

WCS

SECTION

WARNING CHIME SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

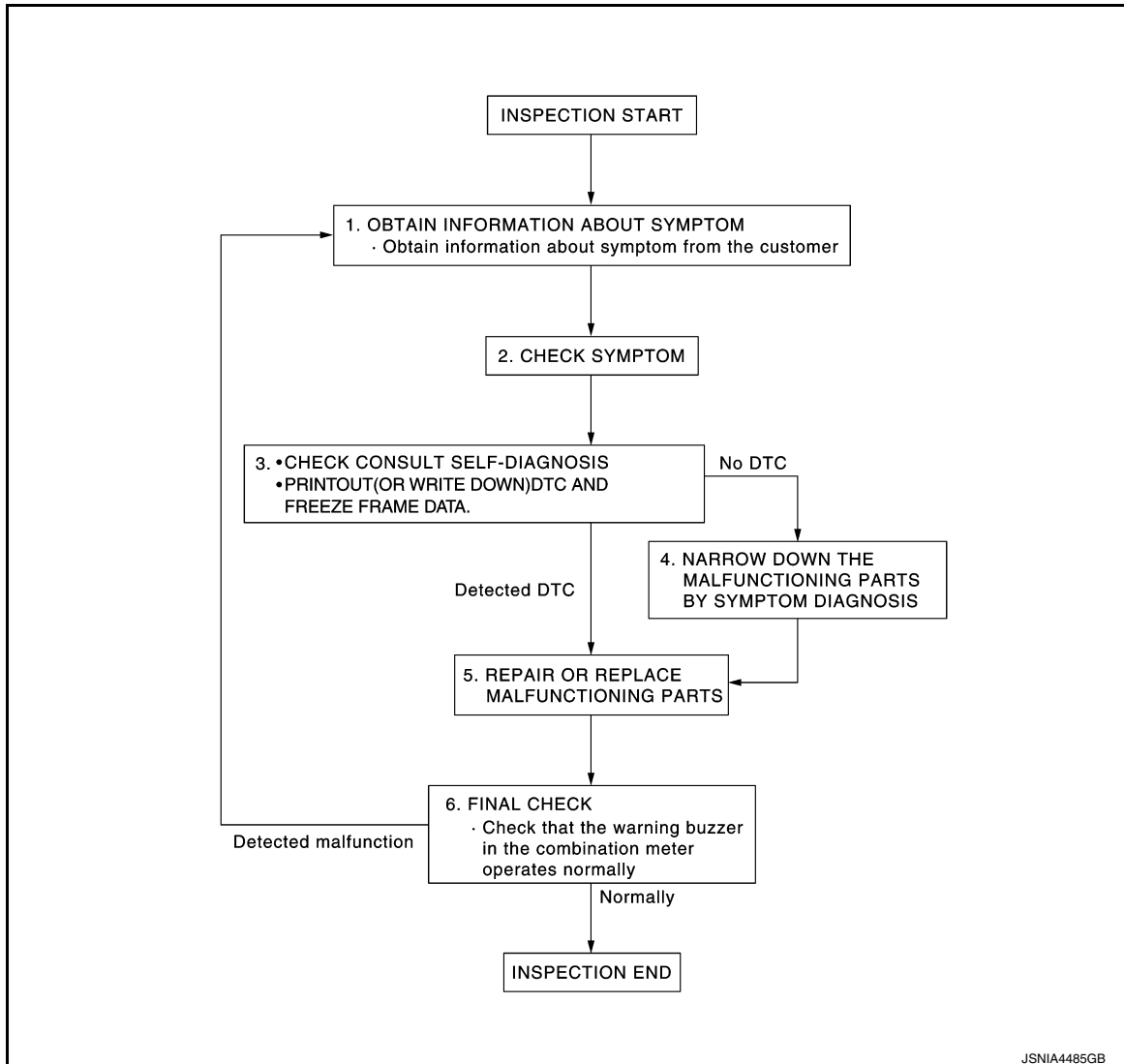
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000010576918

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 SELF-DIAGNOSIS RESULTS

1. Connect CONSULT and perform "Self Diagnostic Result". Refer to [MWI-117. "DTC Index"](#).

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

2. When DTC is detected, follow the instructions below:

- Record DTC and Freeze Frame Data.

Are self-diagnosis results normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

>> GO TO 5.

5. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

NOTE:

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

>> GO TO 6.

6. FINAL CHECK

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

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 1.

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

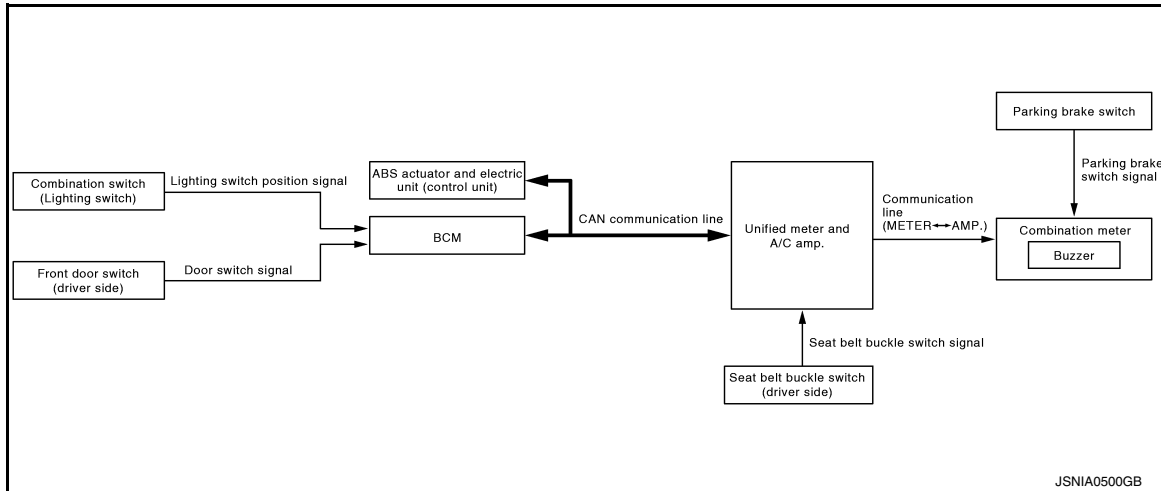
SYSTEM DESCRIPTION

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM : System Diagram

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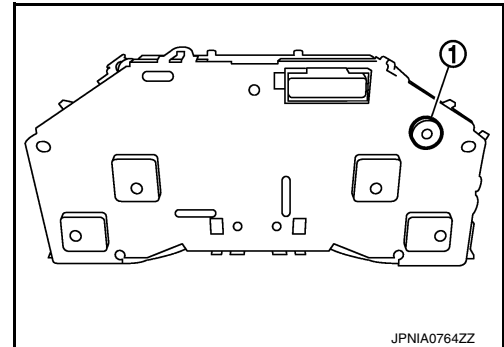
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WARNING CHIME SYSTEM : System Description

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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.



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

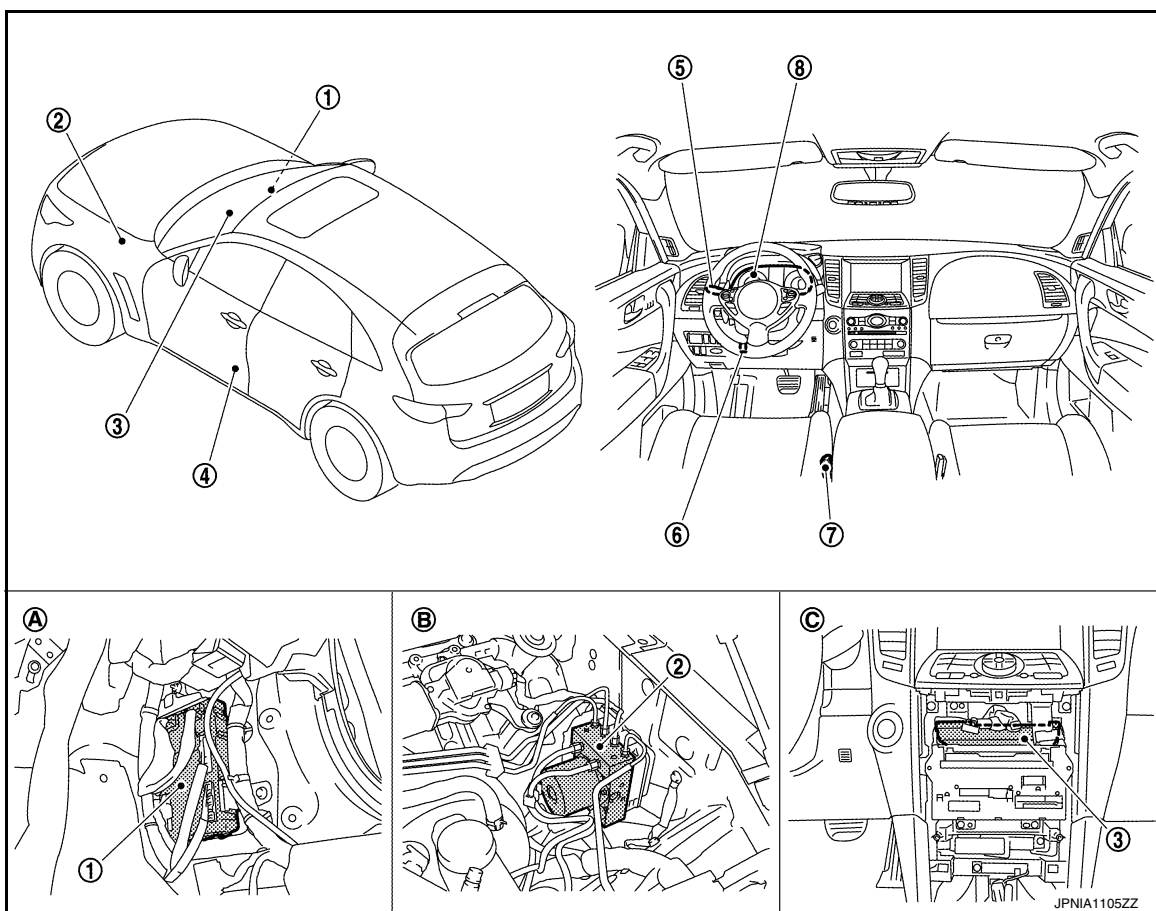
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

WARNING CHIME SYSTEM : 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 |

WARNING CHIME SYSTEM : Component Description

INFOID:0000000010576922

Unit	Description
Combination meter	- 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.	- 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 the seat belt buckle switch signal to the unified meter and A/C amp.

WARNING CHIME SYSTEM

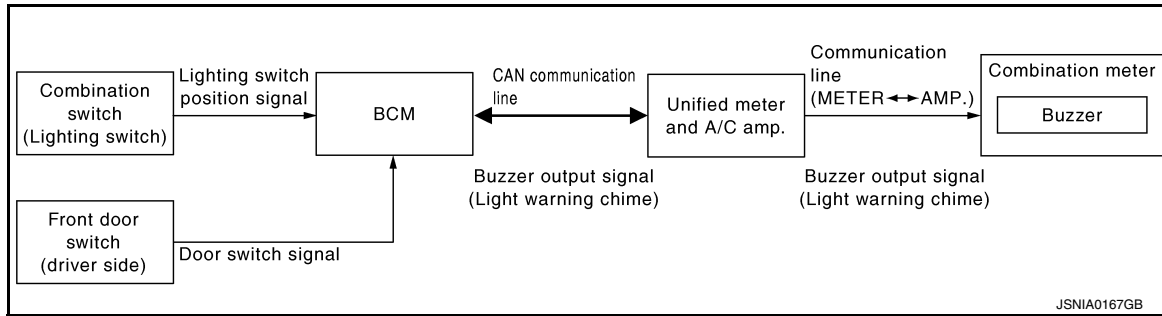
< SYSTEM DESCRIPTION >

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	Transmits the parking brake switch signal to the combination meter.

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME : System Diagram

INFOID:0000000010576923



LIGHT REMINDER WARNING CHIME : System Description

INFOID:0000000010576924

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

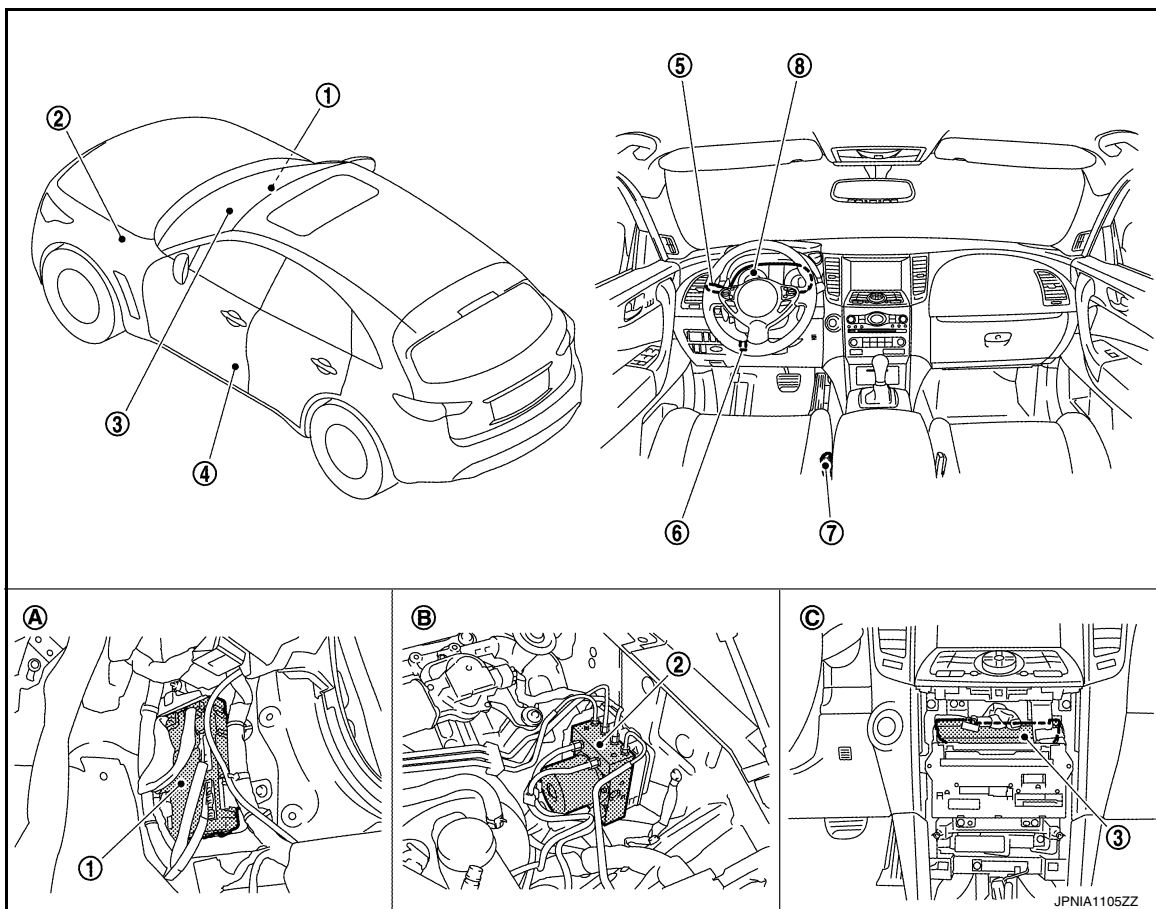
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

LIGHT REMINDER WARNING CHIME : Component Parts Location

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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:0000000010576926

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.

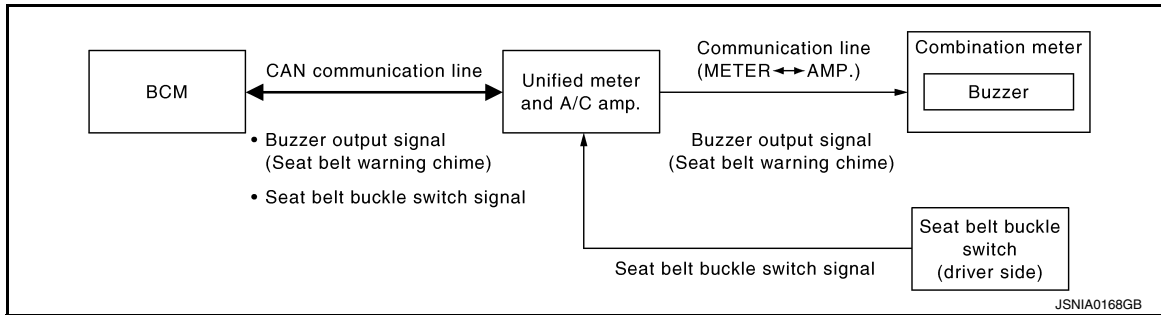
SEAT BELT WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : System Diagram

INFOID:0000000010576927



SEAT BELT WARNING CHIME : System Description

INFOID:0000000010576928

DESCRIPTION

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

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

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

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

WARNING CANCEL CONDITIONS

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

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

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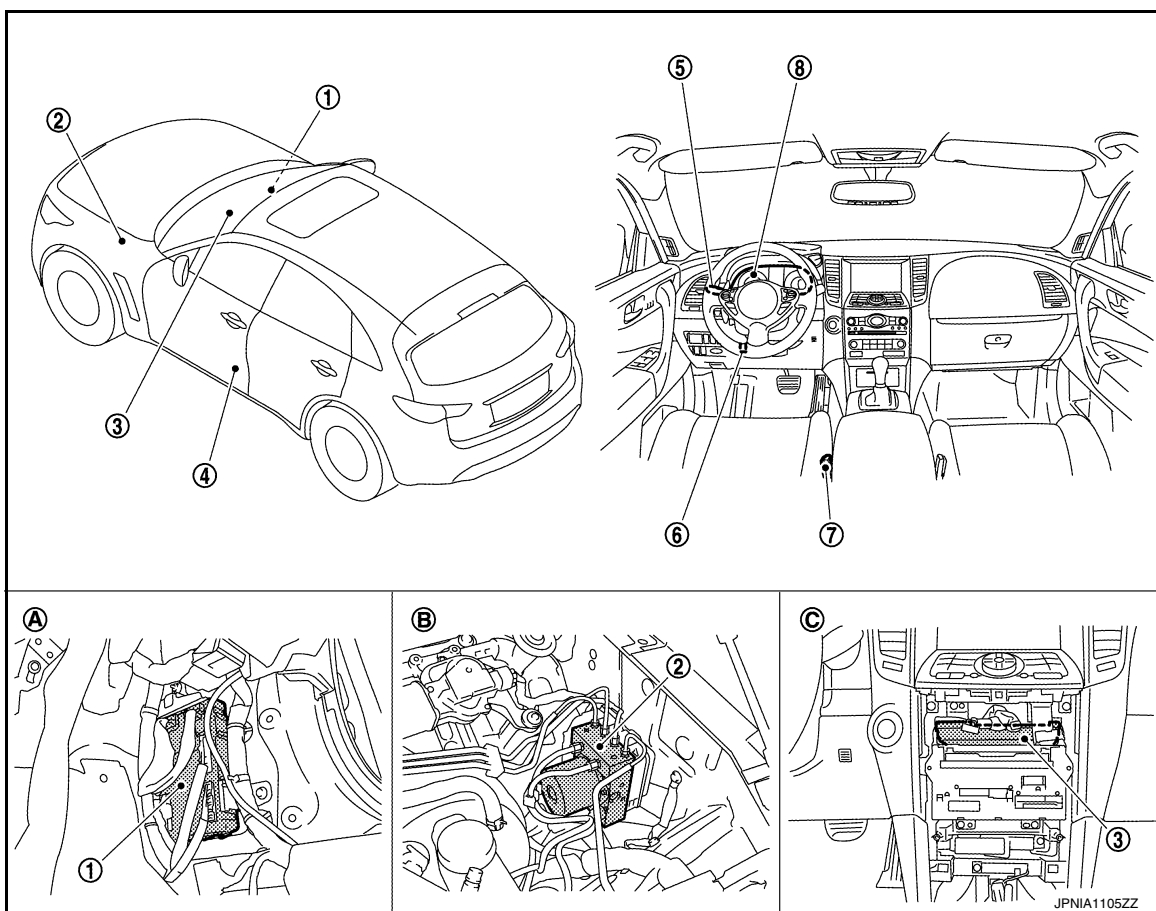
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : Component Parts Location

INFOID:0000000010576929



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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:0000000010576930

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 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" .

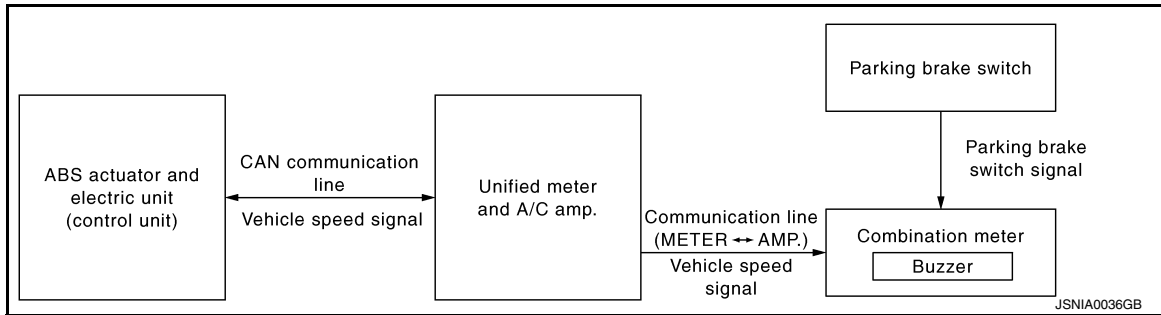
PARKING BRAKE RELEASE WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:0000000010576931



PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:0000000010576932

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

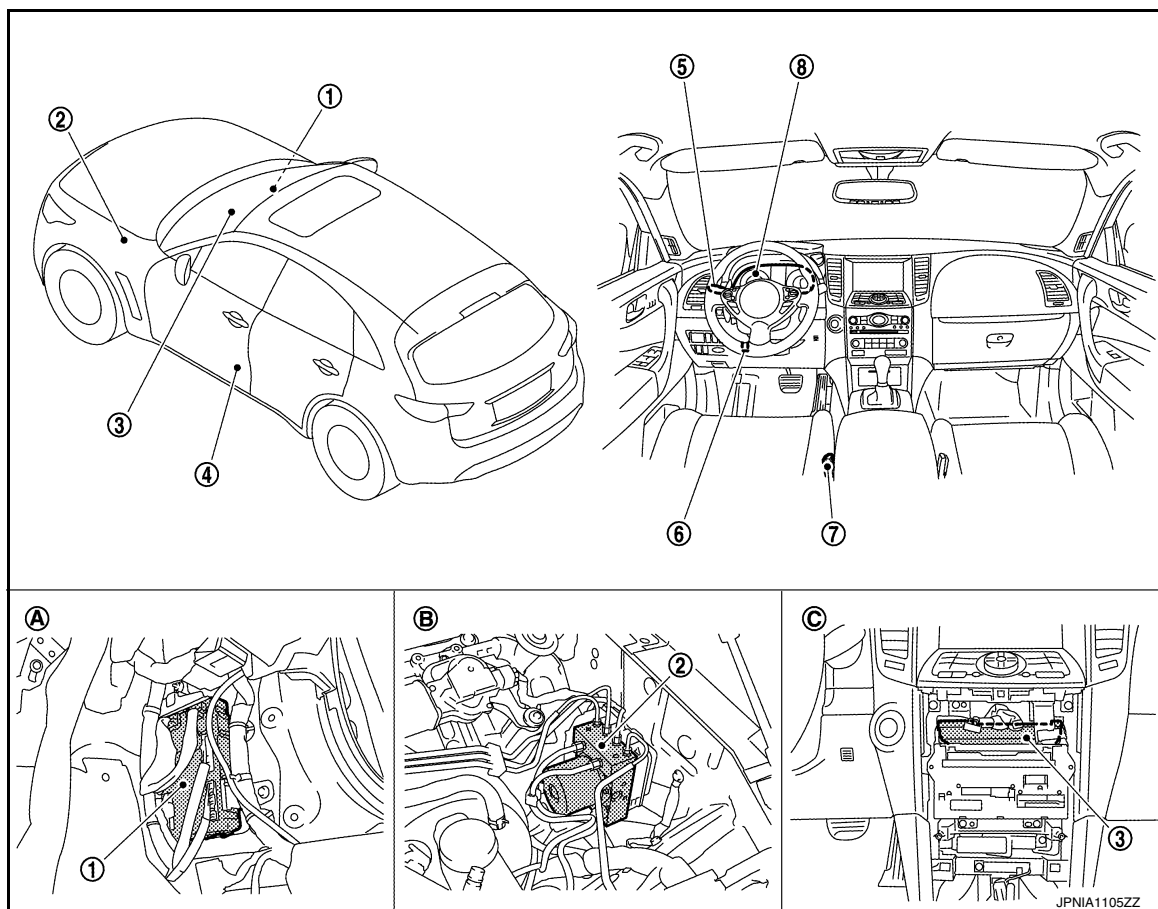
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WARNING CHIME SYSTEM

< 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:0000000010576934

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	Transmits the parking brake switch signal to the combination meter.

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

< SYSTEM DESCRIPTION >

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

CONSULT Function (METER/M&A)

INFOID:0000000011008598

CONSULT APPLICATION ITEMS

CONSULT 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-117, "DTC Index"](#).

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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.
FUEL CAP W/L [On/Off]		Status of fuel filler cap warning display detected from fuel filler cap warning display signal received from ECM via CAN communication.
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 VDC warning lamp judged from VDC warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.

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

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
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.
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]		Status of front fog indicator lamp judged from front fog light request signal received from BCM with CAN communication line.
RR FOG IND [Off]		This item is displayed, but cannot be monitored.
LIGHT IND [On/Off]		Status of tail lamp indicator lamp judged from position light request signal received from BCM with CAN communication line.
OIL W/L [On/Off]		Status of oil pressure warning lamp judged from oil pressure switch signal received from IPDM E/R with CAN communication line.
MIL [On/Off]		Status of malfunction indicator lamp judged from malfunctioning indicator lamp signal received from ECM with CAN communication line.
GLOW IND [Off]		This item is displayed, but cannot be monitored.
C-ENG2 W/L [Off]		This item is displayed, but cannot be monitored.
CRUISE IND [On/Off]		- Status of CRUISE indicator judged from ASCD status signal received from ECM with CAN communication line. - Status of CRUISE indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
SET IND [On/Off]		- 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 [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 TPMS malfunction warning lamp 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.

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

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
4WAS/RAS W/L [On/Off]		This item is displayed, but cannot be monitored.
DDS* W/L [Off]		This item is displayed, but cannot be monitored.
LANE W/L [On/Off]		Status of lane departure warning lamp judged from lane departure warning lamp signal received from lane camera unit with CAN communication line.
LDP IND [On/Off]		Status of LDP ON indicator lamp judged from LDP ON indicator lamp signal received from lane camera unit with CAN communication line.
E-SUS IND [On/Off]		This item is displayed, but cannot be monitored.
DCA IND [On/Off]		Status of DCA switch indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
LCD [B&P N, B&P I, ID NG, ROTAT, SFT P, INSRT, BATT, NO KY,OUTKY, LK WN]		Displays status of Intelligent Key system warning judged from meter display signal received from BCM with CAN communication line.
ACC TARGET [On/Off]		Status of vehicle ahead detection indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC DISTANCE [Off, SHOR, MID, LONG]		Status of set distance indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC OWN VHL [On/Off]		Status of own vehicle indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC SET SPEED		Status of set vehicle speed indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC UNIT [On/Off]		Status of display unit judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
SHIFT IND [P, R, N, D, L, M1, M2, M3, M4, M5, M6, M7]		Status of shift position indicator judged from shift position signal and manual mode indicator signal received from TCM with CAN communication line.
O/D OFF SW [Off]		This item is displayed, but cannot be monitored.
AT S MODE SW [On/Off]		Status of snow mode switch.
AT P MODE SW [Off]		This item is displayed, but cannot be monitored.
M RANGE SW [On/Off]		Status of manual mode switch.
NM RANGE SW [On/Off]		Status of non-manual mode switch.
AT SFT UP SW [On/Off]		Status of A/T shift up switch.
AT SFT DWN SW [On/Off]		Status of A/T shift down switch.
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 [Off]		This item is displayed, but cannot be monitored.
PKB SW [On/Off]		Status of parking brake switch.

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

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
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.
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.

*: DDS (hill descent control)

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011008599

APPLICATION ITEM

CONSULT 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.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	- Read and save the vehicle specification. - Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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

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.

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"*
	OFF		Power supply position is "OFF" (Ignition switch OFF)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)
	CRANKING		Power supply position is "CRANKING" (At engine cranking)
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 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.	

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:0000000010576937

CONSULT APPLICATION ITEMS

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Display item [Unit]	Description
PUSH SW [On/Off]	Status of push button ignition switch judged by BCM.
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.
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.
KEY SW-SLOT [On/Off]	Status of key slot judged by BCM.
TAIL LAMP SW [On/Off]	Status of each switch judged by BCM using the combination switch readout function.
FR FOG SW [On/Off]	Status of front fog lamp switch judged by BCM.
DOOR SW-DR [On/Off]	Status of driver side door switch judged by BCM.

ACTIVE TEST

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

WCS

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:0000000011008595

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	6
Ignition switch ON or START	4

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector and ground.

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

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:0000000011008596

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	6

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Power source	Fuse No.
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	Ground	OFF	Battery voltage
	41	ACC power supply		ACC	Battery voltage
	53	Ignition power supply		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:0000000011008597

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.
3. Check voltage between BCM harness connector and ground.

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WCS

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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:0000000010576941

- 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:0000000010576942

1.CHECK OPERATION OF METER BUZZER

1. Select "BUZZER" of "BCM" on CONSULT.
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-93, "Removal and Installation"](#).

Diagnosis Procedure

INFOID:0000000010576943

1.CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to [MWI-58, "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

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

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

Check power supply of unified meter and A/C amp. Refer to [MWI-58, "COMBINATION METER : 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:0000000010576944

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

Component Function Check

INFOID:0000000010576945

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:0000000010576946

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.				Ground
Connector	Terminal			
M66	9	When driver seat belt is fastened	12 V	
		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	B503	61	Existed

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

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

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Seat belt buckle switch (driver side)		Ground	Continuity
Connector	Terminal		
B503	60		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000010576947

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
B503	61	60	When seat belt is fastened	Not existed
			When seat belt is unfastened	Existed

Is the inspection result normal?

YES >> INSPECTION END

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

WCS

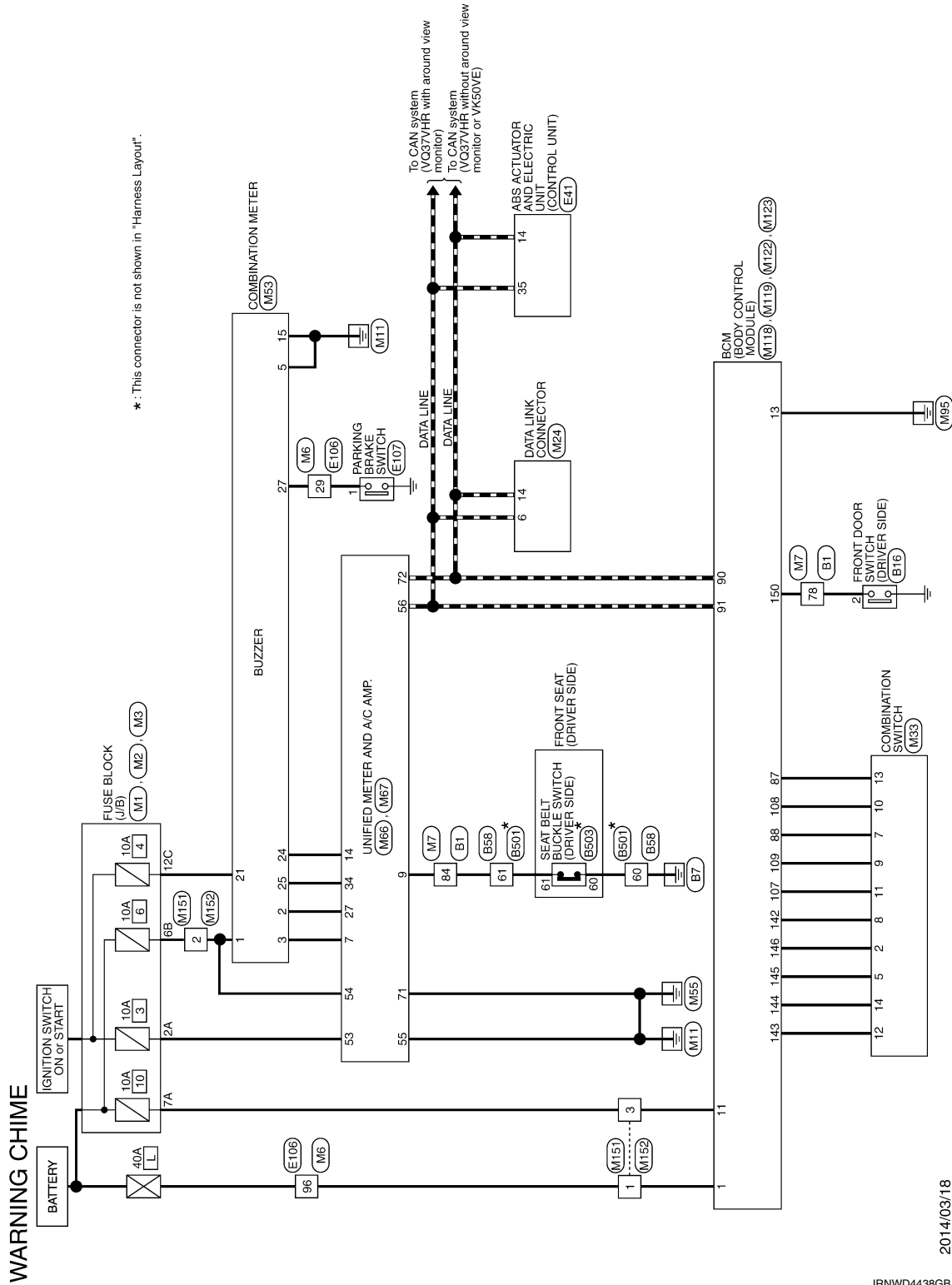
WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME SYSTEM

Wiring Diagram - WARNING CHIME -

INFOID:000000010576948



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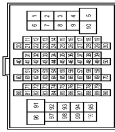
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WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
5	P	-
6	BG	-
7	SB	-
8	SB	-
9	SB	-
10	B	-
11	G	-
12	R	-
13	W	-
14	SHIELD	-
15	L	-
16	P	-
17	G	-
18	Y	-
19	W	-
20	V	-
21	BR	-
22	P	-
23	BR	-
24	BG	-
25	B	-
26	W	-
27	B	-
28	W	-
29	B	-
30	SB	-
31	V	-
32	GR	-
33	SB	-
34	SHIELD	-
35	GR	-
36	Y	-
37	SHIELD	-

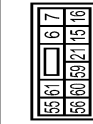
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	P	-
62	GR	-
63	G	-
64	BG	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	GR	-
71	G	-
72	B	-
73	W	-
74	V	-
75	BG	-
76	LG	-
77	L	-
78	GR	-
79	W	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	R	-
86	Y	-
87	B	-
88	G	-
89	BR	-
90	R	-
91	P	-
92	BG	-
93	BR	-
94	V	-
95	BG	-
96	L	-
97	W	-
98	GR	-
99	W	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



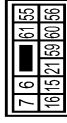
Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
6	V	-
7	GR	-
15	BR	-
16	P	-
21	BG	-
55	G	-
56	L	-
59	LG	-
60	B	-
61	SB	-

Connector No.	B501
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
6	R	-
7	L	-
15	W	-
16	G	-
21	P	-
55	B	-
59	L/Y	-
60	R/Y	-
61	B/Y	-

Connector No.	B503
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
59	L/Y	-
60	R/Y	-
61	B/Y	-

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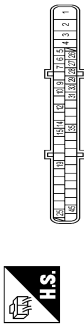
WCS

WARNING CHIME SYSTEM

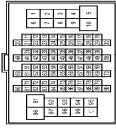
< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA42FB-AHZ4-LH



Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	UBVR
3	R	UBVR
4	B	GROUND
5	Y	DS FL
6	RG	DP RL
7	BR	DP RR
8	B	DP FR
9	W	DS FR
10	L	VAC
12	P	CAN-L
14	SHIELD	AGND
15	P	UST
19	Y	BUS-L
25	R	DP FL
26	GR	DS RL
27	G	UZ
28	LG	DS RR
29	SB	BLS
30	R	VDC OFF SW
31	L	CAN-H
35	B	BUS-H

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	SB	-
4	LG	-
5	Y	-
6	W	-
7	G	-
8	V	-
9	R	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	SB	-
17	L	-
18	P	-
19	G	-
20	W	- [With ICC]
21	BR	- [Without ICC]
22	R	- [With ICC]
23	V	- [Without ICC]
24	L	- [With ICC]
25	P	- [Without ICC]
26	SHIELD	- [Without ICC]
27	Y	- [With ICC]
28	G	-
29	LG	-
30	BG	-
31	W	-
32	Y	-
33	BG	-

37	Y	-
38	GR	-
39	LG	-
41	LG	-
42	V	-
43	R	-
44	G	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	SB	-
50	BR	-
51	B	-
52	Y	-
53	BG	-
54	R	-
55	SB	-
56	P	-
60	SB	-
61	V	-
62	P	-
63	LG	-
64	L	-
65	BG	-
69	L	-
70	SHIELD	-
71	G	-
72	G	-
73	R	-
74	BR	-
76	L	-
77	W	-
78	Y	-
80	SB	-
81	L	-
82	W	-
83	LG	-
84	GR	-
85	G	-
86	P	-
87	W	-
88	BG	-
89	LG	-
90	BR	-
91	GR	-
92	BR	-
93	SB	-
95	Y	-
96	W	-

97	W	-
98	SHIELD	-
100	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TBD1FW



Terminal No.	1
Color Of Wire	LG
Signal Name [Specification]	-

Connector No.	M1
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS6FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

JRNWD4440GB

WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	LG	-
12C	R	-
7C	B	-
9C	BG	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

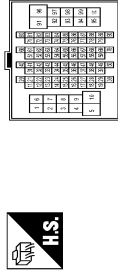


Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	- [Without Auto aircon seat]
4	SB	- [With Auto aircon seat]
5	LG	-
6	GR	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- [Without ICC]
21	BR	- [With ICC]
22	L	- [Without ICC]
23	R	- [With ICC]
24	L	- [Without ICC]
25	W	- [With ICC]
26	P	- [Without ICC]
27	Y	- [With ICC]
28	SHIELD	-
29	GR	-
30	BG	-
32	W	-

33	Y	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
69	V	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
76	V	-
77	V	-
78	Y	-
80	BG	-
81	L	-
82	W	-
83	Y	-
84	L	-
85	P	-
86	BR	-
87	P	-
88	V	-
89	G	-
90	P	-
91	R	-
92	R	-
93	GR	-

95	G	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With Auto aircon seat]
2	Y	- [Without Auto aircon seat]
3	B	-
6	P	-
7	V	-
8	BG	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	R	-
21	LG	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	W	-

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WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

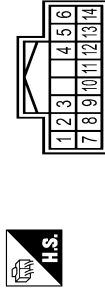
45	B	-
51	V	-
52	LG	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	BR	-
62	R	-
63	Y	-
64	L	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	V	-
71	W	-
72	B	-
73	W	-
74	LG	-
75	P	-
76	LG	-
77	SB	-
78	GR	-
79	R	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	W	-
86	Y	-
87	B	-
88	G	-
89	BG	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	R	-
99	BG	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color	Wire	Signal Name [Specification]
3	LG	-	-
4	B	-	-
5	B	-	-
6	L	-	-
7	GR	-	-
8	G	-	-
11	SB	-	-
12	P	-	-
13	L	-	-
14	P	-	-
16	BG	-	-

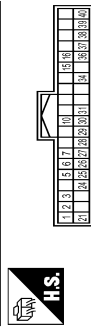
Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	P	-	FR WASHER (-) OUTPUT 4
2	SB	-	FR WASHER (+) IGN
4	G	-	OUTPUT 3
5	L	-	GROUND
6	B	-	INPUT 3
7	V	-	OUTPUT 5
8	BG	-	INPUT 2
9	Y	-	-

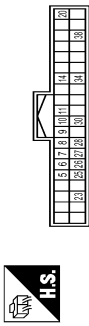
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



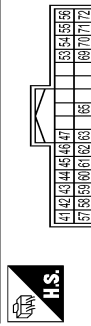
Terminal No.	Color	Wire	Signal Name [Specification]
1	BG	-	BATTERY POWER SUPPLY
2	LG	-	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	-	COMMUNICATION SIGNAL (AMP->METER)
5	B	-	GROUND
6	W	-	ALTERNATOR SIGNAL
7	P	-	AIR BAG SIGNAL
10	G	-	SECURITY INDICATOR SIGNAL
15	B	-	GROUND
16	B	-	METER CONTROL SWITCH GROUND
21	R	-	IGNITION SIGNAL
24	BR	-	COMMUNICATION SIGNAL (LCD->AMP.)
25	Y	-	COMMUNICATION SIGNAL (AMP->LCD)
26	R	-	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	-	PARKING BRAKE SWITCH SIGNAL
28	W	-	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	-	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	-	PASSENGER SEAT BELT WARNING SIGNAL
31	L	-	WASHER LEVEL SWITCH SIGNAL
34	B	-	ILLUMINATION CONTROL SIGNAL
36	LG	-	SELECT SWITCH SIGNAL
37	SB	-	ENTER SWITCH SIGNAL
38	L	-	TRIP AIR RESET SWITCH SIGNAL
39	P	-	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	-	ILLUMINATION CONTROL SWITCH SIGNAL (+)

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



Terminal No.	Color	Wire	Signal Name [Specification]
5	L	-	MANUAL MODE SHIFT UP SIGNAL
6	BG	-	PADDLE SHIFTER UP SIGNAL
7	GR	-	COMMUNICATION SIGNAL (AMP->METER)
8	L	-	VEHICLE SPEED SIGNAL (2-PULSE)
9	SB	-	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	W	-	MANUAL MODE SIGNAL
11	G	-	NON-MANUAL MODE SIGNAL
14	BR	-	COMMUNICATION SIGNAL (LCD->AMP.)
20	L	-	IGN SENSOR SIGNAL
23	Y	-	AT SNOW SWITCH SIGNAL
25	V	-	MANUAL MODE SHIFT DOWN SIGNAL
26	G	-	PADDLE SHIFTER DOWN SIGNAL
27	LG	-	COMMUNICATION SIGNAL (METER->AMP.)
28	R	-	VEHICLE SPEED SIGNAL (8-PULSE)
30	V	-	PARKING BRAKE SWITCH SIGNAL
34	Y	-	COMMUNICATION SIGNAL (AMP->LCD)
38	L	-	BLOWER MOTOR CONTROL SIGNAL

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



Terminal No.	Color	Wire	Signal Name [Specification]
41	V	-	A/C POWER SUPPLY
42	Y	-	FUEL LEVEL SENSOR SIGNAL
43	R	-	INTAKE SENSOR SIGNAL

WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

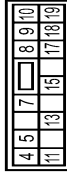
Terminal No.	Color Of Wire	Signal Name [Specification]
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CANH
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
61	BR	IN-VEHICLE SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	IGN MODE SIGNAL
65	BG	ECV SIGNAL
69	L	AC/LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CANH

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FBL-C



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (FL)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	BG	POWER WINDOW POWER SUPPLY (RAP)

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



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

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



Terminal No.	Color Of Wire	Signal Name [Specification]
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT-
79	BR	ROOM ANT+
80	GR	NATS ANT AMP
81	W	NATS ANT AMP

Terminal No.	Color Of Wire	Signal Name [Specification]
82	P	IGN RELAY (F/B) CONT
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CANH
91	L	CANH
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	AT SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-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
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	BG	POWER WINDOW SW COMM
134	GR	LOCK IND
137	B	RECEIVER SENSOR GND
138	Y	SENSOR POWER SUPPLY
140	R	SHIFT NP
141	G	SECURITY INDICATOR OUTPUT
142	BG	COMBI SW OUTPUT 5

Terminal No.	Color Of Wire	Signal Name [Specification]
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 DEFROGGER RELAY CONT

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

JRNWD4443GB

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

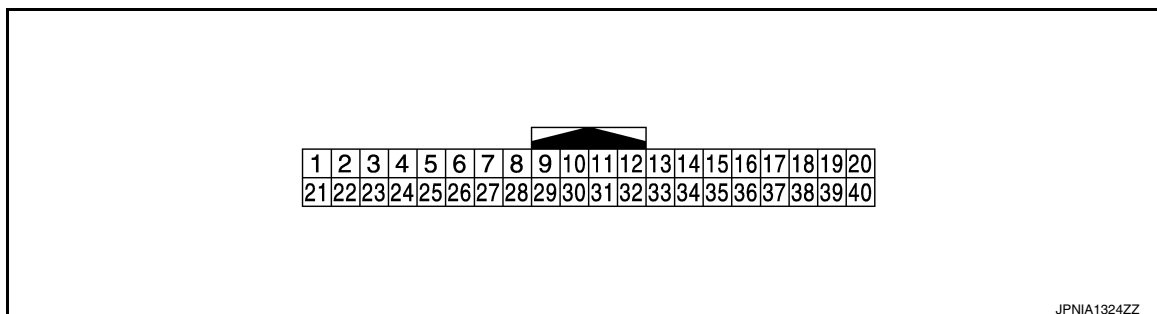
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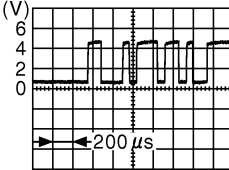
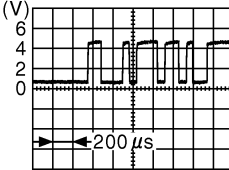
VALUES ON THE DIAGNOSIS TOOL

Refer to [MWI-96. "Reference Value"](#).

TERMINAL LAYOUT

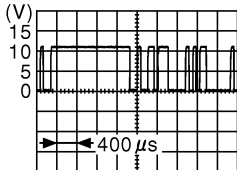
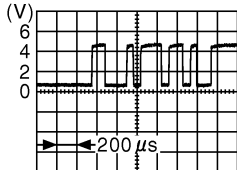
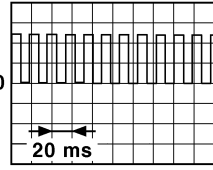
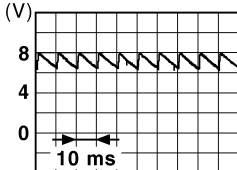


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
1 (BG)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (LG)	Ground	Communication signal (METER→ AMP.)	Output	Ignition switch ON		 JSNIA0027GB
3 (GR)	Ground	Communication signal (AMP.→ METER)	Input	Ignition switch ON		 JSNIA0027GB
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 (P)	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 indicator signal	Input	Ignition switch OFF	Security warning lamp ON	0 V
					Security warning lamp OFF	12 V
15 (B)	Ground	Ground	—	Ignition switch ON		0 V

COMBINATION METER

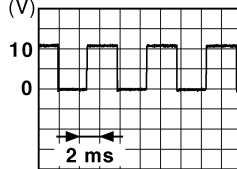
< ECU DIAGNOSIS INFORMATION >

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

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COMBINATION METER

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

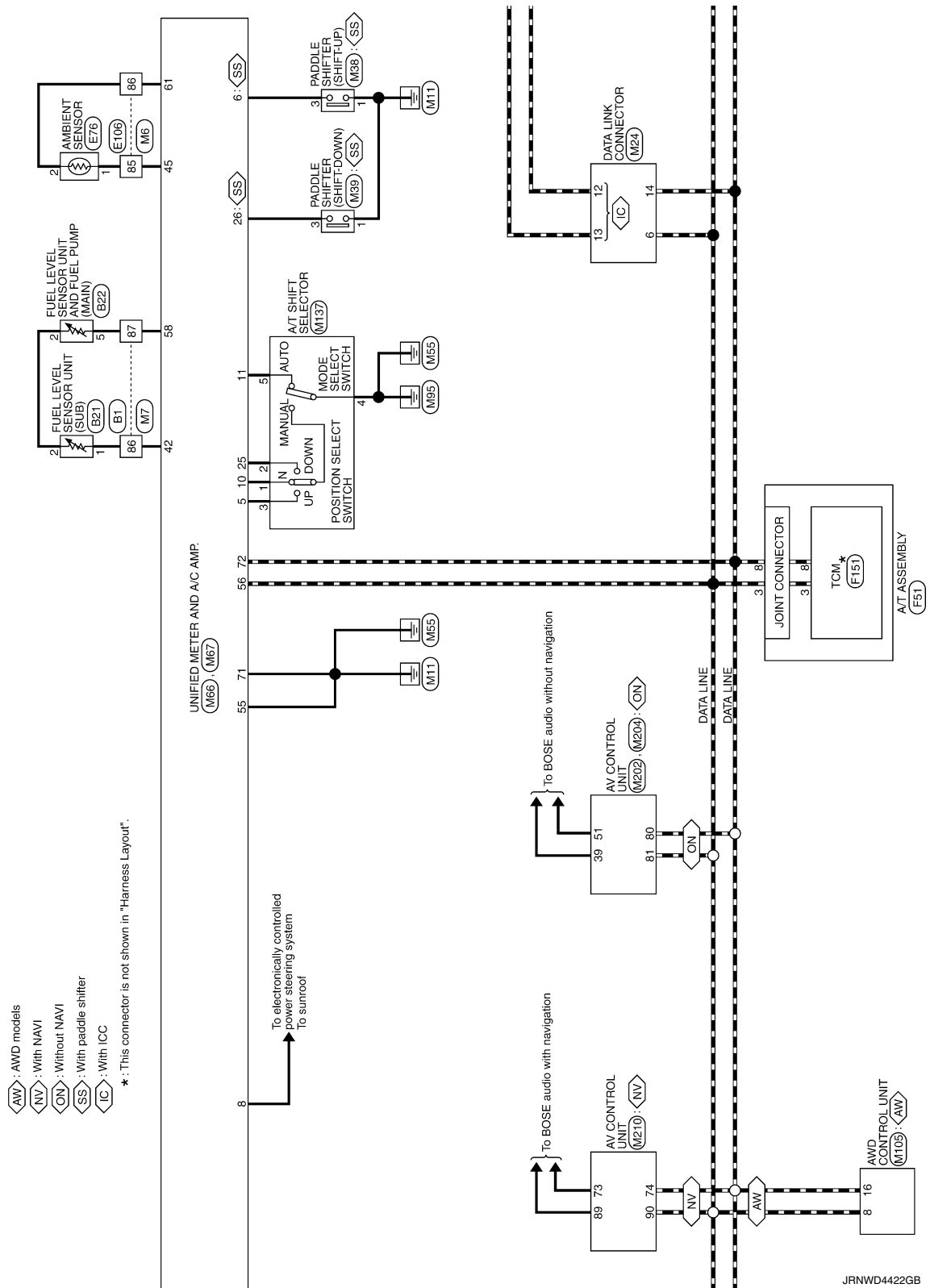
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Wiring Diagram - METER -



COMBINATION METER

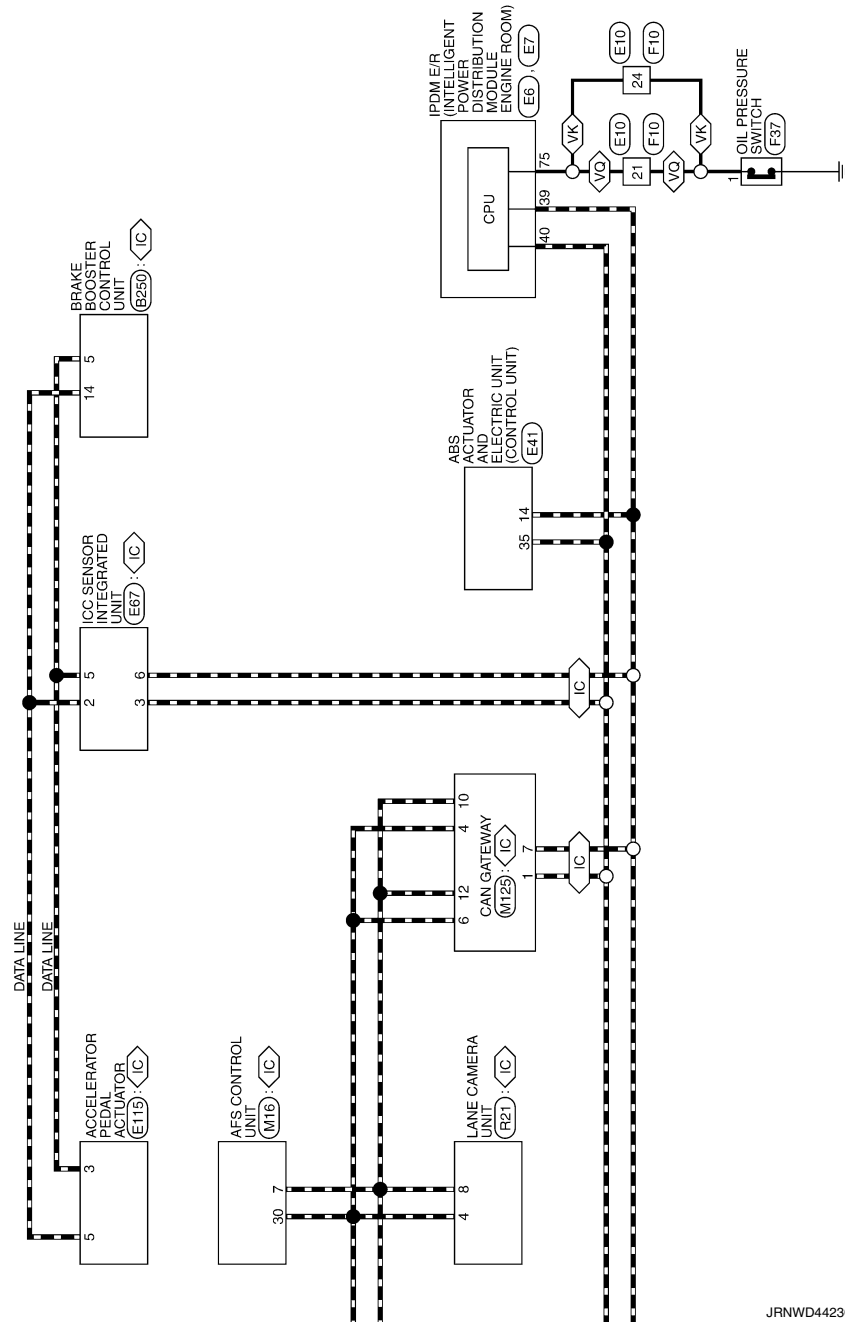
< ECU DIAGNOSIS INFORMATION >



COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

VQ : With VQ engine
 VK : With VK engine
 IC : With ICC



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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
5	P	-
6	B	-
7	GR	-
8	GR	-
9	SB	-
10	SB	-
11	SB	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	Y	-
21	W	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	B	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	V	-
45	GR	-
51	V	-
52	SB	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-

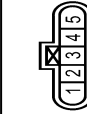
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	P	-
62	GR	-
63	G	-
64	B	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	GR	-
71	G	-
72	B	-
73	W	-
74	V	-
75	RG	-
76	LG	-
77	L	-
78	GR	-
79	W	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	R	-
86	Y	-
87	B	-
88	G	-
89	BR	-
91	R	-
92	B	-
93	BR	-
94	V	-
96	B	-
97	W	-
98	GR	-
99	W	-

Connector No.	B21
Connector Name	FUEL LEVEL SENSOR UNIT (SUB)
Connector Type	E02FGY-RS



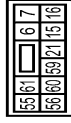
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	W	-

Connector No.	B22
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN)
Connector Type	E05FGY-RS



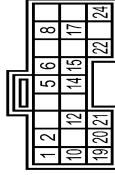
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	- [With VK engine]
1	GR	- [With EVAP and VQ engine]
1	L	- [Without EVAP and VQ engine]
2	W	-
3	B	- [With VK engine]
3	G	- [Without EVAP and VQ engine]
3	GY	- [With EVAP and VQ engine]
4	R	-
5	B	-

Connector No.	B58
Connector Name	WIRE TO WIRE
Connector Type	NS10FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
6	V	-
7	GR	-
15	BR	-
16	P	-
21	RG	-
55	G	-
56	L	-
59	LG	-
60	B	-
61	SB	-

Connector No.	B250
Connector Name	BRAKE BOOSTER CONTROL UNIT
Connector Type	TK24FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BATTERY
2	W	BATTERY
5	P	ITS COMM-L
6	SB	RELEASE SW PWR
8	R	BRAKE PRESSURE SEN PWR
10	G	BOOSTER SOL PWR
12	R	BOOSTER SOL GND
14	L	ITS COMM-H
15	V	RELEASE SW (NC)

< ECU DIAGNOSIS INFORMATION >

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With VQ engine]
2	SHIELD	- [With V6 engine]
1	SHIELD	- [With V6 engine]
2	SHIELD	- [With VQ engine]
3	BR	- [With VQ engine]
4	BR	- [With V6 engine]
5	SHIELD	- [With VQ engine]
6	BR	- [With V6 engine]
7	G	- [With VQ engine]
8	BR	- [With V6 engine]
9	R	- [With VQ engine]
10	G	- [With VQ engine]
11	W	- [With V6 engine]
12	SHIELD	- [With V6 engine]
13	W	- [With VQ engine]
14	W	- [With VQ engine]
15	W	- [With VQ engine]
16	W	- [With VQ engine]
17	W	- [With VQ engine]
18	W	- [With VQ engine]
19	W	- [With VQ engine]
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21	W	- [With VQ engine]
22	W	- [With VQ engine]
23	W	- [With VQ engine]
24	W	- [With VQ engine]
25	W	- [With VQ engine]
26	W	- [With VQ engine]
27	W	- [With VQ engine]
28	W	- [With VQ engine]
29	W	- [With VQ engine]
30	W	- [With VQ engine]
31	W	- [With VQ engine]
32	W	- [With VQ engine]
33	W	- [With VQ engine]
34	W	- [With VQ engine]
35	W	- [With VQ engine]
36	W	- [With VQ engine]
37	W	- [With VQ engine]
38	W	- [With VQ engine]
39	W	- [With VQ engine]
40	W	- [With VQ engine]
41	W	- [With VQ engine]
42	W	- [With VQ engine]
43	W	- [With VQ engine]
44	W	- [With VQ engine]
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47	W	- [With VQ engine]
48	W	- [With VQ engine]
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52	W	- [With VQ engine]
53	W	- [With VQ engine]
54	W	- [With VQ engine]
55	W	- [With VQ engine]
56	W	- [With VQ engine]
57	W	- [With VQ engine]
58	W	- [With VQ engine]
59	W	- [With VQ engine]
60	W	- [With VQ engine]
61	W	- [With VQ engine]
62	W	- [With VQ engine]
63	W	- [With VQ engine]
64	W	- [With VQ engine]
65	W	- [With VQ engine]
66	W	- [With VQ engine]
67	W	- [With VQ engine]
68	W	- [With VQ engine]
69	W	- [With VQ engine]
70	W	- [With VQ engine]
71	W	- [With VQ engine]
72	W	- [With VQ engine]
73	W	- [With VQ engine]
74	W	- [With VQ engine]
75	W	- [With VQ engine]
76	W	- [With VQ engine]
77	W	- [With VQ engine]
78	W	- [With VQ engine]
79	W	- [With VQ engine]
80	W	- [With VQ engine]
81	W	- [With VQ engine]
82	W	- [With VQ engine]
83	W	- [With VQ engine]
84	W	- [With VQ engine]
85	W	- [With VQ engine]
86	W	- [With VQ engine]
87	W	- [With VQ engine]
88	W	- [With VQ engine]
89	W	- [With VQ engine]
90	W	- [With VQ engine]
91	W	- [With VQ engine]
92	W	- [With VQ engine]
93	W	- [With VQ engine]
94	W	- [With VQ engine]
95	W	- [With VQ engine]
96	W	- [With VQ engine]
97	W	- [With VQ engine]
98	W	- [With VQ engine]
99	W	- [With VQ engine]
100	W	- [With VQ engine]

A
B
C
D
E
F
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H
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J
K
L
M
WC
O
P

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	Signal Name [Specification]
41 W	- [With VQ engine]
41 Y	- [With VK engine]
42 LG	- [With VQ engine]
42 SHIELD	- [With VK engine]
43 G	- [With VQ engine]
43 W	- [With VK engine]
44 G	-
45 L	-
46 G	- [With VK engine]
46 SHIELD	- [With VQ engine]
47 B	- [With VQ engine]
47 W	- [With VK engine]
48 BR	- [With VQ engine]
48 R	- [With VK engine]
49 G	- [With VQ engine]
49 L	- [With VK engine]
50 B	- [With VQ engine]
50 G	- [With VK engine]
51 B	- [With VQ engine]
51 SB	- [With VK engine]
52 R	-

Connector No.	Signal Name [Specification]
E32	WASHER LEVEL SWITCH
Connector Type	202FBR



Terminal No.	Wire	Signal Name [Specification]
1 LG		
2 BW		

Connector No.	Signal Name [Specification]
E41	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA42FBAHZ4-LH



Terminal No.	Wire	Signal Name [Specification]
1 B		GROUND
2 G		LBAR
3 R		LBVR
4 B		GROUND
5 Y		DS FL
6 BG		DP RL
7 BR		DP RR
9 B		DP FR
10 W		DS FR
12 L		VAC
14 P		CANL
15 SHIELD		AGND
19 P		UST
25 Y		BUS-L
26 R		DP FL
27 GR		DS RL
28 G		UZ
29 LG		DS RR
30 SB		BLS
31 R		VDC OFF SW
35 L		CAN-H
45 B		BUS-H

Connector No.	Signal Name [Specification]
E47	BRAKE FLUID LEVEL SWITCH
Connector Type	YV02FGY



Terminal No.	Wire	Signal Name [Specification]
1 R		
2 B		

Connector No.	Signal Name [Specification]
E67	ICC SENSOR INTEGRATED UNIT
Connector Type	RS08FB-PR



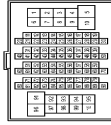
Terminal No.	Wire	Signal Name [Specification]
1 R		IGNITION
2 L		ITS COMM-H
3 L		CAN-H
4 B		GROUND
5 P		ITS COMM-L
6 P		CAN-L

Connector No.	Signal Name [Specification]
E76	AMBIENT SENSOR
Connector Type	RS02FB



Terminal No.	Wire	Signal Name [Specification]
1 G		
2 P		

Connector No.	Signal Name [Specification]
E106	WIRE TO WIRE
Connector Type	TH60FW-CS16-TM4



Terminal No.	Wire	Signal Name [Specification]
1 G		
2 BG		
3 SB		
4 LG		
5 Y		
6 W		
7 G		
8 V		
9 R		
10 BR		
11 B		
12 G		
13 R		
14 W		
15 SHIELD		
16 SB		
17 L		
18 P		

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

19	G	-	-	-	-
20	W	-	-	-	-
21	G	-	-	-	-
22	Y	-	-	-	-
23	BR	-	-	-	-
24	L	-	-	-	-
25	R	-	-	-	-
26	LG	-	-	-	-
27	W	-	-	-	-
28	P	-	-	-	-
29	G	-	-	-	-
30	Y	-	-	-	-
31	BR	-	-	-	-
32	L	-	-	-	-
33	R	-	-	-	-
34	LG	-	-	-	-
35	W	-	-	-	-
36	P	-	-	-	-
37	G	-	-	-	-
38	Y	-	-	-	-
39	BR	-	-	-	-
40	L	-	-	-	-
41	R	-	-	-	-
42	LG	-	-	-	-
43	W	-	-	-	-
44	P	-	-	-	-
45	G	-	-	-	-
46	Y	-	-	-	-
47	BR	-	-	-	-
48	L	-	-	-	-
49	R	-	-	-	-
50	LG	-	-	-	-
51	W	-	-	-	-
52	P	-	-	-	-
53	G	-	-	-	-
54	Y	-	-	-	-
55	BR	-	-	-	-
56	L	-	-	-	-
57	R	-	-	-	-
58	LG	-	-	-	-
59	W	-	-	-	-
60	P	-	-	-	-
61	G	-	-	-	-
62	Y	-	-	-	-
63	BR	-	-	-	-
64	L	-	-	-	-
65	R	-	-	-	-
66	LG	-	-	-	-
67	W	-	-	-	-
68	P	-	-	-	-
69	G	-	-	-	-
70	Y	-	-	-	-
71	BR	-	-	-	-
72	L	-	-	-	-
73	R	-	-	-	-
74	LG	-	-	-	-
75	W	-	-	-	-
76	P	-	-	-	-

77	W	-	-	-	-
78	Y	-	-	-	-
79	BR	-	-	-	-
80	L	-	-	-	-
81	R	-	-	-	-
82	LG	-	-	-	-
83	W	-	-	-	-
84	P	-	-	-	-
85	G	-	-	-	-
86	Y	-	-	-	-
87	BR	-	-	-	-
88	L	-	-	-	-
89	R	-	-	-	-
90	LG	-	-	-	-
91	W	-	-	-	-
92	P	-	-	-	-
93	G	-	-	-	-
94	Y	-	-	-	-
95	BR	-	-	-	-
96	L	-	-	-	-
97	R	-	-	-	-
98	LG	-	-	-	-
99	W	-	-	-	-
100	P	-	-	-	-

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

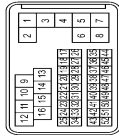


Connector No.	E115
Connector Name	ACCELERATOR PEDAL ACTUATOR
Connector Type	KDZ06FB



Terminal No.	Color	Off Wire	Signal Name [Specification]
1	R	IGNITION	
2	BR	BATTERY	
3	P	ITS COM+L	
4	B	GROUND	
5	L	ITS COM+H	

Connector No.	F10
Connector Name	WIRE TO WIRE
Connector Type	ISA03FB-RS9-SH28



Terminal No.	Color	Off Wire	Signal Name [Specification]
1	G	SHIELD	
2	Y	SHIELD	
3	BR	SHIELD	
4	W	SHIELD	
5	BR	SHIELD	
6	R	SHIELD	
7	G	SHIELD	
8	SHIELD	SHIELD	

8	W	-	-	-	-
9	W	-	-	-	-
10	G	-	-	-	-
11	R	-	-	-	-
12	Y	-	-	-	-
13	P	-	-	-	-
14	V	-	-	-	-
15	L	-	-	-	-
16	P	-	-	-	-
17	GR	-	-	-	-
18	G	-	-	-	-
19	O	-	-	-	-
20	R	-	-	-	-
21	V	-	-	-	-
22	B	-	-	-	-
23	G	-	-	-	-
24	LG	-	-	-	-
25	Y	-	-	-	-
26	O	-	-	-	-
27	GR	-	-	-	-
28	BR	-	-	-	-
29	L	-	-	-	-
30	GR	-	-	-	-
31	BR	-	-	-	-
32	G	-	-	-	-
33	W	-	-	-	-
34	L	-	-	-	-
35	SB	-	-	-	-
36	O	-	-	-	-
37	P	-	-	-	-
38	SHIELD	-	-	-	-
39	SHIELD	-	-	-	-
40	Y	-	-	-	-
41	SHIELD	-	-	-	-
42	W	-	-	-	-

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	F37	Oil Pressure Switch
Connector Name	OIL PRESSURE SWITCH	
Connector Type	E0TFGY-RS-AR	

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

Connector No.	F51	AT Assembly
Connector Name	AT ASSEMBLY	
Connector Type	RKJ0FG-DGY	

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



Connector No.	F103	Wire to Wire
Connector Name	WIRE TO WIRE	
Connector Type	TK36FW-AS10	



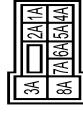
Connector No.	F151	TCM
Connector Name	TCM	
Connector Type	SP10FG	



Terminal No.	Color	Wire	Signal Name [Specification]
2	G	-	-
3	W	-	-
4	GR	-	- [With VK engine]
5	R	-	- [With VQ engine]
6	B	-	- [With VK engine]
7	W	-	- [With VK engine]
8	Y	-	- [With VQ engine]
9	GR	-	- [With VQ engine]
10	L	-	- [With VK engine]
19	O	-	-
20	Y	-	-
27	L	-	-
28	B	-	-
29	LG	-	-
31	R	-	-
34	LG	-	-
35	BR	-	-
36	W	-	-
37	Y	-	-
38	Y	-	-
43	P	-	-
44	L	-	-
45	Y	-	-
46	V	-	-

Terminal No.	Color	Wire	Signal Name [Specification]
1	W	-	IGNITION POWER SUPPLY
2	B	-	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	R	-	CAN-H
4	O	-	CLINE
5	G	-	GROUND
6	GR	-	IGNITION POWER SUPPLY
7	L	-	BACK-UP LAMP RELAY
8	BR	-	CAN-L
9	Y	-	STARTER RELAY
10	W/B	-	GROUND

Connector No.	M1	FUSE BLOCK (JB)
Connector Name	FUSE BLOCK (JB)	
Connector Type	NS06FW-M2	



Terminal No.	Color	Wire	Signal Name [Specification]
1	Y	-	IGNITION POWER SUPPLY
2	R	-	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	-	CAN-H
4	V	-	CLINE
5	B	-	GROUND
6	Y	-	IGNITION POWER SUPPLY
7	R	-	BACK-UP LAMP RELAY
8	P	-	CAN-L
9	GR	-	STARTER RELAY [With VQ engine]
9	LG	-	STARTER RELAY [With VK engine]
10	B	-	GROUND



Connector No.	F36	ALTERNATOR
Connector Name	ALTERNATOR	
Connector Type	HS03FB	

Terminal No.	Color	Wire	Signal Name [Specification]
2	G	-	L
3	O	-	S [With VK engine]
3	V	-	S [With VQ engine]
4	P	-	C [With VK engine]
4	W	-	C [With VQ engine]

Terminal No.	Color	Wire	Signal Name [Specification]
1A	BG	-	-
2A	G	-	-
3A	L	-	-
4A	R	-	-
5A	V	-	-
6A	Y	-	-
7A	R	-	-
8A	L	-	-

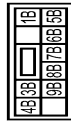
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

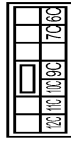
METER

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



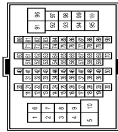
Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	LG	-
12C	R	-
7C	B	-
9C	BG	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

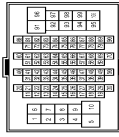


Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	- [Without Auto aircon seat]
4	SB	- [With Auto aircon seat]
5	LG	-
6	GR	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- [Without ICC]
21	BR	- [With ICC]
22	L	- [Without ICC]
23	G	- [With ICC]
24	L	- [Without ICC]
25	W	- [With ICC]
26	Y	- [Without ICC]
27	SHIELD	- [With ICC]
28	GR	-
29	V	-
30	BG	-
32	W	-

33	Y	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
69	V	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
76	V	-
77	V	-
78	Y	-
80	BG	-
81	L	-
82	W	-
83	Y	-
84	L	-
85	P	-
86	BR	-
87	P	-
88	V	-
89	G	-
90	P	-
91	R	-
92	R	-
93	GR	-

95	G	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With Auto aircon seat]
1	Y	- [Without Auto aircon seat]
2	B	-
3	W	-
6	P	-
7	V	-
8	BG	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	R	-
21	LG	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	W	-

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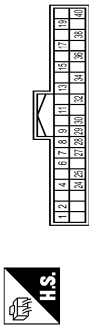
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

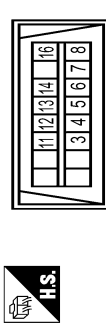
45	B	-
51	V	-
52	LG	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	BR	-
62	R	-
63	Y	-
64	L	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	V	-
71	W	-
72	B	-
73	W	-
74	LG	-
75	P	-
76	LG	-
77	SB	-
78	GR	-
79	R	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	W	-
86	Y	-
87	B	-
88	G	-
89	BG	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	R	-
99	BG	-

Connector No.	M16
Connector Name	AES CONTROL UNIT
Connector Type	TH40FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGN
2	LG	PSG-R
4	Y	PSV-R
6	W	HSV-R
7	P	CAN-L
8	B	HSG-R
9	GR	PSR
11	R	SMR-1 (-)
13	B	SMR-2 (-)
15	G	SML-1 (+)
17	W	SML-2 (+)
19	SB	AMDS-R
24	V	PSV-L
25	B	GROUND
27	BR	PSG-L
28	SB	HSR
29	BG	PS-L
30	L	CAN-H
32	G	SMR-2 (+)
34	W	SMR-1 (+)
36	R	SML-2 (-)
38	B	SML-1 (-)
40	BG	AMDS-L

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	P	-
13	L	-
14	P	-
16	BG	-

Connector No.	M38
Connector Name	PADDLE SHIFTER (SHIFT-UP)
Connector Type	A04FW



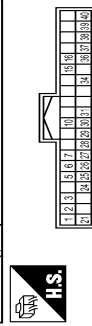
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	BG	-

Connector No.	M39
Connector Name	PADDLE SHIFTER (SHIFT-DOWN)
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	G	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	W	ALTERNATOR SIGNAL
7	P	AIR BAG SIGNAL
10	G	SECURITY INDICATOR SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
21	R	IGNITION SIGNAL
24	BR	COMMUNICATION SIGNAL (LCD->AMP)
25	Y	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT SWITCH SIGNAL (OVER-SEAT)
30	G	PASSENGER SEAT BELT WARNING SIGNAL
31	L	WASHER LEVEL SWITCH SIGNAL

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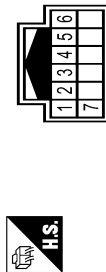
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

34	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP A/B RESET SWITCH SIGNAL (-)
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

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



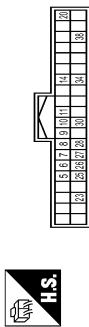
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	P	-
4	R	-
5	B	-
6	LG	-
7	SB	-

Connector No.	M56
Connector Name	TRIP A/B RESET SWITCH
Connector Type	TH34MW-NH



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

Connector No.	M66
Connector Name	UNITED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
5	L	MANUAL MODE SHIFT UP SIGNAL
6	BG	PADDLE SHIFTER UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	L	VEHICLE SPEED SIGNAL (2-PULSE)
9	SB	SEAT BELT LOCK/UNLOCK SWITCH SIGNAL (DRIVER SIDE)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	BR	COMMUNICATION SIGNAL (LCD->AMP.)
20	L	ION SENSOR SIGNAL
23	Y	AT SNOW SWITCH SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
26	G	PADDLE SHIFTER DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP.)
28	R	VEHICLE SPEED SIGNAL (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL
34	Y	COMMUNICATION SIGNAL (AMP->LCD)
38	L	BLOWER MOTOR CONTROL SIGNAL

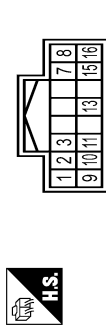
Connector No.	M67
Connector Name	UNITED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL

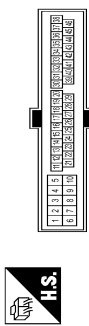
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	ION MODE SIGNAL
65	BG	ECV SIGNAL
66	L	A/C LAMP SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

Connector No.	M105
Connector Name	AWD CONTROL UNIT
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	AWD SOL (+)
2	Y	AWD SOL (-)
3	W	FLUID TEMP (-)
7	GR	IGN
8	L	CAN-H
9	BG	AWD SOL BAT
10	B	GROUND
11	B	GROUND
13	LG	FLUID TEMP (+)
15	Y	BATTERY
16	P	CAN-L

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10



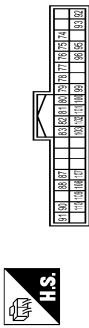
Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	L	-
4	B	- [With VK engine]
4	R	- [With VQ engine]
5	B	- [With VQ engine]
5	R	- [With VK engine]
7	B	-
9	L	- [With VK engine]
9	R	- [With VQ engine]
10	R	-
19	BG	-
20	Y	-
27	L	-
28	B	-
29	LG	-
31	W	-
34	LG	-
35	BR	-
36	W	-
37	Y	-
38	BG	-
43	P	-
44	L	-
45	G	-
46	Y	-

COMBINATION METER

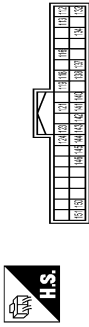
< ECU DIAGNOSIS INFORMATION >

METER

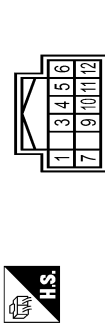
Connector No.	M122
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



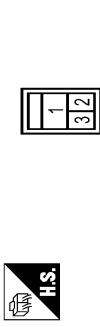
Connector No.	M123
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Connector No.	M125
Connector Name	CAN GATEWAY
Connector Type	TH12FM-NH



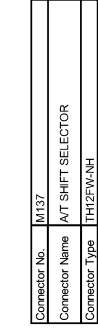
Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



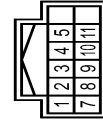
Terminal No.	Color Of Wire	Signal Name [Specification]
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	V	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	NATS ANT AMP.
81	W	NATS ANT AMP.
82	P	IGN RELAY (P/B) CONT
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CANL
91	L	CANH
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	AT SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW

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
123	W	IGN P/B
124	LG	PASSENGER DOOR SW
132	BG	POWER WINDOW SW COM1
134	GR	LOCK IND
137	B	RECEIVER/SENSOR GND
138	Y	SENSOR POWER SUPPLY
140	R	SHIFT NP
141	G	SECURITY INDICATOR OUTPUT
142	BG	COMBI SW OUTPUT 5
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 DEFROGGER RELAY CONT

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CANH
3	GR	BATTERY
4	L	CANH
5	B	GROUND
6	L	CANH
7	P	CANL
8	LG	IGNITION
10	P	CANL
11	B	GROUND
12	P	CANL



Connector No.	M137
Connector Name	AT SHIFT SELECTOR
Connector Type	TH12FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
7	BG	-
8	SB	-
9	B	-
10	GR	-
11	R	-

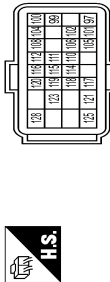
JRNWD4432GB

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

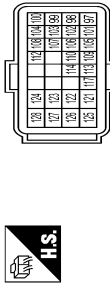
METER

Connector No.	M160
Connector Name	ECM
Connector Type	RH24FGY-R28-LH-Z



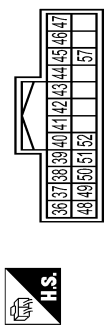
Terminal No.	Color	Wire	Signal Name [Specification]
97	R		ENGINE SPEED SIGNAL OUTPUT
98	G		SENSOR POWER SUPPLY
99	G		SENSOR POWER SUPPLY
100	L		CAN COMMUNICATION LINE
101	P		CAN COMMUNICATION LINE
102	SB		ASC/DC STEERING SWITCH
104	R		ACCELERATOR PEDAL POSITION SENSOR 1
105	L		CAN COMMUNICATION LINE
106	P		IGNITION SWITCH
110	P		STOP LAMP SWITCH
111	V		SENSOR GROUND
112	LG		FUEL PUMP CONTROL MODULE (FFCM) CHECK
114	GR		DATA LINK CONNECTOR
115	GR		SENSOR GROUND
116	G		TRANSMISSION RANGE SWITCH
117	BR		ASC/DC BRAKE SWITCH
118	R		POWER SUPPLY FOR ECM (BACK-UP)
119	W		SENSOR GROUND
120	W		FUEL TANK TEMPERATURE SENSOR
121	GR		POWER SUPPLY FOR ECM
123	B		ECM GROUND
125	R		FUEL PUMP CONTROL MODULE (FFCM)
128	B		ECM GROUND

Connector No.	M164
Connector Name	ECM
Connector Type	RH24FGY-R28-LH-Z



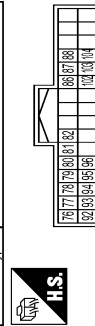
Terminal No.	Color	Wire	Signal Name [Specification]
97	R		ACCELERATOR PEDAL POSITION SENSOR 1
98	P		ACCELERATOR PEDAL POSITION SENSOR 2 (ENGINE VOLT)
99	G		SENSOR POWER SUPPLY (With NAVI)
99	L		SENSOR POWER SUPPLY (Without NAVI)
100	W		SENSOR GROUND
101	SB		ASC/DC STEERING SWITCH
102	LG		EVAP CONTROL SYSTEM PRESSURE SENSOR
103	G		SENSOR POWER SUPPLY (Without NAVI)
103	L		SENSOR POWER SUPPLY (With NAVI)
104	BR		SENSOR GROUND (Without NAVI)
104	GR		SENSOR GROUND (With NAVI)
105	L		REFRIGERANT PRESSURE SENSOR
106	W		FUEL TANK TEMPERATURE SENSOR
107	BG		SENSOR POWER SUPPLY
108	V		SENSOR GROUND
109	G		PNP SIGNAL
110	R		ENGINE SPEED OUTPUT SIGNAL
112	V		IMMEDIATELY OPENING FUEL CONTROL SYSTEM PRESSURE SENSOR
113	W		CAN COMMUNICATION LINE
114	L		CAN COMMUNICATION LINE
117	GR		DATA LINK CONNECTOR
121	LG		EVAP CANISTER VENT CONTROL VALVE
122	P		STOP LAMP SWITCH
123	B		ECM GROUND
124	B		ECM GROUND
125	GR		POWER SUPPLY FOR ECM
126	BR		ASC/DC BRAKE SWITCH
127	B		ECM GROUND
128	B		ECM GROUND

Connector No.	M202
Connector Name	AV CONTROL UNIT
Connector Type	TH24FM-NH



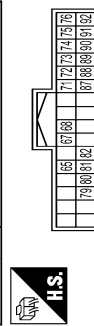
Terminal No.	Color	Wire	Signal Name [Specification]
36	BG		SIGNAL VCC
37	LG		SIGNAL GND
38	R		VP
39	BR		COMM (DSP->CONT)
40	B		RGB AREA (VS) SIGNAL
41	SHIELD		SHIELD
42	G		RGB SYNC
43	B		RGB (RED) SIGNAL
44	W		RGB (GREEN) SIGNAL
45	R		RGB (BLUE) SIGNAL
46	BG		COMPOSITE IMAGE SIGNAL GND
47	SB		COMPOSITE IMAGE SIGNAL
48	Y		INVERTER VCC
49	BR		INVERTER GND
50	W		VP
51	Y		COMM (CONT->DISP)
52	SB		SHIELD
57	SHIELD		SHIELD

Connector No.	M204
Connector Name	AV CONTROL UNIT
Connector Type	TH24FM-NH



Terminal No.	Color	Wire	Signal Name [Specification]
76	LG		AV COMM (L)
77	SB		AV COMM (H)
78	LG		AV COMM (L)
79	SB		AV COMM (H)
80	P		CAN-L
81	L		CAN-H
82	BR		SW GND
86	SHIELD		SHIELD
87	L		TEL VOICE SIGNAL (+)
88	P		TEL VOICE SIGNAL (-)
92	R		VEHICLE SPEED SIGNAL (8-PULSE)
93	V		PARKING BRAKE SIGNAL
94	BG		REVERSE SIGNAL
95	G		IGNITION SIGNAL
96	SB		DISK EJECT SIGNAL
102	B		AUX GND
103	W		AUX AUDIO LH+
104	R		AUX AUDIO RH+

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
65	V		PARKING BRAKE SIGNAL
67	B		COMPOSITE IMAGE SIGNAL GND
68	R		COMPOSITE IMAGE SIGNAL
71	SHIELD		MICROPHONE SHIELD
72	G		MICROPHONE VCC
73	R		COMM (CONT->DISP)
74	P		CAN-L
75	LG		AV COMM (L)
76	LG		AV COMM (L)
78	R		ILLUMINATION
80	G		IGNITION SIGNAL
81	BG		REVERSE SIGNAL
82	R		VEHICLE SPEED SIGNAL (8-PULSE)
87	R		MICROPHONE SIGNAL

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER			
88	B	SHIELD	
89	G	COMM (DISP->CONT)	
90	L	CANH	
91	SB	AV COMM (H)	
92	SB	AV COMM (H)	

Connector No.	M224
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	IN28FY-EX

Terminal No.	Wire	Signal Name [Specification]
1	B	GROUND
2	SB	WARNING SYSTEMS ON INDICATOR
3	V	WARNING SYSTEMS SWITCH
4	L	CANH
5	B	GROUND
6	R	LANE DEPARTURE WARNING BUZZER
7	Y	IGNITION POWER SUPPLY
8	P	CANL

Terminal No.	Wire	Signal Name [Specification]
23	Y	INFLATOR AS2+
24	Y	INFLATOR AS2-
25	Y	INFLATOR AS1-
26	Y	INFLATOR AS1+
27	B	ECZS
28	Y	INFLATOR DR2+
29	Y	INFLATOR DR1+DR2-
30	Y	INFLATOR DR+
31	V	ECZS-
32	BR	SIDE SENS RH2-
34	G	SIDE SENS LH2-
35	P	A/B W/L
38	G	SEATBELT W/L
39	SHIELD	GND
41	SB	ECZS+
42	Y	SIDE SENS RH2+
44	R	SIDE SENS LH2+
45	P	CAN LO
46	L	CAN HI
47	P	A/B CUTOFF TELLTALE
50	LG	IGN

JRNWD4434GB

Fail-Safe

INFOID:000000011008641

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.	A
Tachometer			B
Fuel gauge			
Engine coolant temperature gauge			
Illumination control		When suspending communication, change to nighttime mode.	C
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.	D
	VDC OFF indicator lamp		
	Brake warning lamp		E
	CRUISE warning lamp		
	IBA OFF indicator lamp		
	Malfunction indicator lamp		F
	High beam indicator	The lamp turns off by suspending communication.	
	Turn signal indicator lamp		G
	Tail lamp indicator lamp		
	Oil pressure warning lamp		
	A/T CHECK warning lamp		H
	VDC warning lamp		
	AWD warning lamp		I
	Low tire pressure warning lamp		
	Key warning lamp		
	AFS OFF indicator lamp		J
	Lane departure warning lamp		
	LDP ON indicator lamp		
	Master warning lamp		K

DTC Index

INFOID:0000000011008642

Refer to [MWI-117, "DTC Index"](#).

WCS

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

UNIFIED METER AND A/C AMP.

Reference Value

INFOID:0000000011008643

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT 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
FUEL CAP W/L	Ignition switch ON	Fuel filler cap warning display ON	On
		Fuel filler cap warning display OFF	Off
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	VDC warning lamp ON	On
		VDC warning 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	Front fog indicator lamp ON	On
		Front fog indicator lamp OFF	Off
RR FOG IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

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

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
E-SUS IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
DCA IND	Ignition switch ON	DCA switch indicator displayed	On
		DCA switch indicator not displayed	Off
LCD	Ignition switch ON	Engine start information display	B&P I
	Ignition switch ACC	Engine start information display	B&P N
	Ignition switch LOCK	Key ID warning display	ID NG
	Ignition switch LOCK	Steering lock information display	ROTAT
	Ignition switch LOCK	P position warning display	SFT P
	Ignition switch LOCK	Intelligent Key insert information display	INSRT
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT
	Ignition switch ON	Take away warning display	NO KY
	Ignition switch LOCK	Key warning display	OUTKY
	Ignition switch ON	ACC warning display	LK WN
ACC TARGET	Ignition switch ON	Vehicle ahead detection indicator displayed	On
		Vehicle ahead detection indicator not displayed	Off
ACC DISTANCE	Ignition switch ON	When following distance set to "LONG"	Long
		When following distance set to "MIDDLE"	Middle
		When following distance set to "SHORT"	Short
		Set distance indicator not displayed	Off
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
		Set vehicle speed indicator displayed	Indicates the set vehicle speed
ACC UNIT	Ignition switch ON	Set vehicle speed indicator unit display ON	On
		Set vehicle speed indicator unit display OFF	Off

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

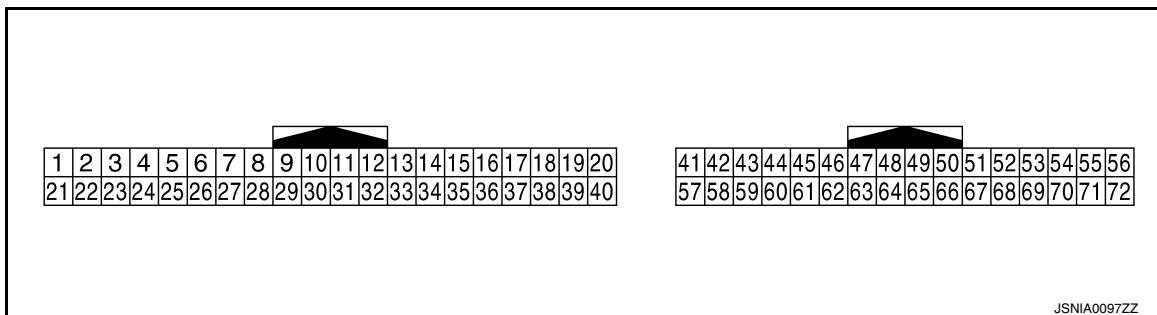
Monitor Item	Condition		Value/Status
SHIFT IND	Ignition switch ON	Shift position indicator P display	P
		Shift position indicator R display	R
		Shift position indicator N display	N
		Shift position indicator D display	D
		Shift position indicator DS display	L
		Shift position indicator M1 display	M1
		Shift position indicator M2 display	M2
		Shift position indicator M3 display	M3
		Shift position indicator M4 display	M4
		Shift position indicator M5 display	M5
		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
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.

UNIFIED METER AND A/C AMP.

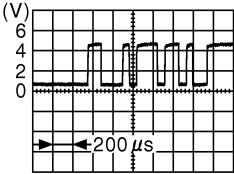
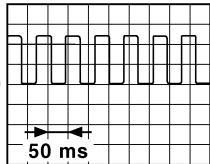
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
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

TERMINAL LAYOUT

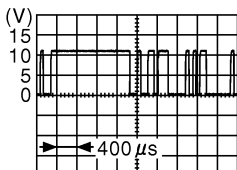
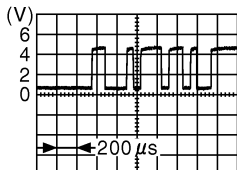
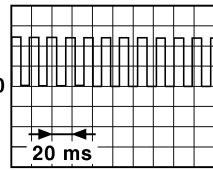
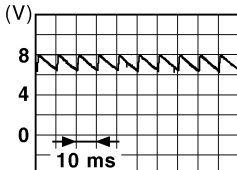


PHYSICAL VALUES

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 (BG)	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	—	 JSNIA0027GB
8 (L)	Ground	Vehicle speed signal (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).  JSNIA0015GB
9 (SB)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When seat belt is fastened	12 V
					When seat belt is not fastened	0 V

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
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	Non-manual mode signal	Input	Ignition switch ON	Selector lever DS position	12 V
					Other than the above	0 V
14 (BR)	Ground	Communication signal (LCD → AMP.)	Input	Ignition switch ON	—	 JSNIA0028GB
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 (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies de- pending on the specification (destination unit).  JSNIA0012GB
30 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	 JSNIA0007GB

A

B

C

D

E

F

G

H

I

J

K

L

M

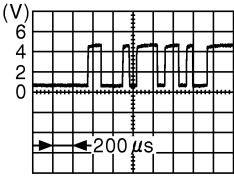
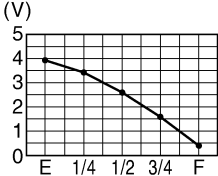
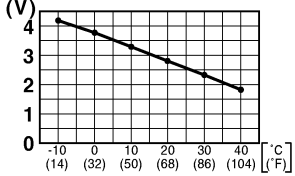
WCS

O

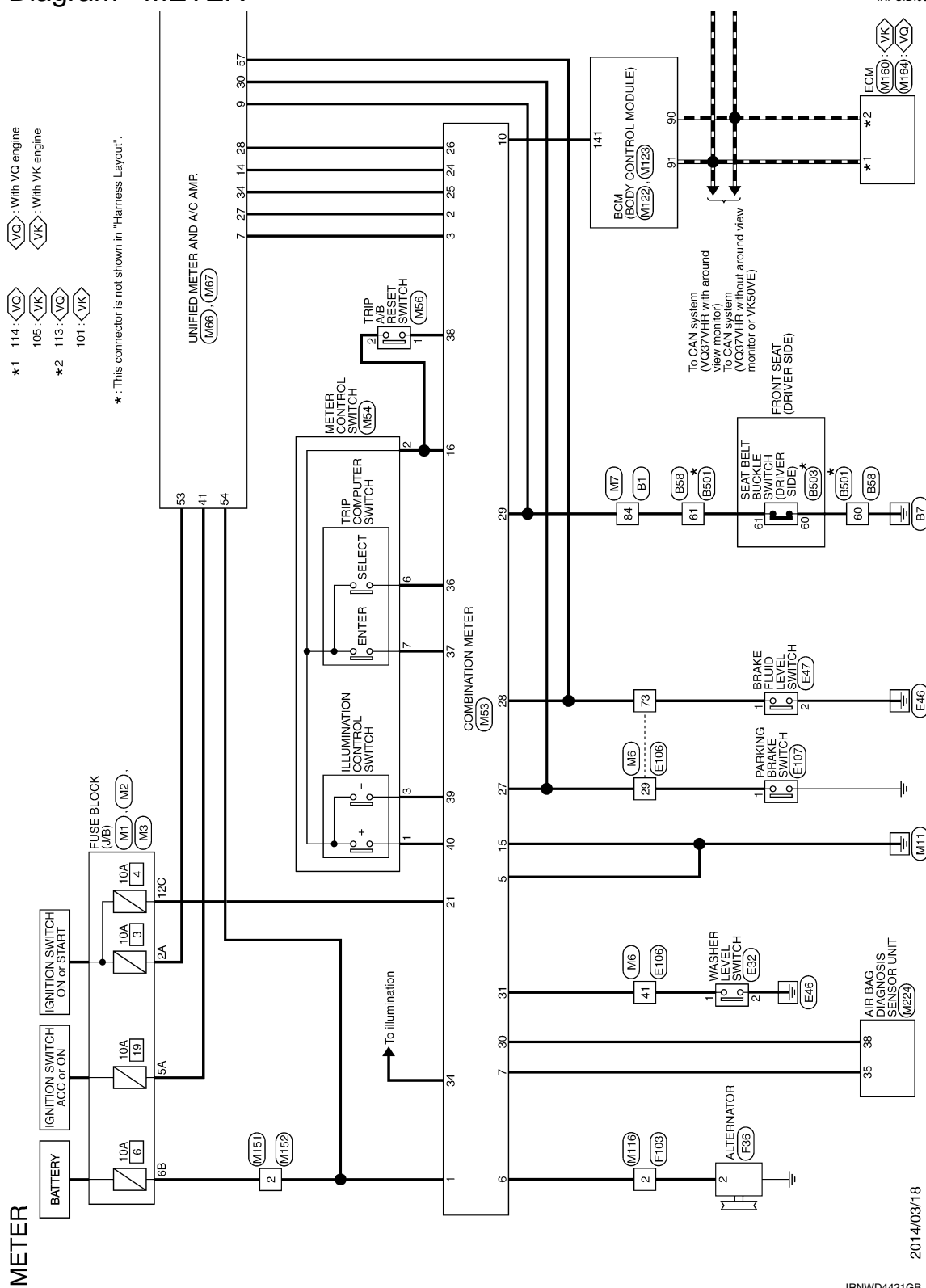
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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

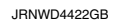
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	—	Signal name	Input/ Output			
34 (Y)	Ground	Communication signal (AMP. → LCD)	Output	Ignition switch ON	—	 JSNIA0027GB
41 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
42 (Y)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	 SKIB8867E
45 (P)	Ground	Ambient sensor signal	Input	—	—	 JSNIA0014GB
53 (G)	Ground	Ignition power supply	Input	Ignition switch ON	—	Battery voltage
54 (BG)	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 (B)	Ground	Fuel level sensor ground	—	Ignition switch ON	—	0 V
61 (BR)	Ground	Ambient sensor ground	—	Ignition switch ON	—	0 V
71 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
72 (P)	Ground	CAN-L	—	—	—	—

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JRNWD4421GB

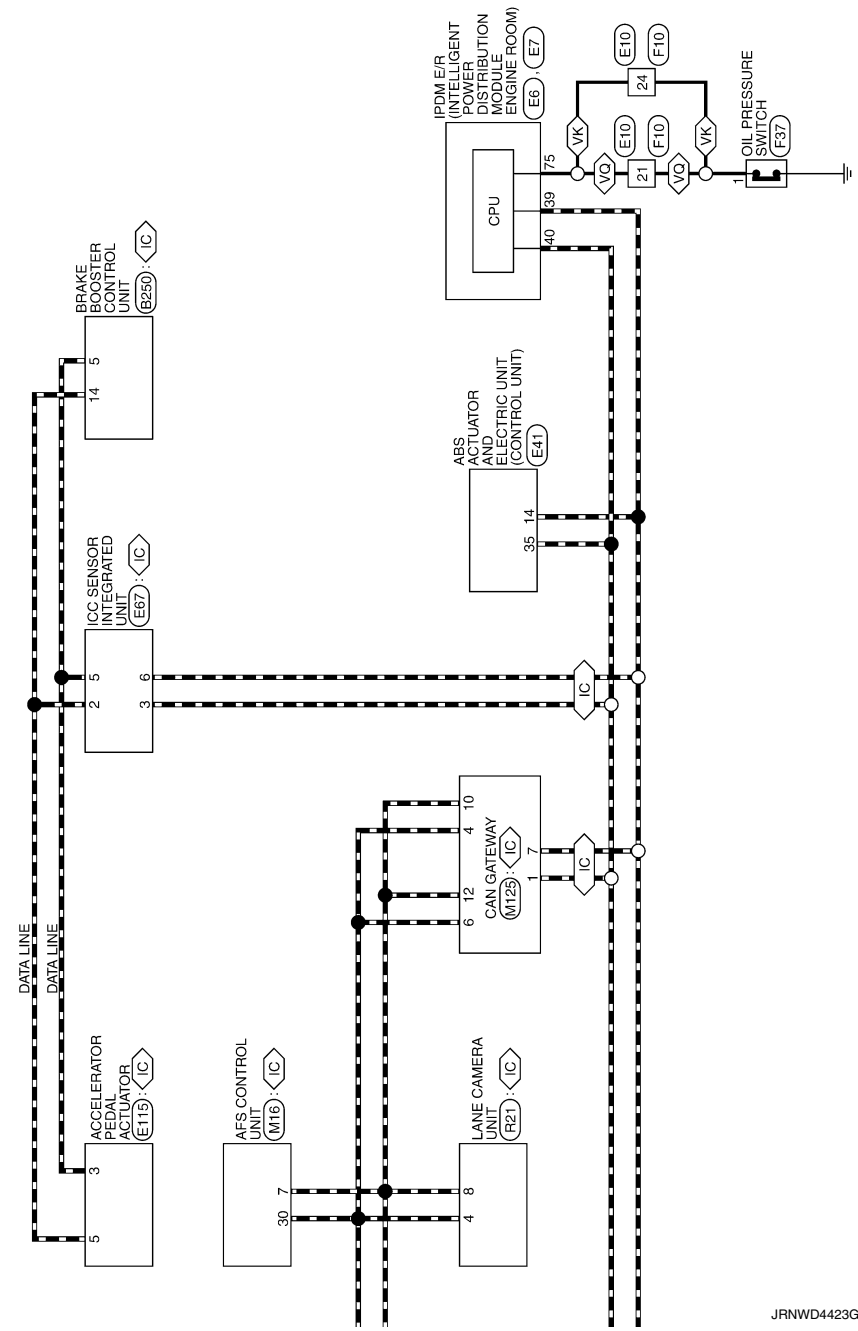
< ECU DIAGNOSIS INFORMATION >



UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

VQ : With VQ engine
 VK : With VK engine
 IC : With ICC



JRNWD4423GB

WCS

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

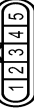


Terminal No.	Color	Wire	Signal Name [Specification]
1	G	-	-
2	L	-	-
3	W	-	-
4	G	-	-
5	P	-	-
6	B	-	-
7	GR	-	-
8	SB	-	-
9	SB	-	-
10	B	-	-
11	G	-	-
12	R	-	-
13	W	-	-
14	SHIELD	-	-
15	L	-	-
16	P	-	-
17	GR	-	-
18	SB	-	-
19	B	-	-
20	G	-	-
21	W	-	-
22	V	-	-
23	P	-	-
24	BR	-	-
25	GR	-	-
26	B	-	-
27	W	-	-
28	GR	-	-
29	B	-	-
30	G	-	-
31	W	-	-
32	GR	-	-
33	SB	-	-
34	V	-	-
35	GR	-	-
36	SB	-	-
37	SHIELD	-	-
38	BR	-	-
39	Y	-	-
40	SHIELD	-	-

Connector No.	B21
Connector Name	FUEL LEVEL SENSOR UNIT (SUB)
Connector Type	E02FGY-RS

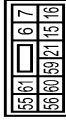


Terminal No.	Color	Wire	Signal Name [Specification]
1	Y	-	-
2	W	-	-



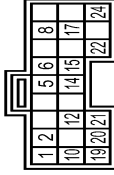
Terminal No.	Color	Wire	Signal Name [Specification]
1	BR	-	- [With VK engine]
2	GR	-	- [With EVAP and VQ engine]
3	L	-	- [Without EVAP and VQ engine]
4	W	-	- [Without EVAP and VQ engine]
5	B	-	- [With VK engine]
6	G	-	- [With EVAP and VQ engine]
7	Y	-	- [With EVAP and VQ engine]
8	R	-	-
9	B	-	-

Connector No.	B58
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color	Wire	Signal Name [Specification]
55	V	-	-
56	GR	-	-
57	BR	-	-
58	P	-	-
59	RG	-	-
60	G	-	-
61	L	-	-
62	LG	-	-
63	B	-	-
64	SB	-	-

Connector No.	B250
Connector Name	BRAKE BOOSTER CONTROL UNIT
Connector Type	TK24FW



Terminal No.	Color	Wire	Signal Name [Specification]
1	W	-	BATTERY
2	W	-	BATTERY
3	P	-	ITS COMM-L
4	SB	-	RELEASE SW PWR
5	R	-	BRAKE PRESSURE SEN PWR
6	G	-	BOOSTER SOL GND
7	R	-	BOOSTER SOL GND
8	L	-	ITS COMM-H
9	V	-	RELEASE SW (NC)

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	Signal Name [Specification]
41 W	- [With VQ engine]
41 Y	- [With VK engine]
42 LG	- [With VQ engine]
42 SHIELD	- [With VK engine]
43 G	- [With VQ engine]
43 W	- [With VK engine]
44 G	-
45 L	-
46 G	- [With VK engine]
46 SHIELD	- [With VQ engine]
47 B	- [With VK engine]
47 W	- [With VQ engine]
48 BR	- [With VQ engine]
48 R	- [With VK engine]
49 G	- [With VQ engine]
49 L	- [With VK engine]
50 B	- [With VQ engine]
50 G	- [With VK engine]
51 B	- [With VQ engine]
51 SB	- [With VK engine]
52 R	-

Connector No.	Signal Name [Specification]
E32	WASHER LEVEL SWITCH
Connector Type	202FBR



Terminal No.	Wire	Signal Name [Specification]
1 LG		
2 BW		

Connector No.	Signal Name [Specification]
E41	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA42FBAHZ4-LH



Terminal No.	Wire	Signal Name [Specification]
1 B		GROUND
2 G		LBAR
3 R		LBVR
4 B		GROUND
5 Y		DS FL
6 BG		DP RL
7 BR		DP RR
9 B		DP FR
10 W		DS FR
12 L		VAC
14 P		CANL
15 SHIELD		AGND
19 P		UST
25 Y		BUS-L
26 R		DP FL
27 GR		DS RL
28 G		UZ
29 LG		DS RR
30 SB		BLS
31 R		VDC OFF SW
35 L		CAN-H
45 B		BUS-H

Connector No.	Signal Name [Specification]
E47	BRAKE FLUID LEVEL SWITCH
Connector Type	YV02FGY



Terminal No.	Wire	Signal Name [Specification]
1 R		
2 B		

Connector No.	Signal Name [Specification]
E67	ICC SENSOR INTEGRATED UNIT
Connector Type	RS08FB-PR



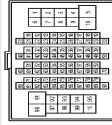
Terminal No.	Wire	Signal Name [Specification]
1 R		IGNITION
2 L		ITS COMM-H
3 L		CAN-H
4 B		GROUND
5 P		ITS COMM-L
6 P		CAN-L

Connector No.	Signal Name [Specification]
E76	AMBIENT SENSOR
Connector Type	RS02FB



Terminal No.	Wire	Signal Name [Specification]
1 G		
2 P		

Connector No.	Signal Name [Specification]
E106	WIRE TO WIRE
Connector Type	TH60FW-CS16-TM4



Terminal No.	Wire	Signal Name [Specification]
1 G		
2 BG		
3 SB		
4 LG		
5 Y		
6 W		
7 G		
8 V		
9 R		
10 BR		
11 B		
12 G		
13 R		
14 W		
15 SHIELD		
16 SB		
17 L		
18 P		

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

19	G	-	-	-	-
20	W	-	-	-	-
21	G	-	-	-	-
22	Y	-	-	-	-
23	BR	-	-	-	-
24	L	-	-	-	-
25	R	-	-	-	-
26	LG	-	-	-	-
27	W	-	-	-	-
28	G	-	-	-	-
29	Y	-	-	-	-
30	BR	-	-	-	-
31	LG	-	-	-	-
32	W	-	-	-	-
33	Y	-	-	-	-
34	BR	-	-	-	-
35	W	-	-	-	-
36	GR	-	-	-	-
37	Y	-	-	-	-
38	GR	-	-	-	-
39	LG	-	-	-	-
40	Y	-	-	-	-
41	LG	-	-	-	-
42	V	-	-	-	-
43	R	-	-	-	-
44	G	-	-	-	-
45	GR	-	-	-	-
46	W	-	-	-	-
47	L	-	-	-	-
48	P	-	-	-	-
49	SB	-	-	-	-
50	BR	-	-	-	-
51	B	-	-	-	-
52	Y	-	-	-	-
53	BG	-	-	-	-
54	R	-	-	-	-
55	SB	-	-	-	-
56	P	-	-	-	-
57	SB	-	-	-	-
58	V	-	-	-	-
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62	P	-	-	-	-
63	LG	-	-	-	-
64	L	-	-	-	-
65	BG	-	-	-	-
66	LG	-	-	-	-
67	L	-	-	-	-
68	SHIELD	-	-	-	-
69	Y	-	-	-	-
70	G	-	-	-	-
71	R	-	-	-	-
72	G	-	-	-	-
73	R	-	-	-	-
74	BR	-	-	-	-
75	L	-	-	-	-

77	W	-	-	-	-
78	Y	-	-	-	-
79	SB	-	-	-	-
80	L	-	-	-	-
81	W	-	-	-	-
82	LG	-	-	-	-
83	GR	-	-	-	-
84	G	-	-	-	-
85	P	-	-	-	-
86	W	-	-	-	-
87	W	-	-	-	-
88	BG	-	-	-	-
89	LG	-	-	-	-
90	BR	-	-	-	-
91	GR	-	-	-	-
92	BR	-	-	-	-
93	SB	-	-	-	-
94	Y	-	-	-	-
95	W	-	-	-	-
96	W	-	-	-	-
97	SHIELD	-	-	-	-
98	Y	-	-	-	-
99	Y	-	-	-	-

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

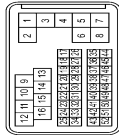


Connector No.	E115
Connector Name	ACCELERATOR PEDAL ACTUATOR
Connector Type	KDZ06FB



Terminal No.	Color	Off Wire	Signal Name [Specification]
1	R	IGNITION	
2	BG	BATTERY	
3	P	ITS COM+L	
4	B	GROUND	
5	L	ITS COM+H	

Connector No.	F10
Connector Name	WIRE TO WIRE
Connector Type	ISA03FB-RS9-SH2B



Terminal No.	Color	Off Wire	Signal Name [Specification]
1	G		
2	SHIELD		
3	BR		
4	BR		
5	B		
6	BR		
7	G		
8	SHIELD		

8	W	-	-	-	-
9	W	-	-	-	-
10	G	-	-	-	-
11	R	-	-	-	-
12	Y	-	-	-	-
13	P	-	-	-	-
14	V	-	-	-	-
15	L	-	-	-	-
16	P	-	-	-	-
17	W	-	-	-	-
18	L	-	-	-	-
19	LG	-	-	-	-
20	O	-	-	-	-
21	R	-	-	-	-
22	Y	-	-	-	-
23	B	-	-	-	-
24	G	-	-	-	-
25	LG	-	-	-	-
26	Y	-	-	-	-
27	Y	-	-	-	-
28	LG	-	-	-	-
29	P	-	-	-	-
30	GR	-	-	-	-
31	BR	-	-	-	-
32	G	-	-	-	-
33	W	-	-	-	-
34	L	-	-	-	-
35	SB	-	-	-	-
36	O	-	-	-	-
37	P	-	-	-	-
38	SHIELD	-	-	-	-
39	Y	-	-	-	-
40	SHIELD	-	-	-	-
41	W	-	-	-	-

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	F37	Oil Pressure Switch
Connector Name	OIL PRESSURE SWITCH	
Connector Type	E0TFGY-RS-AR	
Terminal No.	Wire	Signal Name [Specification]
39	W	- [With VK engine]
39	Y	- [With VQ engine]
40	G	- [With VQ engine]
40	SHIELD	- [With VK engine]
41	B	- [With VQ engine]
41	Y	- [With VK engine]
42	GR	- [With VQ engine]
42	SHIELD	- [With VK engine]
43	R	- [With VQ engine]
43	W	- [With VK engine]
44	LG	-
45	L	-
46	G	- [With VK engine]
46	SHIELD	- [With VQ engine]
47	B	- [With VK engine]
47	W	- [With VQ engine]
48	LG	- [With VK engine]
48	R	- [With VQ engine]
49	G	- [With VK engine]
49	L	- [With VQ engine]
50	B	- [With VK engine]
50	G	- [With VQ engine]
51	B	- [With VK engine]
51	W	- [With VQ engine]
52	R	-



Connector No.	F37	Oil Pressure Switch
Connector Name	OIL PRESSURE SWITCH	
Connector Type	E0TFGY-RS-AR	



Connector No.	F103	WIRE TO WIRE
Connector Name	WIRE TO WIRE	
Connector Type	TK36FW-AS10	



Connector No.	F151	TCM
Connector Name	TCM	
Connector Type	SP10FG	



Terminal No.	Wire	Signal Name [Specification]
1	Y	-

Connector No.	F51	AT ASSEMBLY
Connector Name	AT ASSEMBLY	
Connector Type	RK10FG-DGY	



Terminal No.	Wire	Signal Name [Specification]
2	G	-
3	W	- [With VK engine]
4	GR	- [With VQ engine]
4	R	- [With VQ engine]
5	B	- [With VK engine]
5	R	- [With VQ engine]
7	B	- [With VK engine]
9	W	- [With VK engine]
9	Y	- [With VQ engine]
10	GR	- [With VQ engine]
10	L	- [With VK engine]
19	O	-
20	Y	-
27	L	-
28	B	-
29	LG	-
31	R	-
34	LG	-
35	BR	-
36	W	-
37	Y	-
38	Y	-
43	P	-
44	L	-
45	Y	-
46	V	-

Terminal No.	Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	R	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	CAN-H
4	V	KL-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	P	CAN-L
9	GR	STARTER RELAY [With VQ engine]
9	LG	STARTER RELAY [With VK engine]
10	B	GROUND

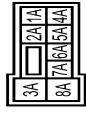


Connector No.	F36	ALTERNATOR
Connector Name	ALTERNATOR	
Connector Type	HS03FB	

Terminal No.	Wire	Signal Name [Specification]
2	G	L
3	O	S [With VK engine]
3	V	S [With VQ engine]
4	P	C [With VK engine]
4	W	C [With VQ engine]

Terminal No.	Wire	Signal Name [Specification]
1	W	IGNITION POWER SUPPLY
2	B	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	R	CAN-H
4	O	KL-LINE
5	G	GROUND
6	GR	IGNITION POWER SUPPLY
7	L	BACK-UP LAMP RELAY
8	BR	CAN-L
9	Y	STARTER RELAY
10	W/B	GROUND

Connector No.	M1	FUSE BLOCK (JB)
Connector Name	FUSE BLOCK (JB)	
Connector Type	NS06FW-M2	



Terminal No.	Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

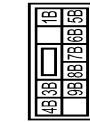
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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

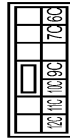
METER

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



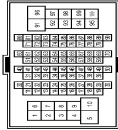
Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	LG	-
12C	R	-
6C	P	-
7C	B	-
9C	BG	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	- [Without Auto aircon seat]
4	SB	- [With Auto aircon seat]
5	LG	-
6	GR	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- [Without ICC]
21	BR	- [With ICC]
22	L	- [Without ICC]
23	R	- [With ICC]
24	L	- [Without ICC]
25	W	- [With ICC]
26	SHIELD	-
27	GR	-
28	BG	-
29	W	-
30	BR	-
31	W	-

33	Y	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
69	V	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
76	V	-
77	V	-
78	Y	-
80	BG	-
81	L	-
82	W	-
83	Y	-
84	L	-
85	P	-
86	BR	-
87	P	-
88	V	-
89	G	-
90	P	-
91	R	-
92	R	-
93	GR	-

95	G	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With Auto aircon seat]
2	Y	- [Without Auto aircon seat]
3	B	-
4	W	-
5	P	-
6	P	-
7	V	-
8	BG	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	R	-
21	LG	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	W	-

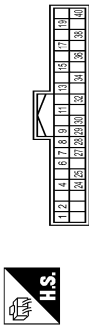
UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

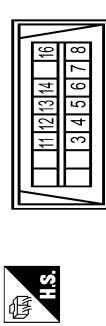
45	B	-
51	V	-
52	LG	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	BR	-
62	R	-
63	Y	-
64	L	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	V	-
71	W	-
72	B	-
73	W	-
74	LG	-
75	P	-
76	LG	-
77	SB	-
78	GR	-
79	R	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	W	-
86	Y	-
87	B	-
88	G	-
89	BG	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	R	-
99	BG	-

Connector No.	M16
Connector Name	AFS CONTROL UNIT
Connector Type	TH40FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGN
2	LG	PSG-R
3	Y	PSG-R
4	Y	PSG-R
5	W	PSG-R
6	V	HSV-R
7	P	CAN-L
8	B	HSG-R
9	GR	PSR
10	R	SMR-1(+)
11	B	SMR-2(+)
12	G	SMR-1(-)
13	W	SMR-2(-)
14	LG	SMR-1(+)
15	G	SMR-2(+)
16	SB	AMDS-R
17	W	PSV-L
18	V	GROUND
19	B	PSG-L
20	BR	HSR
21	SB	PS-L
22	BG	CAN-H
23	L	SMR-2(+)
24	G	SMR-1(+)
25	W	SMR-2(-)
26	R	SMR-1(-)
27	B	AMDS-L

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
9	SB	-
10	P	-
11	L	-
12	P	-
13	L	-
14	P	-
15	BG	-
16	-	-

Connector No.	M38
Connector Name	PADDLE SHIFTER (SHIFT-UP)
Connector Type	A04FW



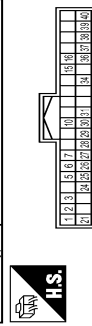
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	BG	-

Connector No.	M39
Connector Name	PADDLE SHIFTER (SHIFT-DOWN)
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	G	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	W	ALTERNATOR SIGNAL
7	P	AIR BAG SIGNAL
10	G	SECURITY INDICATOR SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
21	R	IGNITION SIGNAL
24	BR	COMMUNICATION SIGNAL (LCD->AMP)
25	Y	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT SWITCH SIGNAL (LOWER SIDE)
30	G	PASSENGER SEAT BELT WARNING SIGNAL
31	L	WASHER LEVEL SWITCH SIGNAL

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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

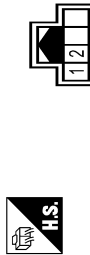
34	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP A/B RESET SWITCH SIGNAL (-)
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

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



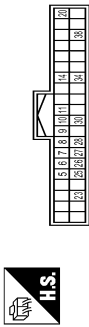
Terminal No.	Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	P	-
4	R	-
5	B	-
6	LG	-
7	SB	-

Connector No.	M56
Connector Name	TRIP A/B RESET SWITCH
Connector Type	TH14MW-NH



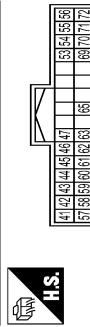
Terminal No.	Wire	Signal Name [Specification]
1	L	-
2	B	-

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



Terminal No.	Wire	Signal Name [Specification]
5	L	MANUAL MODE SHIFT UP SIGNAL
6	BG	PADDLE SHIFTER UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	L	VEHICLE SPEED SIGNAL (2-PULSE)
9	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	BR	COMMUNICATION SIGNAL (LCD->AMP)
20	L	ION SENSOR SIGNAL
23	Y	AT SNOW SWITCH SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
26	G	PADDLE SHIFTER DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP)
28	R	VEHICLE SPEED SIGNAL (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL
34	Y	COMMUNICATION SIGNAL (AMP->LCD)
38	L	BLOWER MOTOR CONTROL SIGNAL

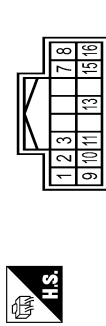
Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL

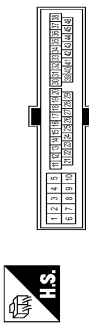
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	IGN MODE SIGNAL
65	BG	ECV SIGNAL
66	L	A/C CLAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

Connector No.	M105
Connector Name	AWD CONTROL UNIT
Connector Type	TH16FW-NH



Terminal No.	Wire	Signal Name [Specification]
1	BR	AWD SOL (+)
2	Y	AWD SOL (-)
3	W	FLUID TEMP (-)
7	GR	IGN
8	L	CAN-H
9	BG	AWD SOL BAT
10	B	GROUND
11	B	GROUND
13	LG	FLUID TEMP (+)
15	Y	BATTERY
16	P	CAN-L

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10



Terminal No.	Wire	Signal Name [Specification]
2	W	-
3	L	-
4	B	- [With VK engine]
4	R	- [With VQ engine]
5	B	- [With VQ engine]
5	R	- [With VK engine]
7	B	-
9	L	- [With VK engine]
9	R	- [With VQ engine]
10	R	-
19	BG	-
20	Y	-
27	L	-
28	B	-
29	LG	-
31	W	-
34	LG	-
35	BR	-
36	W	-
37	Y	-
38	BG	-
43	P	-
44	L	-
45	G	-
46	Y	-

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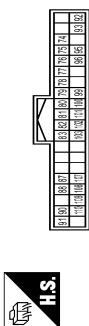
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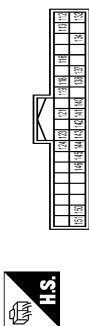
METER

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



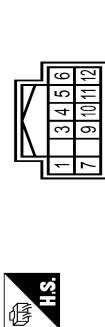
Terminal No.	Color Of Wire	Signal Name [Specification]
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	V	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	NATS ANT AMP-
81	W	NATS ANT AMP+
82	P	IGN RELAY (P/B) CONT
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CANL
91	L	CANH
92	LG	KEY SLOT ILL
93	V	ON IND
95	BG	ACC RELAY CONT
96	GR	AT SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



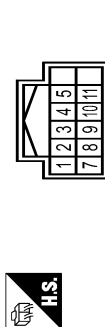
Terminal No.	Color Of Wire	Signal Name [Specification]
112	GR	RAIN SENSOR SERIAL LINK
113	P	OPTICAL SENSOR
116	BR	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
123	W	IGN P/B
124	LG	PASSENGER DOOR SW
132	BG	POWER WINDOW SW COM1
134	GR	LOCK IND
137	B	RECEIVER/SENSOR GND
138	Y	SECURITY INDICATOR OUTPUT
140	R	SHIFT NP
141	G	SECURITY INDICATOR OUTPUT
142	BG	COMBI SW OUTPUT 5
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 DEFROGGER RELAY CONT

Connector No.	M125
Connector Name	CAN GATEWAY
Connector Type	TH12FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CANH
3	GR	BATTERY
4	L	CANH
5	B	GROUND
6	L	CANH
7	P	CANL
8	LG	IGNITION
10	P	CANL
11	B	GROUND
12	P	CANL

Connector No.	M137
Connector Name	AT SHIFT SELECTOR
Connector Type	TH12FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
7	BG	-
8	SB	-
9	B	-
10	GR	-
11	R	-

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

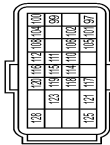
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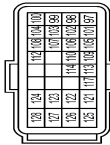
METER

Connector No.	M160
Connector Name	ECM
Connector Type	RH24FGY-R28-LH-Z



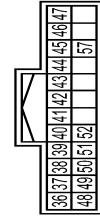
Terminal No.	Color	Wire	Signal Name [Specification]
97	R		ENGINE SPEED SIGNAL OUTPUT
98	G		SENSOR POWER SUPPLY
99	G		SENSOR POWER SUPPLY
100	L		CAN COMMUNICATION LINE
101	P		CAN COMMUNICATION LINE
102	SB		ASC/DC STEERING SWITCH
104	R		ACCELERATOR PEDAL POSITION SENSOR 1
105	L		CAN COMMUNICATION LINE
106	P		IGNITION SWITCH
110	P		STOP LAMP SWITCH
111	V		SENSOR GROUND
112	LG		FUEL PUMP CONTROL MODULE (FFCM) CHECK
114	GR		DATA LINK CONNECTOR
115	GR		SENSOR GROUND
116	G		TRANSMISSION RANGE SWITCH
117	BR		ASC/DC BRAKE SWITCH
118	R		POWER SUPPLY FOR ECM (BACK-UP)
119	W		SENSOR GROUND
120	W		FUEL TANK TEMPERATURE SENSOR
121	GR		POWER SUPPLY FOR ECM
123	B		ECM GROUND
125	R		FUEL PUMP CONTROL MODULE (FFCM)
128	B		ECM GROUND

Connector No.	M164
Connector Name	ECM
Connector Type	RH24FGY-R28-LH-Z



Terminal No.	Color	Wire	Signal Name [Specification]
97	R		ACCELERATOR PEDAL POSITION SENSOR 1
98	P		ACCELERATOR PEDAL POSITION SENSOR 2 (ENGINE VOLT)
99	G		SENSOR POWER SUPPLY (With NAVI)
99	L		SENSOR POWER SUPPLY (Without NAVI)
100	W		SENSOR GROUND
101	SB		ASC/DC STEERING SWITCH
102	LG		EVAP CONTROL SYSTEM PRESSURE SENSOR
103	G		SENSOR POWER SUPPLY (Without NAVI)
103	L		SENSOR POWER SUPPLY (With NAVI)
104	BR		SENSOR GROUND (Without NAVI)
104	GR		SENSOR GROUND (With NAVI)
105	L		REFRIGERANT PRESSURE SENSOR
106	W		FUEL TANK TEMPERATURE SENSOR
107	BG		SENSOR POWER SUPPLY
108	V		SENSOR GROUND
109	G		PNP SIGNAL
110	R		ENGINE SPEED OUTPUT SIGNAL
112	V		IMPERMEABLE DIAPHRAGM PRESSURE SENSOR (SYSTEM PRESSURE SENSOR)
112	W		CAN COMMUNICATION LINE
114	L		CAN COMMUNICATION LINE
117	GR		DATA LINK CONNECTOR
121	LG		EVAP CANISTER VENT CONTROL VALVE
122	P		STOP LAMP SWITCH
123	B		ECM GROUND
124	B		ECM GROUND
125	GR		POWER SUPPLY FOR ECM
126	BR		ASC/DC BRAKE SWITCH
127	B		ECM GROUND
128	B		ECM GROUND

Connector No.	M202
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH



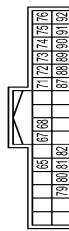
Terminal No.	Color	Wire	Signal Name [Specification]
36	BG		SIGNAL VCC
37	LG		SIGNAL GND
38	R		VP
39	BR		COMM (DSP->CONT)
40	B		RGB AREA (VS) SIGNAL
41	SHIELD		SHIELD
42	G		RGB SYNC
43	B		RGB (RED) SIGNAL
44	W		RGB (GREEN) SIGNAL
45	R		RGB (BLUE) SIGNAL
46	BG		COMPOSITE IMAGE SIGNAL GND
47	SB		COMPOSITE IMAGE SIGNAL
48	Y		INVERTER VCC
49	BR		INVERTER GND
50	W		VP
51	Y		COMM (CONT->DISP)
52	SB		SHIELD
57	SHIELD		SHIELD

Connector No.	M204
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
76	LG		AV COMM (L)
77	SB		AV COMM (H)
78	LG		AV COMM (L)
79	SB		AV COMM (H)
81	L		CAN-L
82	BR		SW GND
86	SHIELD		SHIELD
87	L		TEL VOICE SIGNAL (+)
88	P		TEL VOICE SIGNAL (-)
92	R		VEHICLE SPEED SIGNAL (8-PULSE)
93	V		PARKING BRAKE SIGNAL
94	BG		REVERSE SIGNAL
95	G		IGNITION SIGNAL
96	SB		DISK EJECT SIGNAL
102	B		AUX GND
103	W		AUX AUDIO LH+
104	R		AUX AUDIO RH+

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
65	V		PARKING BRAKE SIGNAL
67	B		COMPOSITE IMAGE SIGNAL GND
68	R		COMPOSITE IMAGE SIGNAL
71	SHIELD		MICROPHONE SHIELD
72	G		MICROPHONE VCC
73	R		COMM (CONT->DISP)
74	P		CAN-L
75	LG		AV COMM (L)
76	LG		AV COMM (L)
78	R		ILLUMINATION
80	G		IGNITION SIGNAL
81	BG		REVERSE SIGNAL
82	R		VEHICLE SPEED SIGNAL (8-PULSE)
87	R		MICROPHONE SIGNAL

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER			
88	B	SHIELD	
89	G	COMM (DISP->CONT)	
90	L	CAN-H	
91	SB	AV COMM (H)	
92	SB	AV COMM (H)	
Connector No.		M224	
Connector Name		AIR BAG DIAGNOSIS SENSOR UNIT	
Connector Type		NH28FY-EX	
Terminal Color Of Wire			
23	Y	INFLATOR AS2+	
24	Y	INFLATOR AS2-	
25	Y	INFLATOR AS1-	
26	Y	INFLATOR AS1+	
27	B	GND	
28	Y	INFLATOR DR2+	
29	Y	INFLATOR DR1+DR2-	
30	Y	INFLATOR DR+	
31	V	ECZS-	
32	BR	SIDE SENS RH2-	
34	G	SIDE SENS RH2-	
35	P	A/B W/L	
38	G	SEATBELT W/L	
39	SHIELD	GND	
41	SB	ECZS+	
42	Y	SIDE SENS RH2+	
44	R	SIDE SENS LH2+	
45	P	CAN LO	
46	L	CAN HI	
47	P	A/B CUTOFF TELLTALE	
50	LG	IGN	

Connector No.	R21	
Connector Name	LANE CAMERA UNIT	
Connector Type	TH38FM-NH	
Terminal Color Of Wire		
1	B	GROUND
2	SB	WARNING SYSTEMS ON INDICATOR
3	V	WARNING SYSTEMS SWITCH
4	L	CAN-H
5	B	GROUND
6	R	LANE DEPARTURE WARNING BUZZER
7	Y	IGNITION POWER SUPPLY
8	P	CAN-L

Fail-Safe

FAIL-SAFE

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

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

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

DTC Index

INFOID:0000000011008646

Display contents of CONSULT	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
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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000011008647

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT 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/AUTO	Off
	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume 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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
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
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	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
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	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated but not monitored.	Off
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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	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
	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
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done

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BCM (BODY CONTROL MODULE)

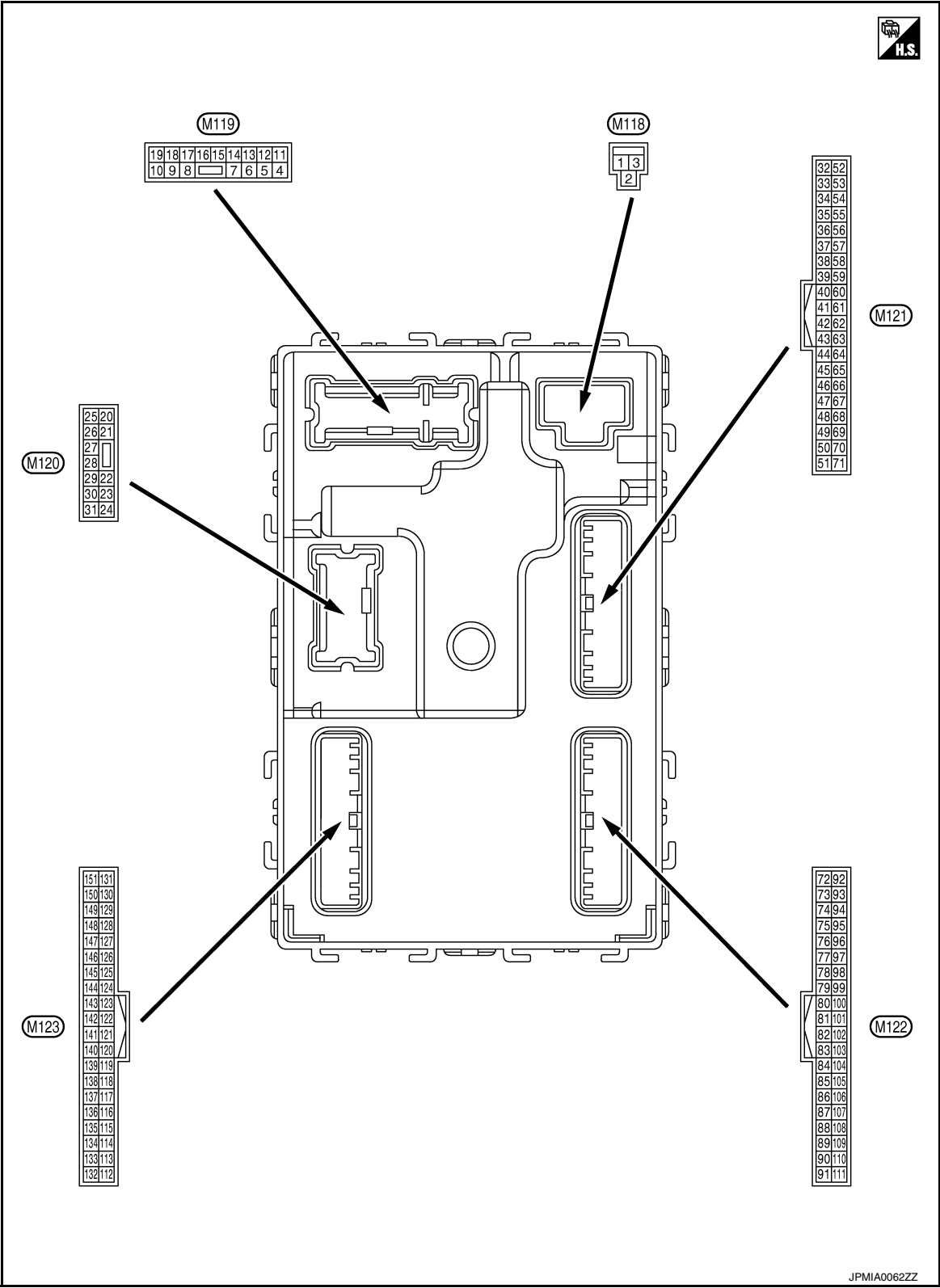
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
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
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



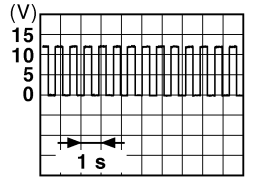
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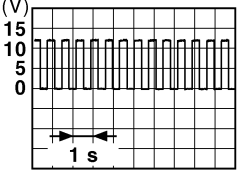
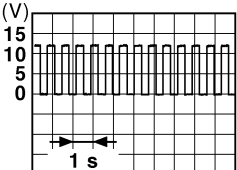
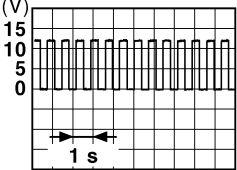
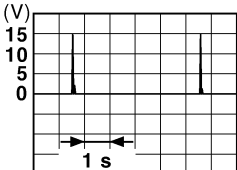
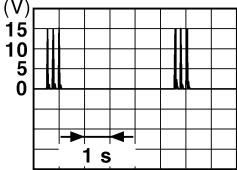
BCM (BODY CONTROL MODULE)

< 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 (BG)	Ground	P/W power supply (IGN)	Output	Ignition switch ON		12 V
4 (P)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		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 control	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	

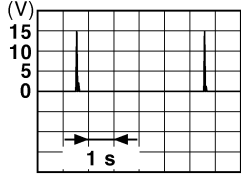
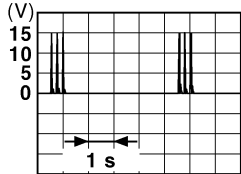
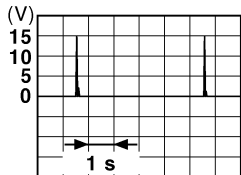
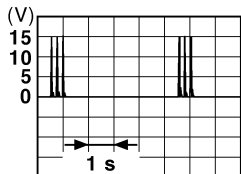
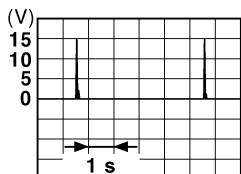
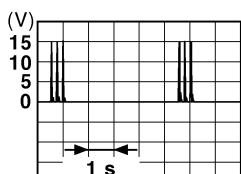
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
19 (SB)	Ground	Interior room lamp control	Output	Other than under condition		5.0 V
				- 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	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
26 (P)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
					ON (Operated)	12 V
34 (SB)	Ground	Luggage room anten- na (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	
					When Intelligent Key is not in the passenger com- partment	

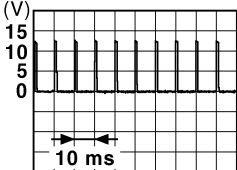
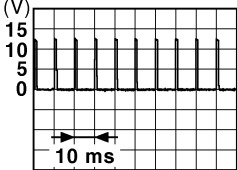
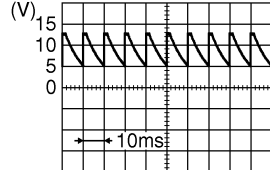
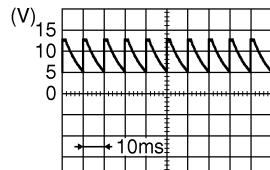
BCM (BODY CONTROL MODULE)

< 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	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
38 (B)	Ground	Back door antenna (-)	Output	When the back door opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
39 (W)	Ground	Back door antenna (+)	Output	When the back door opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V

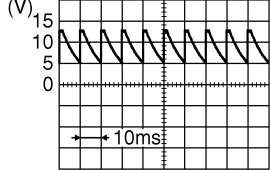
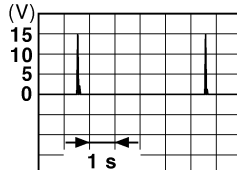
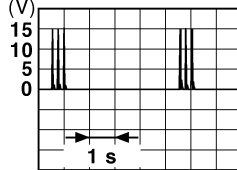
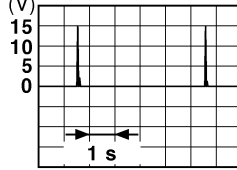
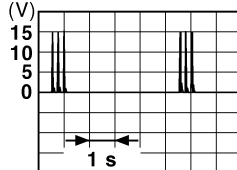
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
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
60 (SB)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ig- nition switch (Push switch)	Pressed	0 V
					Not pressed	12 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 (BG)	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 open- er 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

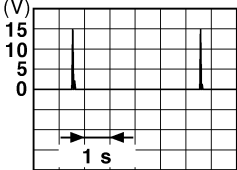
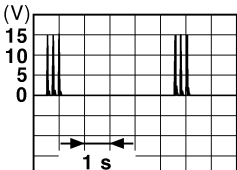
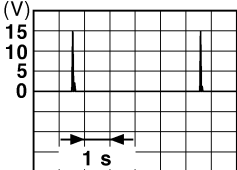
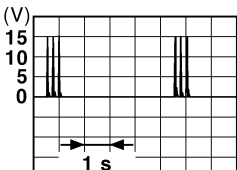
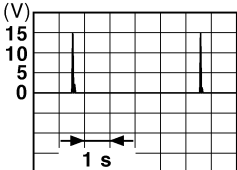
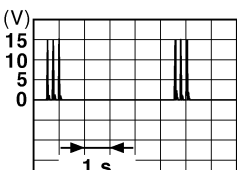
BCM (BODY CONTROL MODULE)

< 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	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
74 (SB)	Ground	Passenger door antenna (-)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
75 (BR)	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

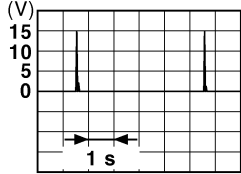
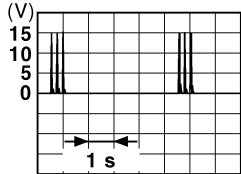
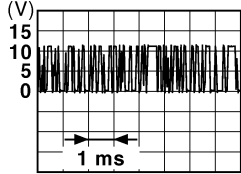
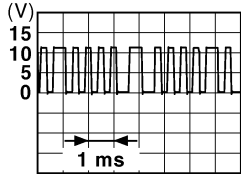
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
76 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detec- tion area	 JMKIA0063GB
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detec- tion area	 JMKIA0063GB
78 (Y)	Ground	Room antenna (-) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compart- ment	 JMKIA0063GB

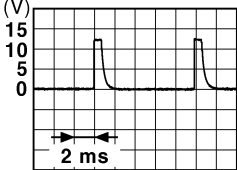
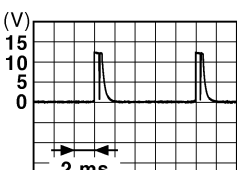
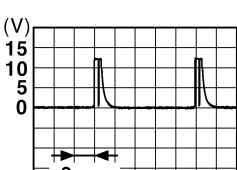
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
79 (BR)	Ground	Room antenna (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger com- partment	 JMKIA0063GB
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent 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 Intelli- gent 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 communica- tion	Input/ Output		During waiting	 JMKIA0064GB
					When operating either button on the Intelli- gent Key	 JMKIA0065GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

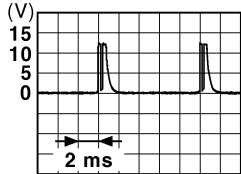
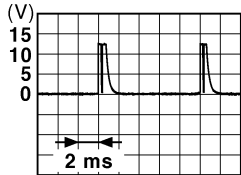
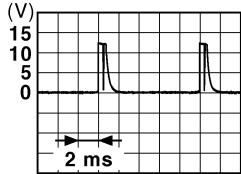
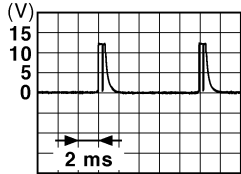
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	 1.4 V
				Front fog lamp switch ON (Wiper volume dial 4)	 1.3 V
				Rear wiper switch ON (Wiper volume dial 4)	 1.3 V
				Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 6 • Wiper volume dial 7	 1.3 V

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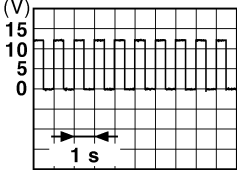
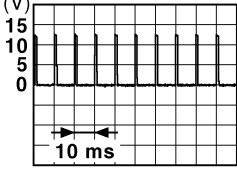
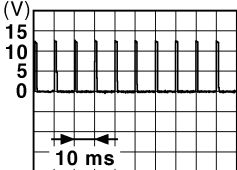
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper volume dial 4)  1.4 V
					Lighting switch HI (Wiper volume dial 4)  1.3 V
					Lighting switch 2ND (Wiper volume dial 4)  1.3 V
					Rear washer switch ON (Wiper volume dial 4)  1.3 V
					Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3  1.3 V
90 (P)	Ground	CAN-L	Input/ Output	—	—
91 (L)	Ground	CAN-H	Input/ Output	—	—

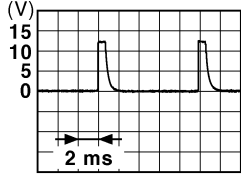
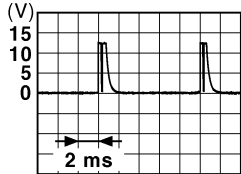
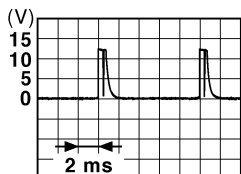
BCM (BODY CONTROL MODULE)

< 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	 JPMIA0015GB 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 (BG)	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
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)	 JPMIA0016GB 1.0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
102 (BG)	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

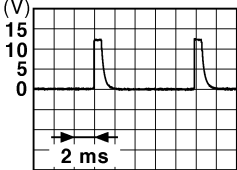
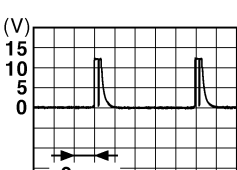
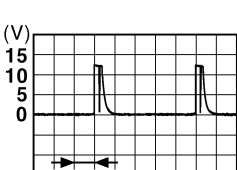
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
107 (LG)	Ground	Combination switch INPUT 1	Input		
				All switches OFF	 JPMIA0041GB 1.4 V
				Turn signal switch LH	 JPMIA0037GB 1.3 V
				Turn signal switch RH	 JPMIA0036GB 1.3 V
				Front wiper switch LO	 JPMIA0038GB 1.3 V
				Front washer switch ON	 JPMIA0039GB 1.3 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

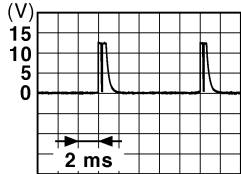
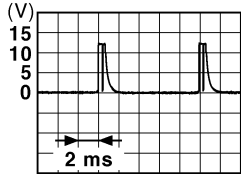
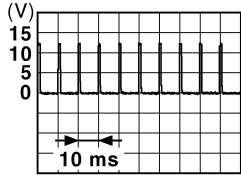
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper volume dial 4)  1.4 V
					Lighting switch AUTO (Wiper volume dial 4)  1.3 V
					Lighting switch 1ST (Wiper volume dial 4)  1.3 V
					Rear wiper switch INT (Wiper volume dial 4)  1.3 V
					Any of the conditions be- low with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6  1.3 V

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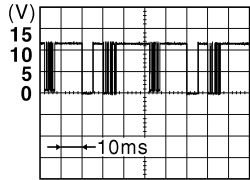
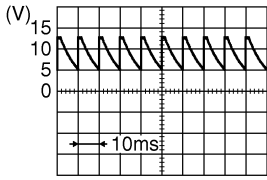
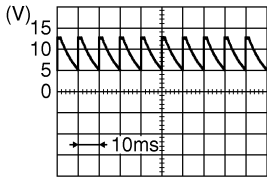
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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

BCM (BODY CONTROL MODULE)

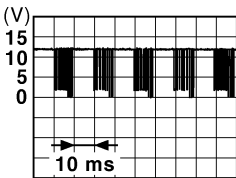
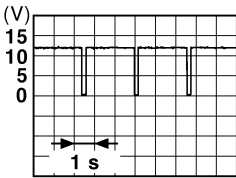
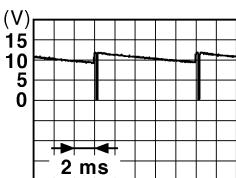
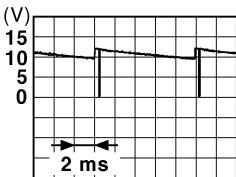
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
112 (GR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		 JPMIA0156GB 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 depressed)	Battery voltage
		Stop lamp switch 2 (With ICC)	Input	Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF		0 V
				Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON		Battery voltage
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 JPMIA0594GB 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
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)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V

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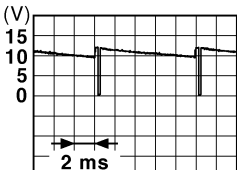
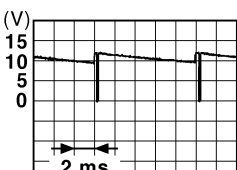
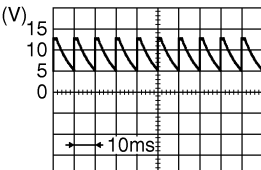
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	−	Signal name	Input/ Output			
132 (BG)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		 JPMIA0013GB 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 lamp	Output	Security indica- tor lamp	ON	0 V
					Blinking	 JPMIA0014GB 11.3 V
					OFF	12 V
142 (BG)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Lighting switch 1ST	 JPMIA0031GB 10.7 V
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	 JPMIA0032GB 10.7 V
					Rear wiper switch INT (Wiper volume dial 4)	
					Any of the conditions be- low with all switches OFF	
					• Wiper volume dial 1	
• Wiper volume dial 2						
• Wiper volume dial 3						
• Wiper volume dial 6						
• Wiper volume dial 7						

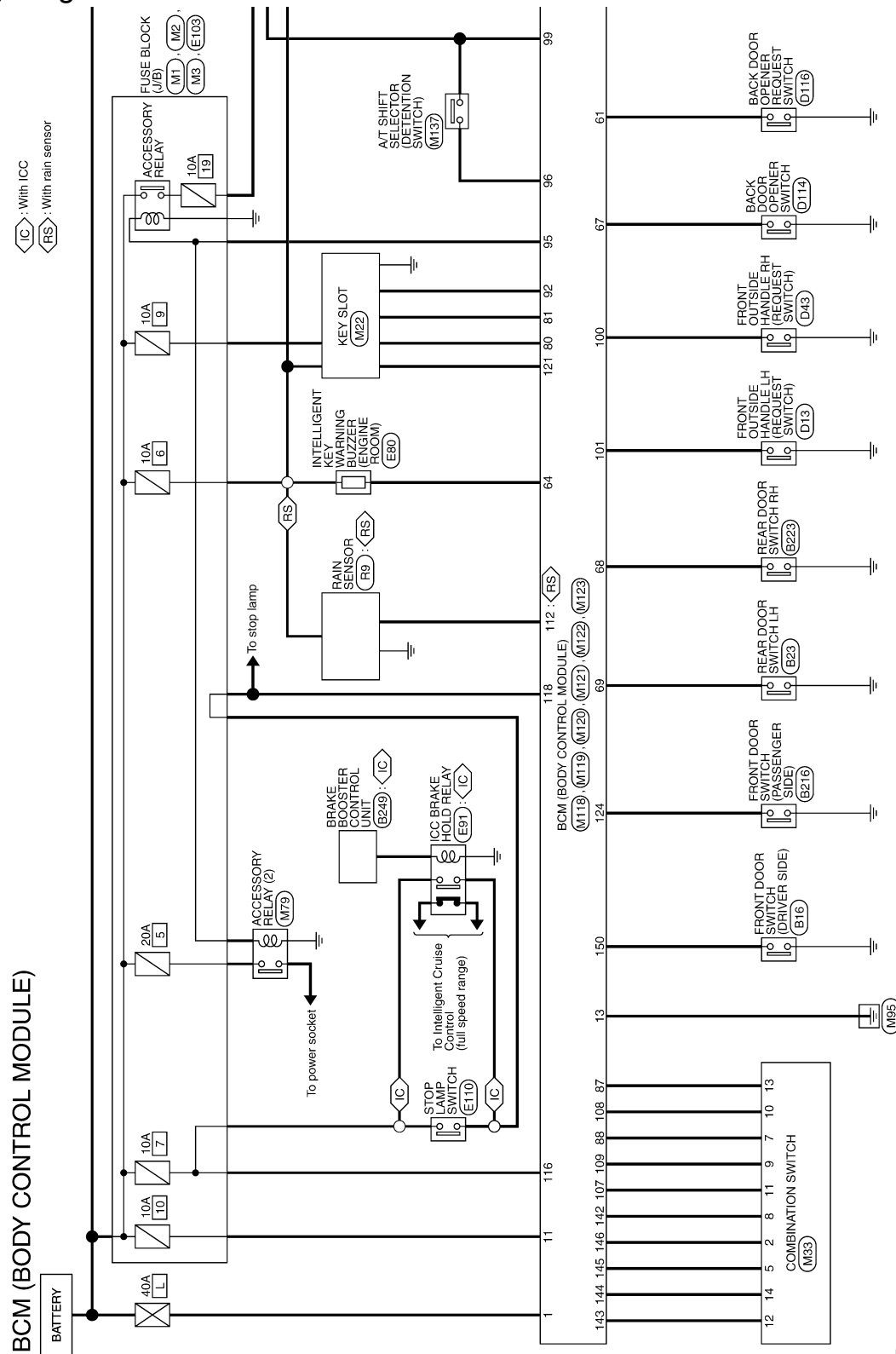
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	
					Rear wiper switch ON (Wiper volume dial 4)	
					Rear washer switch ON (Wiper volume dial 4)	
					Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6	10.7 V
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Front wiper switch INT/ AUTO	
					Front wiper switch LO	
					Lighting switch AUTO	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper volume dial 4)	All switches OFF	0 V
					Front fog lamp switch ON	
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	 8.5 - 9.0 V
					ON (Door open)	0 V
151 (G)	Ground	Rear window defog- ger relay control	Output	Rear window de- fogger	Active	0 V
					Not activated	Battery voltage

Wiring Diagram - BCM -

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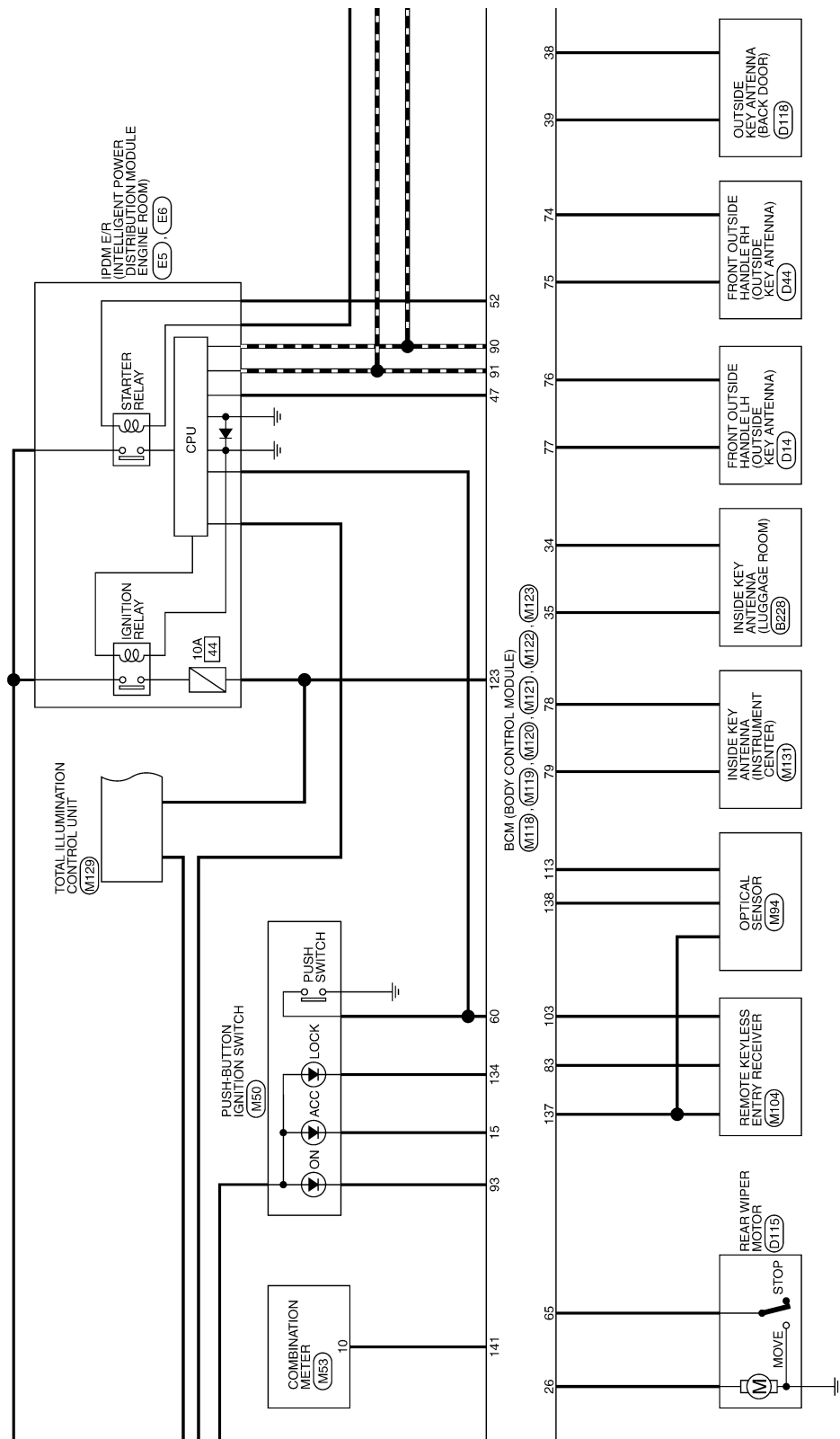


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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



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WCS

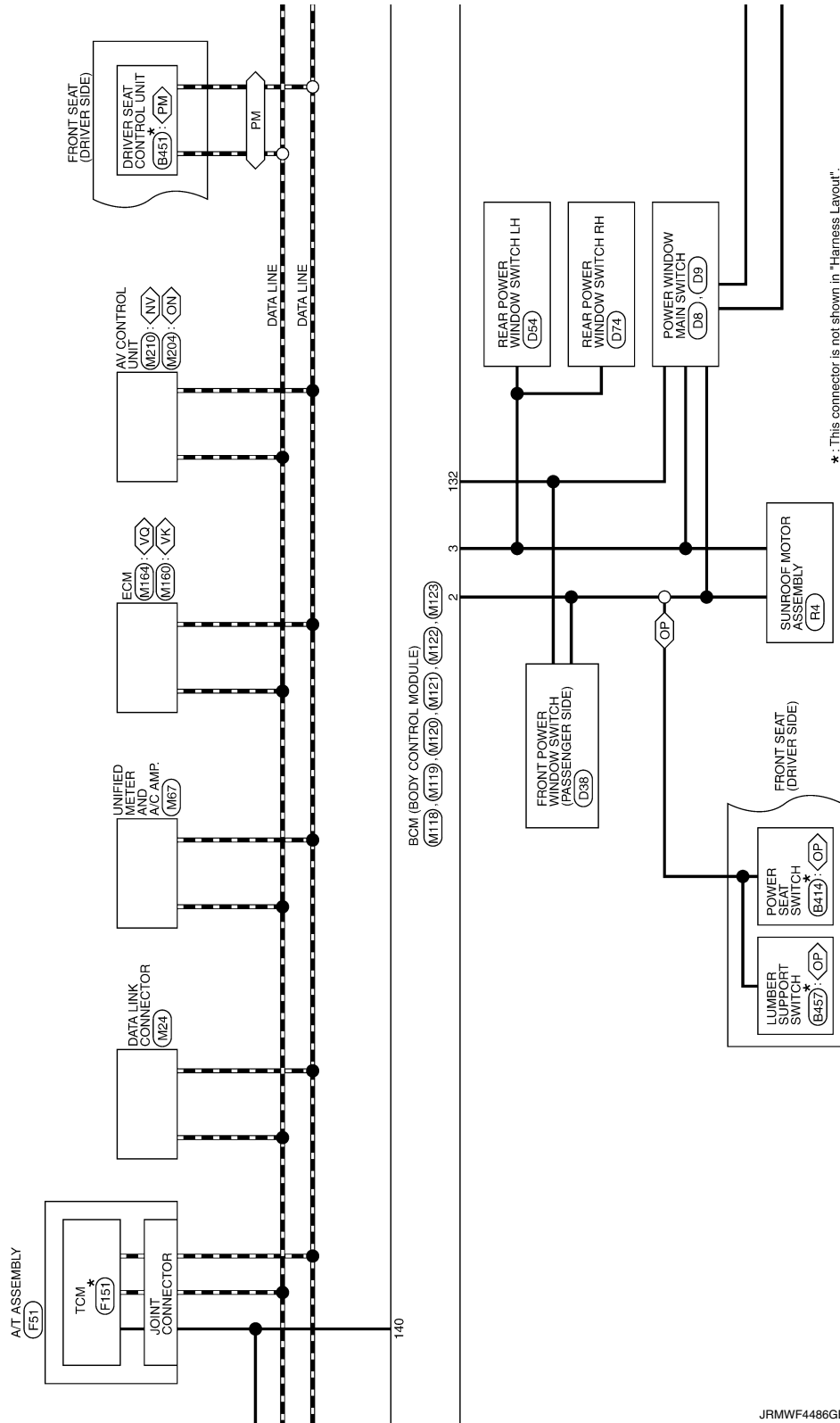
O
P

A
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M

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

- <VQ> : With VQ engine
- <VK> : With VK engine
- <NV> : With NAVI
- <ON> : Without NAVI
- <PM> : With automatic drive positioner
- <OP> : Without automatic drive positioner

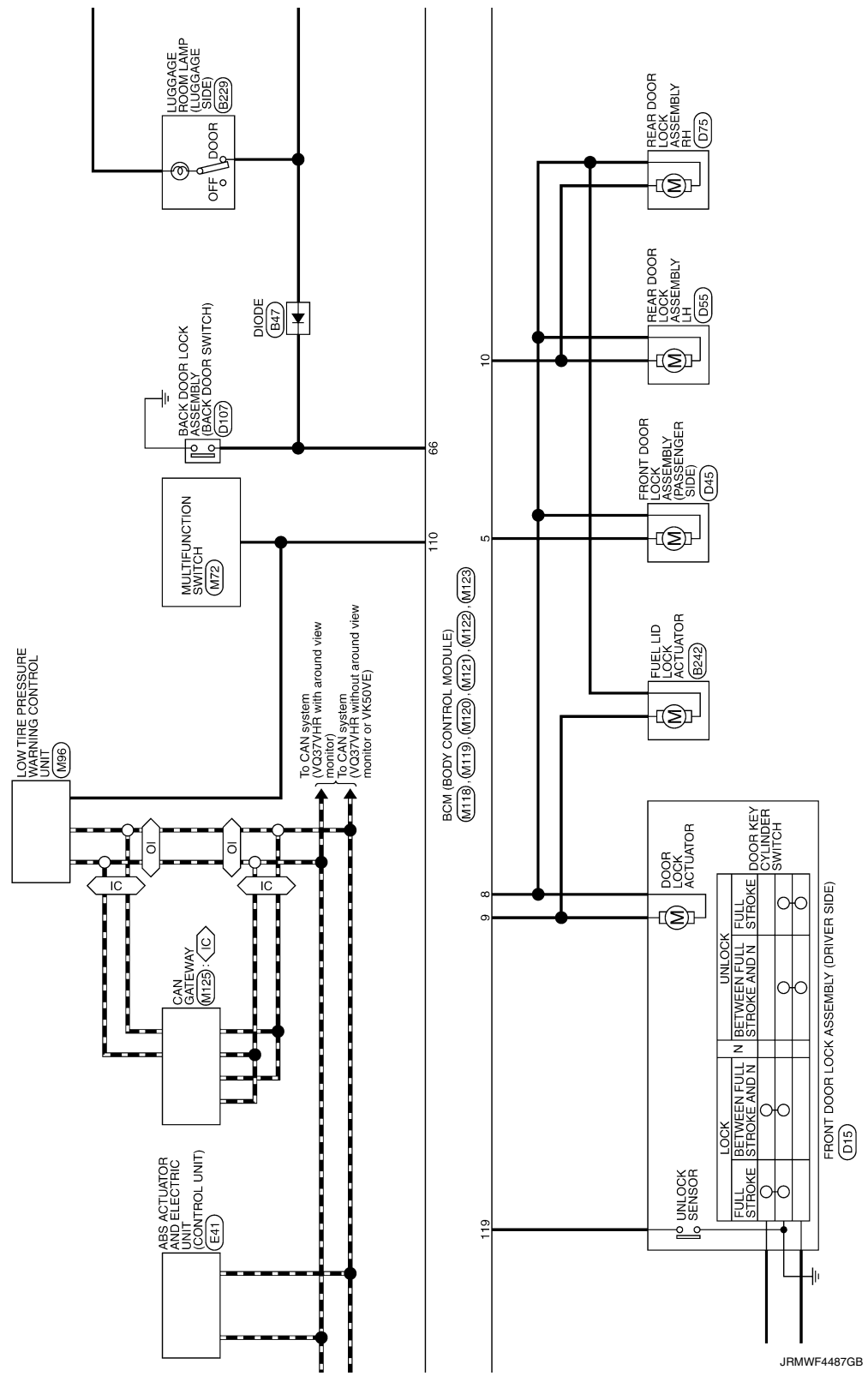


JRMWF4486GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

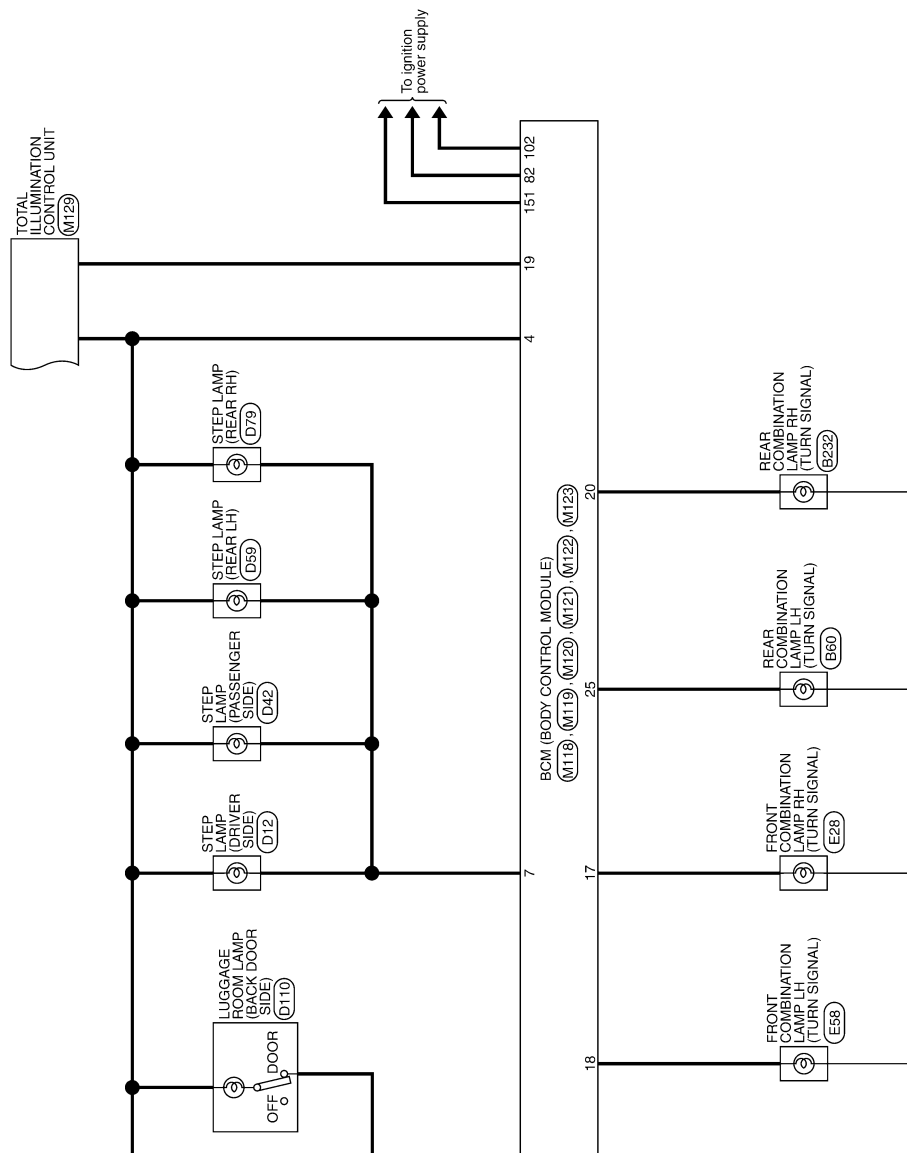
IC : With ICC
OI : Without ICC



A
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WCS
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



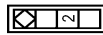
JRMWF4488GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

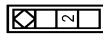
BCM (BODY CONTROL MODULE)

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	2
Wire	GR
Signal Name [Specification]	-

Connector No.	B23
Connector Name	REAR DOOR SWITCH-LH
Connector Type	A03FW



Terminal No.	2
Wire	W
Signal Name [Specification]	-

Connector No.	B47
Connector Name	DIODE
Connector Type	24135_C9000



Terminal No.	1
Wire	GR
Signal Name [Specification]	-



Terminal No.	2
Wire	V
Signal Name [Specification]	-

Terminal No.	1
Wire	R
Signal Name [Specification]	-

Terminal No.	2
Wire	LG
Signal Name [Specification]	-

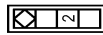
Terminal No.	3
Wire	G
Signal Name [Specification]	-

Terminal No.	4
Wire	B
Signal Name [Specification]	-

Connector No.	B216
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW

Terminal No.	2
Wire	GR
Signal Name [Specification]	-

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



Terminal No.	2
Wire	BG
Signal Name [Specification]	-

Connector No.	B228
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02EGY



Terminal No.	1
Wire	V
Signal Name [Specification]	-

Terminal No.	2
Wire	SB
Signal Name [Specification]	-

Connector No.	B229
Connector Name	LUGGAGE ROOM LAMP (LUGGAGE SIDE)
Connector Type	TK03FW



Terminal No.	1
Wire	W
Signal Name [Specification]	-

Terminal No.	2
Wire	L
Signal Name [Specification]	-



Terminal No.	1
Wire	P
Signal Name [Specification]	-

Terminal No.	2
Wire	LG
Signal Name [Specification]	-

Terminal No.	3
Wire	V
Signal Name [Specification]	-

Terminal No.	4
Wire	B
Signal Name [Specification]	-

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

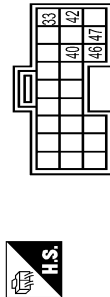
BCM (BODY CONTROL MODULE)

Connector No.	B242
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	MS04FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-

Connector No.	B249
Connector Name	BRAKE BOOSTER CONTROL UNIT
Connector Type	TK24FGY



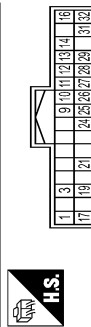
Terminal No.	Color Of Wire	Signal Name [Specification]
33	G	IGNITION
40	SB	IBA OFF SW
42	G	IGNITION
46	B	GROUND
47	LG	BRAKE HOLD RLY DRIVE SIGNAL

Connector No.	B414
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	GY	-
4	P	-
5	W	-
6	V	-
7	LY	-
8	L	-
9	L/R	-
10	GW	-
33	R	-
48	B	-

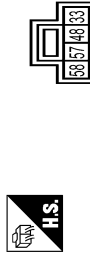
Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LW	RX
3	RY	CAN-H
9	W/G	PULSE (RECLINING)
10	P/B	PULSE (RR LIFTING)
11	BR	SLIDING SW (BACKWARD)
12	SB	RECLINING SW (BACKWARD)
13	LG/R	FRONT LIFTING SW (DOWNWARD)
14	G/B	REAR LIFTING SW (DOWNWARD)
16	O	VCC
17	Y/R	TX

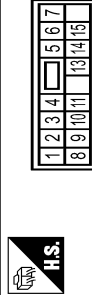
19	V	CAN-L
21	L/Y	P RANGE SW
24	R	PULSE (SLIDING)
25	Y/B	PULSE (RR LIFTING)
26	Y	SLIDING SW (FORWARD)
27	R/G	RECLINING SW (FORWARD)
28	W/B	FRONT LIFTING SW (UPWARD)
29	P/L	REAR LIFTING SW (UPWARD)
31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

Connector No.	B457
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
48	B	-
57	W	-
58	L	-

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	LG	-
3	GR	-
4	V	-

5	SB	-
6	Y	-
7	BR	-
8	L	-
9	W	-
10	O	-
11	G	-
13	P	-
14	V	-
15	W	-

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
19	Y	-

Connector No.	D12
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	SB	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

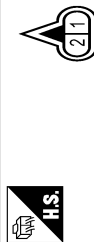
BCM (BODY CONTROL MODULE)

Connector No.	D13
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	RK02FL-B



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-

Connector No.	D14
Connector Name	FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA)
Connector Type	RK02MGY



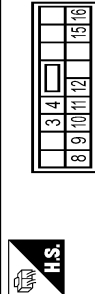
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	V	-

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E08FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	R	-
3	G	-
4	B	-
5	Y	-
6	V	-

Connector No.	D38
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



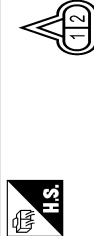
Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	W	-
8	L	-
9	G	-
10	Y	-
11	B	-
12	P	-
15	R	-
16	V	-

Connector No.	D42
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	R	-

Connector No.	D43
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	RK02FL-B



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-

Connector No.	D44
Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Type	RK02MGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-

Connector No.	D45
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	E08FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	LG	-

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	D54
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	R	-
4	L	-
5	G	-
6	B	-
7	B	-

Connector No.	D55
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	E06FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	D59
Connector Name	STEP LAMP (REAR LH)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	O	-

Connector No.	D74
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	R	-
4	L	-
5	G	-
6	B	-
7	B	-

Connector No.	D75
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	E06FGY-RS



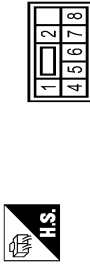
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-

Connector No.	D79
Connector Name	STEP LAMP (REAR RH)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	O	-

Connector No.	D107
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LW	-
2	LB	-
3	G	-
4	L	-
5	W	-
6	L	-
7	LG	-
8	GR	-

Connector No.	D110
Connector Name	LUGGAGE ROOM LAMP (BACK DOOR SIDE)
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	L	-

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

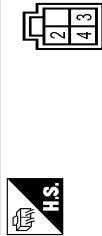
BCM (BODY CONTROL MODULE)

Connector No.	D114
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	TK02MBR-P



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

Connector No.	D115
Connector Name	REAR WIPER MOTOR
Connector Type	CJ04FM-1V



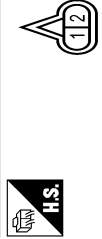
Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
3	BG	-
4	B	-

Connector No.	D116
Connector Name	BACK DOOR OPENER REQUEST SWITCH
Connector Type	TK02MBR-P



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	B	-

Connector No.	D118
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RK02FGY



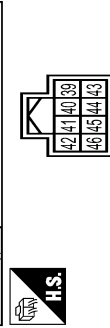
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	E5
Connector Name	IPDM/ER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH02FM-CS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
7	R	-
10	SB	-
12	B	-
13	Y	-
16	LG	-
19	W	-
25	G	-
26	R	-
27	Y	-
28	BG	-
30	GR	-
36	G	-

Connector No.	E6
Connector Name	IPDM/ER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH08FM-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B	-
42	Y	-
43	SB	-
44	W	-

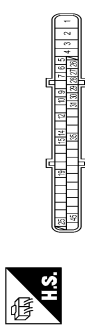
45	G
46	BR

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS04FB-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	B	-
4	P	-

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA42FB-AH24-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	LBWR
3	R	LBVR
4	B	GROUND
5	Y	DS FL
6	BG	DP RL
7	BR	DP BR
8	B	DP FR
10	W	DS FR
12	L	VAC
14	P	CAN-L
15	SHIELD	AGND

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	Signal Name [Specification]
19 P	UST
25 Y	BUS-L
26 R	DP FL
27 GR	DS RL
28 G	UZ
29 LG	DS RR
30 SB	BLS
31 R	VDC OFF SW
35 L	CANH
45 B	BUS-H

Connector No.	Signal Name [Specification]
E58	FRONT COMBINATION LAMP LH
Connector Name	RS04EB-PR
Connector Type	



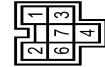
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	G	-
3	B	-
4	BG	-

Connector No.	Signal Name [Specification]
E80	INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM)
Connector Name	RK03FBR
Connector Type	



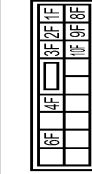
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	+BAT (VOL SMALL)
3	GR	BUZZER SIGNAL

Connector No.	Signal Name [Specification]
E91	ICC BRAKE HOLD RELAY
Connector Name	M06FGY-R-US
Connector Type	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-
3	G	-
4	G	-
6	W	-
7	L	-

Connector No.	Signal Name [Specification]
E103	FUSE BLOCK (J/B)
Connector Name	NS16FW-CS
Connector Type	



Terminal No.	Color Of Wire	Signal Name [Specification]
10F	L	-
11F	SB	-
12F	W	-
13F	Y	-
14F	G	-
15F	BG	-
16F	L	-
17F	R	-

Connector No.	Signal Name [Specification]
E110	STOP LAMP SWITCH
Connector Name	M04FW-LC
Connector Type	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	G	-
4	BR	-

Connector No.	Signal Name [Specification]
F51	A/T ASSEMBLY
Connector Name	RK0FEG-DGY
Connector Type	



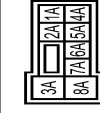
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	R	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	CANH
4	V	K-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	P	CAN-L
9	GR	STARTER RELAY (With VQ engine)
9	LG	STARTER RELAY (With VK engine)
10	B	GROUND

Connector No.	Signal Name [Specification]
F151	TCM
Connector Name	SP10FG
Connector Type	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	IGNITION POWER SUPPLY
2	B	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	R	CANH
4	O	K-LINE
5	G	GROUND
6	GR	IGNITION POWER SUPPLY
7	L	BACK-UP LAMP RELAY
8	BR	CAN-L
9	Y	STARTER RELAY
10	WB	GROUND

Connector No.	Signal Name [Specification]
M1	FUSE BLOCK (J/B)
Connector Name	NS06FW-M2
Connector Type	



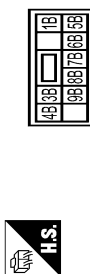
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



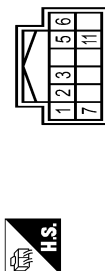
Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



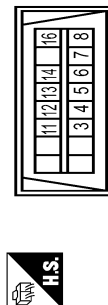
Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	LG	-
12C	R	-
6C	P	-
7C	B	-
9C	BG	-

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



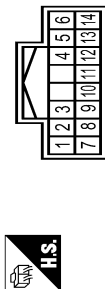
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	BAT
2	GR	CLOCK
3	W	DATA
4	Y	ILL BAT
5	L	ILL BAT
6	LG	GROUND
7	B	KEY SWITCH SIGNAL
11	BR	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



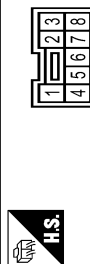
Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	P	-
13	L	-
14	P	-
16	BG	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	FR WASHER (-)
2	SB	OUTPUT 4
3	BG	FR WASHER (+)
4	G	IG
5	L	OUTPUT 3
6	B	GROUND
7	V	INPUT 3
8	BG	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

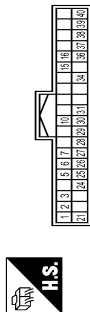
Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	BG	-
4	SB	-
5	GR	-
6	Y	-

7	V
8	P

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	W	ALTERNATOR SIGNAL
7	P	AIR BAG SIGNAL
10	G	SECURITY INDICATOR SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
21	R	IGNITION SIGNAL
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
25	Y	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	PASSENGER SEAT BELT WARNING SIGNAL
31	L	WASHER LEVEL SWITCH SIGNAL
34	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP AB RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

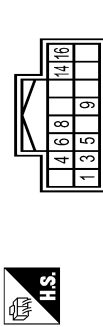
BCM (BODY CONTROL MODULE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FM-NH



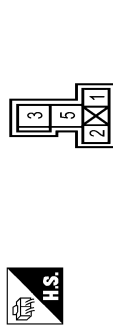
Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CANH
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	ION MODE SIGNAL
65	BG	ECV SIGNAL
69	L	A/C LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CANH

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	V	ACC
4	R	ILL
5	R	ILL CONT
8	SB	AV COM1 (H)
8	LG	AV COM1 (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL
16	G	HAZARD ON

Connector No.	M79
Connector Name	ACCESSORY RELAY (2)
Connector Type	MS02FL-M2-LC



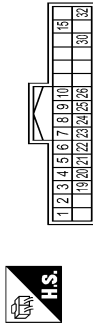
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	LG	-
5	L	-

Connector No.	M94
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	POWER
2	P	OUTPUT
3	B	GROUND

Connector No.	M95
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Type	TH32FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CAN- (L)
2	L	CAN+ (H)
3	BG	RR TUNER (SIG)
4	L	RL TUNER (SIG)
5	R	FR TUNER (SIG)
6	P	FL TUNER (SIG)
7	SB	RR TUNER (VCC)
8	R	RL TUNER (VCC)
9	GR	FR TUNER (VCC)
10	G	FL TUNER (VCC)
15	Y	IGN
19	W	RR TUNER (RSSI)
20	BR	RL TUNER (RSSI)
21	LG	FR TUNER (RSSI)
22	V	FL TUNER (RSSI)
23	B	RR TUNER (GND)
24	Y	RL TUNER (GND)

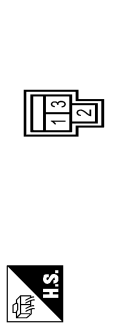
25	W	FR TUNER (GND)
26	P	FL TUNER (GND)
30	LG	BCM FLASHER
32	B	GROUND

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAB04FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	GR	SIGNAL OUTPUT
4	BR	BATTERY

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS03FB-LC



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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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



4	5	7	8	9	10
11	13	15	17	18	19

Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAME)
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	GROUND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

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



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

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



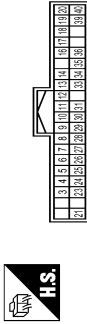
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	M129
Connector Name	TOTAL ILLUMINATION CONTROL UNIT
Connector Type	TH40FW-NH



Terminal No.	Wire	Signal Name [Specification]
3	V	DDL2
4	L	TAIL LAMP SIGNAL
5	V	ACC SIGNAL
6	P	BAT SAVING SIGNAL
7	W	IGN SIGNAL
8	G	DOOR SW (AS)
9	BG	DOOR SW (RL)
10	SB	MOOD LAMP (FR ARMREST RH)
11	Y	MOOD LAMP (RR ARMREST RH)
12	P	MAP LAMP (AS)
13	G	PERSONAL LAMP (LH)
14	R	PERSONAL LAMP (RH)
16	GR	FOOT LAMP (RH)
17	LG	HSPL ILLUMINATIONS
18	L	MAP LAMP (DR)
19	R	PUSH ENG START SW LED
20	Y	AMBIENCE LAMP
21	R	BAT POWER SUPPLY
23	B	GROUND
24	B	ILL CONT INPUT
25	BR	DOOR SW (RR)
26	BR	MAP LAMP SW (DOOR)
27	R	MAP LAMP SW (ALL ON)
28	SB	ROOM LAMP TIMER
29	GR	DOOR SW (DR)
30	LG	MOOD LAMP (FR ARMREST LH)
31	BG	MOOD LAMP (RR ARMREST LH)
33	W	HSPL POWER SUPPLY 3
34	R	HSPL POWER SUPPLY 2
35	V	HSPL POWER SUPPLY 1
36	L	FOOT LAMP (LH)
39	B	Puddle LAMP (RH)
40	BG	Puddle LAMP (LH)

Connector No.	M131
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02MGY



Terminal No.	Wire	Signal Name [Specification]
1	BR	-
2	Y	-

Connector No.	M137
Connector Name	AT SHIFT SELECTOR
Connector Type	TH12FW-NH



Terminal No.	Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
7	BG	-
8	SB	-
9	B	-
10	GR	-
11	R	-

Connector No.	M160
Connector Name	ECM
Connector Type	RH24FGY-R28-LH-Z



Terminal No.	Wire	Signal Name [Specification]
97	R	ENGINE SPEED SIGNAL OUTPUT
99	G	SENSOR POWER SUPPLY
100	L	SENSOR POWER SUPPLY
101	P	CAN COMMUNICATION LINE
102	SB	ASCD/CC STEERING SWITCH
104	R	ACCELERATOR PEDAL POSITION SENSOR 1
105	L	CAN COMMUNICATION LINE
108	P	ACCELERATOR PEDAL POSITION SENSOR 2
110	P	STOP LAMP SWITCH
111	V	SENSOR GROUND
112	LG	FUEL PUMP CONTROL MODULE (FFCM) CHECK
114	GR	DATA LINK CONNECTOR
115	GR	SENSOR GROUND
116	G	TRANSMISSION RANGE SWITCH
117	BR	ASCD/CC BRAKE SWITCH
118	R	POWER SUPPLY FOR ECM (BACK-UP)
119	W	SENSOR GROUND
120	W	FUEL TANK TEMPERATURE SENSOR
121	GR	POWER SUPPLY FOR ECM
123	B	ECM GROUND
125	R	FUEL PUMP CONTROL MODULE (FFCM)
128	B	ECM GROUND

Connector No.	M164
Connector Name	ECM
Connector Type	RH24FGY-R28-LH-Z



Terminal No.	Wire	Signal Name [Specification]
97	R	ACCELERATOR PEDAL POSITION SENSOR 1
98	P	ACCELERATOR PEDAL POSITION SENSOR 2 (Without NAVI)
98	Y	ACCELERATOR PEDAL POSITION SENSOR 2 (With NAVI)
99	G	SENSOR POWER SUPPLY (With NAVI)
99	L	SENSOR POWER SUPPLY (Without NAVI)
100	W	SENSOR GROUND
101	SB	ASCD/CC STEERING SWITCH
102	LG	EVAP CONTROL SYSTEM PRESSURE SENSOR
103	G	SENSOR POWER SUPPLY (Without NAVI)
103	L	SENSOR POWER SUPPLY (With NAVI)
104	BR	SENSOR GROUND (With NAVI)
104	GR	SENSOR GROUND (Without NAVI)
105	L	REFRIGERANT PRESSURE SENSOR
106	W	FUEL TANK TEMPERATURE SENSOR
107	BG	SENSOR POWER SUPPLY
108	V	SENSOR GROUND
109	G	PNP SIGNAL
110	R	ENGINE SPEED OUTPUT SIGNAL
112	V	SENSOR GROUND (CAN CONTROL SYSTEM PRESSURE SENSOR)
113	W	SENSOR GROUND (CAN CONTROL SYSTEM PRESSURE SENSOR)
114	P	CAN COMMUNICATION LINE
114	L	CAN COMMUNICATION LINE
117	GR	DATA LINK CONNECTOR
121	LG	EVAP CANISTER VENT CONTROL VALVE
122	P	STOP LAMP SWITCH
123	B	ECM GROUND
124	B	ECM GROUND
125	GR	POWER SUPPLY FOR ECM
126	BR	ASCD/CC BRAKE SWITCH
127	B	ECM GROUND
128	B	ECM GROUND

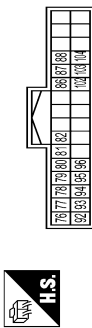
JRMWF4498GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

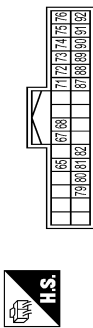
BCM (BODY CONTROL MODULE)

Connector No.	M204
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



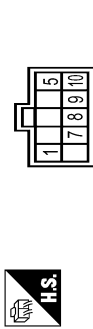
Terminal No.	Color Of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)
79	SB	AV COMM (H)
80	P	CAN-L
81	L	CAN-H
82	BR	SW GND
86	SHIELD	SHIELD
87	L	TEL VOICE SIGNAL (+)
88	P	TEL VOICE SIGNAL (-)
92	R	VEHICLE SPEED SIGNAL (8-PULSE)
93	V	PARKING BRAKE SIGNAL
94	BG	REVERSE SIGNAL
95	G	IGNITION SIGNAL
96	SB	DISK EJECT SIGNAL
102	B	AUX AUDIO LH+
103	W	AUX AUDIO LH+
104	R	AUX AUDIO RH+

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
65	V	PARKING BRAKE SIGNAL
67	B	COMPOSITE IMAGE SIGNAL GND
68	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE SHIELD
72	G	MICROPHONE VCC
73	R	COMM (CONT->DISP)
74	P	CAN-L
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	R	ILLUMINATION
80	G	IGNITION SIGNAL
81	BG	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (8-PULSE)
87	R	MICROPHONE SIGNAL
88	B	SHIELD
89	G	COMM (DISP->CONT)
90	L	CAN-H
91	SB	AV COMM (H)
92	SB	AV COMM (H)

Connector No.	R4
Connector Name	SUNROOF MOTOR ASSEMBLY
Connector Type	YEA10FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	SW-BIT1
5	P	SW-BIT0
7	BR	+B
8	L	SPEED SENSOR (2P)
9	Y	TIMER (+IGN)
10	G	GROUND

Connector No.	R9
Connector Name	RAIN SENSOR
Connector Type	JAAB03FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	+B
2	GR	S/G
3	B	GROUND

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

JRMWF4499GB

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WCS

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Starter control relay signal • Starter relay status signal
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter 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
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

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

DTC Inspection Priority Chart

INFOID:0000000011008650

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	• U1000: CAN COMM • U1010: CONTROL UNIT(CAN)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Priority	DTC
3	- B2190: NATS ANTENNA AMP - B2191: DIFFERENCE OF KEY - B2192: ID DISCORD BCM-ECM - B2193: CHAIN OF BCM-ECM - B2195: ANTI SCANNING
4	- 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/CLUTCH SW - B2605: PNP/CLUTCH SW - B2608: STARTER RELAY - B260A: IGNITION RELAY - B260F: ENG STATE SIG LOST - B2614: BCM - B2615: BCM - B2616: BCM - B2617: BCM - B2618: BCM - B261A: PUSH-BTN IGN SW - B261E: VEHICLE TYPE - B26EA: KEY REGISTRATION - U0415: VEHICLE SPEED SIG
5	- B2621: INSIDE ANTENNA - B2623: INSIDE ANTENNA
6	B26E7: TPMS CAN COMM

DTC Index

INFOID:0000000011008651

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-20, "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference
No DTC is detected. Further testing may be required.	—	—	—	—
U1000: CAN COMM	—	—	—	BCS-39
U1010: CONTROL UNIT(CAN)	—	—	—	BCS-40
U0415: VEHICLE SPEED SIG	—	—	—	BCS-41
B2190: NATS ANTENNA AMP	×	—	—	SEC-47
B2191: DIFFERENCE OF KEY	×	—	—	SEC-50
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-51
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-53
B2195: ANTI SCANNING	×	—	—	SEC-54
B2553: IGNITION RELAY	—	×	—	PCS-53
B2555: STOP LAMP	—	×	—	SEC-55

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference
B2556: PUSH-BTN IGN SW	—	×	×	SEC-57
B2557: VEHICLE SPEED	×	×	×	SEC-59
B2560: STARTER CONT RELAY	×	×	×	SEC-60
B2562: LOW VOLTAGE	—	×	—	BCS-42
B2601: SHIFT POSITION	×	×	×	SEC-61
B2602: SHIFT POSITION	×	×	×	SEC-64
B2603: SHIFT POSI STATUS	×	×	×	SEC-66
B2604: PNP/CLUTCH SW	×	×	×	SEC-69
B2605: PNP/CLUTCH SW	×	×	×	SEC-71
B2608: STARTER RELAY	×	×	×	SEC-73
B260A: IGNITION RELAY	×	×	×	PCS-55
B260F: ENG STATE SIG LOST	×	×	×	SEC-75
B2614: BCM	—	×	×	PCS-57
B2615: BCM	—	×	×	PCS-59
B2616: BCM	—	×	×	PCS-61
B2617: BCM	×	×	×	SEC-77
B2618: BCM	×	×	×	PCS-63
B261A: PUSH-BTN IGN SW	—	×	×	SEC-79
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-82
B2621: INSIDE ANTENNA	—	×	—	DLK-101
B2623: INSIDE ANTENNA	—	×	—	DLK-103
B26E7: TPMS CAN COMM	—	—	—	BCS-43
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	SEC-76

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

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

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

Description

INFOID:0000000010576962

- 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:0000000010576963

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-99, "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-99, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace the combination meter.
NO >> Replace the parking brake switch. Refer to [PB-6, "Exploded View"](#).

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WCS

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description

INFOID:0000000010576964

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

Diagnosis Procedure

INFOID:0000000010576965

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-208, "Symptom Table"](#).

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

Perform the check for the front door switch (driver side) signal circuit. Refer to [DLK-107, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-94, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

INFOID:0000000010576966

- 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:0000000010576967

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"](#).

WCS

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000010576968

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precautions for Removing Battery Terminal

INFOID:000000011008566

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

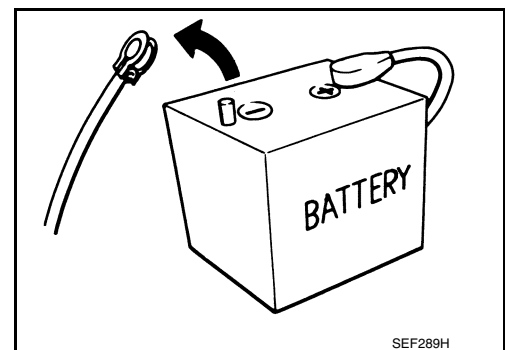
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



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