM1004GB

UNIFIED METER AND A/C AMP.

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WCS

JCNWM1005GB

Fail-Safe

FAIL-SAFE

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

INFOID:000000003940352

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Function	Specifications	
Speedometer	Reset to zero by suspending communication.	
Tachometer		
Fuel gauge		
Engine coolant 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	ABS warning lamp	The lamp turns on by suspending communication.
	VDC OFF indicator lamp	
	SLIP indicator lamp	
	Brake warning lamp	
	CRUISE warning lamp	
	IBA OFF indicator lamp	
	AWD warning lamp	
	Low tire pressure warning lamp	
	RAS warning lamp	
	Master warning lamp	
	AFS OFF indicator lamp	The lamp blinking caused by communication malfunction
	High beam indicator	The lamp turns off by suspending communication.
	Turn signal indicator lamp	
	Tail lamp indicator lamp	
	Oil pressure warning lamp	
	Malfunction indicator lamp	
	A/T CHECK warning lamp	
	Key warning lamp	
	Lane departure warning lamp	
LDP ON indicator lamp		
Sports mode indicator lamp		

DTC Index

INFOID:000000003940353

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-49
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-50
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-51
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-53
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-55

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT-III	Time	Diagnostic item is detected when ...	Refer to
ENGINE SPEED [B2267]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-56
WATER TEMP [B2268]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-57

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000004113586

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	E
	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	H
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	J
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 Intelligent Key is not pressed	Off	L
	LOCK button of the Intelligent Key is pressed	On	
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off	M
	UNLOCK button of the Intelligent Key is pressed	On	
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off	WCS
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off	O
	PANIC button of the Intelligent Key is pressed	On	
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off	P
	UNLOCK button of the Intelligent Key is pressed and held	On	
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off	P
	LOCK/UNLOCK button of the Intelligent 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
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
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
ENGINE STATE	Engine stopped	Stop	A
	While the engine stalls	Stall	
	At engine cranking	Crank	B
	Engine running	Run	
S/L LOCK-IPDM	Steering is unlocked	Off	
	Steering is locked	On	C
S/L UNLK-IPDM	Steering is locked	Off	
	Steering is unlocked	On	D
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off	
	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On	E
VEH SPEED 1	While driving	Equivalent to speedometer reading	F
VEH SPEED 2	While driving	Equivalent to speedometer reading	
DOOR STAT-DR	Driver door is locked	LOCK	G
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	H
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door is unlocked	UNLOCK	
ID OK FLAG	Steering is locked	Reset	I
	Steering is unlocked	Set	
PRMT ENG STRT	The engine start is prohibited	Reset	J
	The engine start is permitted	Set	
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset	K
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off	
	The Intelligent Key is inserted into key slot	On	L
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key	
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—	M
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by 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 is not recognized by the fourth key ID registered to BCM.	Yet	O
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done	
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet	P
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done	
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet	
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done	

BCM (BODY CONTROL MODULE)

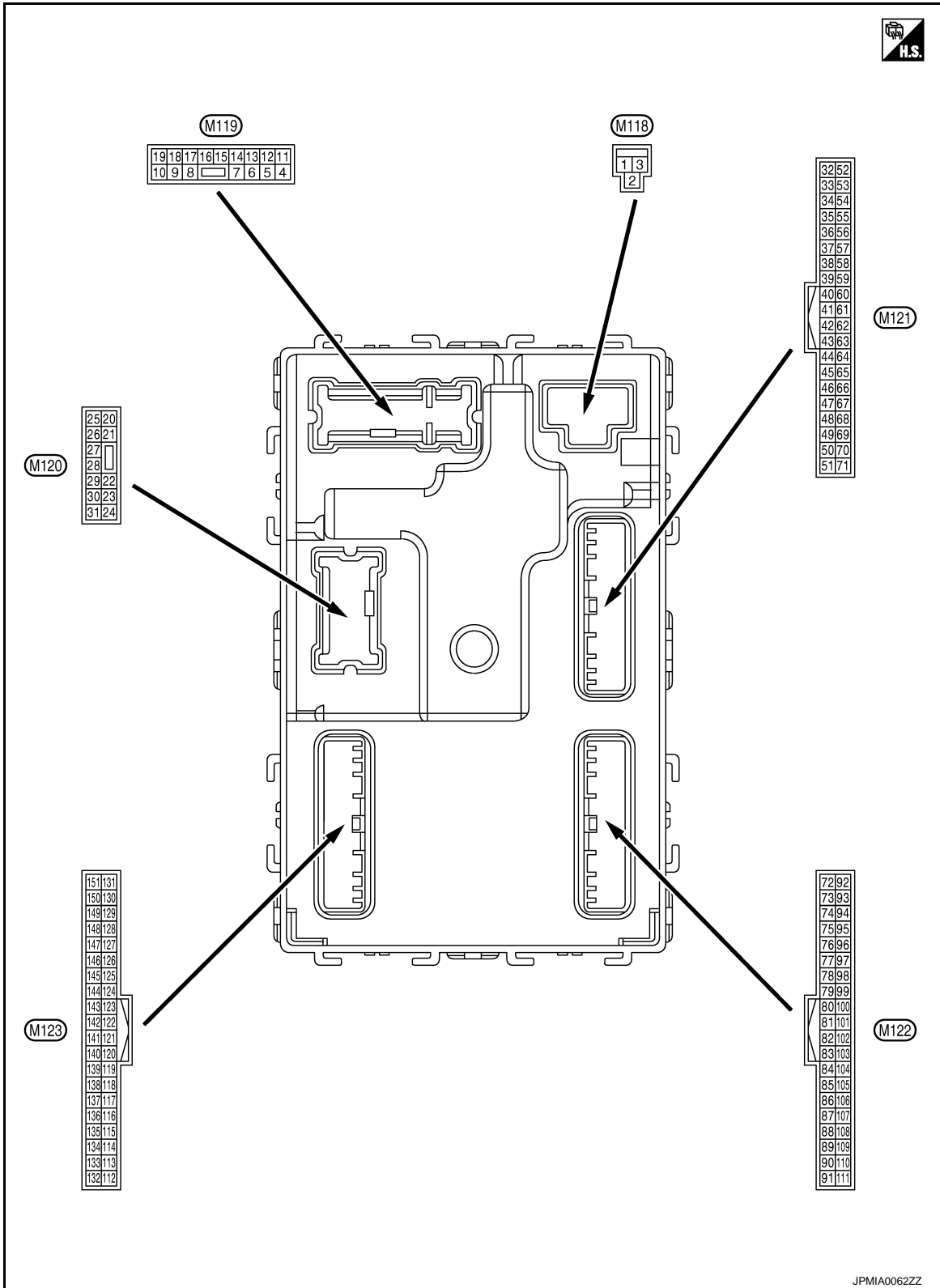
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



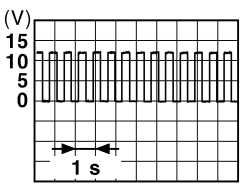
PHYSICAL VALUES

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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		12 V
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V
4 (P)	Ground	Interior room lamp power supply (Battery saver signal)	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)		12 V
5 (V)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
7 (Y)	Ground	Step lamp	Output	Step lamp	ON	0 V
					OFF	12 V
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	12 V
					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)	12 V
					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
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC or ON	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 <p style="text-align: center;">6.5 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	0 V
				Turn signal switch OFF	6.5 V
19 (SB)	Ground	Room lamp timer	Output	Other than under condition	5.0 V
				<ul style="list-style-type: none"> Interior room lamp timer is activated. (Door is unlocked. etc...) Welcome light function is activated. 	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	0 V
				Turn signal switch OFF	6.5 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	0 V
				Turn signal switch OFF	6.5 V
26 (G)	Ground	Rear wiper	Output	Rear wiper	0 V
				OFF (Stopped)	12 V
34 (SB)	Ground	Luggage room anten- na (-)	Output	Ignition switch OFF	0 V
				When Intelligent Key is in the passenger compart- ment	12 V

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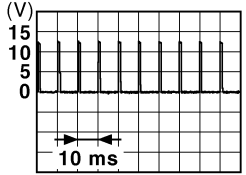
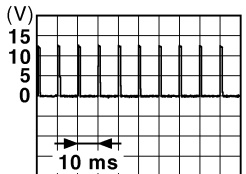
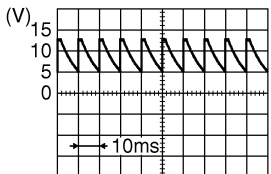
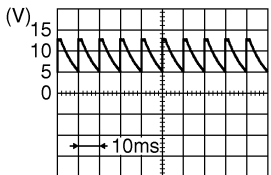
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
35 (V)	Ground	Luggage room antenna (+)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>	
				When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>	
38 (B)	Ground	Back door antenna (-)	Output	When the back door opener request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>	
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>	
39 (W)	Ground	Back door antenna (+)	Output	When the back door opener request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>	
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>	
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V
				ON	0 V	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

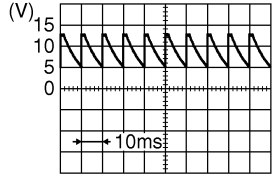
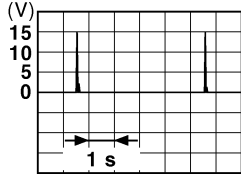
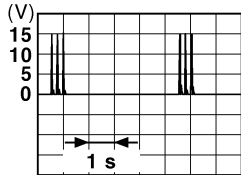
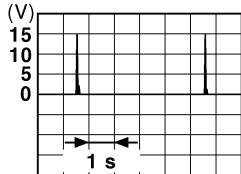
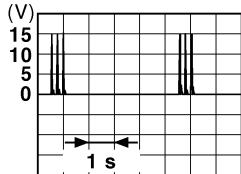
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
48 (W)	Ground	Back door opener switch operation	Output	Back door opener switch	Not pressed 12 V
				Pressed 0 V	
52 (LG)	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position 12 V
					When selector lever is not in P or N position 0 V
61 (W)	Ground	Back door opener re- quest switch	Input	Back door re- quest switch	ON (Pressed) 0 V
					OFF (Not pressed)  1.0 V
64 (L)	Ground	Intelligent Key warn- ing buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding 0 V
					Not sounding 12 V
65 (O)	Ground	Rear wiper stop posi- tion	Input	Rear wiper	In stop position  1.0 V
					Not in stop position 0 V
66 (LG)	Ground	Back door switch	Input	Back door switch	OFF (Door close) 12 V
					ON (Door open) 0 V
67 (P)	Ground	Back door opener switch	Input	Back door opener switch	Pressed 0 V
					Not pressed  8.5 - 9.0 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)  8.5 - 9.0 V
					ON (Door open) 0 V

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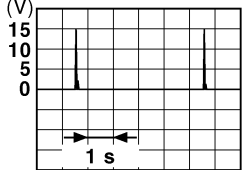
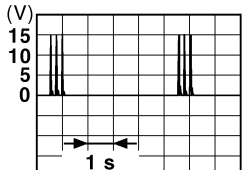
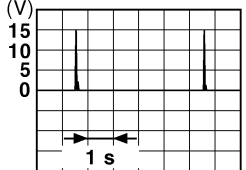
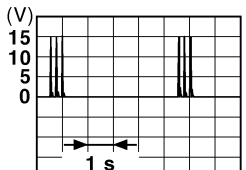
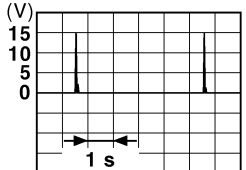
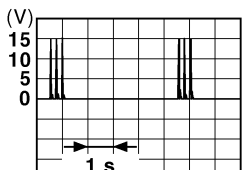
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	 <p style="text-align: right; font-size: small;">JPMIA0594GB</p> <p style="text-align: center;">8.5 - 9.0 V</p>
				OFF (Door close)	ON (Door open)
72 (R)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	<p>When Intelligent Key is in the passenger compartment</p>  <p style="text-align: right; font-size: small;">JMkia0062GB</p>
				Ignition switch OFF	<p>When Intelligent Key is not in the passenger compartment</p>  <p style="text-align: right; font-size: small;">JMkia0063GB</p>
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	<p>When Intelligent Key is in the passenger compartment</p>  <p style="text-align: right; font-size: small;">JMkia0062GB</p>
				Ignition switch OFF	<p>When Intelligent Key is not in the passenger compartment</p>  <p style="text-align: right; font-size: small;">JMkia0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

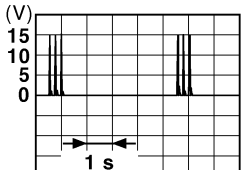
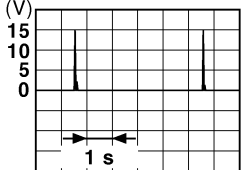
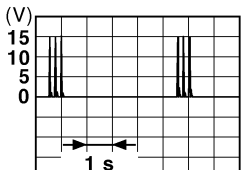
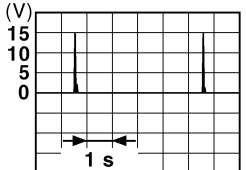
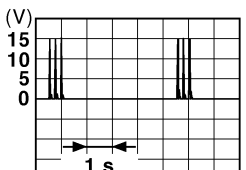
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
74 (SB)	Ground	Passenger door antenna (-)	Output	When Intelligent Key is in the antenna detection area	 <small>JMKIA0062GB</small>
				When the passenger door request switch is operated with ignition switch OFF	 <small>JMKIA0063GB</small>
75 (BR)	Ground	Passenger door antenna (+)	Output	When Intelligent Key is in the antenna detection area	 <small>JMKIA0062GB</small>
				When the passenger door request switch is operated with ignition switch OFF	 <small>JMKIA0063GB</small>
76 (V)	Ground	Driver door antenna (-)	Output	When Intelligent Key is in the antenna detection area	 <small>JMKIA0062GB</small>
				When the driver door request switch is operated with ignition switch OFF	 <small>JMKIA0063GB</small>

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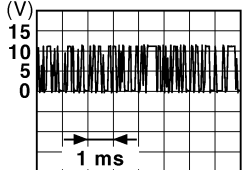
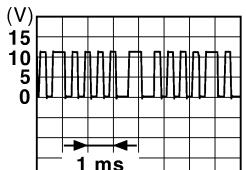
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
77 (LG)	Ground	Driver door antenna (+)	Output		
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output	When Intelligent Key is in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	When Intelligent Key is in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

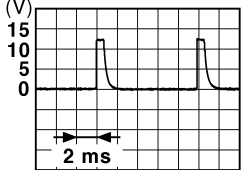

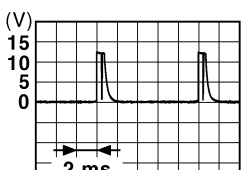
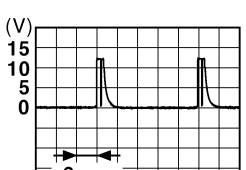
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (P)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
83 (GR)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		 <p style="text-align: right; font-size: small;">JMKIA0064GB</p>
				When operating either button on the Intelligent Key		 <p style="text-align: right; font-size: small;">JMKIA0065GB</p>

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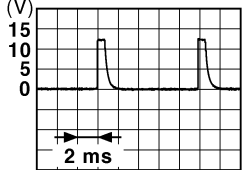
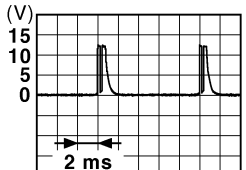
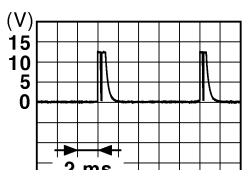
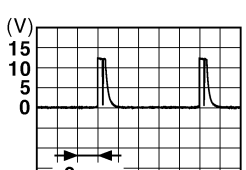

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Rear wiper switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the conditions below with all switches OFF	 <p style="text-align: right; margin-right: 50px;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

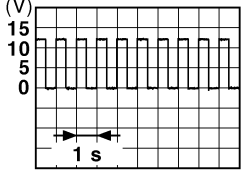
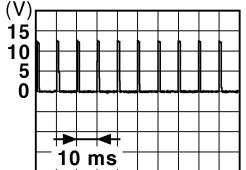
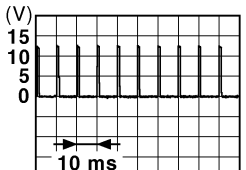
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <p style="text-align: right;">1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>
					Rear washer switch ON (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>
					Any of the conditions below with all switches OFF	 <p style="text-align: right;">1.3 V</p>
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 	
89 (SB)	Ground	Push-button ignition switch (Push switch)	Input	Push-button igni- tion switch (Push switch)	Pressed Not pressed	0 V 12 V
90 (P)	Ground	CAN-L	Input/ Output	—	—	—
91 (L)	Ground	CAN-H	Input/ Output	—	—	—

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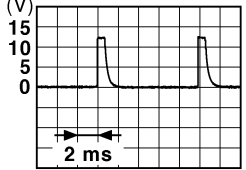
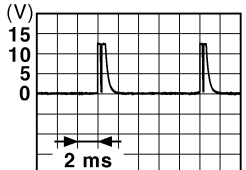

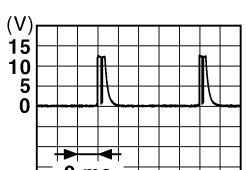

BCM (BODY CONTROL MODULE)

< 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	12 V	
					Blinking	 <p style="text-align: right; font-size: small;">JPMA0015GB</p>	6.5 V
					ON	0 V	
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
					ON or ACC	0 V	
95 (O)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V	
					ACC or ON	12 V	
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	—	12 V		
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V	
					UNLOCK status	12 V	
98 (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	12 V	
					UNLOCK status	0 V	
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V	
					Any position other than P	12 V	
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V	
					OFF (Not pressed)	 <p style="text-align: right; font-size: small;">JPMA0016GB</p>	1.0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V	
					OFF (Not pressed)	 <p style="text-align: right; font-size: small;">JPMA0016GB</p>	1.0 V
102 (O)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V	
					ON	12 V	
103 (BR)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF	12 V		

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

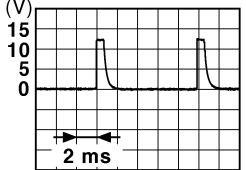
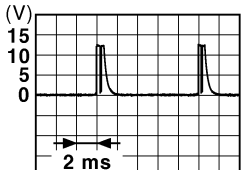
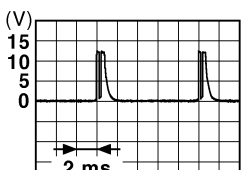
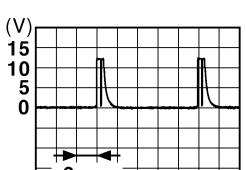
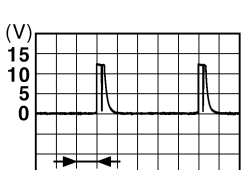
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	 1.4 V
					Turn signal switch LH	 1.3 V
					Turn signal switch RH	 1.3 V
					Front wiper switch LO	 1.3 V
					Front washer switch ON	 1.3 V

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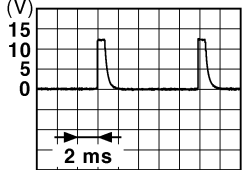
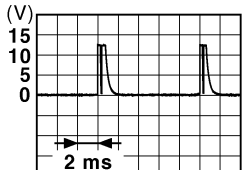

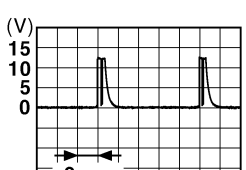

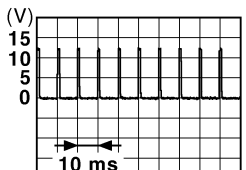
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch AUTO (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 1ST (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Rear wiper switch INT (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the conditions below with all switches OFF	 <p style="text-align: right; font-size: small;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

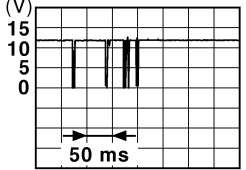
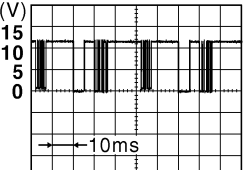
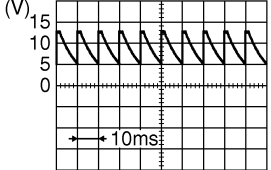
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	 1.4 V
					Lighting switch PASS	 1.3 V
					Lighting switch 2ND	 1.3 V
					Front wiper switch INT	 1.3 V
					Front wiper switch HI	 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	 1.1 V

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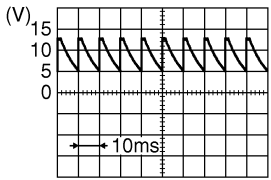
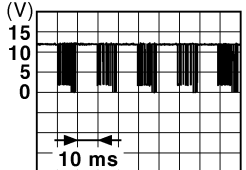
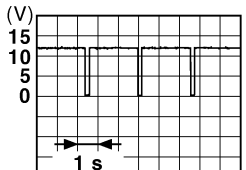
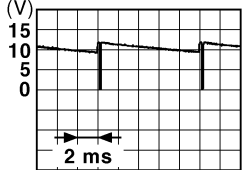
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
111 (GR)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	12 V
					LOCK or UNLOCK	 <p style="text-align: right; font-size: small;">JMKIA0066GB</p>
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
112 (GR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		 <p style="text-align: right; font-size: small;">JPMIA0156GB</p>
						8.7 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 (BR)	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 de- pressed)	Battery voltage
		Stop lamp switch 2 (With ICC)		Stop lamp switch OFF (Brake pedal is not de- pressed) and ICC brake hold relay OFF	0 V	
				Stop lamp switch ON (Brake pedal is de- pressed) or ICC brake hold relay ON	Battery voltage	
119 (SB)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 <p style="text-align: right; font-size: small;">JPMIA0594GB</p>
						8.5 - 9.0 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121 (BR)	Ground	Key slot switch	Input	When the Intelligent Key is inserted into key slot		12 V
				When the Intelligent Key is not inserted into key slot		0 V
122 (V)	Ground	ACC feedback	Input	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

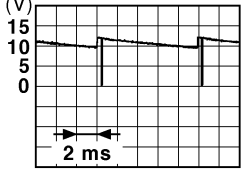
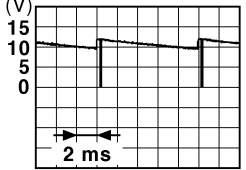
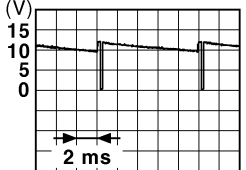
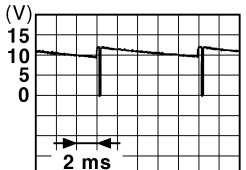
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 8.5 - 9.0 V
					ON (Door opene)	0 V
132 (O)	Ground	Power window switch communication	Input/ Output	Ignition switch ON	 10.2 V	
				Ignition switch OFF or ACC	12 V	
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
				ON	0 V	
137 (B)	Ground	Receiver and sensor ground	Input	Ignition switch ON	0 V	
138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF	0 V
				ACC or ON	5.0 V	
140 (R)	Ground	Selector lever P/N position	Input	Selector lever	P or N position	12 V
				Except P and N positions	0 V	
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	 11.3 V
				OFF	12 V	
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Lighting switch 1ST	 10.7 V
					Lighting switch HI	
					Lighting switch 2ND	
Turn signal switch RH						

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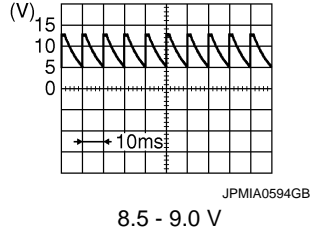
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
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 	
10.7 V						
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)	
					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	
<ul style="list-style-type: none"> • 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 intermit- tent dial 4)	All switches OFF	0 V
					Front wiper switch INT	
					Front wiper switch LO	
					Lighting switch AUTO	
10.7 V						
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V
					Front fog lamp switch ON	
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	
10.7 V						

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	<div style="text-align: center;">  <p style="text-align: center;">8.5 - 9.0 V</p> </div>
				ON (Door open)	0 V	
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active	0 V
				Not activated	Battery voltage	

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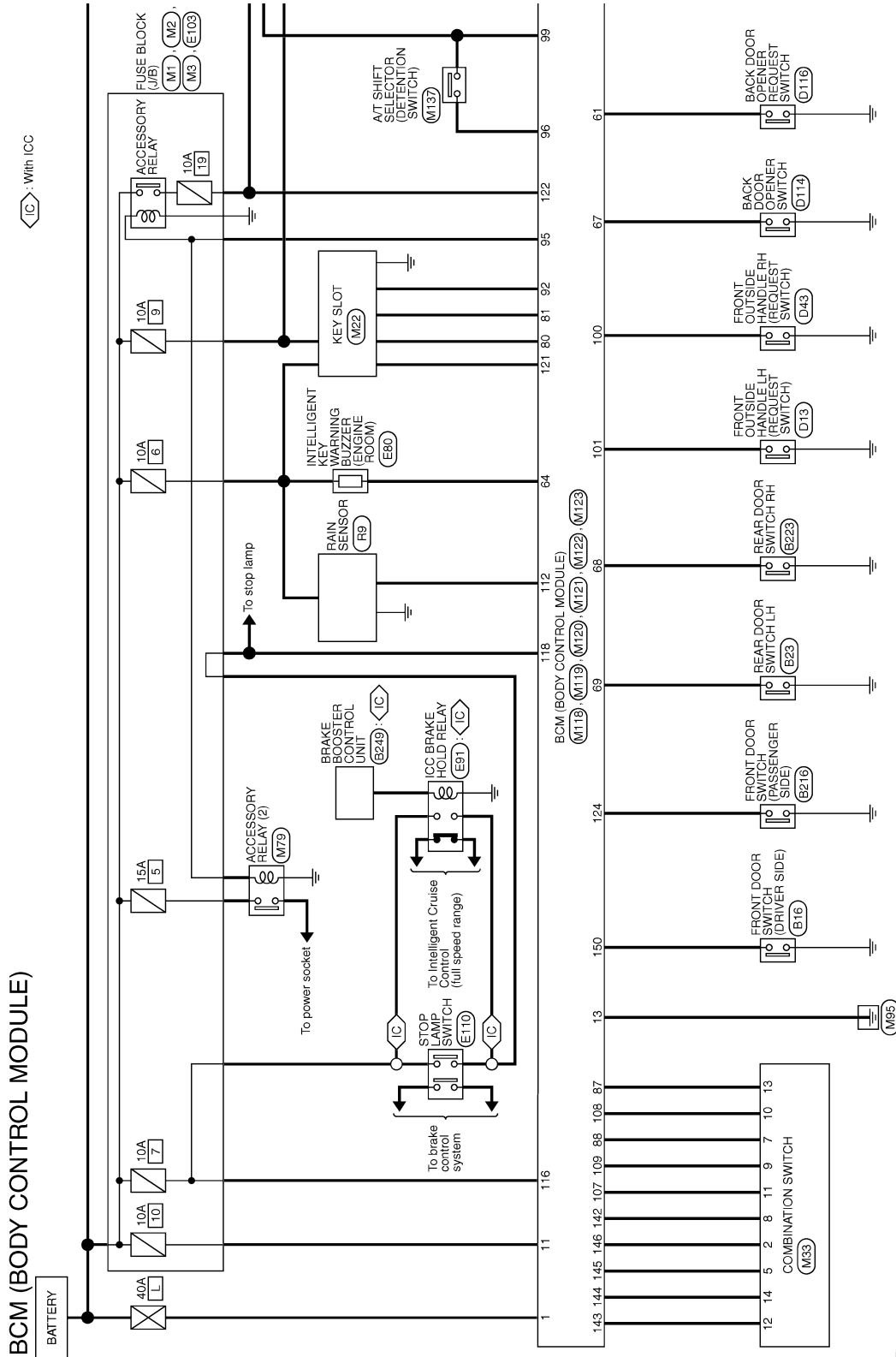
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

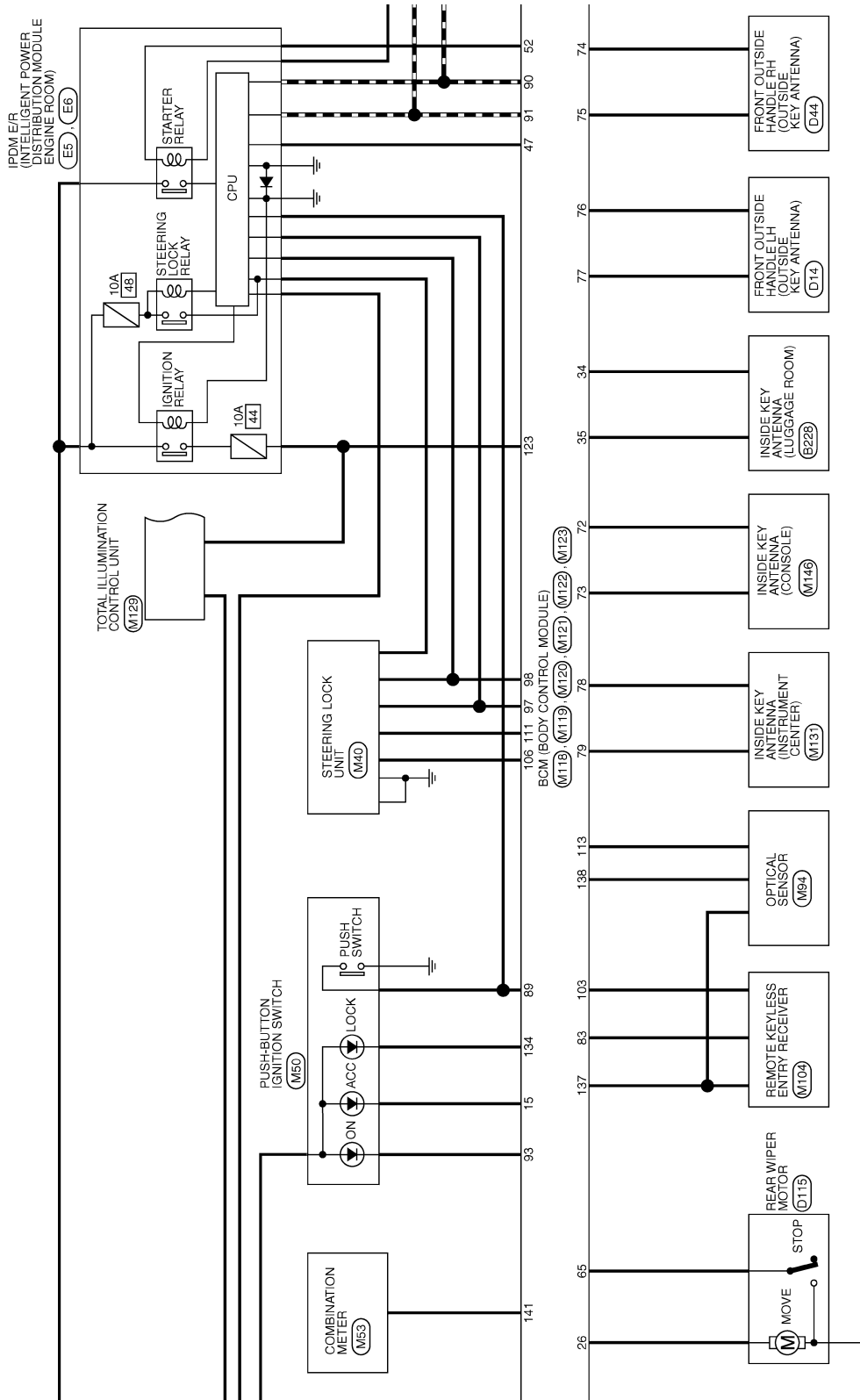
Wiring Diagram - BCM -

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JCMWM1991GB

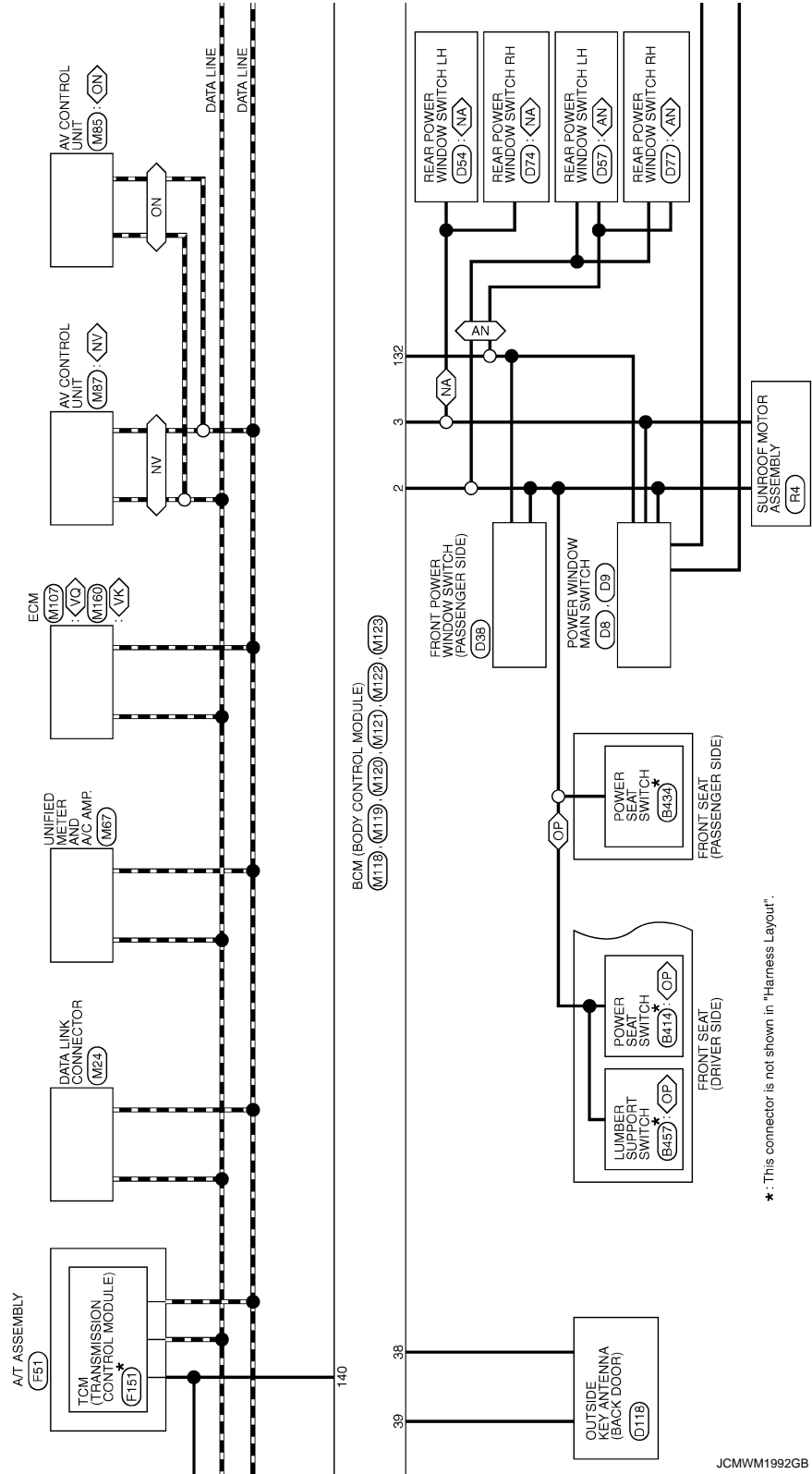
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

- <VO> : With VC engine
- <VK> : With VK engine
- <NV> : With NAVI
- <ON> : Without NAVI
- <OP> : Without automatic drive positioner
- <AN> : With rear anti-pinch system
- <NA> : Without rear anti-pinch system

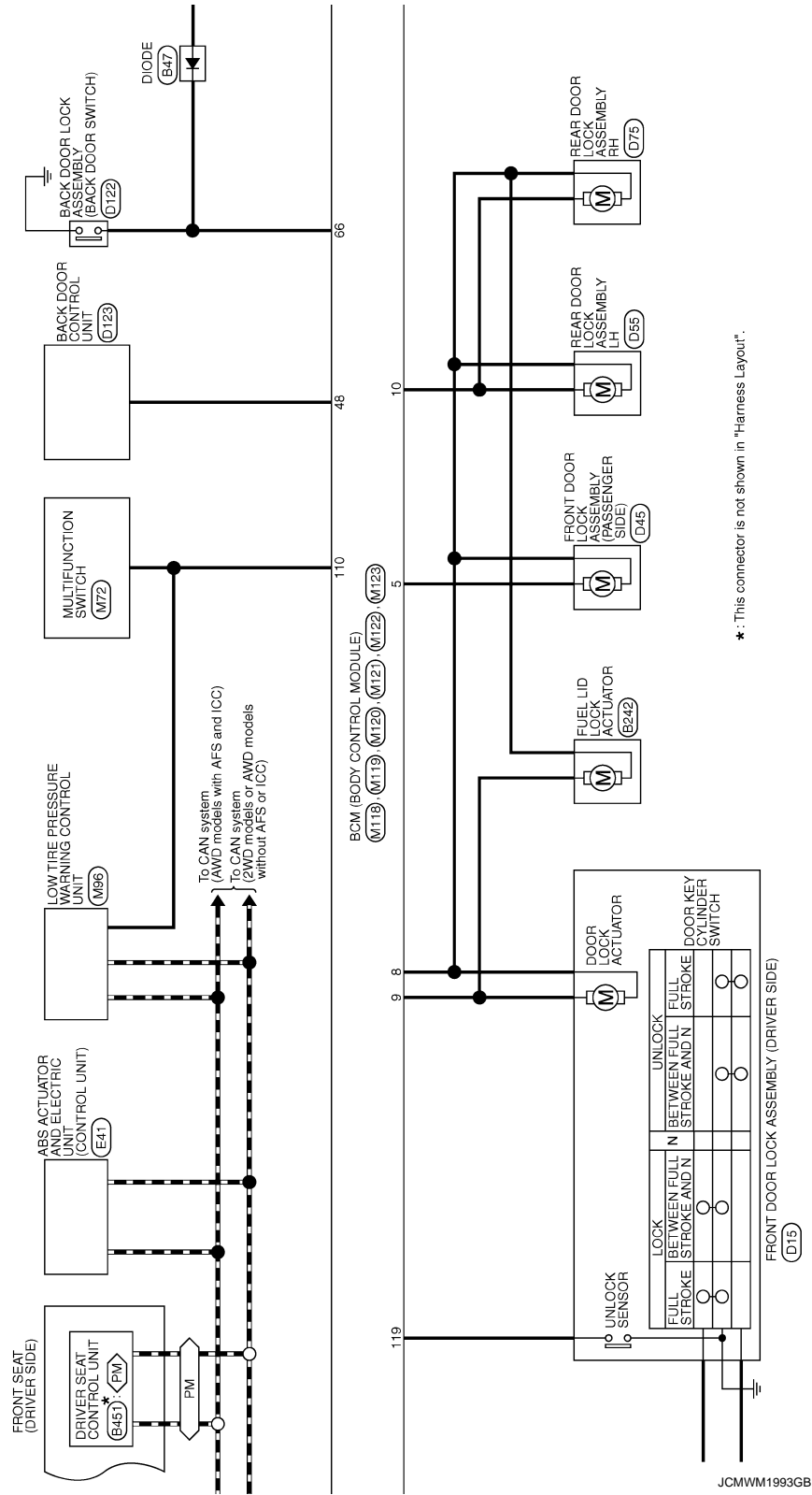


JCMWM1992GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

◁ FX ▷ : With automatic drive positioner

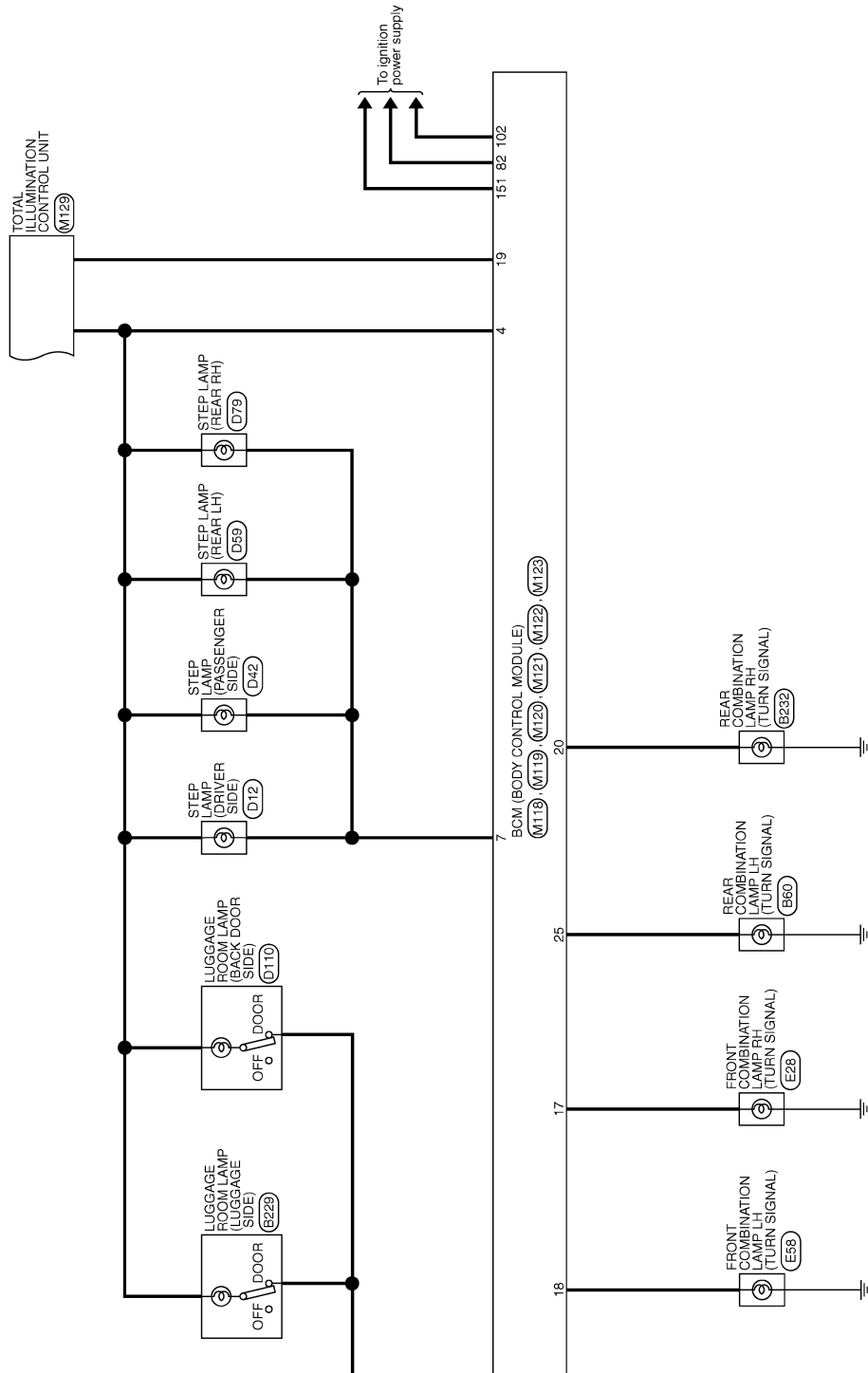


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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JCMWM1994GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

19	SB	ROOM LAMP TIMER
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Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY(BAT SAVE)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT.(FUSE)
13	B	GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	O	TURN SIGNAL LH (FRONT)

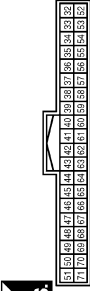
67	P	BACK DOOR OPENER SW
68	BR	REAR RH DOOR SW
69	R	REAR LH DOOR SW

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT.(F/L)
2	Y	POWER WINDOW POWER SUPPLY(BAT)
3	O	POWER WINDOW POWER SUPPLY(RAP)

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
34	SB	LUGGAGE ROOM ANT-
35	V	LUGGAGE ROOM ANT+
38	B	BACK DOOR ANT-
39	W	BACK DOOR ANT+
47	Y	IGN RELAY (PDM E./R) CONT
48	W	BK DOOR OPENER SW OPERATION
52	LG	STARTER RELAY CONT
61	W	BACK DOOR OPENER REQUEST SW
64	L	L-KEY WARN BUZZER (ENG ROOM)
65	O	REAR WIPER STOP POSITION
66	LG	BACK DOOR SW

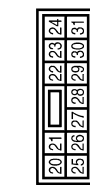
BCM (BODY CONTROL MODULE)

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	OUTPUT 4
3	L	OUTPUT 3
7	V	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

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
25	G	TURN SIGNAL LH (REAR)
26	G	REAR WIPER OUTPUT

JCMWM1995GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

137	B	RECEIVER/SENSOR GND
138	Y	SENSOR POWER SUPPLY
140	R	SHIFT N/P
141	G	SECURITY INDICATOR OUTPUT
142	O	COMBI SW OUTPUT 3
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
112	GR	RAIN SENSOR SERIAL LINK
113	P	OPTICAL SENSOR
116	BR	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
122	V	ACC F/B
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	O	POWER WINDOW SW COMM
134	GR	LOCK IND

83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
89	SB	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	O	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	P	S/L CONDITION 2
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	GR	S/L UNIT COMM

BCM (BODY CONTROL MODULE)

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	IMMOBI ANTENNA CONTROL
81	W	IMMOBI ANTENNA SIGNAL
82	P	IGN RELAY (F/B) CONT

JCMWM1996GB

Fail-safe

INFOID:000000005176867

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	A
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC	A
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	B
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	B
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	C
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	C
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	D
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF	D
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms	E
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 	E
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) 	F
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 	G
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) 	H
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 	I
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 <ul style="list-style-type: none"> - 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 	J
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) 	K

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BCM (BODY CONTROL MODULE)

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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.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF ⇒ ON and front wiper switch is INT position, BCM operates a fail-safe control.

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.

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2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

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DTC Inspection Priority Chart

INFOID:000000004113589

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

B

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> • U1000: CAN COMM • U1010: CONTROL UNIT (CAN)
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
4	<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 • U0415: VEHICLE SPEED SIG
5	<ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA
6	B26E7: TPMS CAN COMM

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NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [BCS-16. "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)".](#)

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BCM (BODY CONTROL MODULE)

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
No DTC is detected. Further testing may be required.	—	—	—	—
U1000: CAN COMM	—	—	—	BCS-34
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-35
U0415: VEHICLE SPEED SIG	—	—	—	BCS-36
B2013: ID DISCORD BCM-S/L	×	×	—	SEC-50
B2014: CHAIN OF S/L-BCM	×	×	—	SEC-51
B2190: NATS ANTENNA AMP	×	—	—	SEC-42
B2191: DIFFERENCE OF KEY	×	—	—	SEC-45
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-46
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-48
B2195: ANTI SCANNING	×	—	—	SEC-49
B2553: IGNITION RELAY	—	×	—	PCS-50
B2555: STOP LAMP	—	×	—	SEC-54
B2556: PUSH-BTN IGN SW	—	×	×	SEC-56
B2557: VEHICLE SPEED	×	×	×	SEC-58
B2560: STARTER CONT RELAY	×	×	×	SEC-59
B2562: LOW VOLTAGE	—	×	—	BCS-37
B2601: SHIFT POSITION	×	×	×	SEC-60
B2602: SHIFT POSITION	×	×	×	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	SEC-65
B2604: PNP SW	×	×	×	SEC-68
B2605: PNP SW	×	×	×	SEC-70
B2606: S/L RELAY	×	×	×	SEC-72
B2607: S/L RELAY	×	×	×	SEC-73
B2608: STARTER RELAY	×	×	×	SEC-75
B2609: S/L STATUS	×	×	×	SEC-77
B260A: IGNITION RELAY	×	×	×	PCS-52
B260B: STEERING LOCK UNIT	—	×	×	SEC-81
B260C: STEERING LOCK UNIT	—	×	×	SEC-82
B260D: STEERING LOCK UNIT	—	×	×	SEC-83
B260F: ENG STATE SIG LOST	×	×	×	SEC-84
B2612: S/L STATUS	×	×	×	SEC-88
B2614: ACC RELAY CIRC	—	×	×	PCS-54
B2615: BLOWER RELAY CIRC	—	×	×	PCS-56
B2616: IGN RELAY CIRC	—	×	×	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	SEC-92
B2618: BCM	×	×	×	PCS-60
B2619: BCM	×	×	×	SEC-94
B261A: PUSH-BTN IGN SW	—	×	×	SEC-95
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-98

BCM (BODY CONTROL MODULE)

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page	A
B2621: INSIDE ANTENNA	—	×	—	DLK-61	B
B2622: INSIDE ANTENNA	—	×	—	DLK-63	C
B2623: INSIDE ANTENNA	—	×	—	DLK-65	D
B26E7: TPMS CAN COMM	—	—	—	BCS-38	E
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-86	F
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	SEC-87	G

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

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SYMPTOM DIAGNOSIS

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

Description

INFOID:000000003887296

- 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 applied.

Diagnosis Procedure

INFOID:000000003887297

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 applied	: ON
Parking brake released	: OFF

Is the inspection result normal?

- YES >> Replace the 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 [BRC-103, "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-103, "Component Inspection"](#).

Is the inspection result normal?

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

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description

INFOID:000000003887298

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

Diagnosis Procedure

INFOID:000000003887299

1.CHECK COMBINATION SWITCH (LIGHT SWITCH) OPERATION

Check that the tail lamps operate normally by operating the combination switch (light switch).

Do they operate normally?

YES >> GO TO 2.

NO >> Refer to [EXL-194, "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-69, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

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THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

INFOID:000000003887300

- 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:000000003887301

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

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000003887302

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

WARNING:

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

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

WARNING:

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

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